

NATIONALBOARDOFACCREDITATION

SELF ASSESSMENT REPORT (SAR)

FOR FIRST TIME ACCREDITATION OF

UNDERGRADUATE ENGINEERING PROGRAM (TIER-II)

(Electronics & Communication Engineering)



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Shri Ram Ki Nangal, Via Sitapura, RIICO OPP. EPIP Gate, Tonk Road Jaipur 302022 September-2018

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Gate, Tonk Road, Jaipur 302022

Rajasthan Technical University, Kota

and Akelgarh Rawatbhata Road, Kota 324010

Jaipur Engineering College and Research Centre, Jaipur

Shri Ram Ki Nangal, Via Sitapura, RIICO, OPP. EPIP

Part A: Institutional Information

- 1. Name and Address : of the Institution
- 2. Name and Address of : the Affiliating University
- 3. Year of establishment : 2000 of the Institution
- 4. Type of Institution:

	University	
	Deemed University	
	Government Aided	
	Autonomous	
	Affiliated	Yes
5.	Ownership Status:	
	Central Government	
	State Government	
	Government Aided	
	Self Financing	Yes
	Trust	
	Society	
	Section 25 Company	
	Any Other (Please Specity)	



- Name of the Year of **Programs of Study** Location **Institutions (S) Establishment** JECRC UDML Establishment CE, CSE, ECE, IT, ME Kukas, Jaipur College of 2007 Engineering Year of Closure 2014 JECRC University Goner Road, 2012 School of Engineering, School of Law, School of Ramchandrapura, Design, School of Hotel Jaipur Management, School of Management, School of Science and Humanities. Establishment JECRC School of Tonk Road, School of Management 2004 Management Sitapura, Jaipur Year of Closure 2014 JECRC College of Establishment Tonk Road, Pharmacy 2008 Pharmacy Sitpaura, Jaipur Year of Closure 2010 Establishment Tonk Road, Mahatma Gandhi 2003 Institute of Sitapura, Jaipur **Applied Science** Year of Closure **Applied Science** 2012
- 6. Other Academic Institutions of the Trust/Society /Company etc, if any

7. Details of all the programs being offered by the Institution Under Consideration:

1st Shift

S. No	Program Name (B.Tech)	Year	Intake	Increase Intake, if any	Year of Increase	AICTE approval	Accreditation Status
1	Electrical Engineering-60 Electronics & Communication Engineering-60 Computer Science and Engineering-60	2000	180	-	_	13.07.2000	-
2	Electrical Engineering-60 Electronics & Communication Engineering-60 Computer Science and Engineering-60	2001	240	IT-60	2001	14.06.2001	-



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	Information Technology-60						
	Electrical Engineering-60 Electronics & Communication Engineering-60						
3	Computer Science and Engineering-90	2002 300		Biotech-30 CSE-30	2002	20.06.2002	-
	Information Technology-60 Biotech-30						
4	Electrical Engineering-60 Electronics & Communication Engineering-60 Computer Science and Engineering-90 Information Technology-60 Biotech-30 Mechanical Engineering-60	2003	360	ME-60	2003	12.05.2003	-
5	Electrical Engineering-60 Electronics & Communication Engineering-90 Computer Science and Engineering-120 Information Technology-60 Biotech-30 Mechanical Engineering-60 MBA-60	2004	480	ECE-30 CSE-30 MBA-60	2004	25.06.2004	-
6	Electrical Engineering-60 Electronics & Communication Engineering-90 Computer Science and Engineering-120 Information Technology-60 Biotech-30 Mechanical Engineering-60 MBA-60	2005	480	_	_	27.06.2005	-
7	Electrical Engineering-60 Electronics & Communication Engineering-90 Computer Science and	2006	480	-	_	20.06.2006	-



	Engineering-120						
	Information Technology-60						
	Biotech-30						
	Mechanical Engineering-60						
	MBA-60						
	Electrical Engineering-60 Electronics & Communication Engineering-90						
8	Computer Science and Engineering-120	2007	480	-	_	21.05.2007	-
Ũ	Information Technology-60		100			21.05.2007	
	Biotech-30						
	Mechanical Engineering-60 MBA-60						
	Electrical Engineering-30						
	Electronics & Communication Engineering-120			ECE-30 IT-30			
9	Computer Science and	2008	480	Decrease-	_	22.07.2008	-
	Engineering-120	2000	100	EE-30			
	Information Technology-90	-		Biotech-30			
	Mechanical Engineering-60						
	MBA-60 Civil Engineering-60						
	Electrical Engineering-60			EE-30 ME-30	2009	23.08.2010	
	Electronics & Communication						
	Engineering-120						2 Branch
10	Computer Science and	2009	600				(CSE & ECE)
	Engineering-120 Information Technology-90			CE-60			dated 02.03.2009
	Mechanical Engineering-90						
	MBA-60						
	Civil Engineering-60						
	Electrical Engineering-60						
	Electronics & Communication Engineering-120						2 Branch
11	Computer Science and	2010	600	-	_	23.08.2010	(CSE & ECE)
**	Engineering-120	2010	000				dated
	Information Technology-90						02.03.2009
	Mechanical Engineering-90						
	MBA-60						
12	Civil Engineering-60	2011	660	ECE-60	2011	01.09.2011	2 Branch
	Electrical Engineering-60	2011	000		2011	01.07.2011	(CSE & ECE)



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	Electronics & Communication Engineering-180 Computer Science and Engineering-120 Information Technology-90 Mechanical Engineering-90						dated 02.03.2009
	MBA-60 Civil Engineering-120						
13	Electrical Engineering-60 Electronics & Communication Engineering-240 Computer Science and Engineering-120	2012	870	CE-60 ECE-60 ME-30	2012	10.05.2012	_
	Information Technology-90			ME-II-60			
	Mechanical Engineering-120						
	Mechanical Engineering-II-60						
	MBA-60						
	Civil Engineering-120						
	Electrical Engineering-120						
	Electronics & Communication Engineering-240						
1.4	Computer Science and Engineering-180		1050	EE-60	0010		
14	Information Technology-90	2013		CSE-60 CSE-II-60	2013	19.03.2013	-
	Mechanical Engineering-120						
	Mechanical Engineering-II-60						
	Computer Science-II-60						
	MBA-60						
	Civil Engineering-120						
	Electrical Engineering-120	1					
15	Electronics & Communication Engineering-240 Computer Science and Engineering-180	2014	990	Decreased seats	_	02.07.2014	_
1.7	Information Technology-90	2014	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MBA -60		02.07.2014	
	Mechanical Engineering-120						
	Mechanical Engineering-II-60						
	Computer Science-II-60						
16	Civil Engineering-120	2015	990			07.04.2015	



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Ilectrical Engineering-120 Information Technology-90 Mechanical Engineering-140 Information Technology-90 Mechanical Engineering-11-60 Image: Selectronice and Engineering-11-60 Computer Science-II-60 Image: Selectronice and Engineering-120 Electronice & Communication Engineering-120 Image: Selectronice and Engineering-120 Information Technology-90 Image: Selectronice and Engineering-120 Information Technology-90 Image: Selectronice and Engineering-120 Information Technology-90 Image: Selectronice and Engineering-120 Mechanical Engineering-120 Image: Selectronice and Engineering-120 Mechanical Engineering-120 Image: Selectronice and Engineering-120 Mechanical Engineering-120 Image: Selectronice and Engineering-120 Information Technology-90 Image: Selectronice and Engineering-120 Information Technology-90 Selectronice and Engineering-120								
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image: section of the sectio		Computer Science-II-60						
Electronics & Communication Engineering-240 Computer Science and Information Technology-90 2016 990 05.04.2016 Mechanical Engineering-180 Mechanical Engineering-100 0		Civil Engineering-120						
Engineering-240 Computer Science and Engineering-180201699005.04.2016-Information Technology-90 Mechanical Engineering-120Mechanical Engineering-12005.04.2016-Computer Science-II-60Computer Science and Engineering-12005.04.2016-Electrical Engineering-120Particle Science and Engineering-120Mechanical Engineering-120Particle Science and Engineering-180Mechanical Engineering-120Particle Science and Engineering-180Particle Science and Engineering-180Particle Science and Engineering-120Particle Science and Engineering-120Information Technology-90Mechanical Engineering-120Particle Science and Engineering-120Particle Science and Engineering-120Particle Science and Engineering-120CSE, ECE, ME Eligible and applying Ist time TI, EE, C.F.19Computer Science and Engineering-180Particle Science and Engineering-180Particle Science and Engineering-180Particle Science and Engineering-180CSE, ECE, ME Eligible and applying Ist time TI, EE, C.F.19Mechanical Engineering-120Particle Science and Engineering-180Particle Science and Engineering-18019 <td< td=""><td></td><td>Electrical Engineering-120</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		Electrical Engineering-120						
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Mechanical Engineering-II-60Mechanical Engineering-II-60Mechanical Engineering-120Computer Science-II-60Civil Engineering-120Flectrical Engineering-120Electrical Engineering-240Computer Science andComputer Science and2017990-Information Technology-90Mechanical Engineering-120-Mechanical Engineering-1202017990-Mechanical Engineering-1202017990-Mechanical Engineering-1202017990-Mechanical Engineering-1202018990-Electrical Engineering-120Electrical Engineering-120CSE,ECE,MEElectrical Engineering-1202018990-Felectrical Engineering-1202018990-Mechanical Engineering-12020182018		Information Technology-90						
Computer Science-II-60Image: Computer Science-II-60Image: Computer Science-II-60Image: Computer Science-II-60Image: Computer Science and Engineering-120Image: Computer Science and Science and Science and Science II-60Image: Computer Science II-60Image: Computer Science-II-60Image: Computer Science II-60Image: Computer Science and Science and Science II-60Image: Computer Science and Science II-60Image: Computer Science and Science and Science II-60Image: Computer Science and Science and Science and Science and Science II-60Image: Computer Science and Science and Science and Science II-60Image: Computer Science and Science and Science II-60Image: Computer Science and Science and Science II-60Image: Computer		Mechanical Engineering-120						
Civil Engineering-120Electrical Engineering-120Electronics & Communication Engineering-240Computer Science and Engineering-180Information Technology-90Mechanical Engineering-120Mechanical Engineering-120Mechanical Engineering-120Electronics & Communication Engineering-120Mechanical Engineering-120Mechanical Engineering-120Electronics & Communication Engineering-120Electronics & Communication Engineering-120Mechanical Engineering-120Electronics & Communication Engineering-240Information Technology-90Mechanical Engineering-120Electronics & Communication Engineering-180 Information Technology-90Mechanical Engineering-120Mechanical Engineer		Mechanical Engineering-II-60						
Electrical Engineering-120Electronics & Communication Engineering-240Computer Science and Engineering-180Information Technology-90Mechanical Engineering-120Mechanical Engineering-120Computer Science-II-60Civil Engineering-120Electronics & Communication Engineering-120Electronics & Communication Engineering-120Mechanical Engineering-120Mechanical Engineering-120Electronics & Communication Engineering-120Information Technology-90Mechanical Engineering-120Mechanical Engineering-120Electronics & Communication Engineering-180 Information Technology-90Mechanical Engineering-120Mechanical Engineering-120		Computer Science-II-60						
Electronics & Communication Engineering-240 Computer Science and Engineering-180201799030.03.2017-Information Technology-90Mechanical Engineering-120Mechanical Engineering-120<		Civil Engineering-120						
Engineering-240 Computer Science and Engineering-180201799030.03.2017-Information Technology-90Mechanical Engineering-120Mechanical Engineering-11-60<		Electrical Engineering-120						
Computer Science and Engineering-180201799030.03.2017-Information Technology-90Mechanical Engineering-120Mechanical Engineering-11-60<								
18Engineering-180201799030.03.2017-Information Technology-90Mechanical Engineering-120Mechanical Engineering-11-60Information Technology-90Information Technology-90Info								
Mechanical Engineering-120 Mechanical Engineering-11-60 Computer Science-II-60 Civil Engineering-120 Electronics & Communication Engineering-240 Computer Science and Engineering-180 Information Technology-90 Mechanical Engineering-120	18	-	2017	990	-	-	30.03.2017	-
Mechanical Engineering-II-60Mechanical Engineering-II-60Computer Science-II-60Civil Engineering-120Civil Engineering-120Electrical Engineering-120Civil Engineering-120CSE, ECE, MEElectronics & Communication Engineering-240201899004.04.2018CSE, ECE, ME19Computer Science and Engineering-180201899004.04.2018CSE, ECE, MEInformation Technology-90Mechanical Engineering-120201899004.04.2018CSE, ECE, ME		Information Technology-90						
Computer Science-II-60Civil Engineering-120Civil Engineering-120Electrical Engineering-120Electronics & Communication Engineering-240201819Computer Science and Engineering-180Information Technology-902018Mechanical Engineering-1202018		Mechanical Engineering-120						
Civil Engineering-120Civil Engineering-120CSE,ECE,MEElectrical Engineering-240Electronics & Communication Engineering-240201899004.04.2018CSE,ECE,ME19Computer Science and Engineering-180201899004.04.2018CSE,ECE,MEInformation Technology-90Mechanical Engineering-120Mechanical Engineering-12004.04.2018CSE,ECE,ME		Mechanical Engineering-II-60						
Electrical Engineering-120Electronics & Communication Engineering-240Computer Science and Engineering-180Information Technology-90Mechanical Engineering-120		Computer Science-II-60						
Image: Construction of the engineering-240 Electronics & Communication for the engineering-240 Eligible and applying Ist time 19 Computer Science and for the engineering-180 2018 990 - - 04.04.2018 Eligible and applying Ist time Information Technology-90 Mechanical Engineering-120 - - 04.04.2018 Eligible but not applied		Civil Engineering-120						
19 Computer Science and Engineering-180 2018 990 - - 04.04.2018 applying Ist time IT,EE,CE- Eligible but not applied Mechanical Engineering-120 Mechanical Engineering-120 - - 04.04.2018 applying Ist time		Electrical Engineering-120						
19 Computer Science and Engineering-180 2018 990 - - 04.04.2018 time IT,EE,CE- Eligible but not applied Mechanical Engineering-120 Mechanical Engineering-120 - - 04.04.2018 time IT,EE,CE- Eligible but not applied								•
Engineering-180 Z010 J00 IT,EE,CE- Information Technology-90 Mechanical Engineering-120 Information Technology-90	10		2010	000			04 04 2019	
Mechanical Engineering-120	19		2010	770	-	_	04.04.2010	
Mechanical Engineering-120		Information Technology-90						-
Mechanical Engineering-II-60		Mechanical Engineering-120						**
		Mechanical Engineering-II-60						



Computer Science-II-60			
1			

		2 nd Shif	ť				
S. No	Program Name (B.Tech)	Year of Start	Intake	Increase Intake, if any	Year of Increase	AICTE approval	Accreditation
1	Mechanical Engineering-60	2012	60	-	-	10.05.2012	-
2	Computer Science and Engineering-60 Mechanical Engineering-60	2013	120	60	2013	19.03.2013	-
3	Computer Science and Engineering-60 Mechanical Engineering-60	2014	120	_	_	02.07.2014	-
4	Computer Science and Engineering-60 Mechanical Engineering-60	2015	120	_	_	07.04.2015	-
5	Computer Science and Engineering-60 Mechanical Engineering-60	2016	120	_	_	05.04.2016	-
6	Computer Science and Engineering-60 Mechanical Engineering-60	2017	120	_	_	30.03.2017	-
7	Computer Science and Engineering-60 Mechanical Engineering-60	2018	120	-	-	04.04.2018	CS & ME Eligible but not applied

Write Applicable One:

- Applying first time
- Granted Provisional Accreditation for two/three years for the period (specify period)
- Granted accreditation for 5/6 years for the period (specify period)
- No accredited (Specify visit dates, year)
- Withdrawn (Specify vision dates, year)
- Not eligible for accreditation
- Eligible but not applied
- 8. Program to be Considered for Accreditation vide this application:

S. No	Program name
1	Computer Science and Engineering
2	Electronics & Communication Engineering
3	Mechanical Engineering



9. Total Number of employees in the Institution:

A. Regular^{*} Employee (Faculty and Staff)

Items		CAY+1 (2018-19)	CAY		CAYr	n1	CAYm	2
		No. of Faculty	Min	Max	Min	Max	Min	Max
Faculty in	Μ	122	120	132	114	129	102	117
Engineering	F	58	57	71	56	61	39	61
Faculty in Math, Science & Humanities	М	10	9	14	13	17	15	17
Science & Humannies	F	18	20	25	24	29	21	28
Non-Teaching Staff	Μ	111	91	106	87	100	81	93
	F	13	12	14	12	13	9	12

B. Contractual Staff Employees (Faculty and Staff): (Non Covered in Table A)

C.

Items	Items		CAY		CAYm1		CAYm2	
			Min	Max	Min	Max	Min	Max
		Faculty						
Faculty in	Μ	0	7	7	7	7	6	6
Engineering	F	0	0	0	0	0	0	0
Faculty in Math,	Μ	0	0	0	0	0	0	0
Science &	F	0	0	0	0	0	0	0
Humanities								
Non-Teaching Staff	М	1	0	0	0	0	0	0
	F	0	0	0	0	0	0	0

10. Total Number of Engineering Students:

	<u> </u>			
Item	CAY+1	CAY	CAYm1	CAYm2
	(2018-19)			
Total No. of boys	3312	3457	3499	3410
Total No. of Girls	686	750	811	815
Total No. of Students	3998	4207	4310	4225



- 11. Vision of the Institution:
 - ➤ To become a renowned centre of outcome based learning and work toward academic, professional, cultural and social enrichment in the lives of individuals and communities.
- 12. Mission of the Institution:
 - Focus on evaluation of learning outcome and motivate students to inculcate research aptitude by project based learning.
 - Identity based on informed perception of Indian, regional and global needs and the areas of focus and provide platform to gain knowledge and solutions.
 - > Offer opportunities for interaction between academia and industry.
 - Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.
- 13. Contact Information of the Head of the Institution and NBA Coordinator, If designated:
 - 1. Name : Dr. Vinay Kumar Chandna
 - 2. Designation : Principal
 - 3. Mobile No. : 9891406784
 - 4. Email ID : <u>principal@jecrcmail.com</u>

14. NBA Coordinator, if designated:

- 1. Name : Mr. Manish Jain
- 2. Designation : Dy. Director (Special Projects)
- 3. Mobile No. : 7229823455
- 4. Email ID : dydirector.sp@jecrc.ac.in



Part B: Criteria Summary

Name of the Program: Electronics & Communication Engineering

S.No.	Criteria	Mark/ Weight
	Program Level Criteria	
1	Vision, Mission and Program Educational Objectives	60
2	Program Curriculum and Teaching – Learning Processes	120
3	Course Outcomes and Program Outcomes	120
4	Students' Performance	150
5	Faculty Information and Contributions	200
6	Facilities and Technical Support	80
7	Continuous Improvement	50
	Institute Level Criteria	
8	First Year Academics	50
9	Student Support Systems	50
10	Governance, Institutional Support and Financial Resources	120
	Total	1000



CRITERION 1 Vision, Mission and Program Ed	ional Objectives 60
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1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

1.1 State the Vision and Mission of the Department and Institute (5)

(Vision statement typically indicates aspirations and Mission Statement states the broad approach to achieve aspirations)

(Here Institute Vision and Mission statements have been asked to ensure consistency with the department Vision and Mission statements; the assessment of the Institute Vision and Mission will be taken up in Criterion 10)

VISION OF ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

To contribute to the society through excellence in scientific and technical education, teaching and research aptitude in Electronics & Communication Engineering to meet the needs of Global Industry.

MISSION OF ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

- **M1.** To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively apply their knowledge to design solution of problems arising in their career path.
- M2. To induce the habits of lifelong learning in order to continuously enhance overall performance.
- M3. Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.
- M4. To make the students responsive towards the ethical, social, environmental and economical growth of the society.

VISION OF JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

To become a renowned center of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.

MISSION OF JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

- **M1.** Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.
- M2. Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions.



M3. Offer opportunities for interaction between academia and industry.

M4. Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

Vision of the Institute	To become a renowned center of outcome based
Vision of	learning, and work towards academic, professional,
the Department	cultural and social enrichment of the lives of
	individuals and communities.
To contribute to the society through excellence in	
scientific and technical education, teaching and	Н
research aptitude in Electronics and Communication	П
Engineering to meet the needs of Global Industry.	

Table 1.1.1: Mapping of Institute vision with department Vision

Justification:

The above table shows the consistency of Vision of institue with vision of the department. The reasons behind marking High, Medium and Low are as follows:

Vision is divided into keywords and then correlation is checked with vision of institute.

After taking the feedback from all the faculty members of the department if the consistency found is above 90%, (\checkmark) is marked. If consistency is found between 75-90%, the particular block is left blank.

Why High:

If (\checkmark) is marked in all blocks i.e. all the keywords of vision are found consistent with the vision of institute so it must be rated high.

Medium:

If \checkmark is marked in 50% or above blocks i.e. Vision is moderately consistent with the vision of the department.

Vision of Institute Keywords Of Vision of ECE	To become a renowned center of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.
Contribute in scientific education	\checkmark
Contribute in technical education	\checkmark
Contribute to society	\checkmark
Global existence	\checkmark

 Table 1.1.2: Justification of mapping of Institute vision with department Vision

Mapping of Institute Mission with department Mission

1714	pping of montate m	ission with department w	11001011	
Mission of the Institute	Focus on	Identify, based on	Offer	Develop human
	evaluation of	informed perception of	opportunities	potential to its fullest
	learning outcomes	Indian, regional and	for	extent so that
Mission	and motivate	global needs, areas of	interaction	intellectually capable
of	students to	focus and provide	between	and imaginatively
the Department	inculcate research	platform to gain	academia	gifted leaders can
	aptitude by	knowledge and	and industry.	emerge in a range of
	project based	solutions.		professions.
	learning.			
To equip the students with strong				
foundation of basic sciences and				
domain knowledge of Electronics &	Н	М	Н	М
Communication Engineering, so	11	101	11	101
that they are able to creatively				
apply their knowledge to design				



Self Assessment Report

solution of problems arising in their				
career path.				
To induce the habits of lifelong				
learning in order to continuously	Н	М	Н	Н
enhance overall performance.				
Students are able to communicate				
their ideas clearly and concisely so	Н	Н	Н	Н
that they can work in team as well	11	11	11	11
as an individual.				
To make the students responsive				
towards the ethical, social,	М	Н	Н	Н
environmental and economical	1/1	11	11	п
growth of the society.				

 Table 1.1.3: Mapping of Institute Mission with department Mission

Justification:

The above table shows the consistency of mission of institue with mission of the department. The reasons behind marking High, Medium and Low are as follows:

Mission is divided into keywords and then correlation is checked with mission of institute.

After taking the feedback from all the faculty members of the department if the consistency found is above 90%, (\checkmark) is marked. If consistency is found between 75-90%, the particular block is left blank.

Why High:

If (\checkmark) is marked in all blocks i.e. all the keywords of mission are found consistent with the mission of institute so it must be rated high.

Medium:

If \checkmark is marked in 50% or above blocks i.e. mission is moderately consistent with the mission of the department.

the department.				
Mission of Institute M1 of ECE Keywords	Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.	Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions.	Offer opportunities for interaction between academia and industry.	Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.
Knowledge of basic	\checkmark		\checkmark	
sciences	•		•	
Knowledge of ECE	\checkmark	\checkmark	\checkmark	\checkmark
Apply knowledge for		\checkmark	\checkmark	
designing.	•	•	v	•
Table 1.1.4: Ju	stification of mapping of	Institute Mission with departr	nent Mission 1	
Mission of	Focus on evaluation of	Identify, based on informed	Offer	Develop human
Institute	learning outcomes and	perception of Indian,	opportunities for	potential to its
	motivate students to	regional and global needs,	interaction	fullest extent so that
M2	inculcate research	areas of focus and provide	between academia	intellectually
of ECE	aptitude by project	platform to gain knowledge	and industry.	capable and
Keywords	based learning.	and solutions.		imaginatively gifted
				leaders can emerge
				in a range of

Overall performance Table 1.1.5: Justification of mapping of Institute Mission with department Mission 2



Lifelong learning

Self Assessment Report

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professions.

 \checkmark

Mission of	Focus on evaluation of	Identify, based on	Offer	Develop human
Institute		informed perception of	opportunities for	1
	motivate students to	Indian, regional and global	interaction	extent so that
M3	inculcate research	needs, areas of focus and	between	intellectually capable
of ECE	aptitude by project	provide platform to gain	academia and	and imaginatively
Keywords	based learning.	knowledge and solutions.	industry.	gifted leaders can
				emerge in a range of
				professions.
Communication skills	\checkmark	\checkmark	\checkmark	\checkmark
Team work	\checkmark	\checkmark	\checkmark	\checkmark

Table 1.1.6: Justification of mapping of Institute Mission with department Mission 3

Mission of	Focus on evaluation of	Identify, based on	Offer	Develop human
Institute	learning outcomes and	informed perception of	opportunities for	potential to its fullest
	motivate students to	Indian, regional and global	interaction	extent so that
M4	inculcate research	needs, areas of focus and	between	intellectually capable
of ECE	aptitude by project	provide platform to gain	academia and	and imaginatively
Keywords	based learning.	knowledge and solutions.	industry.	gifted leaders can
				emerge in a range of
				professions.
Ethical values		\checkmark	\checkmark	\checkmark
Social responsibility	\checkmark	\checkmark	\checkmark	\checkmark
Environmental growth		\checkmark	\checkmark	\checkmark
Economical growth	\checkmark	\checkmark	\checkmark	\checkmark

Table 1.1.7: Justification of mapping of Institute Mission with department Mission 4

1.2 State the Program Educational Objectives (PEOs) (5)

(State the PEOs (3 to 5) of program seeking accreditation)

Program Educational Objectives

- **PEO1.** To provide students with the fundamentals of engineering sciences with more emphasis in Electronics & Communication Engineering by way of analyzing and exploiting electronics & communication challenges.
- **PEO2.** To train students with good scientific and Electronics & Communication Engineering knowledge so as to comprehend, analyze, design and create electronics & communication based novel products and solutions for the real life problems.
- **PEO3.** To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate Electronics & Communication Engineering with social issues.
- **PEO4.** To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-long learning needed for a successful Electronics & Communication Engineering professional career.
- **PEO5.** To prepare students to excel in electronics & communication based industry and higher education by educating students in Electronics & Communication Engineering field along with high moral values and knowledge.



1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

(Describe where (websites, curricula, posters etc.) the Vision, Mission and PEOs are published and detail the process which ensures awareness among internal and external stakeholders with effective process implementation)

(Internal stakeholders may include Management, Governing Board Members, faculty, support staff, students etc. and external stakeholders may include employers, industry, alumni, funding agencies, etc.)

Places/person where Vision, Mission and PEOs are published and disseminated

- College Website <u>www.jecrc.in</u>
- Departmental News Letter
- College Magazine
- Department Library
- Faculty Course File
- HOD Office
- Board Room
- Board of Governers Meeting
- Placement Office`
- Alumini Connect Cell
- Faculty Rooms
- Class Rooms
- Notice Boards
- Laboratories
- Student
- Faculty
- Alumni
- Parents
- Professional Bodies (IEEE, IETE, CSI, ISTE)
- Industry persons

1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

(Articulate the process for defining the Vision and Mission of the department and PEOs of the program)



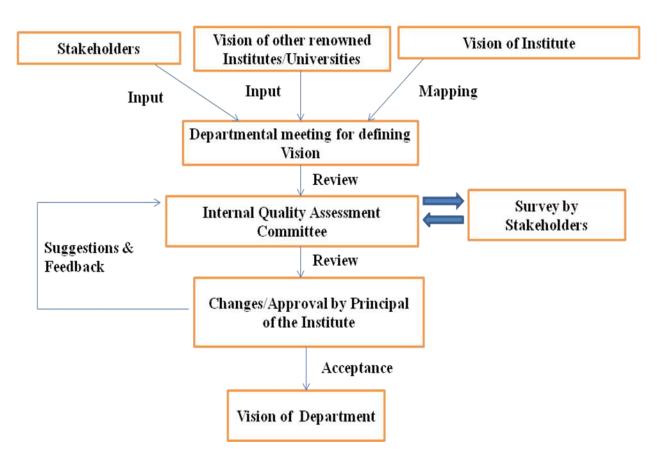


Figure 1.1 Flowchart of defining Vision

With the active participation of HOD, Internal Quality Assessment Committee, faculty members and staff along with the continuous feedback from stakeholders, the Vision and Mission statement of the department was developed in alignment with Vision and Mission of the Institute.

- These statements are discussed further among faculty members before finalization.
- These statements are discussed among students also before finalization.
- The new Vision and Mission statements are sent to the Internal Quality Assessment Committee for changes.

Finally the Vision and Mission are approved by the Principal of Institution.



-	Department of Electronics & Communication Engineering Jaipur Engineering college & Research Centre, Jaipur				- 33	
S.N.	Vision Evaluation Form Vision	15	-	3	-	-
1	The Mission of the ECE Department is to facilitate young Engineers to acquire technical exposure in the areas of Electronics and Communication Engineering, provide World Class Education, nurture career improvement and develop human and social intellectual qualities necessary for the successful practice of the profession.	3	5	3	4	
2	To contribute to the society through excellence in scientific and technical education, teaching and research aptitude in Electronics and Communication Engineering to meet the needs of Global Industry.	-	Service a	and a second	a mar	
3	Producing innovative, creative and ethical Electronics & Communication Engineers with research focus to meet socio-economic needs			5		-
4	To be an internationally renowned institution of higher learning in research, innovation, publication and teaching.					~
4						1

Student Feedback Form of Vision

Designation & Organization Student

S.N.	Vision Evaluation Form Vision	15	4	1	2	Ē
1	The Mission of the ECE Department is to facilitate young Engineers to acquire technical exposure in the areas of Electronics and Communication Engineering, provide World Class Education, nurture career improvement and develop human and social intellectual qualities necessary for the successful practice of the profession.		5			
2	To contribute to the society through excellence in scientific and technical education, teaching and research aptitude in Electronics and Communication Engineering to meet the needs of Global Industry.	~	1			
3	Producing innovative, creative and ethical Electronics & Communication Engineers with research focus to meet socio-economic needs		1	-		
4	To be an internationally renowned institution of higher learning in research, innovation, publication and teaching.			4		

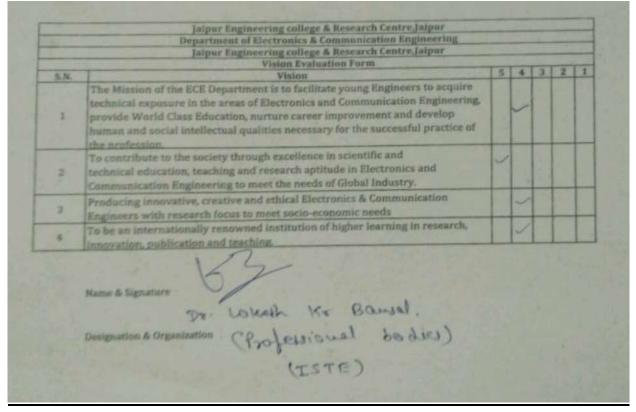
Parents Feedback Form of Vision



Self Assessment Report

The Mission of the ECE Department is to facilitate young technical exposure in the areas of Electronics and Comm provide World Class Education, nurture career improver human and social intellectual qualities necessary for the	unication Engine ment and develop	tering	4 3	T	T
the profession.	successful pract	ice of	V	1	
2 To contribute to the society through excellence in scient technical education, teaching and research aptitude in B Communication Engineering to meet the needs of Global	lectronics and				T
Producing innovative, creative and ethical Electronics & Engineers with research focus to meet socio-economic n	Communication			L	1
4 To be an internationally renowned institution of higher innovation, publication and teaching.		rch,	V	T	T

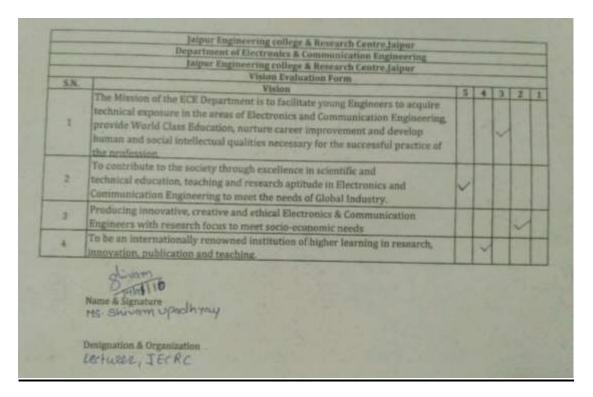
Alumni Feedback Form of Vision



Professional body Feedback Form of Vision



Self Assessment Report



Faculty Feedback Form of Vision

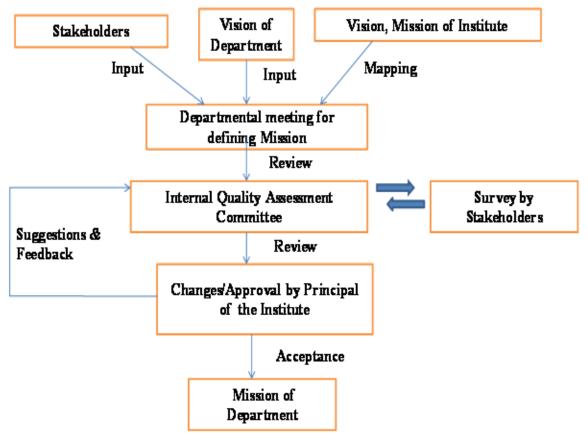


Figure 1.2 Flowchart of defining Mission



Self Assessment Report

_	Jaipur Engineering college & Research Centre Jaipur	1			-	-
-	Department of Electronics & Communication Engineering	-	-	_	-	
-	Jaipur Engineering college & Research Centre, Jaipur			_	_	
N.	Mission evalution form	-				_
LIN.	Mission	5	4	3	2	1
1	To equip the students with strong foundation of basic sciences and domain knowledge of ECE, so that they are able to creatively apply their knowledge to the solution of problems arising in their career path	~				
2	Promote the establishment of centres of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students	1		-	V	
3	To induce the habit of lifelong learning to continuously enhance overall performance	V	1000	Dec.		
4	To impart high quality education to enable students to face the challenges in the fields of Electronics and Communication Engineering		1			~
5	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	V				
6	Providing self directed learning opportunities to meet a variety of career choices			V		12
1	Our Mission is to impart cutting edge technologies through state-of-art infrastructure with a human touch		V			
	To make the students responsive towards the ethical, social, environmental and in economic context for the society	~				-
	Naveru-					
*	Name & Signature Neen pransluge					
20	CAREN DIG ASTRACT					
	Designation & Organization					

Student Feedback Form of Mission

-	Jaipur Engineering college & Research Centre Jalpur Mixsion evalution form	-	-	-	-	-
5.16.	Mission	4		1	21	-
1	To equip the students with strong foundation of basic adences and domain knowledge of ECE, so that they are able to creatively apply their knowledge to the solution of problems arising in their career path	~				
2	Promote the establishment of centres of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students.			~		
3	To induce the habit of lifelong learning to continuously enhance overall performance			100		
4	To impart high quality education to enable students to face the challenges in the fields of Electronics and Communication Engineering					
8	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual	1	~			
6	Providing self directed learning opportunities to meet a variety of career choices			5		
12	Our Mission is to impart cutting edge technologies through state-of-art infrastructure with a human touch			5		
	To make the students responsive towards the ethical, social, environmental and in economic context for the society	~				
	Name & Signature Designation & Organization (Parents)					

Parents Feedback Form of Mission



Self Assessment Report

S.N. 1						
	Mission	5	4	3	2	
1 1	To equip the students with strong foundation of basic sciences and domain knowledge of ECE, so that they are able to creatively apply their knowledge to the solution of problems arising in their career path	~				
	Promote the establishment of centres of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students		V			
3 2	To induce the habit of lifelong learning to continuously enhance overall performance	1		-		1
4	To Impart high quality education to enable students to face the challenges in the fields of Electronics and Communication Engineering			~		
2 1	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an Individual.	V		-		
6 P	Providing self directed learning opportunities to meet a variety of career choices				V	1
7 1	Our Mission is to impart cutting edge technologies through state-of-art infrastructure with a					V
	To make the students responsive towards the ethical, social, environmental and in economic context for the society	v				

Alumni Feedback Form of Mission

5.N.	Mission evalution form Mission		4	3	2	
1	To equip the students with strong foundation of basic sciences and domain knowledge of ECE, so that they are able to creatively apply their knowledge to the solution of problems arising in their career path	~				
2	Promote the establishment of centres of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students		~			
2	To induce the habit of lifelong learning to continuously enhance overall performance	1			-	
4.	To impart high quality education to enable students to face the challenges in the fields of Electronics and Communication Engineering		4		201	
-	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	~				
6	Providing self directed learning opportunities to meet a variety of career choices			1		
7 1	Our Mission is to impart cutting edge technologies through state-of-art infrastructure with a human touch	1	1			
	To make the students responsive towards the ethical, social, environmental and in economic context for the society	~	1	1.30		1
2 2	tame & Signature Dr. Loketh Kr. Bangal resignation & Organization (Professional bod:23) (ISTE)			-		

Professional body Feedback Form of Mission



Self Assessment Report

PEOs are the characteristics of graduates of a program, which enable the students to become successful professionals in their field. The department has documented measurable PEOs for its Bachelor of Technology in Computer Science Engineering programmed taking into account the program's constituencies and the mission of college. The PEOs are established in the light of the vision and mission statements of the department.

Our process for establishing and revising Program Educational Objectives (PEOs) is depicted in Figure 1.3 below. Vision and Mission of the Institute, Department and Graduate attributes recommended by NBA are taken as directorial factors in forming the PEOs. Stakeholder inputs are obtained through extensive surveys with follow-up telephone calls by the Department HOD and associated faculties.

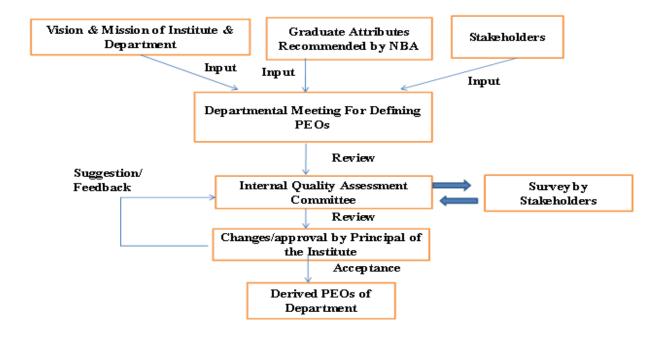
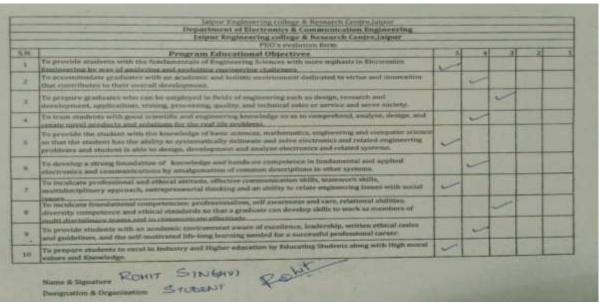


Figure 1.3 Flowchart of defining PEO



Student Feedback Form of PEO



Self Assessment Report

S.N.	PEO's evalution form Program Educational Objectives	-	1	Ter I	-	_
1	To provide students with the fundamentals of Engineering Sciences with more rephasis in Electronics Engineering by way of analyzing and exploiting contineering challenges.	1		V	-	127
2	To accommodate graduates with an academic and helistic environment dedicated to virtue and innovation that contributes in their overall development.	-		1	2.0	
3	To prepare graduates who can be employed in fields of engineering such as design, research and development, applications, testing, processing, quality, and technical sales or service and serve society.		1			
4.	To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and exeate newel products and solutions for the real life problems.	~				
5	To provide the student with the knowledge of basic sciences, mathematics, engineering and computer science so that the student has the ability to systematically delineate and solve electronics and related engineering problems and student is able to design, development and analyze electronics and related systems.			~		
6	To develop a strong foundation of knowledge and hands-on competence in fundamental and applied electronics and communications by amalgamation of common descriptions in other systems.			1		
7	To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepresential thinking and an ability to relate engineering lances with social issues.		7			
	To inculcate foundational competencies: professionalism, self awareness and care, relational abilities, diversity competence and ethical standards so that a graduate can develop skills to work as members of multi-disciplinacy teams and to communicate effectively.			~		
-	To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-long learning needed for a successful professional career.		~			
	To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	1				

Parents Feedback Form of PEO

	PEO's evalutions form							
53	Frugram Educational Objectives	3	100	1 3				
1	To provide students with the fundamentals of Engineering followers with more nightant in Electronics Engineering by way of analyzing and excluding contempts the forces.	1						
1	To accommodate graduates with an academic and builatic environment disheated to sirtue and innovation that contributes to their overall development.			V				
3	To proyuese graduates who can be employed to fields of engineering such as design, research and development, applications, truting, processing, quality, and tochnical sales or service and serve society.		1					
4	To train students with good scientific and engineering knowledge so as to obspretend, analyse, design, and create sevel oroducts and solutions for the rest tite problems.	1	10		1.81			
5	To provide the student with the knowledge of basis oriences, mathematics, engineering and computer attence so that the student has the ability in systematically defineate and solve electronics and related regimeering problems and student is able to design, development and analyze electronics and related systems.		~					
	To develop a string foundation of knowledge and bunds-on competence in fundamental and applied electronics and communications by analgamation of common descriptions is other systems.			~				
7	To meadcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinacy apprivach, entrepreneurial thisking and as ability to relate engineering forces with optial lowest	~						
я.	To incidente foundational competencies: professionalism, self awareness and care, relational abilities, diversity competence and ethical standards so that a graduate can develop skills to week as members of multi-directolinary teams and to communicate effectively.			/				
	To provide students with an academic oreironment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-iong learning needed for a successful professional career.	/						
2.1	To prepare students to excel to Industry and Higher education by Educating Students along with High moral values and Reportedge. (NPALSA). Kame & Signature (New 3-93 Mcl work) beignation & Organization (N. 2000)	1						

Alumni Feedback Form of PEO



Self Assessment Report

1.5. Establish consistency of PEOs with Mission of the Department (15)

(Generate a "Mission of the Department – PEOs matrix" with justification and rationale of the mapping)Note: M1, M2,....Mn are distinct elements of Mission statement. Enter correlation levels 1, 2 or 3as defined below:1: slight (Low)2: Moderate (Medium)3: Substantial (High)If there is no correlation put"-"

PEO's	To equip the students with strong foundation of basic sciences and domain knowledge of ECE, so that they are able to creatively apply their knowledge to design solution of problems arising in their career path.	To induce the habits of lifelong learning in order to continuously enhance overall performance.	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	To make the students responsive towards the ethical, social, environmental and economical growth of the society.
To provide students with the fundamentals of engineering sciences with more emphasis in Electronics & Communication Engineering by way of analyzing and exploiting electronics & communication challenges.	Н	М	Н	М
To train students with good scientific and Electronics & Communication Engineering knowledge so as to comprehend, analyze, design and create electronics & communication based novel products and solutions for the real life problems.	Н	Н	Н	М
To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate Electronics & Communication Engineering with social issues.	М	М	Н	Н
To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life- long learning needed for a successful Electronics & Communication Engineering professional career	М	Н	М	Н
To prepare students to excel in electronics & communication based industry and higher education	Н	Н	М	М



Self Assessment Report

Table 1.5.1: Mapping of PEOs with Mission

Justification:

The above table shows the consistency of PEOs with Mission of the department. The reasons behind marking High, Medium and Low are as follows: PEO's are divided into keywords and then correlation is checked with all missions.

After taking the feedback from all the faculty members of the department if the consistency found is above 90%, (\checkmark) is marked. If consistency is found between 75-90%, the particular block is left blank.

Why High:

If (\checkmark) is marked in all blocks i.e. all the keywords of PEO are found consistent with the mission so it must be rated high.

Medium:

If $\sqrt{}$ is marked in 50% or above blocks i.e. PEO is moderately consistent with the mission of the department.

	To equip the students with strong	To induce the	Students are able to	To make the students
MISSION	foundation of basic sciences and	habits of lifelong	communicate their	responsive towards the
PEO 1	domain knowledge of ECE, so that	learning in order	ideas clearly and	ethical, social,
Keywords	they are able to creatively apply their	to continuously	concisely so that they	environmental and
Keywolds 11	knowledge to design solution of	enhance overall	can work in team as	economical growth of the
	problems arising in their career path.	performance.	well as an individual.	society.
Fundamentals of Engineering Sciences.	\checkmark		\checkmark	
Analyzing and exploiting engineering challenges.	\checkmark	\checkmark	\checkmark	\checkmark

Table 1.5.2: Justification of mapping of PEO 1 with Mission

	usie 1.2.2. Sustilleution of mupping of		—	
	To equip the students with strong	To induce the	Students are able to	To make the students
MISSION	foundation of basic sciences and	habits of lifelong	communicate their	responsive towards the
PEO 2	domain knowledge of ECE, so that	learning in order	ideas clearly and	ethical, social,
	they are able to creatively apply their	to continuously	concisely so that they	environmental and
Keywords	knowledge to design solution of	enhance overall	can work in team as	economical growth of the
	problems arising in their career path.	performance.	well as an individual.	society.
Good scientific and engineering knowledge.	\checkmark	\checkmark	\checkmark	
Create novel products and solutions for the real life				1
problems.	¥	¥	¥	v

Table 1.5.3: Justification of mapping of PEO 2 with Mission



Self Assessment Report

	To equip the students with strong	To induce the	Students are able to	To make the students
MISSION	foundation of basic sciences and	habits of lifelong	communicate their	responsive towards the
	domain knowledge of ECE, so that	learning in order	ideas clearly and	ethical, social,
PEO 3	they are able to creatively apply their	to continuously	concisely so that they	environmental and
Keywords	knowledge to design solution of	enhance overall	can work in team as	economical growth of the
	problems arising in their career path.	performance.	well as an individual.	society.
Professional and ethical attitude.	V	√	\checkmark	✓
Communication skills, teamwork skills.		\checkmark	\checkmark	\checkmark
Multidisciplinary approach.	\checkmark		\checkmark	\checkmark
Entrepreneurial thinking.		\checkmark	\checkmark	\checkmark
Relate engineering issues with social issues.	\checkmark	\checkmark	\checkmark	\checkmark
	Table 1.5.4: Justification of mapping of	PEO 3 with Mission	1	
	To equip the students with strong	To induce the	Students are able to	To make the students
MISSION	foundation of basic sciences and	habits of lifelong	communicate their	responsive towards the
	domain knowledge of ECE, so that	learning in order	ideas clearly and	ethical, social,
PEO4	they are able to creatively apply their	to continuously	concisely so that they	environmental and
Keywords	knowledge to design solution of	enhance overall	can work in team as	economical growth of the
	problems arising in their career path.	performance.	well as an individual.	society.
Academic environment aware of excellence,	\sim	\checkmark	\checkmark	\checkmark
leadership, written ethical codes.				
Successful professional career.	\checkmark	\checkmark	\checkmark	\checkmark
Self-motivated life-long learning.		\checkmark		\checkmark
נ	Table 1.5.5: Justification of mapping of	PEO 4 with Mission	1	
	To equip the students with strong	To induce the	Students are able to	To make the students
MISSION	foundation of basic sciences and	habits of lifelong	communicate their	responsive towards the
PEO5	domain knowledge of ECE, so that	learning in order	ideas clearly and	ethical, social,
	they are able to creatively apply their	to continuously	concisely so that they	environmental and
Keywords	knowledge to design solution of	enhance overall	can work in team as	economical growth of the
	problems arising in their career path.	performance.	well as an individual.	society.
Excel in Industry and Higher education.		\checkmark	\checkmark	

Table 1.5.6: Justification of mapping of PEO 5 with Mission

 \checkmark



High moral values and Knowledge.

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 \checkmark

 \checkmark

Mission PEOs	To expoje the students with strong Roundation of human schemaling of ECE, so that they are able to creationly apply there knowledge to the schelars of pertinent artiging in their careto path.	To induce the balls of Eduting learning to conditioned/ antianos point all partitionance	Muchaerst are able to communicate their block photoly and conclusing an that there can assoch in teach an and as an individual.	To motes the chartents treasured of treasured of ethical, control, error-prevential and in second to motivat the the next pay
 To provide students with the fundamentals of Engineering Sciences with more emphanis in Electronics Engineering by way of analyzing and exploiting engineering challenges. 	Н	M	M	M
 To train students with good accentific and engineering knowledge on as to comprehend, analyze, design, and critic novel pepdacts and "schittling for the yeal life problems. 	H	M	н	М
 To inculcate professional and ethical autitude, effective communication skills, tenantwork skills, multidisciplinary approach, entrepreneutial diffiking and an ability to cellate engineering issues with goilg, tenuts. 	н	M	H	A
4 To provide students with an academic environment aware of excellence, leadership, written ethical coffes and guidefore, and the self-motivated life-long, hearing needed for a movemental professional career.	M	H	M	н
 To prepare students to result in Industry and Higher effection by Educating Students along with High moral values and Kacavindge. 	M	M	М	н
Note: The above table st marking as a. If you Ages 50% mark 0	Suchens/Partent)	ai agrice 50%, 60%, the	en mark I e. If your age	comment is holow

Faculty Feedback Form of PEO



Self Assessment Report

CRITERION 2	Program	Curriculum	and	Teaching	-	Learning	120
	Processes						

2.1 PROGRAM CURRICULUM (20)

2.1.1 State the process used to identify extent of compliance of the university curriculum for attaining the program outcomes and program specific outcomes as mentioned in annexure I. Also mention the identified curricular gaps, If any (10)

(State the process details; also mention identified curricular gaps).

Note: In case all POs are being demonstrably met through University Curriculum then 2.1.2 will not be applicable and the weightage of 2.1.1 will be 20.

Jaipur Engineering College and Research Centre is affiliated to Rajasthan Technical University, Kota. So, the program curriculum is as per the scheme and syllabus described by RTU, Kota. The Curriculum maintains a balance in the composition of Basic Science, Humanities and Professional Ethical courses, Computer Programming based subjects along with Basic and Advanced branch related subjects.

Below is the scheme specified by RTU for Electronics & Communication engineering:

For CAYm1 (2016-17), CAYm2 (2015-16) and CAYm3 (2014-15)

	Sch	eme of	E	ffective	Examination from the Sess to all branch	sion: 2012 -	- 2013	I Semester			
I	Electronics & Communication Engineering	Te	aching l	Hrs	Exam Hrs (Theory Paper)	Marks Allocation					
Course Code	Subject	L	Т	Р		Theory	Term test	Sessional	Practical Exam	Total	
101	Communicative English	3	1	-	3	80	20			100	
102	Engineering Mathematics-I	3	1	-	3	80	20			100	
103	Engineering Physics-I	3	1	-	3	80	20			100	
104	Engineering Chemistry	3	1	-	3	80	20			100	
105	Basic Electrical & Electronics Engineering	3	0	-	3	80	20			100	
	Total	15	4			400	100			500	
106	Engineering Physics Lab-I	-	-	2				45	30	75	
107	Engineering Chemistry Lab			2				45	30	75	
108	Electrical & Electronics Lab	-	-	2				60	40	100	
109	Practical	-	-	3				60	40	100	



Self Assessment Report

1	Geometry								
110	Workshop Practice	-	-	2			60	40	100
111	Discipline & Extra Curricular Activities	-	-				50		50
	Grand Total	15	4	11	400	100	320	180	1000

	Schen	ne of T			xamination from the Sess			I Semester				
					to all branche							
П	Electronics & Communication Engineering	Tea	aching	Hrs	Exam Hrs (Theory Paper)		Marks Allocation					
Course Code	Subject	L	Т	Р		Theory	Term test	Sessional	Practical Exam	Total		
201	Communication Techniques	2			3	80	20			100		
202	Engineering Mathematics-II	3	1		3	80	20			100		
203	Engineering Physics-II	2	1		3	80	20			100		
204	Chemistry & Environmental Engineering	3	1		3	80	20			100		
205	Engineering Mechanics	3	1		3	80	20			100		
206	Fundamentals of Computer Programming	3			3	80	20			100		
	Total	16	4			480	120			600		
207	Engineering Physics Lab-II			2				30	20	50		
208	Chemistry & Environmental Engineering Lab			2				30	20	50		
209	Computer programming lab			2				45	30	75		
210	Machine Drawing			3				60	40	100		
211	Communication Technique Lab			2				45	30	75		
212	Discipline & Extra Curricular Activities							50		50		
	Grand Total	16	4	11		480	120	260	140	1000		



		Effective from the sess	ion: 20	17-18				
		Course Title	L	Т	Р		Marks	
S. No.	Subject Code	Theory Papers				IA	External	Total
1	MA-101	Engineering Mathematics- I	3	1	0	20	80	100
2	HU-101/ HU-103	Communication Skills / Human Values	3	0	0	20	80	100
3	PY-101/ CY-101	Engineering Physics/ Engineering Chemistry	3	1	0	20	80	100
4	CS-101	Computer Programming-I	3	0	0	20	80	100
5	CE-101	Environmental Engineering and Disaster Management	3	0	0	20	80	100
		Total	15	2	0	100	400	500
		Practical						
6	HU-102/ HU-104	Communication Skills Lab./ Human Values: Activities	0	0	2	45	30	75
7	PY-102/ CY-102	Engineering Physics Lab/ Engineering Chemistry Lab	0	0	2	45	30	75
8	CS-102	Computer Programming-I Lab.	0	0	2	60	40	100
9	CE-102	Computer Aided Engineering Graphics	0	0	3	60	40	100
10	ME-101	Mechanical Workshop Practice	0	0	2	60	40	100
11		Discipline & Extra Curricular Activity	0	0	0	50	0	50
		Total	0	0	11	320	180	500
		Grand Total	15	2	11	420	580	1000

For CAY (2017-18)

Scheme of Teaching & Examination for I year B. Tech. I Semester

Effective from the session: 2017-18

(Total 28 periods per week)

L = Lecture, T = Tutorial, P = Practical, IA=Internal Assessment

Scheme of Teaching & Examination for I year B. Tech. II Semester

Effective	from	the	session	2017-18

		Course Title	L	Т	Р	Marks			
S. No.	S. No. Subject Code Theory Papers					IA	External	Total	
1	MA-102	Engineering Mathematics-II	3	1	0	20	80	100	
2	HU-103/ HU-101/	Human Values/ Communication Skills	3	0	0	20	80	100	
3	CY-101/ PY-101	Engineering Chemistry/ Engineering Physics	3	1	0	20	80	100	
4	CS-103	Computer Programming-II	3	0	0	20	80	100	
		Elective (any two)*							
5	EE-101	Basic Electrical and Electronics	3 3	0	0 0	20 20	80 80	100 100	



Self Assessment Report

		Engineering						
6	CE-103	Basic Civil Engineering						
7	ME-102	Basic Mechanical Engineering						
8	OE-101	Engineering Mechanics						
		Total	18	2	0	120	480	600
		Practical						
9	HU-104/ HU-102	Human Values: Activities Communication Skills Lab.	0	0	2	45	30	75
10	CY-102/ PY-102	Engineering Chemistry Lab/ Engineering Physics Lab	0	0	2	45	30	75
11	CS-104	Computer Programming-II Lab	0	0	2	60	40	100
12	ME-104	Computer Aided Machine Drawing	0	0	3	60	40	100
13		Discipline & Extra Curricular Activity	0	0	0	50	0	50
		Total	0	0	9	260	140	400
		Grand Total	18	2	9	380	620	1000

(Total 29 periods per week) L = Lecture, T = Tutorial, P = Practical, IA=Internal

Assessment

Scheme	e of Teaching & Examination for II year B.	Tech.	III Se	emest	er		
BRANCH CODE	EC				EC		
Course Code	ELECTRONICS AND COMMUNICATION ENGG		Hı	rs. / W	eek		
SEMESTER III	Title	L	Т	Р	IA	Exam	Total
3EC1A	Electronic Devices & Circuits	3	0		20	80	100
3EC2A	Data Structures & Algorithms	3	0		20	80	100
3EC3A	Digital Electronics	3	0		20	80	100
3EC4A	Circuit Analysis & Synthesis	3	1		20	80	100
3EC5A	Electromagnetic Properties Of Materials	3	0		20	80	100
3EC6A	Advanced Engineering Mathematics-I	3	1		20	80	100
	Total						600
3EC7A	Electronic Instrumentation Workshop			2	45	30	75
3EC8A	Computer Programming Lab-I			2	45	40	75
3EC9A	Electronic Device Lab			2	45	40	75
3EC10A	Digital Electronics Lab			2	45	30	75
3EC11A	Business Entrepreneurship			2	30	20	50
3ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	2	10			1000
Scheme	e of Teaching & Examination for II year B.	Tech.	IV Se	emeste	er		
BRANCH CODE	EC				EC		
Course Code	ELECTRONICS AND COMMUNICATION ENGG		Hı	rs. / W	eek		



Self Assessment Report

SEMESTER - IV	Title	L	Т	Р	IA	Exam	Total
4EC1A	Analog Electronics	3	0		20	80	100
4EC2A	Random Variables & Stochastic Processes	3	1		20	80	100
4EC3A	Electronic Measurement & Instrumentation	3	0		20	80	100
4EC4A	Electromagnetic Field Theory	3	1		20	80	100
4EC5A	Optimization Techniques	3	1		20	80	100
4EC6A	Advanced Engineering Mathematics-II	3	1		20	80	100
	Total						600
4EC7A	Computer Programming Lab-II			2	60	40	100
4EC8A	Analog Electronics Lab			2	60	40	100
4EC9A	Measurement & Instrumentation Lab			2	60	40	100
4EC10A	Humanities & Social Sciences			2	30	20	50
4ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	4	8			1000
Scheme	of Teaching & Examination for III year B	. Tech	n. V Se	emest	er		•
BRANCH CODE	EC				EC		
Course Code	ELECTRONICS AND COMMUNICATION ENGG		Hr				
SEMESTER - V	Title	L	Т	Р	IA	Exam	Total
5EC1A	Signals & Systems	3	1		20	80	100
5EC2A	Linear Integrated Circuits	3	0		20	80	100
5EC3A	Telecommunication Engg.	3	0		20	80	100
5EC4A	Analog Communication	3	1		20	80	100
5EC5A	Microwave Engineering -I	3	0		20	80	100
5EC6A	Elective (any one of the following)						
5EC6.1A	Biomedical Instrumentation						
5EC6.2A	Advanced Data Structures	3	0		20	80	100
5EC6.3A	Computer Oriented Numerical & Statistical Methods		Ŭ				200
	Total						600
5EC7A	Electronic Engineering Design Lab			2	45	30	75
5EC8A	Microwave Engg. Lab			2	45	30	75
5EC9A	Communication Lab-I			2	45	30	75
5EC10A	Signal Processing Lab			2	45	30	75
5EC11A	Professional Ethics and Disaster Management			2	30	20	50
5ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	2	10			1000
Scheme	of Teaching & Examination for III year B	. Tech	. VI S	emest	er	L	1
BRANCH CODE	EC				EC		
Course Code	ELECTRONICS AND	1	U-	s. / W			
Course Code	COMMUNICATION ENGG		H	s. / W	eek		



Title	L	Т	Р	IA	Exam	Total
Microwave EnggII	3	1				100
				-		100
		-		-		100
				-		100
0		_				100
	5	U		20	00	100
	3	0		20	80	100
	- 3	U	U		00	100
						600
	-		2	45	20	75
			-			
						75
			-			75
			2	45	30	75
Personality Development & General Aptitute			2	30	20	50
Discipline & Extra Curricular Activity						50
Total						400
Grand Total	18	2	10			1000
f Teaching & Examination for IV year B.	Tech.	VII S	emes	ter		
EC				EC		
ELECTRONICS AND COMMUNICATION ENGG	Hrs. / Week					
1	L	Т	Р	IA	Exam	Total
Antenna & Wave Propagation	3	0		20	80	100
Digital Signal Processing	3	1		20	80	100
Digital Image Processing	3	1		20	80	100
Wireless Communication	3	0		20	80	100
VLSI Design	3	0		20	80	100
Elective (any one of the following)						
Artificial Intelligence and Expert	3	0		20	80	100
						600
			3	60	40	100
0 0 0					-	100
	-					100
-	-				40	50
-			2	50		
						50
Total						400
~		-				
Grand Total Teaching & Examination for IV year B.	18 Tech	2	10	to-		1000
	Microwave EnggIIMicroprocessorsIndustrial ElectronicsDigital CommunicationControl SystemsElective (any one of the following)Neural NetworksParallel Computation & ArchitectureOptical Fiber CommunicationTotalCommunication Lab-IIMicroprocessor LabRF Simulation LabIndustrial Electronics LabPersonality Development & General AptituteDiscipline & Extra Curricular ActivityTotalGrand TotalTotalECELECTRONICS AND COMMUNICATION ENGGDigital Signal ProcessingDigital Signal ProcessingDigital Signal ProcessingDigital Image ProcessingElective (any one of the following)Advanced MicroprocessorsArtificial Intelligence and Expert SystemsVHDLTotalSignal & Image Processing LabWireless Communication LabPractical Training & Industrial VisitProject-IDiscipline & Extra Curricular Activity	Microwave EnggII3Microprocessors3Industrial Electronics3Digital Communication3Control Systems3Elective (any one of the following)1Neural Networks3Parallel Computation & Architecture3Optical Fiber Communication3Total1Communication Lab-II1Microprocessor Lab1RF Simulation Lab1Industrial Electronics Lab1Personality Development & General Aptitute1Discipline & Extra Curricular Activity1Total1Grand Total18Total1EC1EC1EC1EC1Digital Signal Processing3Digital Signal Processors3Wireless Communication3VLSI Design3Elective (any one of the following)3Advanced Microprocessors3VHDLTotalTotal3Digital Intelligence and Expert Systems3VHDLTotal2Project-I2Discipline & Extra Curricular ActivityItal1Microprocessors3Digital Intelligence and Expert Systems3Util Intelligence and Expert 	Microwave EnggII31Microwave EnggII30Industrial Electronics30Digital Communication31Control Systems30Elective (any one of the following)Neural Networks30Parallel Computation & Architecture30Optical Fiber CommunicationTotalCommunication Lab-IIMicroprocessor LabRF Simulation LabIndustrial Electronics LabPersonality Development & General AptituteDiscipline & Extra Curricular ActivityTotal182f Teaching & Examination for IV year B. Tech. VII SECECELECTRONICS AND COMMUNICATION ENGG30Digital Signal Processing31Digital Signal Processing31Wireless Communication30VLSI Design30Elective (any one of the following) Advanced Microprocessors Artificial Intelligence and Expert Systems3VHDLTotal-TotalSignal & Image Processing Lab-Wireless Communication Lab-Practical Training & Industrial Visit-Project-IDiscipline & Extra Curricular Activity-	Microwave EnggII31Microprocessors30Industrial Electronics30Digital Communication31Control Systems30Elective (any one of the following)Neural Networks30Parallel Computation & Architecture30Optical Fiber CommunicationTotalCommunication Lab-II-3Microprocessor Lab-2RF Simulation Lab-2Personality Development & General Aptitute-Discipline & Extra Curricular Activity-TotalGrand Total182IT eaching & Examination for IV year B. COMMUNICATION ENGGHrs. / WDisciplial Signal Processing31Digital Signal Processing31Digital Image Processing30VILSI Design30Advanced Microprocessors Systems-Artificial Intelligence and Expert Systems-Signal & Image Processing LabVHDLTotalSignal & Image Processing Lab-Signal & Image Processing Lab-Vireless Communication Lab-Jisipal & Image Processing Lab-Signal & Image Processing Lab-Vireless Communication Lab-Practical Training & Industrial Visit-Quicelar F	Microwave EnggII3120Microprocessors3020Industrial Electronics3020Digital Communication3120Control Systems3020Elective (any one of the following)20Neural Networks3020Optical Fiber Communication3020Total245Microprocessor Lab-345Microprocessor Lab-245RF Simulation Lab-II-245Industrial Electronics Lab-245Personality Development & General Aptitute-230Discipline & Extra Curricular ActivityTotalGrand Total18210-Teaching & Examination for IV year B. Tech. VII SemsetrECECELCTRONICS AND COMMUNICATION ENGG3020Digital Signal Processing3120Digital Signal Processing3120Vireless Communication3020VISI Design3020VISI Design3020VHDL3Advanced Microprocessors Systems3020VHDL3Optical Signal Processing Lab3VHDL <td>Microwave Engg-II312080Microprocessors302080Industrial Electronics302080Digital Communication312080Control Systems302080Elective (any one of the following)Neural NetworksAParallel Computation & Architecture30245Optical Fiber CommunicationTotal34530Microprocessor Lab34530Microprocessor Lab24530Industrial Electronics Lab24530Personality Development & General AptituteTotalGrand Total18210TotalGrand Total182080Discipline & Extra Curricular ActivityECCOMMUNICATION ENGG-Hrs./Digital Signal Processing31-2080Digital Signal ProcessingAdvanced MicroprocessorsAdvanced Microprocessors<</td>	Microwave Engg-II312080Microprocessors302080Industrial Electronics302080Digital Communication312080Control Systems302080Elective (any one of the following)Neural NetworksAParallel Computation & Architecture30245Optical Fiber CommunicationTotal34530Microprocessor Lab34530Microprocessor Lab24530Industrial Electronics Lab24530Personality Development & General AptituteTotalGrand Total18210TotalGrand Total182080Discipline & Extra Curricular ActivityECCOMMUNICATION ENGG-Hrs./Digital Signal Processing31-2080Digital Signal ProcessingAdvanced MicroprocessorsAdvanced Microprocessors<



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Course Code	ELECTRONICS AND COMMUNICATION ENGG		Hı				
SEMESTER - VIII	1	L	Т	Р	IA	Exam	Total
8EC1A	IC Technology	3	0		20	80	100
8EC2A	Radar & TV Engineering	3	1		20	80	100
8EC3A	MEMS and Nanotechnology	3	1		20	80	100
8EC4.1A	Computer Networks					80	100
8EC4.2A	Operating Systems	3	0		20		
8EC4.3A	Microcontroller and Embedded Systems		Ū		20		
	Total						400
8EC5A	RF Fabrication Lab			3	60	40	100
8EC6A	Industrial Economics & Management.			2	30	20	50
8EC7A	VLSI & Optical Fiber Lab			3	60	40	100
8EC8A	Project -II			4	120	80	200
8EC9A	Seminar			2	60	40	100
8ECDCA	Discipline & Extra Curricular Activity						50
	Total						600
	Grand Total	12	2	14			1000

Table 2.1.1.b Scheme for Second-Final Year (CAY, CAYm1, CAYm2 and CAYm3)

			III Seme	ster						
Sr. No.	Course Code	Category	Course Title	Hours				Credits		
				L	Т	Р	IA	ETE	Total	
1	3EC2-01	BSC	Advanced Engineering Mathematics-I	3	0	0	30	120	150	3
2	3EC1- 02/ 3EC1-03	HSMC	Technical Communication/Managerial Economics and Financial Accounting	2	0	0	20	80	100	2
3	3EC4-04	PCC	Digital System Design	3	0	0	30	120	150	3
4	3EC4-05	PCC	Signal & Systems	3	0	0	30	120	150	3
5	3EC4-06	PCC	Network Theory	3	1	0	40	160	200	4
6	3EC4-07	PCC	Electronics Devices	3	1	0	40	160	200	4
7	3EC4-21	PCC	Electronics Devices Lab	0	0	2	30	20	50	1
8	3EC4-22	PCC	Digital System Design Lab	0	0	2	30	20	50	1
9	3EC4-23	PCC	Signal Processing Lab	0	0	2	30	20	50	1
10	3EC3-24	ESC	Computer Programming Lab-I	0	0	2	30	20	50	1
11	3EC7-30	Training Exam	Training seminar						50	1
12	3EC8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	17	2	8			1225	24.5

 Table 2.1.1.c Scheme for Second Year (2018-19 Onwards)



Self Assessment Report

Each Course under the program has some defined course outcomes that emphasize on contribution to different POs leading to eventual attainment of POs upon successful completion of all courses. Each course has sufficient weight age to fundamental concepts, tools and techniques and emphasis on practical implementations. This provides a strong correlation between the course outcomes and programme outcomes, developing necessary skills in students, making them proficient engineers. The whole curriculum under Electronics & communication Engineering is divided according to below specified categories:

Course Components	Mapped POs	Total Hours	% Contribution
Basic Science (All 1 st year Subjects plus Mathematics) and Professional Ethics	PO1, PO2, PO9, PO12	57 + 22 = 79	33.47%
Basic Electronics (EDC, EMFT, EMI, CA, DE, AE, EPM, etc.)	PO1, PO2, PO3, PO4, PO9, PO10, PO12	76	32.2%
Advanced Electronics (VHDL, VLSI, MES, DIP, ICT, MW, Projects, Seminar, etc.)	PO1-PO12	74	31.36%
Computer Programming	PO1, PO2, PO5	7	2.97%
То	236	100%	

 Table 2.1.1.d Component Categorization of Course Curriculum

The course Components are thus directly and quantitatively assessed, and are tied to the program outcomes as shown in the course syllabi. Therefore if the course outcomes are met, the program outcomes are met.

	PROGRAM OUTCOMES
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and Electronics & Communication Engineering specialization to the solution of complex electronics and communication engineering problems.
PO2	Problem analysis: Identify, formulate, research literature, and analyze complex Electronics & Communication Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex Electronics & Communication Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of electronics and communication engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern electronic engineering and IT tools including prediction and modelling to complex Electronics & Communication Engineering activities with an understanding of the limitations.



PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Electronics & Communication Engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional Electronics & Communication Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Electronics & Communication Engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex Electronics & Communication Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the Electronics & Communication Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of Electronics & Communication Engineering changes.

	PROGRAM SPECIFIC OUTCOMES							
PSO1	Ability to apply the concepts of Embedded Systems and its applications.							
PSO2	PSO2 Ability to apply Field Programmable Gate Array based applications.							

 Table 2.1.1.e List of Program Outcomes and Program Specific Outcomes



Т

S. Course Name O O O <tho< th=""><th></th><th>Following</th><th>is the table for all courses along v Basic Science and</th><th></th><th></th><th>-</th><th>- U</th><th></th><th>1 PU</th><th>vs:</th><th></th><th></th><th></th><th></th><th></th></tho<>		Following	is the table for all courses along v Basic Science and			-	- U		1 PU	vs:					
S. Course Code Course Name P						mai I	Sunc	,							
2 IV-103 Human Values .				P O	P O	0	0	0	0	0	0	0	0	0	P 0 12
3 PY-101 Engineering Physics M L <thl< th=""> L <thl< th=""> L L <thl< td="" th<=""><td>1</td><td>MA-101</td><td>Engineering Mathematics-I</td><td>Н</td><td>М</td><td>L</td><td>-</td><td>L</td><td>L</td><td>М</td><td>-</td><td>Н</td><td>М</td><td>-</td><td>L</td></thl<></thl<></thl<>	1	MA-101	Engineering Mathematics-I	Н	М	L	-	L	L	М	-	Н	М	-	L
4 CS-101 Computer Programming-I H M M M M M M M L <thl< td=""><td>2</td><td>HU-103</td><td>Human Values</td><td>-</td><td>-</td><td>М</td><td>-</td><td>-</td><td>Н</td><td>М</td><td>Н</td><td>М</td><td>L</td><td>-</td><td>L</td></thl<>	2	HU-103	Human Values	-	-	М	-	-	Н	М	Н	М	L	-	L
δ CE-101 Environmental Engineering and Disaster Management M L <	3	PY-101	Engineering Physics	М	L	L	-	-	L	-	-	L	L	-	L
3 CE-101 Management 1	4	CS-101	Computer Programming-I	Н	М	М	М	М	L	L	-	-	L	-	Н
7 PY-102 Engineering Physics Lab M L <thl< th=""> L L L L L L L L L M M L L L M M L L L M M L L L M M <thl< th=""> L L L M M L <thl< td=""><td>5</td><td>CE-101</td><td></td><td>М</td><td>L</td><td>L</td><td>L</td><td>-</td><td>М</td><td>М</td><td>L</td><td>L</td><td>L</td><td>-</td><td>L</td></thl<></thl<></thl<>	5	CE-101		М	L	L	L	-	М	М	L	L	L	-	L
8 CS-102 Computer Programming-I Lab. M H M L - - M L - - M L - L 0 L 0 L 0 L 0 L 0 L 0 L 0 M M L 0 L 0 C <	6	HU-104	Human Values: Activities	-	-	L	-	-	Η	Н	Н	L	L	-	L
9 CE-102 Computer Aided Engineering Graphics H 7 <th7< th=""> 7 7 <th7< th=""></th7<></th7<>	7	PY-102	Engineering Physics Lab	М	L	L	-	-	L	-	-	L	L	-	L
9 CE-102 Graphics 1 <	8	CS-102		М	Н	М	L	-	-	-	-	М	L	-	L
Semester - II S.No. Course Code Course Name P 1 P 2 P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 11 P 12 P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 11 P 11 P 12 P 3 P 4 P 5 P 6 P 6 P 7 P 8 P 9 P 10 P 11 P 11 P 12 P 3 P 4 P 5 P 6 P 6 P 5 P 6 P 6 P 7 P 8 P 9 P 10 P 11 P 12 11 MA-102 Engineering Mathematics-II H M L<	9	CE-102		Н	-	-	-	-	-	-	-	М	М	-	L
S. No. Course Code Course Name P </td <td>10</td> <td>ME-101</td> <td>*</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>М</td> <td>М</td> <td>-</td> <td>L</td>	10	ME-101	*		-	-	-	-	-	-	-	М	М	-	L
S. No. Course Code Course Name O															
10 10<	S. No		Course Name	0	0	0	0	0	0	0	0	0	0	0	P 0 12
13 CY-101 Engineering Chemistry M L L L <thl< td=""><td>11</td><td>MA-102</td><td>Engineering Mathematics-II</td><td>Н</td><td>М</td><td>L</td><td>-</td><td>L</td><td>L</td><td>М</td><td>-</td><td>Н</td><td>М</td><td>-</td><td>L</td></thl<>	11	MA-102	Engineering Mathematics-II	Н	М	L	-	L	L	М	-	Н	М	-	L
14 CS-103 Computer Programming-II M <t< td=""><td>12</td><td>HU-101</td><td>Communication Skills</td><td>-</td><td>L</td><td>М</td><td>-</td><td>-</td><td>L</td><td>-</td><td>-</td><td>Н</td><td>Н</td><td>-</td><td>L</td></t<>	12	HU-101	Communication Skills	-	L	М	-	-	L	-	-	Н	Н	-	L
15 CE-103 Basic Civil Engineering M L <t< td=""><td>13</td><td>CY-101</td><td>Engineering Chemistry</td><td>М</td><td>L</td><td>L</td><td>L</td><td>-</td><td>L</td><td>L</td><td>-</td><td>-</td><td>L</td><td>-</td><td>-</td></t<>	13	CY-101	Engineering Chemistry	М	L	L	L	-	L	L	-	-	L	-	-
16 ME-102 Basic Mechanical Engineering M - L M L L M M L L L L M L L L L L M L L M L M M L L L L L L L L L	14	CS-103	Computer Programming-II	М	М	М	М	М	М	М	-	-	М	-	М
17 HU-102 Communication Skills Lab. - L - - L - - H H - L 18 CY-102 Engineering Chemistry Lab M M - L - - - H H - L 19 CS-104 Computer Programming-II Lab M M H L - - - M L M L M L M L M L M L M L M L M L M L M L M M L M M L M M L M M L M M L M M L L L L M M L L L M M L L L L M M L L L L M L L L L L L L L L L L L <t< td=""><td>15</td><td>CE-103</td><td>Basic Civil Engineering</td><td>М</td><td>L</td><td>L</td><td>-</td><td>-</td><td>L</td><td>L</td><td>L</td><td>L</td><td>L</td><td>L</td><td>L</td></t<>	15	CE-103	Basic Civil Engineering	М	L	L	-	-	L	L	L	L	L	L	L
1000 1000 100	16	ME-102	Basic Mechanical Engineering	М	-	L	М	L	L	М	М	L	L	-	L
19 CS-104 Computer Programming-II Lab M M H L - - - M L M M L L L M M L L L M M L L M M L L M M L L M M M L L L L L L L Description M L L L L L Description M L L L L L L L L L L L L L	17	HU-102	Communication Skills Lab.	-	L	-	-	-	L	-	-	Н	Н	-	L
20 ME-104 Computer Aided Machine Drawing H M M A M <td>18</td> <td>CY-102</td> <td>Engineering Chemistry Lab</td> <td>М</td> <td>М</td> <td>-</td> <td>L</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>L</td> <td>М</td> <td>-</td> <td>-</td>	18	CY-102	Engineering Chemistry Lab	М	М	-	L	-	-	-	-	L	М	-	-
20 ME-104 Drawing H M <	19	CS-104	Computer Programming-II Lab	М	М	Н	L	-	-	-	-	М	L	М	L
S. No.Course CodeCourse NameP O 1P CO 1P CO 2P O 3P O 4P O O 6P O O 6P O O O 6P O O O CO O CO 	20	ME-104	Drawing				-	М	М	М	-	-	М	-	М
S. No. Course Code Course Name O			Semester			-	P	P	P	P	- P	- P	P	P	_ P
223EC11ABusiness EntrepreneurshipMLLLL-LLL <thl< td=""><td>S. No</td><td></td><td>Course Name</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>Р О 12</td></thl<>	S. No		Course Name	0	0	0	0	0	0	0	0	0	0	0	Р О 12
23 4EC5A Optimization Techniques M M L L - - L - L	21	3EC6A	Advanced Engineering Mathematics-I	М	L	L	L	-	-	-	-	-	-	-	L
	22	3EC11A	Business Entrepreneurship	М	-	-	-	-	L	L	L	L	-	L	L
24 4EC6A Advanced Engineering Mathematics-II M M L L - - - - L	23	4EC5A	Optimization Techniques	Μ	М	L	L	-	-	-	-	L	-	-	L
	24	4EC6A	Advanced Engineering Mathematics-II	М	М	L	L	-	-	-	-	-	-	-	L

Following is the table for all courses along with their mapping with POs:



Self Assessment Report

25	4EC10A	Humanities & Social Sciences	М	-	-	-	-	L	L	-	-	-	-	L
26	5EC11A	Professional Ethics and Disaster Management	М	-	L	-	-	L	-	Н	-	-	-	L
27	6EC11A	Personality Development & General Aptitude	М	-	М	-	-	М	-	-	L	М	-	М
28	8EC6A	Industrial Economics & Management.	-	М	М	L	L	-	-	L	М	Н	М	М
		Basic	Electi	ronics	6									
S. No.	Course Code	Course Name	P 0 1	P 0 2	P 0 3	P 0 4	P 0 5	P 0 6	P 0 7	P 0 8	P 0 9	P 0 10	P 0 11	P 0 12
1	3EC1A	Electronic Devices & Circuits	Н	М	L	-	L	-	-	-	-	-	-	-
2	3EC3A	Digital Electronics	Н	М	М	-	L	L	L	-	L	-	L	L
3	3EC4A	Circuit Analysis & Synthesis	М	М	L	L	L	-	-	-	-	-	-	-
4	3EC5A	Electromagnetic Properties Of Materials	Н	Н	L	-	-	L	L	-	L	L	-	М
5	3EC7A	Electronic Instrumentation Workshop	М	L	L	L	-	-	-	-	-	-	L	L
6	3EC9A	Electronic Device Lab	М	L	-	L	-	-	-	-	-	-	-	L
7	3EC10A	Digital Electronics Lab	Н	М	М	Н	L	L	М	-	L	-	L	
8	4EC1A	Analog Electronics	М	М	-	L	-	-	-	-	-	-	-	L
9	4EC2A	Random Variables & Stochastic Processes	Н	Н	М	М	Н	L	-	-	-	М	М	Н
10	4EC3A	Electronic Measurement & Instrumentation	М	М	L	М	-	-	-	-	-	-	-	L
11	4EC4A	Electromagnetic Field Theory	М	М	L	М	L	L	L	-	L	L	L	М
12	4EC8A	Analog Electronics Lab	Н	М	-	М	-	-	-	-	-	-	-	L
13	4EC9A	Measurement & Instrumentation Lab	М	М	L	L	-	-	-	-	-	-	-	L
14	5EC1A	Signals & Systems	М	М	М	М	L	-	-	-	-	-	-	L
15	5EC2A	Linear Integrated Circuits	М	М	L	М	-	L	L	-	L	-	L	L
16	5EC3A	Telecommunication Engineering	Н	Н	Η	-	-	М	М	-	-	-	-	М
17	5EC4A	Analog Communication	М	М	М	М	L	L	L	-	L	-	L	L
18	5EC6.1 A	Biomedical Instrumentation	М	М	L	-	-	L	-	-	-	-	L	М
19	5EC7A	Electronic Engineering Design Lab	М	L	М	L	М	-	-	-	-	-	L	L
20	5EC9A	Communication Lab-I	М	М	-	-	-	-	-	-	-	-	-	L
21	6EC2A	Microprocessors	Н	М	М	М	М	L	-	-	-	-	М	Μ
22	6EC3A	Industrial Electronics	М	М	М	-	-	-	-	-	-	-	L	Н
23	6EC5A	Control Systems	Н	Н	L	-	L	-	-	-	-	L	-	L
24	6EC8A	Microprocessor Lab	М	L	-	-	L	L	-	-	-	-	М	L
25	6EC10A	Industrial Electronics Lab	М	-	М	-	L	-	-	-	-	-	L	L
26	7EC9A	Practical Training & Industrial Visit	М	L	L	L	-	L	L	М	L	М	L	M
27	8EC2A	Radar & TV Engineering	М	L	L	L	-	М	L	-	-	-	-	M
		Advance	d Ele	ctron	ics									
S. No.	Course Code	Course Name	P O	P O	P O									



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1	5EC5A	Microwave Engineering -I	Н	М	М	М	L	L	L	-	-	-	-	-
2	5EC8A	Microwave Engineering Lab	М	М	L	L	L	L	-	-	-	-	-	-
3	5EC10A	Signal Processing Lab	Н	М	L	L	Н	L	-	-	L	-	L	L
4	6EC1A	Microwave Engineering -II	Н	Н	L	L	L	L	-	-	-	-	-	-
5	6EC4A	Digital Communication	Н	М	L	М	-	-	L	-	-	-	L	L
6	6EC6.3 A	Optical Fiber Communication	М	L	L	-	L	L	L	-	-	-	-	L
7	6EC7A	Communication Lab-II	Н	М	L	L	L	L	L	-	L	-	L	L
8	6EC9A	RF Simulation Lab	М	М	М	М	Н	L	I	-	L	-	L	М
9	7EC1A	Antenna & Wave Propagation	Н	М	М	М	Н	Н	Н	-	М	М	М	М
10	7EC2A	Digital Signal Processing	М	М	М	М	L	-	I	-	L	-	М	М
11	7EC3A	Digital Image Processing	Н	М	М	L	L	L	-	-	L	L	L	М
12	7EC4A	Wireless Communication	М	L	L	L	L	М	L	-	L	L	L	М
13	7EC5A	VLSI Design	Н	М	М	М	М	-	М	-	-	-	-	М
14	7EC6.3 A	VHDL	М	М	-	М	Н	-	I	-	L	-	М	М
15	7EC7A	Signal & Image Processing Lab	М	М	М	М	Н	L	I	-	L	-	М	М
16	7EC8A	Wireless Communication Lab	М	М	М	М	-	М	L	-	L	-	М	М
17	7EC10A	Project-I	Н	Н	Н	М	Н	М	М	L	Н	М	М	Н
18	8EC1A	IC Technology	Н	Н	М	-	-	L	М	-	-	-	-	Н
19	8EC3A	MEMS and Nanotechnology	Η	М	М	Н	-	М	М	-	L	L	L	Н
20	8EC4.3 A	Microcontroller and Embedded Systems	Н	М	L	L	М	L	L	-	L	М	М	М
21	8EC5A	RF Fabrication Lab	М	L	L	L	Н	-	-	-	-	-	-	L
22	8EC7A	VLSI & Optical Fiber Lab	Н	М	L	L	L	М	М	-	-	-	L	М
23	8EC8A	Project -II	Н	Н	Н	М	Н	М	М	L	Н	М	М	Н
24	8EC9A	Seminar	Н	-	-	-	-	М	М	М	Н	Н	М	Н
		Computer	Prog	ramr	ning									
S. No.	Course Code	Course Name	P 0 1	P 0 2	P 0 3	P 0 4	P 0 5	P 0 6	P 0 7	P 0 8	P 0 9	P 0 10	P 0 11	P 0 12
1	3EC2A	Data Structures & Algorithms	М	М	-	L	М	-	-	-	-	-	-	-
2	3EC8A	Computer Programming Lab-I	М	М	L	L	Н	-	-	-	-	L	М	L
3	4EC7A	Computer Programming Lab-II	Н	М	М	L	Н	-	-	L	L	-	L	L
	1	1									1			

Table 2.1.1.f Mapping of POs with each Course

Program						
Outcome	Basic science & Professional Ethics	Basic Electronics	Advanced Electronics	Computer Programming	Total	Priority
PO1	28.05	32.93	29.27	3.66	93.9	1
PO2	23.17	31.71	28.05	3.66	86.59	3
PO3	26.83	26.83	26.83	2.44	82.93	4
PO4	14.6	20.73	25.61	3.66	64.63	5
PO5	8.537	15.85	23.17	3.66	51.22	8
PO6	23.17	17.07	23.17	0	63.41	6



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PO7	15.85	10.98	18.29	0	45.12	9
PO8	9.756	1.22	3.659	1.22	15.85	11
PO9	24.39	8.537	18.29	1.22	52.44	7
PO10	26.83	6.098	9.756	1.22	43.9	10
PO11	4.878	17.07	20.73	2.44	45.12	9
PO12	31.71	29.27	25.61	2.44	89.02	2

Formula: (No. of Subjects mapped to Particular PO under a particular category) divided by (Total No. of Subjects i.e. 82)

PO Attainment Analysis for CAY (2017-18)								
POs	Target	Achieved	Difference					
PO1	65	51	14					
PO2	63.3	47.67	15.63					
PO3	56.67	43	13.67					
PO4	63.33	46.33	17					
PO5	70.18	52.63	17.55					
PO6	59.26	46.3	12.96					
PO7	62.5	49.58	12.92					
PO8	60.42	50.83	9.59					
PO9	61.67	43.33	18.34					
PO10	65	48.67	16.33					
PO11	66.67	47.67	19					
PO12	66.6	51	15.6					

Table 2.1.1.g Subject Contributions for PO Attainment

 Table 2.1.1.h Analysis Summary for PO-Attainment for CAY (2017-18)

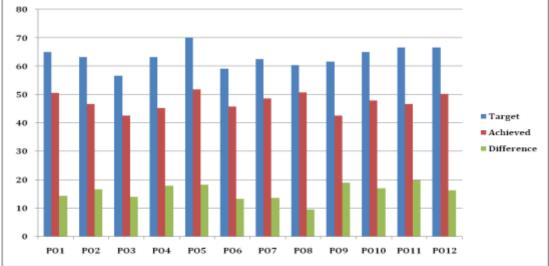
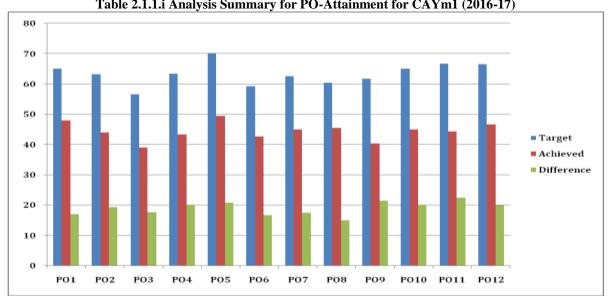


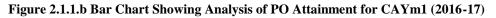
Figure 2.1.1.a Bar Chart Showing Analysis of PO Attainment for CAY (2017-18)



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PO Attainment Analysis for CAYm1 (2016-17)							
POs	Target	Achieved	Difference				
PO1	65	48	17				
PO2	63.3	44	19.3				
PO3	56.67	39	17.67				
PO4	63.33	43.33	20				
PO5	70.18	49.47	20.71				
PO6	59.26	42.59	16.67				
PO7	62.5	45	17.5				
PO8	60.42	45.42	15				
PO9	61.67	40.33	21.34				
PO10	65	45	20				
PO11	66.67	44.33	22.34				
PO12	66.6	46.67	19.93				





	PO Attainment Analysis for CAYm2 (2015-16)									
POs	Target	Achieved	Difference							
PO1	65	41.33	23.67							
PO2	63.3	38.33	24.97							
PO3	56.67	34.33	22.34							
PO4	63.33	38.67	24.66							
PO5	70.18	42.81	27.37							
PO6	59.26	38.15	21.11							



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PO7	62.5	40	22.5
PO8	60.42	41.25	19.17
PO9	61.67	36.33	25.34
PO10	65	40	25
PO11	66.67	39	27.67
PO12	66.67	42.33	24.34
Table 2.1.	1.i Analysis Summa	ry for PO-Attainment f	or CAYm2 (2015-16)

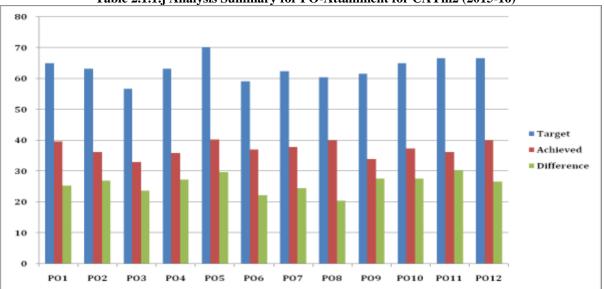


Figure 2.1.1.c Bar	Chart Showing	Analysis of PO	Attainment for	CAYm2 (2015-16)
I iguit 2.1.1.t Dai	Chart bhowing	a mary sis of 1 O	Attainment for	$C_{111112} (2013-10)$

	Comparative Analysis of PO attainment								
POs	Target	2017-18	2016-17	2015-16					
PO1	65	51	48	41.33					
PO2	63.3	47.67	44	38.33					
PO3	56.67	43	39	34.33					
PO4	63.33	46.33	43.33	38.67					
PO5	70.18	52.63	49.47	42.81					
PO6	59.26	46.3	42.59	38.15					
PO7	62.5	49.58	45	40					
PO8	60.42	50.83	45.42	41.25					
PO9	61.67	43.33	40.33	36.33					
PO10	65	48.67	45	40					
PO11	66.67	47.67	44.33	39					
PO12	66.6	51	46.67	42.33					

 Table 2.1.1.k Comparative Analysis of PO-Attainment



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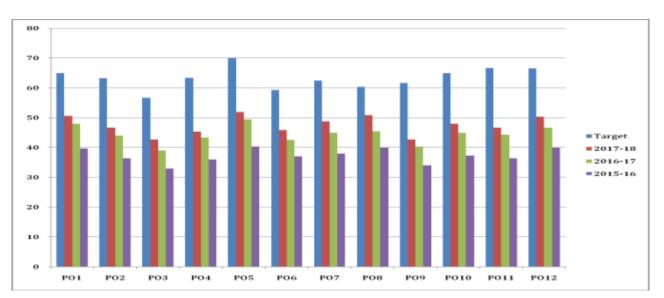


Figure 2.1.1.d Bar Chart Showing Comparative Analysis of PO Attainment

Methods used by department for compliance of the University curriculum for PO attainment:

- Lectures (Chalk and Talk)
- External/ Internal Special Lecture
- Technical Seminars
- Projects
- Industrial Visits and Technical Trainings
- Workshops
- Technical Activities
- E-Books, GATE/PSU Notes/Classes
- Placement Oriented Activities
- Personality Enhancement Activities
- Conferences
- Govt. Initiatives for E-Resources (Virtual lab, Swayam, NPTEL)
- Intershala
- ICT based Learning through NITTTR Chandigarh
- Social Activities

Gap Identification Process

Following are the criteria used to determine extent of compliance of university curriculum for attainment of POs:

- Course Outcome (CO) Identification
- CO-PO Mapping
- Identification of Curriculum Gap through tool assessment



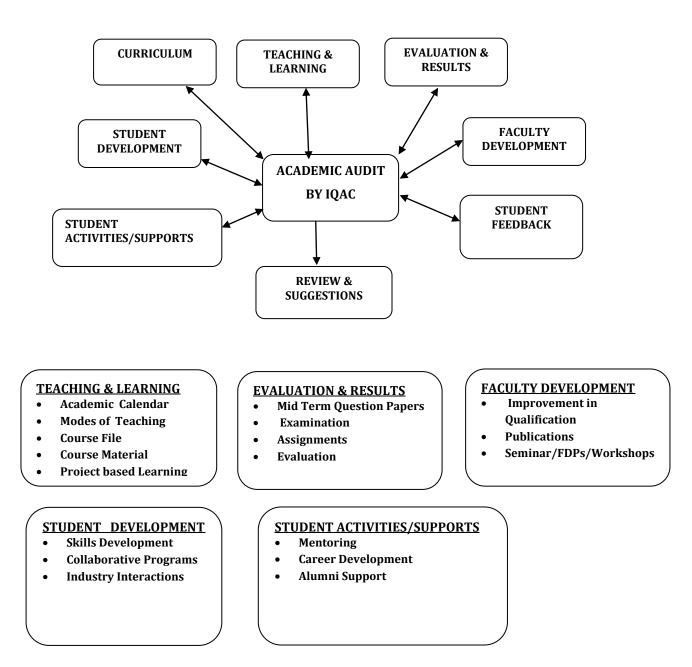


Figure 2.1.1.e Roles of Academic Audit by IQAC team for Gap analysis

To attain POs, if some components are not included in the curriculum provided by RTU, then our department makes additional efforts to impart such knowledge by covering aspects through **"CONTENT BEYOND SYLLABUS"** that is identified by a proper "GAP analysis" process. Following table gives an insight of various PO attainment tools through which gap analysis is done for the department of Electronics and Communication Engineering.

Tool Name	Activity for Tool Assessment	Analysis through Tool	Observation/Gap	Gap Recovery	PO/PSO Attainment
DEMIC ESSMEN TOOL	MTT Result	Student performance		Assignments, Extra Classes, Invited	
SSA 00		based on Theory and		Talks, Re-Tests,	PO1, PO2
ACAI ASSE: T T	Labs/Experiments	Practical Exams	0	OBTs, etc.	
AC	Projects	Application/Industry	Students lag in relating	Project	PO3, PO5,



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	Industrial Trainings	based Learning	theoretical aspects in Practical terms	Competitions, Technical trainings, Industry Interaction through visits, etc.	PO11, PSO1, PSO2
ТО	Final Placed Strength	Ability to select for job	Students lag in communication-skills and Lack of Reasoning Aptitude	Face Classes, Expert talks	PO10, PO12
PLACEMENT TOOL	Mentoring Soft-Skills	Guide the students to to enhance the Inter- Personal skills	Students are not rich in their soft-skills and they are also not motivated	Class Coordinators, Mentors for Placement, GD/PI Classes, Mocks	PO10, PO12
PLACI	Higher Studies PSU/GATE	Proportion of students who go for higher education/Govt. Jobs	Very Low percentage of selections in PSUs and GATE reflects their poor Technical knowledge	Govt. Job Portal, Technical talks, Course Material for higher studies	PO1, PO2
TO	Technical Events	Encouragement to implement Theoretical aspects through Participation	Participation in-house and outside college by few students only reflects lack of interest and confidence	Technical Events, Technical Seminars, etc.	PO2, PO3, PO5, PO9, PO10, PSO1
BEYOND CURRICULUM TOOL	Social Events/Extra Activity	To indulge students in society for Ethics inputs	Students lack in creating a linkage between social and professional aspects	Blood Donation, Vande Mataram, Clean Campaign, Marathon, etc.	PO6, PO8, PO9
) CURRI	Conference/Workshops	To impart Research/Industry	Very less interest and involvement in R & D works and industrial	National/Internatio nal Conferences, Workshops,	PO1, PO3, PO4, PO10,
EYONI	Industrial Visits	oriented skill-set along with work- culture	working ethics are missing	Seminars, Industrial visits, etc.	PSO1, PSO2
B	E-Resources	Motivation for Universal Learning approaches	Students are not updated in terms of latest technologies	Swayam portal, EdX, NPTEL videos/lectures, e- Books, etc	PO1, PO10, PO12

Table 2.1.1.1 Tool Analysis for Gap identification with PO/PSO mapping

Identified Gaps:

- Students lag in relating theoretical aspects in Practical terms
- Students lag in communication-skills and Lack of Reasoning Aptitude
- Students are not rich in their soft-skills and they are also not motivated
- Low percentage of selections in PSUs and GATE
- Students lack in creating a linkage between social and professional aspects
- Poor interest and involvement in R & D works



2.1.2. State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

(Provide details of the additional course/learning material/content/laboratory experiments/projects etc., arising from the gaps identified in 2.1.1 in a tabular form in the format given below)

			(CAY 2018-19		
S. No.	Gap	Action Taken (Department Activity)	Date-Month- Year	Resource Person with designation	Number of Students Participated	PO/PSO Attainment
			Те	chnical Events		
1	Students lag in relating	Expert Talk On Block Chain Technology	15.09.2018	Dr. Rajiv Mathur, CTO, Chainvine Ltd.	55	PO2, PO3, PO9
2	theoretical aspects in Practical terms	Project Exhibition	15.09.2018	Mr. Vikas sharma	60	PO2, PO3, PO9, PSO1
]	Industrial Training	gs/Industrial Visits/Workshops		
3	1. Students lag in	Smart City Expo Visit	26.09.2018 & 27.09.2018	Mr. Siddharth Chaturvedi	78	PO1, PO2, PO3, P12
4	relating theoretical aspects in Practical	Industrial Visit at Tesca Technologies Pvt. Ltd	05.07.2018 & 06.07.2018	Mr. Raj Kumar Jain	110	PO1, PO2, PO3, PO5, PSO1
5	terms 2. Poor interest and involvement in R & D	Workshop on Embedded Systems and IOT	10.07.2018 to 13.07.2018	Harish and Ribia, TechieNest	121	PO1, PO2, PO3, PO5, PSO1
6	works	Workshop on VLSI Technology	10.07.2018 to 13.07.2018	Mr. Ravindra Singh Shekhawat, IIHT	125	PO1,PO2, PO3, PO5
			Semi	inar/Expert Talk		
7	Poor interest and involvement in R & D	Seminar on App Developement	05.07.2017 & 06.07.2018	Mr. Bijendra Singh Ratiya	92	PO1,PO2, PO3, PO5
8	works	Seminar on IOT and Phython	18.07.2018 & 19.07.2018	Mr. Siddharth, TechieNest	144	PO1,PO2, PO3, PO5
9	Students are not rich in their soft-skills and they are also not motivated	Expert Talk on Foreign Policy in classrooms	06.07.2018	Mr. Ashok Kumar, Section Officer, Ministry of External Affairs	56	PO1, PO2, PO3, P12



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10		Expert Talk and Practical Session on Yoga and Meditation	05.07.2017 & 06.07.2018	Mr. Mukesh Agarwal and Ms.Chitra	85	PO6, PO8, PO9, PO12
11	Expert Talk on opportunities in PSUsMr. Vaibhav Jain Sr. technical advisor Earnst & young ltd.		33	PO1, PO2, PO3, PO5		
			S	ocial Activity		
12	Students lack in creating a linkage between social	Vande Mataram	06.10.2018	Mr. Ashutosh Sharma, SDO, JECRC	389	PO6, PO8, PO9, PO12
13	and professional aspects	Clean India Camp	02.10.2017	Dr. Vinita Mathur, JECRC	58	PO6, PO8, PO9, PO12

	<u>CAY 2017-18</u>								
S. No.	Gap	Action Taken (Department Activity)	Date-Month- Year	Resource Person with designation	Number of Students Participated	PO/PSO Attainment			
			Те	chnical Events					
1		Game of Drones	28-03-2018	Mr. Siddharath Singh, Director (Techienest Pvt. Ltd.)	42	PO2, PO3, PO9, PSO1			
2	Students log in	Quizholic	28-03-2018	Mr. Siddharath Singh, Director (Techienest Pvt. Ltd.)	100	PO2, PO3, PO9			
3	Students lag in relating theoretical aspects in Practical	TechnoInBuzz	26-03-2018	Mr. Siddharath Singh, Director (Techienest Pvt. Ltd.)	30	PO2, PO3, PO9			
4	terms	Renovator	28-03-2018	Prof. Arun Chopra, AP, JECRC Univ.	56	PO2, PO3, PO9			
5		Robowar	27-03-2018	Mr. Manish Jain (Dy. Director, JECRC)	24	PO2, PO3, PO9, PSO1			
6		Line-Follower	26-03-2018	Dr. Manish Gupta, AP, JECRC Univ.	50	PO2, PO3, PO9, PSO1			



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7		Formula Zero	28-03-2018	Mr. Manish Jain (Dy. Director, JECRC)	115	PO2, PO3, PO9
8		RoboSoccer	25-03-2018	Mr. Sanjay Banal, Director (Project Lab India)	90	PO2, PO3, PO9, PSO1
9		Technophillia	28-03-2018	Prof. K. M. Singh, JECRC University	58	PO2, PO3, PO9
10		Tech Tambola	26-03-2018		59	PO2, PO3, PO9
11		Phoneix	26-03-2018	Mr. Rahul Sharma, Dy. Manager (Genus Pvt.Ltd.)	76	PO2, PO3, PO9
12		SumoWar	26-03-2018	Mr. Naveen Panwar, Director (IIST)	42	PO2, PO3, PO9
13		Hackathon	30-03-2018 & 31-03-2018	Mr. Sunil Jangid, HOD IT, JECRC	105	PO2, PO3, PO9, PO5
15	Students lack in creating a linkage between social and professional aspects	MUN	07.04.2018 & 08.04.2018	Ms. Anshul Mittal, SDO, JECRC	14	PO2, PO3, PO9, PO10
	•	I	ndustrial Trainin	gs/Industrial Visits/Workshops		
16		Embedded Systems & Robotics organized by TechiNest Pvt.	22-01-2018 & 12-02-2018	Mr. Siddharath Singh, Director (Techienest Pvt. Ltd.)	56	PO1, PO2, PO3, PO5, PSO1
17	Students lag in relating theoretical	Embedded & Robotics organized by SaKRobotix	19-01-2018 & 22-02-2018	Mr. Sakya Singha Mahapatra (Senior Trainer, SaKRobotix)	66	PO1, PO2, PO3, PO5, PSO1
18	aspects in Practical terms	Workshop on CCNA Networking	20-04-2018	Mr. Neeraj panwar (Trainer, IIHT)	58	PO1, PO2, PO3, PO5
19		Workshop on SPYBOT- Spy Robotic Workshop organized by TechiNest Pvt. Ltd	19-08-2017	Mr. Saurabh (Trainer, Techienest)	215	PO1, PO2, PO3, PO5, PSO1



20		Workshop on Redhat Technology	17-01-2018 to 31-01-2018	Mr. Alok Srivastava (Senior Trainer, Redhat)	120	PO1,PO2, PO3, PO5
21	Poor interest and involvement in R & D	Industrial Visit Genus Power Infrastructures Ltd	23-03-2018	Mr. Manish Sharda (Manager- Technical)	50	PO1,PO2, PO3, PO5
23	works	Industrial Visit PHILIPS LIGHTING	23-03-2018	Mr. Suresh Negi (Manager- Production)	51	PO1,PO2, PO3, PO5
		•	Semi	nar/Expert Talk		
25		Seminar on Embedded System by Aptron	09-02-2018	Mr. Chetan Prakash, Trainer (Aptron India, Noida)	75	PO2, PO3, PO5, PSO1
26		Seminar by HUAWEI	29-07-2017 & 30-07-2017	Mr. Atul Rajput (Manager, Indovision, Noida)	550	PO2, PO3
27	Poor interest and involvement in R & D	Seminar by Engineer's Academy		Mr. Atul Gupta (BDM, Jaipur)	180	PO1, PO2, PO3
28	works	Invited Talk	12-03-2018	Mr. Anshul Gupta (DBA-Infosys Ltd.)	62	PO1, PO2, PO3
29		Expert Talk by Dr. Rajeev Gupta	17-02-2018	Dr. Rajiv Gupta (Pro-VC, RTU, Kota)	56	PO12
			Co	nferences/FDP		
30	Students are not rich in their soft-skills and they are also not motivated	International Conference	06-04-2018 & 07-04-2018	Mr. Gunjan Saxena (GM, BSNL Jaipur), Dr. Satyasai Jagannath Nanda (Asst. ProfMNIT, Jaipur), Prof. Ram Rattan (Dean EnggJECRC Univ., Jaipur)	57	PO1, PO3, PO4, PO10, PSO1, PSO2
31	Poor interest and involvement in R & D	National Conference	27-03-2018 & 28-03-2018	Mr. Siddharath Singh, Director (Techienest Pvt. Ltd.)	42	PO1, PO3, PO4, PO10



32	works	FDP Embedded Systems (ICT51)	19-03-2018 to 23-03-2018	NITTTR, Chandigarh	7	PO6, PO7, PO12, PSO1		
	Social Activity							
33	Students lack in	Blood Donation Camp	11.10.2017	Mr. Kuldeep Sharma, ME	80	PO6, PO8, PO9, PO12		
34	creating a linkage between social and professional aspects	Clean India Camp	02.10.2017	Mr. Ranjeet Pandey, IT	54	PO6, PO8, PO9, PO12		
35	professional aspects	National Anthem	08.11.2017	Mr. Anshul Mittal, SDO, JECRC	64	PO6, PO8, PO9, PO12		

Table 2.1.2.a Activities during CAY (2017-18)



Photographs for CAY (2017-18)





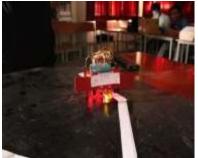
Quizholic



TechTambola



RoboSoccer Formula zero



Line Follower



RoboSoccer



RTDEEE



RoboWar





Phoenix



RoboWar



Embedded Systems



Expert Talk

Workshop by RED HAT ACADEMY



Industrial Visit



Self Assessment Report

		<u>CAYm1 2016-</u>	17	
S. No.	Department Activity	Level of Activity	Number of Participants	PO Attainment
		Technical Even	its	
1	Game of Drones	National	42	PO2, PO3, PO5
2	Quizholic	National	98	PO1, PO2
3	TechinoBuzz	National	58	PO9, PO10
4	Renovator	National	30	PO2, PO3, PO5
5	Robowar	National	35	PO2, PO3, PO5
6	Line follower	National	28	PO2, PO3, PO5
7	Formula Zero	National	40	PO2, PO3, PO5
8	RoboSoccer	National	31	PO2, PO3, PO5
9	Technical Hack	National	30	PO2, PO3, PO5
10	Phoenix	National	28	PO2, PO12
11	SumoWar	National	20	PO2, PO3, PO9, PO11
	Indus	trial Trainings/Industrial	Visits/Workshops	
12	Embedded System training by TechiNest	National	55	PO1, PO2, PO3, PO5
		Conferences/FI)P	
13	National Conference	National	75(Papers)	PO1, PO3, PO4, PO10
		Social Activity	y	
14	Blood Donation Camp	National	96	PO6, PO8, PO9, PO12
15	Clean India Camp	National	70	PO6, PO8, PO9, PO12
16	National Anthem	National	92	PO6, PO8, PO9, PO12

Table 2.1.2.b Activities during CAYm1 (2016-17)



	<u>CAYm2 2015-16</u>								
S. No.	Department Activity	Level of Activity	Number of Participant	PO Attainment					
		Technical Ever							
1	RoboWar	National	35	PO2, PO3, PO5					
2	Line Follower	National	28	PO2, PO3, PO5					
3	Formula Zero	National	40	PO2, PO3, PO5					
4	RoboSoccer	National	31	PO2, PO3, PO5					
5	Combatant	National	25	PO2, PO3, PO5					
6	Junkyard	National	27	PO2, PO3, PO5					
7	Reverse Engineering	National	32	PO2, PO3, PO5					
	Industr	ial Trainings/Industrial	Visits/Workshops						
8	Training on Mobile Controlled Robotics for 2nd year	National	46	PO1,PO2,PO3					
9	Training on Mobile Controlled Robotics for 3rd year	National	55	PO1,PO2,PO3					
10	Training on MATLAB	National	55	PO1, PO2, PO3, PO5					
		FDP							
11	VLSI	National	40	PO6, PO7, PO12					
12	Embedded System	National	42	PO6,po7,PO12					
		Social Activit	У						
13	Blood Donation Camp	National	96	PO6, PO8, PO9, PO12					
14	Clean India Camp	National	70	PO6, PO8, PO9, PO12					
15	National Anthem	National	92	PO6, PO8, PO9, PO12					

Table 2.1.2.c Activities during CAYm2 (2015-16)



			Со	ntent beyond the Syllabus	(CAY 2017-18)			
S. No.	Course Name	Course Code	Topic(s) as Content beyond Syllabus	Mode of Conduction	Resource Person with Designation	% of Students	Learning Outcomes	Relevance to POs and/ PSOs
1	Electronic Devices & Circuits	3EC1A	The Silicon-Controlled Rectifier (SCR),The Shockley Diode	Expert lectures from industries/Academicians	Mr. Vinayak Gupta	70%	Knowledge about oscillator circuits	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO12
2	Data Structures & Algorithms	3EC2A	Bucket and radix sort, Hashing	Video Lecture, PPT		60%	Knowledge about new sorting and hashing	PO1, PO2, PO4, P11, P12
3	Digital Electronics	3EC3A	Five-Variable K- Map; Overview of Memory SRAM, DRAM; Programmable Logic Devices (PLDs); Concept of Moore and Mealy	Lecture		60%	Knowledge about sequential circuits	PO1, PO2, PO3, PO4
4	Circuit Analysis & Synthesis	3EC4A	Resonance in Circuits	Video Lecture		68%	Knowledge about Resonance in Circuits	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO12
5	Electromagnetic Properties Of Materials	3EC5A	Introduction on Nanotechnology and MEMS, Piezoelectricity & its application	Video Lecture, PPT	Ms. Geetika Mathur (AP)	70%	Knowledge about Piezoelectric materials, piezoelectricity and its applications	PO1, PO3, PO12
6	Advanced Engineering Mathematics-I	3EC6A	Rouche's Theorem & its Applications	PPT		60%	Knowledge about Rouche's theorem and its applications	PO1, PO2, PO12
7	Analog Electronics	4EC1A	Modulation Techniques	PPT	Mr. Mangilal (AP)	70%	Knowledge about oscillator circuits	PO1, PO2, PO4
8	Random Variables & Stochastic Processes	4EC2A	Application of probability distributions and Stochastic process in Research	Lecture		75%	Knowledge about the Practical utility of these topics	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PO12
9	Electronic Measurement & Instrumentation	4EC3A	Different types of AC bridges	PPT		64%	Knowledge about signal generation by different AC bridges	PO1, PO2, PO3, PO4, PO12



10	Electromagnetic Field Theory	4EC4A	Transmission Lines	video lecture		71%	knowledge about the transmission lines and their application	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO11, PO12
11	Optimization Techniques	4EC5A	Game Theory & Dual Simplex Method	PPT		60%	Knowledge about application of Game theory	PO1, PO3, PO12
12	Advanced Engineering Mathematics-II	4EC6A	Application of Numerical Analysis in Engineering	PPT		70%	Knowledge about numerical analysis in Electronics problems	PO1, PO3, PO9, PO12
13	Signals & Systems	5EC1A	Decimation & interpolation	PPT		70%	analysis of signals sampling by decimation and interpolation	PO1, PO2, PO4, PO6, PO12
14	Linear Integrated Circuits	5EC2A	Pole-Zero Compensation	Lecture	Mr. Rakesh Kumar Kardam (AP)	70%	Knowledge about COMPENSATION TECHNIQUES	PO1, PO2, PO3, PO4,
15	Telecommunication Engg.	5EC3A	1. Landline Telephony 2. Introduction to Mobile Communications	PPT + Video Lecture		78%	1. Landline telephony fundamentals 2. Generations of Mobile Communication	PO1, PO2, PO3, PO6, PO7, PO12
16	Analog Communication	5EC4A	Multiplexing of Pulse Analog Signal	Lecture	Mr. Sandeep Dotya	70%	Knowledge about TDM AND FDM	PO1, PO2, PO3, PO4, PO5,
17	Microwave Engg. –I	5EC5A	Smart Antenna	Video lecture		73%	Knowledge about microwave based devices	PO1, PO2, PO3, PO4, PO5
18	Biomedical Instrumentation	5EC6.1A	Body Temperature, Stethoscope	Lecture		65%	Knowledge about device which is most commonly used in Bio medical Instrumentation	PO1, PO6, PO10, PO12
19	Microwave EnggII	6EC1A	Microwave based RADAR	Video lecture		71%	Knowledge about microwaves n their applications in real world	PO1, PO2, PO3, PO4, PO5
20	Microprocessor	6EC2A	8086 Microprocessor	Video Lecture		72%		PO1, PO2, PO3, PO4, PO5



21	Industrial Electronics	6EC3A	Power Factor Improvement, Harmonic Reduction	Lecture		77%	Factors affecting performance of power systems and how to mitigate them	PO1, PO2
22	Digital Communication	6EC4A	Satellite Communication, Radio Communication, CDMA, GSM	Video Lecture		71%	Knowledge about latest technologies like 4G and 5G and use of FM in radio communication	PO1, PO2, PO3, PO4, PO7, PO11, PO12
23	Control Systems	6EC5A	Sampled Data control systems	Lecture		68%	Knowledge about the control system and knowledge of stability analysis	PO1, PO2, PO5
24	Optical Fiber Communication	6EC6.3A	Introduction to photonics, Fiber Bragg Grating, Wavelength routing and switching networks	Lecture		70%	students came to know about the devices based on photonics	PO1, PO2, PO7, PO12
25	Antenna & Wave Propagation	7EC1A	Antenna Defects	Lecture		65%	Students learnt about minimizing the size of antenna and its effects on various antenna parameters	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12
26	Digital Signal Processing	7EC2A	Multirate Signal Processing, Adaptive Processing, Auto correlation	Video Lecture		68%	Students learnt about Signal Processing	PO1, PO2, PO4, PO5, PO6, PO8
27	Digital Image	7EC3A	Steganography & Watermarking	Video Lecture		73%	Students learnt about invisible steganography	PO1, PO2, PO4, PO5, PO6, PO8
21	Processing	TLCJA	Compressive Sensing and walsh transform	PPT, Video Lecture	Mr. Atul Sharma (GIT)	68%	Able to learn advancement in transformation of digital images	PO1, PO2, PO3, PO5, P09, PO10, PO11
28	Wireless Communication	7EC4A	Capacity of Fading Channels , Wireless Ad hoc networks	Lecture	Dr. Ramesh Bharti, Jagannath Univ., Jaipur	67%	Learning of Capacity of Fading Channels & Wireless Ad hoc networks	PO1, PO2, PO3, PO4
29	VLSI Design	7EC5A	Stick Diagram and its Application	lecture	Dr. Sandeep Vyas	70%	learn about fundamental of CMOS design using stick dia.	PO1, PO2, PO3, PO4
30	VHDL	7EC6.3A	Introduction to Verilog	PPT		72%	Learning advanced HDL	PO1, PO2,



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			Language					PO3, PO5,
31	IC Technology	8EC1A	Crystal structure	Video lecture		67%	Basic of crystal.	PO1, PO2, PO3, PO6, PO7, PO12
32	Radar & TV Engineering	8EC2A	HDTV, Optical LED, Remote Sensing	Lectures		68%	Students learned about advance Screen technology.	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12
33	MEMS and Nanotechnology	8EC3A	History of nanotechnology	Video Lecture		72%	Students learnt about Nanotechnology	PO1, PO2, PO3, PO4, PO9, PO11, PO12
34	Microcontrollers and Embedded Systems	8EC4.3A	PIC & ARM processor	Video Lecture		62%	Able to learn about the ARM processor	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12

	Content beyond the Syllabus (CAYm1 2016-17)								
S. No.	Course Name	Course Code	Topic(s) as Content beyond Syllabus	Mode of Conduction	Resource Person with Designation	% of Students	Learning Outcomes	Relevance to POs and/ PSOs	
1	Electronic Devices & Circuits	3EC1A	The DIAC ,Photodiodes – Basic principles	Expert lectures from industries/Academi cians	Mr. Arun Chopra (AP)	65%	student will learn about power MOSFET and able to understand different MosfeT	PO1, PO2, PO5	
2	Digital Electronics	3EC3A	Five-Variable K- Map; Overview of Memory SRAM, DRAM	Lecture		65%	Knowledge about digital memory circuits	PO1, PO2, PO3, PO4	
3	Circuit Analysis & Synthesis	3EC4A	Resonance in Circuits	Video Lecture		68%	Knowledge about Resonance in Circuits	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO12	
4	Electromagnetic Properties Of Materials	3EC5A	Piezoelectric Sensor Materials, Metamaterials and Microsystems, Introduction of Nanotechnology	Video Lecture, Lecture		68%	Knowledge about Piezoelectric Materials, Metamaterials, Microsystems and Nanotechnology	PO1, PO2,PO3,PO12	
5	Analog Electronics	4EC1A	Types of Transducer	Lecture	Mangilal (AP)	60%	Knowledge about application of transducer and antenna in	PO2, PO3, PO5	



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							electronics	
6	Random Variables & Stochastic Processes	4EC2A	Application of probability distributions and Stochastic process in Research	Lecture		70%	Knowledge about the Practical utility of these topics	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PO12
7	Electronic Measurement & Instrumentation	4EC3A	PMMC Instruments, Galvanometer	PPT		63%	Knowledge about construction and basic principle of working	PO1, PO2
8	Electromagnetic Field Theory	4EC4A	Transmission Lines	Video lecture		83%	knowledge about the transmission lines and their application	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO11, PO12
9	Optimization Techniques	4EC5A	Game Theory & Dual Simplex Method	PPT		60%	Knowledge about application of Game theory	PO1, PO3, PO12
10	Advanced Engineering Mathematics-II	4EC6A	Application of Numerical Analysis in Engineering	PPT		70%	Knowledge about numerical analysis in Electronics problems	PO1, PO3, PO9, PO12
11	Signals & Systems	5EC1A	application of CTFS and DTFS	РРТ		60%	knowledge of CTFS and DTFS with application	PO1, PO3, PO6, PO9
12	Linear Integrated Circuits	5EC2A	Step-Response of Op-Amp	Lecture	Mr. Arun Chopra	70%	Knowledge about Step- response of OP-AMP	PO1, PO3, PO2
13	Telecommunicati on Engg.	5EC3A	Filters for mobile communications	PPT		86%	Brief about types of Filters that are used in mobile communication	PO1, PO2, PO3, PO6, PO7, PO12
14	Analog Communication	5EC4A	Hillbert Transform	Lecture	Mr. Sandeep Dotya	70%	Knowledge about Hillbert transform	PO1, P02, P03, P04
15	Microwave Engg. -I	5EC5A	MMIC practical applications	Guest lecture		73%	Student learnt about MMIC fabrication steps and their applications	PO2, PO5
16	Biomedical Instrumentation	5EC6.1A	Fluoroscopy	Lecture		70%	Student learnt about pulse sensor and read surgical procedure and	PO1, PO6, PO10, PO12
17	Microwave EnggII	6EC1A	Microwave passive components	Lecture		68%	Student learnt about Solid State Devices used at microwave freq.	PO2, PO5, PO12
18	Microprocessors	6EC2A	assembly language	Lecture	Mr. Lokesh Sharma	70%	Student learnt about	PO1, PO2, PO3, PO4,



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							advance of micro processor	PO5
19	Industrial Electronics	6EC3A	Power Factor Improvement Harmonic Reduction	Lecture		69%	Student learnt about Power Factor Improvement methods	PO1, PO2, PO12
20	Digital Communication	6EC4A	Satellite Communication, CDMA, GSM	Lecture	Mr. P. L. Gupta	65%	Student learned and analysed GSM,CDMA	PO1, PO2, PO4
21	Control Systems	6EC5A	Error Analysis using MATLAB	Lecture		69%	Student learned and analysed error signal by using of MATLAB	PO1, PO2, PO3
22	Optical Fiber Communication	6EC6.3A	Network protection and survivability	Lecture	Mr. Vikas Sharma	65%%	Student learned about the types of network security	PO1, PO7, PO12
23	Antenna & Wave Propagation	7EC1A	Wearable Antenna	Lecture		69%	Students learnt applications of antennas.	PO1, PO4, PO5, PO6, PO11, PO12
24	Digital Signal Processing	7EC2A	Adaptive Processing, Multirate Processing	Lectures	Mr. S.K.Singh	68%	Student will learn about signal processing	PO1, PO2, PO4, PO5, PO6, PO8
25	Digital Image Processing	7EC3A	Biometric fingerprint Image Sensing	PPT video lecture	Mr. Rahul Jain (GIT)	70%	Students will learn about fingerprint sensing	PO1, PO4, PO5, PO6, PO11, PO12
26	Wireless Communication	7EC4A	Capacity of Fading Channels, Wireless Ad hoc networks	Lecture	Dr. Ramesh Bharti, Jagannath Univ. , Jaipur	65%	Learning of Capacity of Fading Channels & Wireless Ad hoc networks	POI, PO2, PO3, PO4
27	VLSI Design	7EC5A	Tanner Tool	PPT video lecture	DR. KM Singh	70%	student learned about using advanced tanner tool to design CMOS	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PO12
28	VHDL	7EC6.3A	Programming Logic Arrays	Video Lectures		68%	Students learned programming logic arrays	PO1, PO2, PO3, PO5
29	IC Technology	8EC1A	GaAs technology	lecture		69%	Students learned about current technology.	PO1, PO2, PO3, PO7, PO12
30	Radar & TV Engineering	8EC2A	HDTV, Optical LED, Remote Sensing	Lectures		65%	Students learned about advance Screen technology.	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12
31	MEMS and Nanotechnology	8EC3A	Nanotechnology in Polymers	SPL		63%	students learnt about the use of nanotech in polymers	PO1, PO2, PO3, PO4, PO9, PO11, PO12



32	Microcontrollers and Embedded Systems	8EC4.3A	PIC Controller	Lecture		62%	students learnt about the kernel structure	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12		
	Content beyond the Syllabus (CAYm2 2015-16)									
S. No.	Course Name	Course Code	Topic(s) as Content beyond Syllabus	Mode of Conduction	Resource Person with Designation	% of Studen ts	Learning Outcomes	Relevance to POs and/ PSOs		
1	Electronic Devices & Circuits	3EC1A	Photodiodes – Basic principles Regulated power supply	Expert lectures from industries/Academici ans	Mr. Deepak sankhala (AP)	60%	Able to solve and understanding the basic circuits and working of different diode	PO1, PO2, PO5		
2	Digital Electronics	3EC3A	Five-Variable K- Map	Lecture		45%	Complexity of K-Map	PO1, PO2, PO3, PO4		
3	Circuit Analysis & Synthesis	3EC4A	Photodiodes – Basic principles	Video Lecture		68%	Knowledge about Resonance in Circuits	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO12		
4	Electromagnetic Properties Of Materials	3EC5A	Metamaterials, Introduction on Nanotechnology	Lecture, Video Lecture		68%	Introduction of Nanotechnology and knowledge of Metamaterials	PO1, PO2, PO12		
5	Analog Electronics	4EC1A	Basics of antenna	Lecture	Mr. Mangilal (AP)	70%	Understanding basic circuits and working of different oscillators	PO1, PO2, PO3, PO5		
6	Random Variables & Stochastic Processes	4EC2A	Application of Stochastic process in Research	Lecture		70%	Knowledge about the Practical utility of these topics	PO1, PO2, PO3, PO5, PO10, PO11, PO12		
7	Electronic Measurement & Instrumentation	4EC3A	Operational Amplifier and its various application	Lecture		72%	Able to understand working principle of signal generators	PO1, PO2, PO4		
8	Electromagnetic Field Theory	4EC4A	Transmission Lines	video lecture		63%	knowledge about the transmission lines and their application	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO11, PO12		
9	Signals & Systems	5EC1A	Discrete Fourier and Z Transform Analysis of Recursive & Non-Recursive systems	Lecture		60%	Knowledge about the discrete Fourier and Z transform and its application	PO1, PO3,PO6,PO9		



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10	Linear Integrated Circuits	5EC2A	Response of op-amp	Lecture	Mr. Deepak Sankhala	60%	Knowledge about the OP- AMP	PO1, PO2, PO3,
11	Telecommunicati on Engg.	5EC3A	Digital Switching	PPT		82%	New digital schemes of switching are described	PO1, PO2, PO3, PO6, PO7, PO12
12	Analog Communication	5EC4A	Bessel Function	Lecture	Mr. Sandeep Dotya	80%	Brief knowledge of mathematical Bessel function	PO1, PO2, P03
13	Microwave Engg. —I	5EC5A	Microwave filters	Expert lectures from industries/Academici ans	Ms. Poonam Rathore	68%	Able to solve and understanding the microwave applications	PO1, PO2, PO4
14	Biomedical Instrumentation	5EC6.1A	Body Temperature, Laparoscope	Lecture		59%	Able to understand body temperature and laparoscope benefits	PO1, PO10, PO12
15	Microwave EnggII	6EC1A	Microwave based smart antenna	Guest lectures	Mr. Dinesh Nagar	70%	Able to solve and understanding the microwave based devices and their uses	PO1, PO2, PO3, PO5
16	Industrial Electronics	6EC3A	Power Factor Improvement Harmonic Reduction	Lecture		72%	Student learnt about Power Factor Improvement methods	PO1, PO2, PO12
17	Digital Communication	6EC4A	Satellite communication, CDMA, GSM	Lecture	Mr. Ashutosh sharma	69%	Student learnt about Satellite Communication	PO1, PO2, PO4
18	Control Systems	6EC5A	Stability analysis of digital control system – An Introduction	Lecture		65%	Gained knowledge about the stability of digital control system	PO1, PO2, PO3
19	Optical Fiber Communication	6EC6.3A	concepts of SONET/SDH Network	Lecture	Shikha Gaur	60%	Gained knowledge about optimal networking	PO1, PO7, PO12
20	Antenna & Wave Propagation	7EC1A	Different feeding techniques in antenna	Lecture		69%		PO1, PO7, PO12
21	Digital Signal Processing	7EC2A	Multirate Processing	Lectures	Mr. S. S. Shekhawat	62%	learn about multirate DSP	PO1, PO2, PO4, PO5, PO6, PO8
22	Digital Image Processing	7EC3A	Biometric fingerprint Image Sensing	PPT, video lecture	Mr. Ashish Kulshrestha	68%	Students will learn about image recognition using biometrics.	PO1, PO4, PO5, PO6, PO11, PO12
23	Wireless	7EC4A	Concept of 4G/5G	Lecture	Mr. Manish Joshi,	69%	Students learned about	PO1, PO2, PO7, PO12



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	Communication		Technology		Amcipher Labs, Jaipur		4G/5G technology	
24	VLSI Design	7EC5A	Fermi Energy Level and Fermi-Dirac distribution	PPT, lecture	Dr. K. M. Singh	68%	Students learned about energy distribution concept in semiconductor design	PO1, PO2, P03
25	VHDL	7EC6.3A	Introduction to Verilog	PPT		69%	Students learned fundamental of the language	PO1, PO2, PO3, PO5
26	IC Technology	8EC1A	Novel devices	lecture	-	65%	Earn information about upcoming future of fabrication	PO1, PO2, PO3, PO7, PO12
27	Radar & TV Engineering	8EC2A	HDTV, Optical LED, Remote Sensing	Lectures		64%	Students learned about advance Screen technology	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12
28	MEMS and Nanotechnology	8EC3A	Medical application of Nanotechnology	SPL		71%	Students learnt about medical application of nanotechnology	PO1, PO2, PO3, PO4, PO7, PO12
29	Microcontrollers and Embedded Systems	8EC4.3A	PIC controller	Video lecture		68%	students learnt about the kernel structure	PO1, PO2, PO3, PO5, PO9, PO10, PO11, PO12

Table 2.1.2.d Delivery details of Content beyond Syllabus topics for Gap Fulfilment

2.2. Teaching -Learning Processes (100)

2.2.1. Describe Processes followed to improve quality of Teaching & Learning (25)

(Processes may include adherence to academic calendar and improving instruction methods using pedagogical initiatives such as real world examples, collaborative learning, quality of laboratory experience with regard to conducting experiments, recording observations, analysis of data etc. encouraging bright students, assisting weak students etc. The implementation details and impact analysis need to be documented)

- Faculty members are oriented towards Outcome Based Education (OBE) and are actively utilizing the OBE to cater the learning needs of students by innovative ways.
- As per RTU norms, rather than referring Academic Calendar published on the university's website, the department publishes its own Academic Calendar involving the regular teaching plan as well as other extra student centric activities. It also includes the intimation of regular Midterm examinations and class tests.



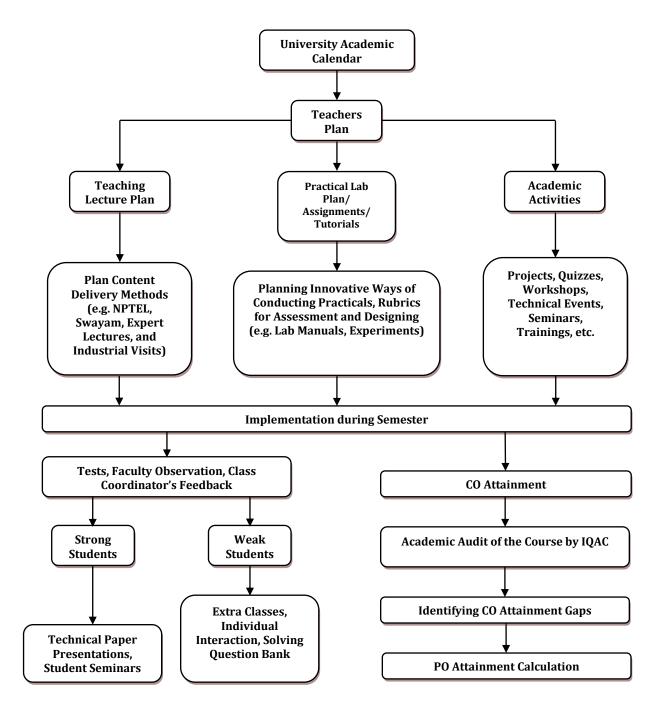


Figure 2.2.1.a Teaching-Learning Processes

- Lecture Delivery is made innovative in the department by inculcating various methods in the teaching learning process like recalling prior related topics, generating questions, responding to generated queries, etc. All these methods are generally performed in cooperative approach like Group Discussions and Seminars.
- In labs, the delivery to the students is performed with the help of latest software and performance of each student is evaluated in the Lab Performance Report. Viva voce and seminars are taken in the respective labs.



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- Experiments in the laboratories are conducted as per the university guidelines. Some discussions are made beyond syllabus relevant to the course. Laboratory manuals explaining the details of the experiment are available with the course teacher and are given to students during the semester.
- Faculty members not only provide well written unit wise notes but also focuses on the materials provided online by the well renowned universities. They focus on the video lecture material provided to the students online e.g. NPTEL, SWAYAM. It enhances the capability of students to not only understand the context but also its practical approaches.
- Oral Questionnaire and Query Session in each lecture delivery of respective subjects.
- Class Tests and Assignments are being taken by faculty members for each respective subject.
- Performance Report is discusses to the students on regular basis.
- Mentoring sessions are conducted to provide guidance to students towards achieving professional requirements and assessment of his/her academic progress as well as personal growth. One-one discussion, interaction between faculty member and students has increased confidence levels of the students.
- Projects are mandatory for VII Semester and VIII Semester students. Students make their minor and major projects under the supervision of their respective Guide Faculty members.
- Faculty Development Programs are organized in the department to ensure that the faculty members have the knowledge of latest technologies.
- The department has provision of showing answer sheets of internal examination to the students. They can compare their answer with other students and also with text books. They can discuss with respective subject teacher. Faculty members are use assignments, tutorials, quiz etc. This has added value to the system.
- The department gives emphasis on concept building and exposure of latest knowledge of the subject. For this following measures are taken: practical exposure, communication skill and social responsibilities.
- For developing communication skills, group discussions, presentation on theory based and general topics are regularly carried out in the class.
- Course outcomes are defined not only for the subjects but their respective labs also. Then course outcomes are mapped with the program outcomes. This mapping depicts the achievement of the particular learning outcome.
- The examination evaluation is also performed on the basis of course outcomes which ensure the result of the achievement of outcomes. Generally this criterion for achievement is 60%.
- The midterm exams are evaluated on the basis of course outcomes. 60% achievement of each student in the respective subject ensures the achievement of the course outcome. If any student doesn't achieve the required criteria, he/she is given the assignments related to those course outcomes in which the student did not secure 60% marks.
- The bright students having high academic track records are encouraged by faculty members to achieve university ranks, also encouraged to take up competitive examinations



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like GATE, GRE etc. The faculty members encourage the students, those having orientation towards research to do research work and publish their research work in National & International Conferences and Journals.

1. ACADEMIC CALENDAR

Institutional calendar is prepared and aligned with academic calendar of RTU. In addition to events proposed by the college in academic calendar, our department introduces many other events and activities that are beneficial in overall development of the students. Also, training and placement skill development program is also a part of our academic calendar so that the students can gain on technical as well as personality development that consequently make them employable.

	ACADEMIC CALENDAR (EVEN SEMESTER CAY 2017-18)							
S. No.	Activity	Date(s)						
1	Commencement of Classes B. Tech 6th & 8 th Semesters*	13-12-2017						
2	Commencement of Classes B. Tech 4 th Semester*	05-01-2018						
3	JECRC Hackathon 1.0	10-01-2018 to 11-01-2018						
4	1st Project Presentation of VIII sem. Section-A	19-01-2018						
5	1st Attendance Compilation, Display on Notice Board & SMS to Parents	20-01-2018						
6	1st Project Presentation of VIII sem. Section-B	20-01-2018						
7	1st Industrial Visit	24-01-2018						
8	1st Project Presentation of VIII sem. Section-C	25-01-2018						
9	1st Project Presentation of VIII sem. Section-D	27-01-2018						
10	1st Invited Talk	27-01-2018						
11	2nd Attendance Compilation, Display on Notice Board & Letters to Parents	03-02-2018						
12	MTT-1 of B. Tech 6th & 8th Semesters	07-02-2018 to 09-02-18						
13	2nd Project Presentation of VIII sem. Section-A	16-02-2018						
14	2nd Industrial Visit	16-02-2018						
15	2nd Project Presentation of VIII sem. Section-B	17-02-2018						
16	3rd Attendance Compilation, Display on Notice Board & SMS to Parents	17-02-2018						
17	2nd Project Presentation of VIII sem. Section-C	23-02-2018						
18	2nd Project Presentation of VIII sem. Section-D	24-02-2018						
19	2nd Invited Talk	24-02-2018						
20	MTT-1 of B. Tech 4th Semester	05-03-2018 to 07-03-18						
21	3rd Project Presentation of VIII sem. Section-A	09-03-2018						
22	3rd Project Presentation of VIII sem. Section-B	10-03-2018						
23	4th Attendance Compilation, Display on Notice Board & Letters to Parents	10-03-2018						

Sample Academic Calander for Even Semester CAY 2017-18) is shown below



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24	3rd Project Presentation of VIII sem. Section-C	16-03-2018
25	3rd Invited Talk	16-03-2018
26	3rd Project Presentation of VIII sem. Section-D	17-03-2018
27	3rd Industrial Visit	17-03-2018
28	ICT based FDP program "Embedded Systems" (ICT 51)	19-03-2018 to 23-03-2018
29	4th Project Presentation of VIII sem. All Sections	24-03-2018
30	5th Attendance Compilation, Display on Notice Board & SMS to Parents	24-03-2018
31	National Conference	24-03-2018
32	MTT- 2 of B. Tech 6th & 8th Semesters	31-03-2018 to 02-04-18
33	2nd International Conference RTDEEE-2018	06-04-2018 to 07-04-18
34	Commencement of 8th Semester Theory Exams	12-04-2018
35	Commencement of 6th Semester Theory Exams	13-04-2018
36	6th Attendance Compilation of 4th Sem., Display on Notice Board & Letters to Parents	14-04-2018
37	MTT- 2 of B. Tech 4th Semester	23-04-2018 to 25-04-18
38	Final Project Presentation of 8th Semester	24-04-2018 to 05-05-2018
39	Commencement of 4th Semester Practical Exams	26-04-2018
40	Commencement of 6th Semester Practical Exams	01-05-2018
41	Commencement of 8th Semester Practical Exams	07-05-2018
42	Practical Training (After 6th Semester)	07-05-2018 to 17-07-2018
43	Commencement of 4th Semester Theory Exams	09-05-2018
44	Summer Vacation	12-05-2018 to 01-07-2018

2. Maintenance of Course files

For each course, a course file is prepared by the teaching faculty. The contents of course file include following attributes:

- Vision and Mission of College
- Vision and Mission of department
- RTU scheme
- Syllabus of Course
- Program outcomes and Program Specific Outcomes
- Course Outcomes
- Mapping between COs and POs
- Lecture Plan
- MTT details including Question paper, Paper solution, Award List, Result analysis, List of weak students, Assignments, Improvement Paper for weak students, etc.



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- Previous years RTU Question papers
- Lecture Notes

Lecture plan

Lecture plan includes division of every course in 40 lectures minimum with specification of each lecture number and content wise. It also includes the modes through which any topic will be conducted and any changes in actual delivery dates against defined deployed dates and mention reason for that too. The Lecture plan exclusively includes a number of **"Content beyond syllabus"** topics that shall be covered in course of time.

Shown below is the actual Lecture Plan filled format:

	LECT	URE PLAN	N				
Subject: T	elecommunication Engineering	Year: III					
Subject Co	ode: 5EC3A	Semester: V					
	ture Req. /(Aval.): 38/(40)						
	Starting: 15.07.2017						
Semester 1	Ending: 05.11.2017			1	1		
Unit No./		Lect. Req.	Lect. No.	Date of Delivery	Remark/		
Total lect. Req.	Topics				Actual lect. Taken		
	1. Types of transmission lines	1	1	17.07.2017			
	2. General transmission line equation	1	2	19.07.2017			
	3.Line constant, equivalent circuits	1	3	20.07.2017			
	4.Infinite line, and reflection on a line	1	4	24.07.2017			
Unit - 1	5. SWR of line with different type of terminations	1	5	26.07.2017			
(08)	6. Distortion less and dissipation less	2	7	02.08.2017			
	lines, Losses in transmission line			03.08.2017			
	7. Coaxial cables, Transmission lines at audio and radio frequencies,	2	9	09.08.2017			
	Characteristics of quarter wave, half wave and lines of other lengths.			10.08.2017			
	8. Test	1	10	17.08.2017			
	1. Smith about and its application	2	12	21.08.2017	- OBT		
	1. Smith chart and its application	2	12	23.08.2017			
	2. Transmission line applications and	1	13	24.09.2017	DDT		
Unit - 2	Impedance matching Network			24.08.2017	РРТ		
(08)	3. Single & double Stub matching	1	14	24.8.2017	Video Lecture		
	4. Measurement of parameters of transmission line	1	15	04.09.2017			
	5. Measurement of attenuation, insertion loss, reflection coefficient and standing wave ratio	2	17	06.09.2017			



		3. Telecommunications Switching, Traffic and Networks, J.E. Flood, Pearson				
Recomme	nded Books		smission Lines a sh Sinha, Satya F			
		(2.) Introduction to Mobile Communication1. Telecommunication, W. Fraser, PHI				
Content]	Beyond Syllabus	(1.) Landline Telephony				
	4. Multistage switches, Time Switch, Space Switch., STS and TST Switches, Concept of Supervisory and AC signalling	1	38	30.10.2017	OBT on 31.10.2017	
(08)	3. Principle: Electronic Exchange, EPABX and SPC telephone Exchange	1	37	26.10.2017		
Unit - 5	2. Principle: Electronic Exchange, EPABX and SPC telephone Exchange	1	36	26.10.2017		
	1. Introduction to switching Concepts, De- generation, Availability Grading	1	35	23.10.2017		
	4. Numbering Concept for Telephony, . Telephone Traffic Measurements and Subscriber loop Design	1	34	23.10.2017		
Unit - 4 (07)	3. Echo suppressors & cancellers and cross talk and Telephone set, Touch tone dial types	1	33	12.10.2017		
	2. Multi-channel systems: Frequency division & time division multiplexing	1	32	12.10.2017		
	1. Voice transmission and Two wire/ Four wire transmission	1	31	11.10.2017	РРТ	
	filter section	1	30	09.10.2017		
	7. m-derived filter sections and Lattice			05.10.2017		
	6. π section filter, T-section filter	2	27 29	04.10.2017		
				27.09.2017		
	5. Filters, constant K section, Ladder type			25.09.2017		
(07)	4. Transmission equalizers	1	24	14.09.2017 21.09.2017		
Unit - 3	section attenuators			13.09.2017		
	3. Different Attenuators, π section & T-	2	23	11.09.2017		
	port networks	2	21	11.09.2017		
	2. Symmetrical and Asymmetrical two			08.09.2017		
	1. Elements of telephone transmission networks	2	19	07.09.2017 08.09.2017		

3. Use of Various instructional methods and pedagogical initiatives: Following are the methodologies used in department to adhere to the best delivery of course with best practices for the attainment of various POs:

• Use of various Modes of Teaching e.g. Content beyond syllabus, External Speakers, PPTs, Video Lectures/Webinars, Tutorials/Assignments, Industrial visits, etc.



- Online Tools for Advanced Content from various web-based approaches e.g. NPTEL pdf and video lectures, SWAYAM portal lectures, etc.
- Classified ways to examine students e.g. Class Tests, Open Book Tests, Technical Quizzes, etc.
- Mentoring the Students to monitor the issues and grievances about their performance and to rectify them through proper counseling
- Various Technical Activities to enrich students with beyond curricula and application specific strengths
- Conferences/Workshops conduction for hands on analytical/practical exposure



Lvei	y faculty flas		ain the record of deli	very a	0 7	Ceaching (CA)	-	cu sampic	Iomat as sho		•	
S. No.	Course Name	Course Code	Unit Wise Module Name	No. of Lec tur es req uire d	Topic of Content beyond syllabus	Lecture from External Speaker	Power Point Presentation	Video Lectures	Assignments	Open Book Test	Practical/ Laboratory	POs Acquired
	Electronic Devices & Circuits	3EC1A	Semiconductor physics	7	Photodiodes – Basic principles				MTT1 (A1 for CO1, A2 for CO2 and A3 for CO3)		EDC Lab	PO1, PO2, PO3, PO5,
1			Junction Diodes	8	Regulated power supply		Clippers	Rectifiers		Diode Applicatio ns		
			Transistors	10		Thermal Stabilization		transistor	MTT2 (A1 for CO1, A2 for CO2 and A3			
			JFETS & MOSFET	7			FET					
			Small-Signal amplifiers at low frequency	8		h-parameter			for CO3)	Hybrid Model Analysis		
2	Data Structures & Algorithms	3EC2A	Definition & characteristics of algorithms	4					MTT1 (A1 for CO1 and A3 For CO3)		CP Lab-I	
			Arrays as storage elements & evaluation of expression	8	Hashing		Hashing					
			Linear linked lists & searching	6								
			Non-linear structures	6								
			Graphs & sorting	6	Bucket and radix sort			Bucket and radix sort				
3	Digital Electronics		Number systems, basic logic gates & boolean ALGEBRA	8			Boolean Algebra		MTT1 (A1 for CO1, A2 for CO2 and A3		DE Lab	PO1, PO2, PO3, PO4
			Digital logic gate	6			Logic Gates		for CO3)		l	

Every faculty has to maintain the record of delivery against every unit topic-wise in the prescribed sample format as shown below:



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			characteristics						1			l I
			Minimization techniques	10	Five-Variable K- Map					Minimizat ion techniques		
			Combinational systems	8				Combinati onal Circuits	MTT2 (A1 for CO1, A2 for CO2, A3 for			
			Sequential systems	8	SRAM, DRAM; (PLDs); Moore and Mealy				CO3 and A4 for CO4)	SRAM, DRAM; (PLDs); Moore and Mealy		
			Network theorems & elements	8	Grounding & Earthing		Elements	Network theorems	MTT1 (A1 for	Norton's theorem		
	Circuit	3EC4A	Transient analysis	7	Skin effect		AC parameters	Transient parameter s	CO1, A2 for CO2 and A3 for CO3)		Workshop	PO1, PO2, PO4, PO7,
4	Analysis & Synthesis	3EC4A	Network functions	9					MTT2 (A1 for		lab	PO4, PO7, PO9, PO12
	Synthesis		Two port networks	6					CO1, A2 for			109,1012
			Network synthesis	10	Application of network extraction			Interconne ction of tpn	CO2, A3 for CO3 and A4 for CO4)			
			Dielectric materials	7	Piezoelectricity & its application	Piezoelectri city & its Application by Ms. Geetika Mathur (EE)	Piezoelectricit y & its Application	Piezoelect ric sensor materials				
5	Electromagn etic Properties Of Materials	3EC5A	Magnetic materials	8					MTT1 (A1,A2 FOR CO1)	Soft and hard Magnetic materials, Weiss field and magnetic domains		
			Semiconductor materials	9		Overview of Semiconduc tor Devices	Overview of Semiconducto r Devices &		MTT2 (A3 FOR CO2)			



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						& its application by Ms. Ritambara (Phy)	its application					
			Conductive & superconductive materials	8						Electrical properties of conductiv e and resistive materials		
			Nanomaterials	8	Introduction of Nanotechnology, MEMS			Introducti on of MEMS & Microsyst ems				
	Advanced		Laplace transform	8	Rouche's theorem and its applications		PPT on Rouche's Theorem					
6	Engineering Mathematics-	3EC6A	Fourier Series & Z- Transform	8								Po1,PO 2, PO 3, PO12
	Ι		Fourier Transform	8							1	,
			Complex variable	8							1	
			Complex variable	8								
			Feedback amplifier	8			Feedback topology	Classificat ion of amplifiers	MTT1 (A1 for CO1,CO2) MTT2(A2 for	Nyquist criterion		
			Oscillator	9	Modulation techniques		Multivibrator		CO3)			
_	Analog	4EC1A	High frequency amplifier	7				Hybrid -pi model			Analog	PO1, PO2,
7	Electronics 4	4EU1A	Tuned amplifier	8	Basics of antenna			Double tuned amplifier	MTT2 (A1 for CO1, A2 for CO2 and A3		electronics lab	PO4, PO12
			Power amplifier	8	Types of transducer		Types of power amplifier	Classificat ion of power amplifier	for CO3)	Class b push pull amplifier		



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			Probability Theory	7		 			Bayes Theorem Problems		
	Random		Random Variables and Distributions	8	Apply Probability Distribution on Practical Problems	 			Properties of Probabilit y Distributi ons		PO1,PO2,PO
8	Variables & Stochastic Processes	4EC2A	Multiple Random Variables	9		 			Properties of Multiple Random Variables		3,PO4,PO5,P O6,PO10,PO 11,PO12
			Stochastic Process	7		 			Gaussian Process		
			Stochastic Process in Frequency Domain	9	Application of Stochastic Process in Engineering	 			LTI System Problems		
			Theory of errors	8		 		MTT-1 A1 for CO-1	Wattmeter errors		
	Electronic		Electronic instruments	8		 			Measurem ent of Earth resistance		
9	Measurement & Instrumentat	4EC3A	Oscilloscopes	9		 		MTT-2 A2 for CO-2 A3 for CO-3	Scanning Oscillosco pe		PO1, PO2, PO3, PO4, PO12
	Instrumentat ion		Signal generation and signal analysis	8	Different types of AC bridges	 AC bridges	Classificat ion of AC bridges		Distortion meter		
			Transducers	7		 			resistance wire strain gauges		
10	Electromagn etic Field Theory	4EC4A	Introduction	6	Introduction to basic physics, Knowledge of calculus	 Introductory Concepts, Vector Fields and Coordinate		MTT-1 A1- FOR C01 A2- FOR CO2	Coordinat e system	NA	PO1, PO2, PO3, PO6, PO7, PO12



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							Systems]	
			Electrostatics	9	Basic concept of electric field		fundamentals of Electrostatics	Gauss law and its applicatio n				
			Magnetostatics	9	Basic concept of and magnetic field	-		Faraday law it applicatio n	MTT-2 A2 FOR CO2 A3	Magnetost atics		
			Time varying fields	9				uniform plane waves	FOR CO3 A4 FOR CO4			
			Radiation, EMI and EMC	7								
			Introduction & classification of Optimization	7	Game Theory and its applications		PPT on Game theory	Transport ation				
11	Optimization Techniques	4EC5A	Linear Programming	9	Dual simplex Method		PPT on Dual Simplex	Assignme nt				PO1,PO2,PO 3,PO9,PO12
	reeninques		Application of LPP	8								5,1 09,1 012
			Non Linear Programming	9								
			Dynamic Programming	7								
			Numerical Analysis	6	Application of Numerical Analysis in Engineering			Stirling's Formula	MTT-I A1-	Backward interpolati on		
12	Advanced Engineering Mathematics- II	4EC6A	Numerical Analysis	8			Numerical Differentiatio n and integration		For CO1	Runge- Kutta Method		PO1,PO2,PO 3,PO9,PO12
			Special Functions	9				Bessel Functions	MTT - 2 A3- For CO2			
			Statistics & Probability	9					MTT-I A2- For CO3	Rank correlatio		



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1										n	Ì	
			Calculus of Variations	8					MTT - 2 A4- For CO4	Isoperimet ric Problems		
			Introduction	8	singularity function				MTT1(A1 for co1,co2)			
			Fourier series representation of signals	8					MTT2(A2 for co3,)		Ci an al	PO1, PO2,
13	Signals & Systems	5EC1A	Fourier transform	9	application of CTFT & DTFT				MTT2(A3 co3,co4,)		Signal processing lab	PO3, PO5,PO6,PO
			Z-transform & Laplace transform	9	unilateral Laplace & Z-transform						140	7,po10,po12
			Sampling	6	Decimation & interpolation							
			Operational amplifier	8	Pole-Zero compensation		Comparator	OP-AMP 741	MTT1 (A1 for			
			Op-amp application	8			R-C phase shift oscillator		CO1, A2 for CO2 and A3			
14	Linear	5EC2A	Active filters	8	Frequency response of op-amp		Filter	Low pass filter	for CO3)			PO1,PO2,PO 3,PO4,PO6,P
14	Integrated Circuits	5EC2A	Linear IC	8				A/d and d/a converter	MTT2 (A1 for CO1, A2 for CO2 and A3 for CO3)		EED lab	07,P09,P01 1,P012
			Non-linear applications of op-amp.	8	Step response of op- amp							
		Transmission Line Parameters	10									
15	Telecommuni cation Engg.	5EC3A	Transmission line Applications	8			Smith Chart Fundamentals	Single and Double Stub Matching	1 for CO1, 1 for CO2, 1 for	Smith Chart Applicatio ns	Microwave Lab, Antenna	PO1, PO2, PO3, PO6,
	cation Engg.		Attenuators and Filters	8		Filters			CO3		Lab	PO7, PO12
			Telephony	7	1. Landline Telephony 2. Introduction to Mobile		Two Wire and Four Wire Transmission				Lau	



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					Communications						
			Switching and Signalling	7		 			Switching		
			Noise effect in communication system	8		 	Noise in communic ation system				
16	Analog Communicati on	5EC4A	Amplitude modulation	9		 VSB modulation		A1 for CO1 and CO2 ,A2 for CO3,CO4,CO 5	applicatio n of modulatio n	Analog communicat ion lab	PO1,PO2,PO 3,PO4,PO5,P 07,PO12
			Frequency modulation	8		 		5			
			Noise in AM and FM	8		 					
			Pulse analog modulation	7	TDM and FDM	 					
			Microwave transmission lines	10		 	Microstrip line				
			Microwave network analysis	8		 					
	Microwave		Microwave passive components	9	Microwave mixer	 				Microwave	PO1,PO2,PO
17	EnggI	5EC5A	Microwave measurements	6		 Microwave impedance measuring devices			Power measurem ent techniques	Lab	6,PO7,PO12
			Microwave IC technology	7	MMIC uses in VLSI	 	IC fabricatio n steps				
18	Biomedical 18 Instrumentat	5EC6.1	Human body subsystem, transducer and electrodes	7		 Respiratory system				NA	PO1, PO2, PO6, PO10,
10	ion	А	Bio-potentials, cardiovascular system measurements	7	Stethoscope	 	EEG	MTT1 (A1 for CO1, A2 for CO2 and A3	ECG	INA	PO6, PO10, PO11, PO12



			Instrumentation for clinical laboratory, medical imaging techniques	9		 		for CO3)			
			Patient care, biotelemetry and safety measures, therapeutic and prosthetic devices	10	Laparoscope	 		MTT2 (A1 for CO2, A2 for			
			Applications of bio- potentials, computer applications	7		 Pacemakers		CO3)			
			Impedance transformation and matching	8		 					
			Microwave diodes and diode circuits	9		 GUNN Diode	Varactor diode				PO1, PO2,
19	Microwave EnggII	6EC1A	Microwave transistors and circuits	8	Microwave vacuum tube devices	 	Solid state devices used at mw freq.	MTT-2 A2 FOR CO2 A3		RF and simulation lab	PO4, PO5, PO10, PO11, PO12
			Klystron and magnetron	8	Microwave radar	 		FOR CO3 A4 FOR CO4			
			Travelling wave tube	7		 Klystron			Magnetro n		
			8085 Microprocessor	10	Advance Microprocessor 8086.	 timer IC 8253	basics of 8085	MTT1 (A1 for CO1) MTT2(A2 for			
20	Microprocess	ocess GEC2	Assembly Language programming	10	traffic light controller	 		CO2)		Micro	PO1, PO2, PO3, PO4,
20	Microprocess ors 6EC2A	6EC2A	Basic interrupts. s/w and h/w.	8		 				processor lab	PO5, PO6'PO9
			Peripheral ICs.	6		 IC 8255					
		8051 M/C.	6	project based on 8051	 						
21	Industrial Electronics	6EC3A	Semiconductor power devices	10		 				IE Lab	PO1,PO3,PO 12
	Electronics	Flootropics 6EC3A	Rectifiers & inverters	11	Power factor	 SCR, DiAC,	Choppers	MTT1 (A1 for	Power		12



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					improvement		TriAC		CO1)	supply		
			Power supplies	6	Harmonic reduction				MTT2(A2 for CO2)			
			Motor control	8								
			Stepper motors	5								
			Digital Transmission Of Analog Signals	8					MTT1 (A1 for			
	Digital		Base Band Transmission	7	Satellite Communication	Satellite Communica tion	Satellite Communicati on	Satellite Communi cation	CO1, A2 for CO2)	Matched Filter		PO1.PO2.PO
22	Communicati on	6EC4A	Digital Modulation Techniques	9	CDMA,GSM	CDMA,GS M	CDMA,GSM	Satellite Communi cation	MTT2 (A1 for		Communica tion Lab-II	3,PO4,PO7,P 011,PO12
			Information Theory	7	Radio Communication				CO2, A2 for CO3)			
			Source & Error Control Coding	8								
			Control System and their representation	7	Sampled Data control systems	Society and Control System	Time Response Analysis					
			Time Response, Stability	7	Error Analysis using MATLAB		Bode-plot	State Space Model				
23	Control	6EC5A	Root-locus, Nyquist Plots	8			Root-locus	Nyquist plot.	MTT1 (A1 for	Bode Plot		PO1, PO2,PO3,PO
23	Systems	OLCJA	Bode Plots, Controller	10				Routh– Hurwitz stability criterion	CO1, A2 for CO2 and A3 for CO3)	Root Locus		5,PO10,PO12
			State variable analysis, Compensation Design	8	Stability analysis of digital control system – An Introduction				MTT2 (A1 for CO1, A2 for			
24	Optical Fiber Communicati on	6EC6.3 A	Optical Fiber overview: Transmission Characteristics of optical fiber	9			Ray theory	optical fiber types	CO2 and A3 for CO3)		Optical & VLSI Lab in 8th Sem.	PO1,PO2,PO 6,PO7,PO12
	011		Optical Fiber sources	7	Introduction to photonics		Laser & LED structure and			Power Launching	our seni.	



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							characteristics			scheme		
			Optical detectors and connectors	8	Fiber Bragg Grating			P-N and P-I-N photodiod e	MTT2 (A1 for CO1, A2 for			
			Optical Fiber Measurements and (OTDR)	8		Optical modulation – Mach Zehnder			CO2 and A3 for CO3)			
			Optical Fiber Systems and Optical Fiber Applications	8	Wavelength routing and switching networks	interferomet er – MZ optical modulator – operating requirement s	WDM and DWDM			Digital Transmiss ion system		
			Antenna fundamentals	8					MTT1 (A1 for			
			Antenna Arrays	7	Reconfigurable Antennas		Antenna Array	Types of Propagati on	CO1, A2 for CO2 and A3 for CO3)		Wireless	PO1,PO2,
25	Antenna & Wave Propagation	7EC1A	Different types of antennas	10	Slots in antennas	Microstrip patch antenna	Microstrip Patch Antenna	Different types of Antenna	MTT2 (A1 for CO1, A2 for	Types of antennas	Communica tion Lab, RF Fabrication	PO3, PO4, PO5, PO6, PO9, PO10,
	op agained		Ground wave propagation	7	Wearable Antenna		Horn Antenna	Basic Fundamen tal of Antenna	CO1, A2 for CO2 and A3 for CO3)		Lab	PO11, PO12,
			Ionospheric Propagation	8								
			Sampling	7	Multirate Sampling		DFT, FFT, Keiser Window	LTI	MTT1 (A1 for CO1, A2 for CO2 and A3	Filter Design		
	Digital Signal		Transform analysis of LTI systems	7	Adaptive Signal Processing				for CO3)		Signal and	PO1, PO2,
26	26 Digital Signal Processing	7EC2A	Structures for discrete- time systems	7	Auto Co relation	Cross Co relation			MTT2 (A1 for CO1, A2 for		Image Processing	PO3, PO4, PO5, PO6
			Filter design techniques	10					CO2 and A3 for CO3)			
			DFT, FFT	10								



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			Digital image fundamentals	7	Properties of Walsh transform	Atul Sharma (Global Inst. Technology)	Compressive sensing	Walsh Transform :-NPTEL by Prof. Debarati sen	A1,A2,A3,A4 for weak students in respective CO	Image compressi on : Text & Reference Books		PO1,
27	Digital Image Processing	7EC3A	Basic image operations	8	Compressive sensing		Discrete cosine transform				Signal and Image Processing	PO2,PO3, PO5, PO9,PO10,P
			Image restoration	8	Discrete cosine Transform		walsh transform				C C	O11,PO12
			Morphological image processing	8								
			Image segmentation and compression	8								
			Spread Spectrum Modulation Techniques	7			Spread spectrum system (PPT in 2nd Lecture)	Introducti on (NPTEL)	MTT1 (4.1 Sec.			
28	Wireless Communicati on	7EC4A	Wireless Microwave Communication	8	Capacity of Fading Channels	Capacity of Fading Channels (by Dr. Ramesh Bharti, Jagannath Univ.)	Fresnel zone clearance (PPT in 3rd Lecture)		MTT1 (A1 for CO1, A2 for CO2 and A3 for CO3)		Wireless Communica tion Lab	PO1, PO2,PO3, PO4. PO5, PO10,PO11
			Multiple Access Techniques and Networks	8			Multiple access techniques (PPT in 6th Lecture)	GSM and CDMA (NPTEL)	MTT2 (A1 for CO1, A2 for CO2 and A3 for CO3)			



			Cellular Wireless Networks Satellite	9	Wireless Ad hoc networks	Wireless Ad hoc networks (by Dr. Ramesh Bharti, Jagannath Univ.)		Wireless Networks (NPTEL)				
			Communication	8								
								BJT fabricatio n	Given			
			Introduction to MOSFET	10	I. Stick Diagram and its Application	I. Stick Diagram and its Application(Dr. Sandeep Vyas)	-	CMOS ICS	A1 FOR CO1 and CO2	VLSI design styles		
29	VLSI Design	7EC5A	CMOS logic circuits	8	I. S-Edit Design of Tanner Tool	I. S-Edit Design of Tanner Tool(Dr. K. M. Singh)			A1 for CO1 and CO2	Combinati onal logic	VHDL LAB	PO1,PO2,PO 3,PO4,PO9,P 010,PO11,P 05
			Basic physical design of simple Gates and Layout issues	8	I. L-Edit Design of Tanner Tool	I. L-Edit Design of Tanner Tool(Dr. K. M. Singh)			Assignment A2 for CO3 and CO4	Design rules		
			Dynamic CMOS circuits	8	I. LVS check of Tanner Tool	I. LVS check of Tanner Tool(Dr. K. M. Singh)	-		Assignment A2 for CO3 and CO4	VHDL code for flip flop		
30	VHDL	7EC6.3 A	Physical Design	6					Assignment A2 for CO3 and CO4	Design rules checking	Optical & VLSI Lab	PO1, PO2, PO3, PO5,
	SO I VHDL I	A	Language Fundamentals	7	Introduction to Verilog Language	Mr. Ravi Soni	Introduction to VHDL	VHDL coding of			v L51 LaU	105,105,



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						(Introductio n to FPGA)		FSM by Prof Kuruvilla Vergese				
			Combinational and Sequential Circuits building blocks	9			Combinationa l Circuits Designing	Introducti on to VHDL by Prof. A.N. Chandork ar	Assignment for CO1, CO2	FSM Design		
			Synchronous /Asynchronous Sequential Circuits	9	Handling Hazards in circuits	Dr. Manish Goswami (Mapping design to Hardware)	Sequential Circuits		-			
			Digital System Design	9	Tool Introduction Xilinx	Mr. Vikas Mathur (Analog Designing)						
			Introduction to VLSI technology	7	Crystal structure	crystal structure	crystals defect	Fabricatio n steps	MTT1 (A1 for CO1, A2 for			
			Diffusion & Oxidation	9		oxidation tech			CO3)	Ficks diffusion		PO1,PO2,PO
31	IC Technology	8EC1A	Film deposition and Epitaxy process	8					MTT2 (A1 for		NA	3,PO6,PO7,P 012
			Ion implantation, lithography and Etching	8					CO1, A2 for CO2)			012
			Application of IC technology	8	novel device		CMOS IC Tech		02)			
		Radar & TV	RADAR	10					MTT-1 A1- for C01 A2- for CO2	RADAR, T.V. systems		
			T.V. systems.	8					101 CO2		Wireless	PO1, PO2,
32	32 Radar & TV Engineering 8E	8EC2A	Processing and transmission of TV signals	8					MTT-1 A1- FOR C01 A2-		Communica tion Lab	PO3, PO6, PO7, PO12
			Basic circuits of TV RECEIVER	8					FOR CO2 A3 for CO3			
			Modern TV system	6	HDTV, Optical							



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1		l						1			1			
					LED, Remote Sensing									
			Introduction of Nano electronics	8	Nanotechnology in Polymers	 		MTT-1 A1- FOR C01 A2-						
			Nano fabrication & Patterning technique	10	Medical application of Nanotechnology	 CVD		FOR CO2 A3 for CO3	CVD, PVD					
33	MEMS and Nanotechnol	8EC3A	General characterization technique	8	Supramolecular Machines	 	Dynamic light scattering			Nil	PO1, PO2, PO6, PO7,			
	ogy		electrical, magnetic, mechanical and optical properties	8	Nano magnets for sensors	 Nano biology		MTT-2 A3 for CO3 A4 for CO4	nano magnets for sensors					
			MEMS and Microsystems	9		 								
			The 8051 Microcontroller	7		 8051 microcontrolle r		MTT1(A1 for CO1, A2 for CO2, A3 for CO3 and A4 for CO4)						
	Microcontrol	9EC4 2	8051 Assembly Language Programming	9		 			Real time control		(PO1, PO2, PO3, PO5,			
34	lers and Embedded Systems	8EC4.3 A	Real Time Control	7		 	ARM PROCES SOR	MTT 2(A1 for CO1, A2 for CO2, A3 for CO3 and A4 for CO4)			PO9, PO10, PO11 AND PO12)			
			System Design	8		 								
			Introduction to Embedded System	9	PIC & ARM Processor	 ARM processor								

Table 2.2.1.b Delivery Details through various Modes of Teaching



4. Quality Improvement by the Faculty in Teaching and Learning

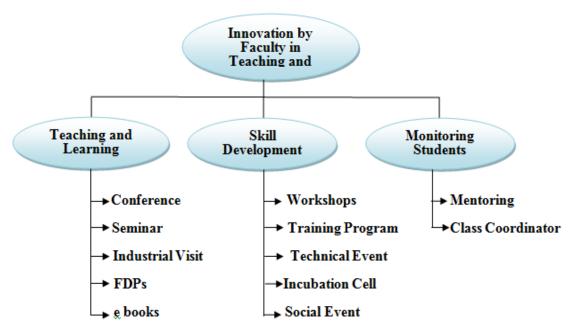


Figure 2.2.1.b Quality improvements by faculty through various modes

S. No.	Name of Faculty	Event Category	Name of Event	No. of Students Participated
		International Conference/ Journal	International Journal of Computer Science & Communication	NA
		National Conference	RTDEEE -2018(1 paper) RAST 2018	2 4
1	Dr. Lokesh	FDP	Advanced Optimization Techniques	NA
1.	Kr. Bansal		Managing Yourself	NA
			Engineers Day	39
		Social	Induction Day	43
			JECRC MUN	5
			Smart India Hackathon	18
			Aptron	75
		Workshop	Society and Control System	45
2.	Ms. Shruti Kalra	Social	Zarurat	28
		International Conference	RTDEEE -2018 (4 papers)	10
		National Conference	RAST 2018	4
	Mr Daiach		Effective mentoring skills	NA
3.	Mr. Rajesh Bathija	FDP	ICT Training On Embedded System	5
		a • •	Aashayein	25
		Social	Athlon	27



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			Engineers Day	39
			Induction Day	43
			Smart India Hackathon	18
		Technical	Technophilia	25
		Workshop	Aptron	75
		International Conference	RTDEEE -2018	6
		National Conference	RAST 2018	8
			Effective mentoring skills	NA
4.	Mr. S. S Manakatala	FDP	ICT Training On Embedded System	NA
			Induction Day	43
		Social	Engineers day	39
		Technical	Technophilia	25
		National Conference	RAST 2018	4
5.	Mr. Anil Jain	Industrial Visit	Tesca Technologies	27
		International Conference	RTDEEE 2018	2
	Dr. Vinita Mathur	National Conference	RAST-2018	6
			ICT Training On Embedded	
		FDP	System	NA
6.			Engineers day	39
			Induction Day	43
		Social	Suhasini	13
			Smart India Hackathon	18
		Technical	Line Follower	23
		International Conference/ journal	RTDEEE- 2018	8
	Ms. Parul	National Conference	RAST 2018	4
7.		FDP	ICT Training On Embedded System	NA
	Tyagi		Engineers day	39
		Social	Suhasini	13
			Smart India Hackathon	18
		Technical	Line Follower	23
		International Conference	RTDEEE- 2018	8
		FDP	Outcome Based Education	4
			Aashayein	4
8.	Ms. Ritu		Engineers day	39
	Vyas	Social	Induction day	43
			Suhasini	13
			Smart India Hackathon	18
		Technical	Quizolic ,Techinobuzz	24
	Mr. Vikas	International Conference	RTDEEE- 2018	4



	Sharma		Outcome Based Education	4
		FDP	Effective Mentoring Skills	NA
			Athlon	12
		Social	Engineers day	39
			Induction Day	43
			Aashayein	4
		Technical	Smart India Hackathon	18
			Robowar	23
		Workshop	Society and Control System	45
		International Conference	RTDEEE- 2018	3
		National Conference		
		FDP		
		Social	Athlon	12
			Engineers day	39
10.	Mr. Ashish		Induction day	43
10.	Kulshrestha	Technical	Zarurat	21
		Technicul	Smart India Hackathon	18
			Phoenix	21
		International Conference	RTDEEE- 2018	6
		FDP		
	Mr. Pravin Kumar Sharma	Social	Athlon	12
11		International Conference	Engineers day	39
11.			Induction day	43
			Smart India Hackathon	18
			OWT 2018	NA
		National Conference	RTDEEE- 2018	4
	Mr. Ashutosh	Social	Athlon	12
			Engineers Day	39
12.		h Industrial Visit	Induction Day	43
12.	Sharma		Genus Power Infrastructure Ltd.	50
		International Conference/Journal	RTDEEE- 2018	3
		National Conference	RAST 2018	3
		FDP	Effective Mentoring Skills	NA
		Social	ICT Training On Embedded System	NA
			Engineers Day	39
13.	Ms. Neha		Induction Day	43
	Singh		Suhasini	13
		Technical	Smart India Hackathon	18
			Formula Zero	16
		International	RTDEEE- 2018	4
		Conference		•
14.	Mr. Raj	National Conference		



	Kumar Jain	FDD	ICT Training On Embedded	NT A
		FDP	System	NA
		Social	Aashayein	5
			Athlon	12
		Tashninal	Engineers Day	39
		Technical	Induction Day	43
			Phoenix	21
		International	International Journal Of	NA
		Conference/Journal	Creative Research Thoughts	6
		National Conference	RTDEEE- 2018	6
		FDP		
	Mr. Vikas	Social	Engineers Day	39
15.	Mishra		Induction Day	43
	14115111 a	Technical	Athlon	12
			Robo Soccer	21
		International Conference	RTDEEE-2018	6
		National Conference	RAST 2018	4
		Social	Engineers Day	39
	Mr. Veni		Induction Day	43
16.		Technical	Smart India Hackathon	18
10.	Madhav		Renovator	16
		Industrial Visit	Tesca Technologies	27
		International Conference	RTDEEE-2018	4
		National Conference		
	Mr. Mangi Lal	FDP	ICT Training On Embedded System	NA
17.			Engineers Day	39
1/.	1711. 171angi Dal		Induction Day	43
		Social	Smart India Hackathon	18
			Start-up	4
			Induction Day	43
			Smart India Hackathon	18
18.	Mr. Sidharth	Technical	JECRC MUN	5
10.	Chaturvedy		Game of Drone	12
		Social	Engineers Day	39
			Induction Day	43
19.	Mr. Honey	International	Athlon	12
	Agarwal	Conference	RTDEEE 2018	6
		Social	Athlon	12
			Aashayein	4
20.	Mr. Jitendra		Engineers Day	39
20.	Sharma	FDP	Induction Day	43
			Mathematical Modelling and Optimization of	NA



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			Industrial Problems	
		National Conference	RAST 2018	4
			ICT Training On Embedded	
	Mr. Sandeep	FDP	System	NA
21.	Dotya	Social	Engineers Day	39
	5		Induction Day	43
		International Conference	Athlon	13
		National Conference	RAST-2018	2
		National Conference	ICT Training On Embedded	Z
		FDP	System	NA
22.	Mr. Rakesh	Social	Engineers Day	39
	Kardam		Induction Day	43
		International Conference	Smart India Hackathon	18
			RTDEEE 2018	4
		National Conference	RAST-2018	6
		Social	Athlon	12
	Mr. Devendra		Aashayein	4
23.	Sharma		Engineers Day	39
		Technical	Induction Day	43
			Game of Drone	12
24.	Mr. Naresh Kumar	International Conference	RTDEEE 2018	6
			Engineers Day	39
25.	Mr. Katru Anand	Social	Induction Day	43
			Aashayein	4
26.	Mr. Ashok Kumar	International Conference	RTDEEE 2018	6
		National Conference	DAST 2019	2
		National Conference	RAST-2018 Mathematical Modelling	2
		FDP	and Optimization of	NA
			Industrial Problems	
		Social	Aashayein	6
	Mr. Ankur		Athlon	12
27.	Gangwar		Engineers Day	39
		Technical	Induction Day	43
			Smart India Hackathon	18
			Formula Zero	16
		Workshop	CCNA networking	58
		Social	Athlon	12
			Engineers Day	39
28.	Mr. Lokesh	Technical	Lingineers Day	39



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	Sharma		8th International	
	Shurina		Conference on Computing,	
		International Conference	Communication and	NA
			Networking Technologies	1 1 1
		Social	Engineers Day	39
			Induction Day	43
		Technical	Smart India Hackathon	18
29.	Ms. Shivam	Teennear	Quizolic ,Techinobuzz	16
29.	Upadhyay	Industrial Visit	Philips Lightning	51
			Talent Pull	51
		International Conference	RTDEEE 2018	4
		Social	Engineers Day	39
30.	Ms. Deepmala	— • • • •	Induction Day	43
	Kulshrestha	Technical	Smart India Hackathon	18
			Tech-Tambola, Rob soccer	12
			Research Challenges in	
	Mr. Bhoopesh Kumawat	FDP	Wireless Technologies for	NA
		~	5G	
		Social	Athlon	12
			Engineers Day	39
31.		Technical	Induction Day	43
			Smart India Hackathon	18
		Industrial Visit	Philips Lightning	51
			Talent Pull	51
		International Conference	RTDEEE 2018	6
			RISE 2017	NA
		National Conference	RAST 2018	4
		FDP	Effective Mentoring Skills	NA
			ICT Training On Embedded	NT 4
		Social	System	NA
			Athlon	12
32.	Mr. Devesh		Engineers Day	39
	Gupta		Induction Day	43
		Technical	Smart India Hackathon	18
			Robowar	14
		Training Program	Sakrobotix	66
		International Conference	RTDEEE 2018	6
		National Conference	OWT-2018	NA
			Recent Advances in	
		FDP	communication	NA
33.	Ms. Teena		technologies	
	Sharma	Social	Engineers Day	39
			Induction Day	43
		International Conference	RTDEEE 2018	6
34.	Mr. Ashish	National Conference	RAST2018	4



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	Sharma	FDP	Advanced Optimization	NA
			Techniques	
		Social	Athlon	12
			Engineers Day	39
			Induction Day	43
		Technical	Smart India Hackathon	18
			Tech-Tambola, Game of	18
			Drone	
		Industrial Visit	Genus Power Infrastructure Ltd.	50
			Philips lightning	51
		International Conference	Talent Pull	51
			RTDEEE 2018	6
		Social	Engineers Day	39
			Induction Day	43
	Ma Drest	T d4 1 X7:4	Smart India Hackathon	43
35.	Ms. Preeti	Industrial Visit		51
	Barot		Philips lightning Talent Pull	51
		International Conference	RTDEEE 2018	6
		National Conference	RIDEEE 2018 RAST 2018	<u> </u>
		National Conference		<u>4</u> 39
	Mr Doopal	Social	Engineers Day	43
36.	Mr. Deepak Shankla	Social	Induction Day Smart India Hackathon	43
	эпанкіа			1ð
		Training Program	Embedded System and Robotics	56
	l		RODOTICS RTDEEE 2018	4
		International Conference FDP	KIDEEE 2010	4
	Mr. Mohit	FDP	Engineers Day	39
37.	Rajput		Induction Day	43
		Social	· · · · · · · · · · · · · · · · · · ·	<u>43</u> 3
			Aashayein Athlon	
			Athlon	12
		International Conference	RTDEEE 2018	6
20	Ms. Shweta	s. Shweta Social	Engineers Day	39
38.	Sharda	Intermedian -1 Conf	Induction Day	43
		International Conference	Smart India Hackathon	18
	Mo Vait:		RTDEEE 2018	6
39.	Ms. Kriti Manish Sharda	Social	Engineers Day	39
	-	Technical	Induction Day	43
		Social	Quizholic	12
40.	Ms. Yogita		Smart India Hackathon	18
		International Conference	RTDEEE 2018	4
	Ms. Aapurva		Engineers Day	39
41.	Kaul	Social	Induction Day	43



	Smart India Hackathon	18
Industrial Visit	Philips Lightning	51
	Talent Pull	51

Table 2.2.1.c Details of Participation of Faculties for Improvement in Teaching-Learning

5. Activities Conducted through External Entities for Improvement in Teaching and Learning

Activity Type	Name of Event	No. of Participants
Conforma	RTDEEE-2018	120
Conference	RAST-2018	70
	Aptron India	75
Seminar	Huawei Authorized Network Academy(MOU)	550
	Rajasthan Technical University	45
	Regional Telecom Training Centre, BSNL Jaipur	55
Industrial Visit	Genus Power Infrastructures Ltd.	50
	Tesca Technologies Pvt. Ltd	27
	Philips Lighting	51
	Talentpull	51
FDP	Embedded Systems (ICT51)	20

 Table 2.2.1.d Activities conducted through External Entities

Skill Development Initiatives	Name of Event	Organised By	Total no. of Participants
	CCNA Networking	Mr. Neeraj Kanwar, IIHT	58
Workshops	Open Source Innovations – Technological Convergence	Mr. Alok Srivastava, RED HAT ACADEMY	215
	SPYBOT- Spy Robotic	Mr. Saurabh, TechiNest Pvt. Ltd.	220
Turining Deserves	Embedded Systems & Robotics	TechiNest Pvt. Ltd	56
Training Programs	Embedded & Robotics (MOU)	SaKRobotix	66
Toologia al Europeta	Game of Drones	Faculty & Students	25
Technical Events	Renovator	Faculty & Students	30



	Tech Tambola	Faculty & students	45
	Robowar	Faculty & Students	35
	Line Follower	Faculty & Students	28
	Formula Zero	Faculty & Students	40
Social Activities	ZARURAT	Faculty & Students	25

Table 2.2.1.e Skill Development Initiatives for Faculty/Students

6. Student Performance and Learning Outcomes

(i) To emphasize on concept building and exposure of latest technological trends as well as ethics impartment, following measures are taken

- **Practical Exposure** through presentations, case studies, group discussion, class tests and tutorials
- **Communication Skill Improvement** through group discussions, presentation on course based and general topics are regularly carried out in the class
- Social responsibilities for ethical measures

(ii) CO-PO Mapping is done for theory courses as well as laboratories to continuous monitor the performance scale for various learning outcomes

(iii) MTT Evaluation on CO basis ensures the result of the achievement of outcomes which is set as 60% minimum

(iv) Assignments for non-performing students (60% below in particular CO is the basis)

(v) Encouragement to students having excellent academic record

- To achieve university ranks
- To take up competitive examinations like GATE, GRE etc.
- To do research work

2.2.2 Quality of Internal Semester Question Papers, Assignments and Evaluation (20)

(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester question papers, assignments and evaluation)

A. Process for Internal Semester Question Paper setting and evaluation and effective process implementation

The department ensure that all the students are aware of the evaluation processes through

- Syllabus and Scheme of Examination
- Time table of examination
- Paper Pattern and Question Paper Finalization through Scrutinizing committee
- Debarred Criteria
- Distribution of Marks as COs and display
- Display of marks with week student list
- Improvement paper based on COs
- Updating the Marks after Improvement-paper Performance (For Weak Students)



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1. Student-Awareness for Examination-activities and the evaluation process

- Academic Calendar
- Syllabus and scheme of examination
- Time table of examination
- Ordinances and notices
- Test copies after evaluation are shown to students
- Students can see his/her copy after semester examination through re-opening on payment basis.

2. Examination reforms initiated by the department

The department has provision of showing answer sheets of internal tests to the students. They can compare their answer with other students. They can discuss with teachers. Few faculties use assignments, seminars, quiz etc. This has added value to the system.



Department of Electronics & Communication Engineering Evaluation Process Internal Exam External Exam Mid Term Test (I &II) **Oral Evaluation** Practical Theory Question paper prepared by course Submit all Question Papers to Problem MODCOM Solving Lecture **Overall Result** Analysis Moderation committee moderate and prepare final paper **Review** and Suggestions **Review** and Suggestions **Selected Question Paper** send to Department Printout of the final paper by Submitted **Internal Examination Coordinator** Submitted IQAC Answer sheet Submitted evaluation by course coordinator **Review** and **Report generation and** Suggestions submitted to Program **CO Based Result Analysis** Coordinator Weak Strong Students List Students List Assignments Encourage (& & Evaluation Guidance) for GATE/ PSUs/ **Govt. Exams**

Figure 2.2.2.a Flow-chart of Examination Process



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3. Quality Check and Redressal of Grievances

The department has a Moderation Committee for internal and external practical examination which is responsible to ensure the quality of internal examinations and to resolve the related issues.

9/22018 JECRC Mail - moderation committee

HoD ECE <hod.ece@jecrc.ac.in>

Wed, Jul 27, 2016 at 4:16 PM

moderation committee

HoD ECE <hod.ece@jecrc.ac.in> To: Principal JECRC <principal@jecrcmail.com> Cc: Principal JECRC <principal@jecrc.ac.in>

Respected Sir,

The Moderation Committee of ECE department for Quality Improvement in MTT Examination has been formed as under.

S. NO	FACULTY NAME	QUALIFICATION	DESIGNATION	ROLE
1	Dr. Lokesh Kr. Bansal	Ph.D	Professor	Convener
2	Ms. Vinita Mathur	M.Tech	Asst. Prof.	Member
3	Ms. Shruti Kalra	M.Tech	Asst. Prof.	Member
4	Mr. Anil Jain	M.Tech	Asst. Prof.	Member
5	Mr. Sidharth Chaturvedy	M.Tech	Asst. Prof.	Member
6	Mr. Rajesh Bhatija	M.Tech	Asso. Prof.	Member

[Quoted text hidden]

With Regards

Dr. Lokesh Kr. Bansal Professor & Head Department of Electronics & Communication Engg. JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE (An Institution of the JECRC Foundation) Add: Shri Ram ki Nangal, via Sitapura RBCO, Tonk Road, Jaipur, Rajasthan 302022 Mobile No. 9412163605, 9251039858

	Moderation Committee							
S. No.	FACULTY NAME	QUALIFICATION	DESIGNATION	ROLE				
1	Dr. Lokesh Bansal Ph. D		Professor	Convener				
2	Dr. Vinita Mathur	Ph. D	Asst. Professor	Member				
3	Ms. Shruti Kalra	M. Tech	Asst. Professor	Member				
4	Mr. Anil Jain	M. Tech	Asst. Professor	Member				
5	Mr. Sidharth Chaturvedy	M. Tech	Asst. Professor	Member				
6	Mr. Rajesh Bhatija	M. Tech.	Asso. Professor	Member				



Self Assessment Report

EXAMINATION NOTICE

All faculty members who are handling B. Tech (ECE) 3rd semester are requested to send the soft copy of the question paper and solution in proper format for MTT-2 on or before 14th November 2017 to corresponding class coordinators. Syllabus for MTT-2 is remaining 2.5 Units.

All Class coordinators of 3rd semester are requested to send soft copy of question papers and solutions of your respective class to the moderation committee last by 15th November 2017 at <u>rajesh.ece@jecrc.ac.in</u> positively. Subject of Email should be in this format, i.e. semester_section_cc name.

The Moderation committee is requested to submit hard copies of question papers to the internal exam coordinators on or before 16th November 2017.

The pattern of question paper is

- 1. The Question Paper will be of 1 hour & 30 Minutes duration.
- 2. Question Paper should contain GATE & RTU questions.
- 3. Course-outcome marks should be balanced.
- 4. The Question paper format is given below

Section	Type of Questions	Marks		
А	MCQ	10		
В	Subjective	15		
С	Subjective	15		
Total		40		



MTT Paper

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Department of Electronics & Communication Engineering

SEMESTER: VI

COURSE: B. Tech SUBJECT: Industrial Electronics (IE) TIME: 1Hour 30 Minutes

MTT-II

SECTION: A, B, C, D CODE: 6EC3A MM: 40

COURSE OUTCOMES CO3: Basics of choppers, SMPS, fly back converter, UPS, buck-boost converter **CO4:** Speed control of DC motor, PMHS, induction heating control

Instructions: Attempt all sections

SECTION A

Attempt all questions (objective/fill in the blanks)(10 x 1)Q1/co3: Express the Load voltage of D.C. Chopper in terms of its duty cycleand V_{dc} .

Q2/co3: In a Flyback converter, energy is stored in the transformer primary, during the time when ______.

Q3/co3: Draw the block diagram of UPS.

Q4/co3: What type of speed control is achieved through Armature Voltage control method for d.c. motors?

Q5/co3: Variable-voltage variable-frequency scheme is employed generally to control the speed of a ______ motor.

Q6/co4: Write the full form of VRSM and PMSM.

Q7/co4: Name the methods used for High frequency heating.

Q8/co4: In Induction heating, the depth of penetration (d) is proportional to the ______ of frequency.

Q9/co4: Give the reason for uniform heating effect in Dielectric heating.

Q10/co4: List the advantages of Dielectric heating.

SECTION B

Attempt any one part

(2 x 7.5)

Q1/co3 (a): An RLE load is operating in a Chopper circuit from a 500 Volt dc source. For the load having L=0.06 H, R=0 and constant E, and for a duty cycle of 0.2, Find the Chopping frequency to limit the amplitude of load current excursion to 10A.

Self Assessment Report

Q1/co3 (b): Draw the circuit and explain the operation of class-C chopper in each quadrant with associated waveforms.

OR

Q2/co3 (a): A Buck-Boost converter has an input voltage $V_{in}=12V$. The duty cycle is $\alpha=0.25$ and switching frequency is 25KHz. The inductance is $L=150\mu H$, filter capacitance is $C=220\mu F$ and the load current I_0 is 1.25A. Calculate

(i) Average Output Voltage, V_{out}

(ii) Peak-to-peak output voltage ripple, ΔV_c ; and

(iii) Peak-to-peak ripple current of Inductor, ΔI

Q2/co3 (b): Explain the operation of Buck-Boost converter with its circuit and associated waveforms.

SECTION C

Attempt any one part

(2 x 7.5)

Q3/co4 (a): Explain the construction and working of Hybrid Stepper motor.

Q3/co4 (b): Explain the speed-control of a $3-\phi$ Induction motor using frequency control methods.

OR

Q4/co4 (a): Explain the basic principle of HF Dielectric heating and derive the expression for heating power per unit volume.

Q4/co4 (b): Explain Torque versus Stepping/Pulse Rate characteristics of a stepper motor. Also, differentiate between Stepper Motor and Induction Motor.

~: Best of Luck :~



Assignment and Class Test Methodology

- **To assess students' knowledge** of engineering practices, framework, and problem solving abilities various tests are taken
- Class Tests are taken after every unit completion
- Assignment based on COs is given to the students after completion of each unit for each subject
- Assignments questions are chosen from previous years university papers
- Performance based Assignments are provided to low scoring students (<60%) after MTT to improve the take the performance level to minimum required one

Evaluation

- Answer Sheets are scrutinized on random basis to ensure the quality of evaluation of internal semester examinations answer sheets, also to check whether there is any issue in the evaluation or not
- **Transparency in Evaluation** is ensured by making provision of showing answer sheets to students who if wish then can compare their answers with other students as well as with text books



Result Analysis and Corrective Measures

	MTT-1 Result Analysis (Section A)												
NAM	NAME OF FACULTY: Bhoopesh Kumawat SUBJECT & CODE: Industrial Electronics (6EC3A)												
Class Roll No.	RTU Roll No	Name of Candidate	Obtained CO1	Total CO1	%age	Assignm ent-CO1 (Y/N)	Obtaine d CO2	Total CO2	%age	Assignm ent-CO2 (Y/N)	Obt. 40	Tot. 40	10
1	14EJCEC001	AAKASH MANGAL	5	20	25.00%	Y	4.5	20	22.50%	Y	9.5	40	3
2	14EJCEC002	AANCHAL JAIN	9	20	45.00%	Y	14	20	70.00%	Ν	23	40	6
3	14EJCEC003	AARUSHI SINGH	18	20	90.00%	N	15.5	20	77.50%	N	33.5	40	9
4	14EJCEC004	ABHINANDAN KUMAR	12	20	60.00%	N	7	20	35.00%	Y	19	40	5
5	14EJCEC005	ABHISHEK KUMAR	1	20	5.00%	Y	1	20	5.00%	Y	2	40	1
6	14EJCEC006	ADITYA GAUTAM	9.5	20	47.50%	Y	9	20	45.00%	Y	18.5	40	5
7	14EJCEC007	ADITYA SHARMA	11	20	55.00%	Y	9.5	20	47.50%	Y	20.5	40	6
8	14EJCEC008	AISHWARYA SHARMA	13.5	20	67.50%	Ν	10	20	50.00%	Y	23.5	40	6
9	14EJCEC009	AJAY GUPTA		20	0.00%	Y		20	0.00%	Y	0	40	0
10	14EJCEC010	AJAY SINGH NATHAWAT	10.5	20	52.50%	Y	5	20	25.00%	Y	15.5	40	4
11	14EJCEC011	AKANKSHA GUPTA	16.5	20	82.50%	N	10	20	50.00%	Y	26.5	40	7
12	14EJCEC012	AKANKSHA SINGHAL	18	20	90.00%	N	17.5	20	87.50%	N	35.5	40	9
13	14EJCEC015	AKSHAY LAROIYA	4	20	20.00%	Y	4.5	20	22.50%	Y	8.5	40	3
14	14EJCEC016	ALOK KUMAR		20	0.00%	Y		20	0.00%	Y	0	40	0
15	14EJCEC017	AMIT KUMAR	12	20	60.00%	N	7	20	35.00%	Y	19	40	5
16	14EJCEC018	AMIT KUMAR	16.5	20	82.50%	Ν	10	20	50.00%	Y	26.5	40	7
17	14EJCEC019	AMIT KUMAR SHARMA	13	20	65.00%	N	11.5	20	57.50%	Y	24.5	40	7
18	14EJCEC020	ANADI VATSA	0	20	0.00%	Y	6.5	20	32.50%	Y	6.5	40	2
19	14EJCEC021	ANJALI YADAV	18.5	20	92.50%	N	13.5	20	67.50%	N	32	40	8
20	14EJCEC022	ANKIT GARG	10.5	20	52.50%	Y	15.5	20	77.50%	Ν	26	40	7

Table 2.2.2.a MTT Credit Scheme



List of Weak Students Based on CO-Performance in MTT1

	Based on CO1	Performance	Based on CO2 Performance			
S. No.	RTU Roll No	Name of Candidate	S. No.	RTU Roll No	Name of Candidate	
1	14EJCEC001	AAKASH MANGAL	1	14EJCEC001	AAKASH MANGAL	
2	14EJCEC002	AANCHAL JAIN	2	14EJCEC004	ABHINANDAN KUMAR	
3	14EJCEC005	ABHISHEK KUMAR	3	14EJCEC005	ABHISHEK KUMAR	
4	14EJCEC006	ADITYA GAUTAM	4	14EJCEC006	ADITYA GAUTAM	
5	14EJCEC007	ADITYA SHARMA	5	14EJCEC007	ADITYA SHARMA	
6	14EJCEC010	AJAY SINGH NATHAWAT	6	14EJCEC008	AISHWARYA SHARMA	
7	14EJCEC015	AKSHAY LAROIYA	7	14EJCEC009	AJAY GUPTA	
8	14EJCEC020	ANADI VATSA	8	14EJCEC010	AJAY SINGH NATHAWAT	
9	14EJCEC022	ANKIT GARG	9	14EJCEC011	AKANKSHA GUPTA	
			10	14EJCEC015	AKSHAY LAROIYA	
			11	14EJCEC017	AMIT KUMAR	
			12	14EJCEC018	AMIT KUMAR	
			13	14EJCEC019	AMIT KUMAR SHARMA	
			14	14EJCEC020	ANADI VATSA	

Corrective Measures to improve the Performance of Weak students

Mentors are appointed to boost-up the performance of weak students who:

- Provides regular counselling and moral support to them
- Encourage them towards study through peer tutoring
- Encourage them for regular attendance
- Guide them through remedial support to clear their backlogs (if any)
- Constantly monitor their performance in Internal Tests
- Arrange Extra classes for backlog subjects if needed



Self Assessment Report

Assignment for Weak Students

Assignment 1 (for CO1 Weak Students)

1. Describe and explain the Reverse Recovery characteristics of Power Diode.

2. Explain the Turn-On process of TRIAC with appropriate conduction diagrams in its cross-sectional view.

3. Explain two-transistor model of Thyristor and derive the expression for anode current I_{A} .

Assignment 1 (for CO2 Weak Students)

1. Explain the 3- \emptyset 120° mode VSI with the help of circuit diagram and all relevant waveforms.

2. A half-wave controlled rectifier connected to a 150 V, 60 Hz source is supplying a resistive load of 10 Ω . If the delay angle α is 60°, Find:

(i) Maximum Load Current (ii) Average Load Voltage (iii) Average Load Current

(iv) RMS Load Current (v) Power supplied to the load (vi) Conduction Angle.

3. Explain the working of 3-ø full-wave half-controlled bridge rectifier with the help of its circuit and relevant waveforms.

<u>Re-Test Papers</u>

For Weak students on CO1 Basis

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE Department of Electronics & Communication Engineering

C3A		
& D		
SECTION : A, B, C &		

COURSE OUTCOME

CO1: Understanding various elements and parameters of transmission lines and their applications

Each question carries 5 marks

Q. 1 Derive the expression for Input impedance in terms of reflection coefficient.

Q. 2 Calculate the characteristic impedance, propagation coefficient and velocity of wave propagation at a

frequency of 400 KHz of a uniform transmission line which has the following constants L = 0.5 mH/mile, C =

0.08 µF/mile. Resistance and leakage negligible

Q. 3 Prove, that an infinite line is equivalent to a finite line terminated in its characteristic impedance.

Q. 4 A 50 ohm lossless transmission line is connected to a load (50 + j50) ohm. Calculate the magnitude of Reflection and value of VSWR

For Weak students on CO2 Basis

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE Department of Electronics & Communication Engineering

COURSE : B. Tech	SEMESTER: V	SECTION : A, B, C & D
SUBJECT : Telecommunicatio	n Engineering	CODE : 5EC3A

TIME: 1 Hour

Re-Test for CO2

MM: 20

COURSE OUTCOME



Self Assessment Report

CO2: Understanding Smith chart parameters and its applications in stub matching

Each question carries 5 marks

Q. 1 Explain Single stub matching and derive the expressions for location and length of stub.

Q. 2 Write down a brief note on Smith Chart and its properties.

Q. 3 An open wire R.F. transmission line (loss free) has a $Z0=600\Omega$ is connected to resistive load of 100Ω . Find the position and length of short circuited stub, if frequency is 150 MHz.

Q. 4 Use the smith chart to find the following quantities for a 50 Ohm transmission line having terminating impedance as $Z_L=60+j50$ located at $L=0.4\lambda$:

(i) SWR of the line (ii) Reflection coefficient at load (iii) Load admittance (iv) Input impedance of the line and (v) Distance from the load to 1st voltage minima.

2.2.3 Quality of Student Projects (25)

(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. Processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes and enhancing the relevance of projects. Mention Implementation details including details of POs and PSOs addressed through the projects with justification)

Initiatives

- The student's projects are selected in line with department Vision, Mission and Program outcomes.
- Students are provided with brief idea of various fields for selecting the project ideas.
- The list of previous year projects is displayed at notice board which ensures no repetition of project work and also encourages students to enhance the previous works.
- The faculties are encouraging the students to carry out in house projects. And support will be provided with all necessary software and hardware.
- Encouraged students to participate in project exhibitions/Expo. Conducted national level and International Level. The project exhibition was aimed to provide common platform to exhibit their innovations and their work towards excellence in latest technology.

Implementation

To ensure the quality of projects, department has IQAC which is responsible for planning, scheduling and execution of all the activities related to the student project work.

	Internal Quality Assurance Committee							
S. No.	FACULTY NAME	QUALIFICATION	DESIGNATION	ROLE				
1	Dr. Lokesh Bansal	Professor & HOD	Convener					
2	Dr. S. K. Singh	Dr. S. K. Singh Ph. D.		Member				
3	Dr. Sandeep Vyas	Ph. D.	Asso. Professor	Member				
4	Mr. Rajesh Bhatija	M. Tech.	Asso. Professor	Member				
5	Dr. Vinita Mathur	Ph. D	Asst. Professor	Member				



Project COs

8EC8.1	CO1: Understand and review the available literature on the chosen problem		
8EC8.2 CO2: Apply the methodology to solve the identified problem			
8EC8.3	CO3: Analyze the principles and tools for the problem.		
8EC8.4 CO4: Create the technique to solve the problem.			
8EC8.5	CO5: Prepare and present project report		

Mapping of COs with POs for Project Stage-I (7ECPR) and Project Stage-II (8ECPR)

	Project											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	Н	Н	Н	Н	L	-	-	-	Н	L	-	М
CO2	Н	Н	Н	М	Н	Μ	Μ	-	Н	L	Μ	Н
CO3	Н	Н	Н	М	Н	Μ	Μ	-	Н	М	М	Н
CO4	Н	Н	Н	Μ	Μ	Μ	Μ	-	Н	Μ	L	Н
CO5	Μ	Μ	М	М	L	-	-	Η	Н	Н	Μ	Н

Project laboratory: Facilities & Utilization

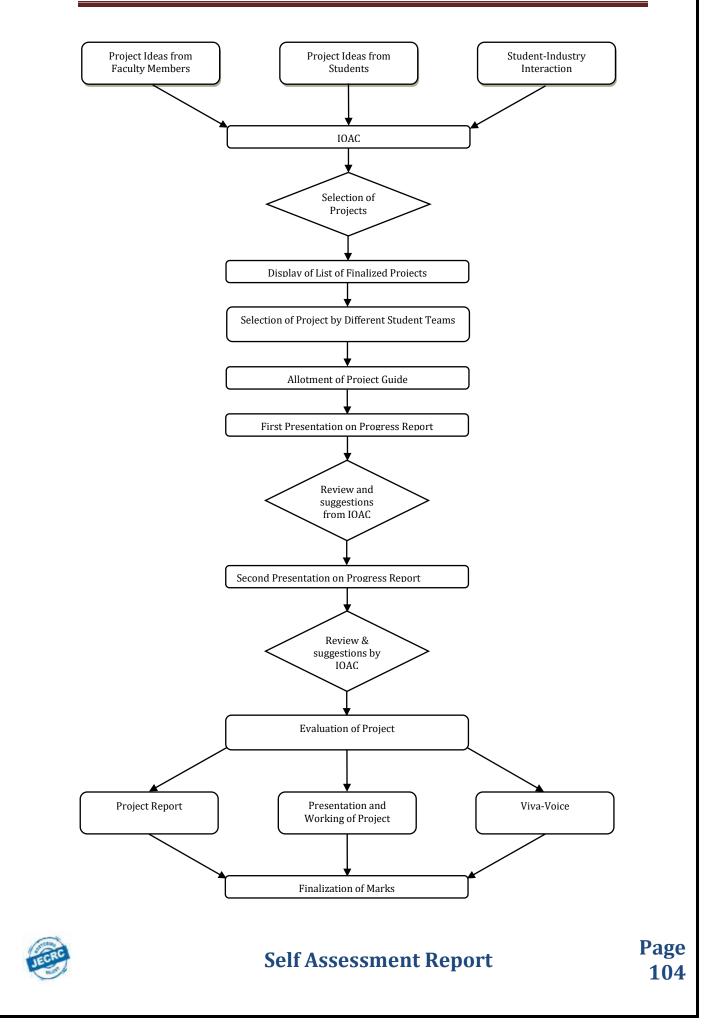
- Two hardware (workshop lab, embedded system lab) and one computer lab (CP-12) are used for project work
- Technical support for the students is available throughout the day
- All the labs are open for the students to carry out research regarding their projects, throughout the day

S. No.	Name of the Laboratory	Facilities available to conduct Project works and Research work	Usage of facilities
1.	Workshop Lab	CRO, Function Generator, Drilling Machine, Etc.	Used for student project work & Faculty research work
2.	Embedded System Lab	Different embedded system boards MSP 430, are available	Used for student project work & Faculty research work
3.	Computer Lab (CP-12)	Internet with high speed is provided for students for the project research work	Used for student project work & Faculty research work
4.	Signal Processing Lab	DSK starter kits	Used for student project work & Faculty research work

Facilities created in ECE department for projects



Self Assessment Report



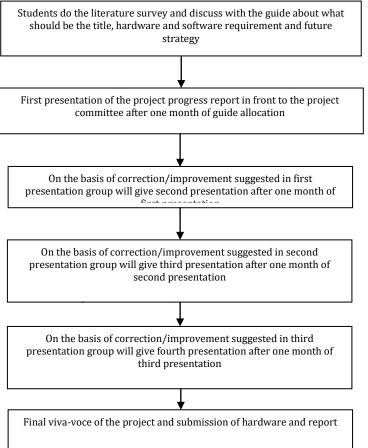


Figure 2.2.3.a Project Assessment Flow Chart

SAMPLE OF PROJECT-DATES NOTICE

Jaipur Engineering College and Research Centre, JAIPUR Department of Electronics and Communication Engineering Schedule of Major Project Presentation of B. Tech. ECE VIII Sem.

	19-Jan-18
Presentation	dates
1st Project Presentation of VIII sem. Section-A	1/23/2018
1st Project Presentation of VIII sem. Section-B	1/24/2018
1st Project Presentation of VIII sem. Section-C	1/25/2018
1st Project Presentation of VIII sem. Section-D	1/27/2018
2nd Project Presentation of VIII sem. Section-A	2/16/2018
2nd Project Presentation of VIII sem. Section-B	2/17/2018
2nd Project Presentation of VIII sem. Section-C	2/23/2018
2nd Project Presentation of VIII sem. Section-D	2/24/2018
3rd Project Presentation of VIII sem. Section-A	3/9/2018
3rd Project Presentation of VIII sem. Section-B	3/10/2018
3rd Project Presentation of VIII sem. Section-C	3/16/2018
3rd Project Presentation of VIII sem. Section-D	3/17/2018



Self Assessment Report

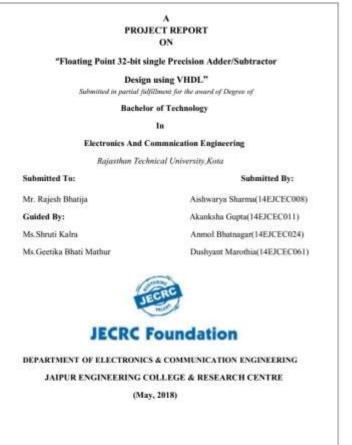
4th Project Presentation of VIII sem. All Sections

3/24/2018

VANUE: CAD LAB

RAJESH KUMAR BATHIJA PROJECT INCHARGE

SAMPLE OF FRONT PAGE OF PROJECT REPORT



Marks distribution of minor project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING PROJECT-I MARKS OF VII SEM ECE 2017-18

S.NO.	University Roll No.	Name	ASSESSMENT1 (20)	ASSESSMENT2 (30)	TOTAL (50)
1	14EJCEC001	AAKASH MANGAL	16	24	40
2	14EJCEC002	AANCHAL JAIN	16	25	41
3	14EJCEC003	AARUSHI SINGH	18	27	45
4	14EJCEC004	ABHINANDAN	15	23	38



Self Assessment Report

		KUMAR			
5	15EJCEC200	ABHINAV SINGH CHAUDHA	17	25	42
6	14EJCEC005	ABHISHEK KUMAR	15	23	38
7	14EJCEC006	ADITYA GAUTAM	19	28	47
8	14EJCEC007	ADITYA SHARMA	18	28	46
9	14EJCEC008	AISHWARYA SHARMA	19	28	47
10	14EJCEC009	AJAY GUPTA	16	25	41

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING PROJECT-I ASSESSMENT-1 MARKS OF VII SEM ECE 2017-18

S. No.	University Roll No.	Name	Dress up (2)	Title and content relevant (4)	Presentation skills (6)	Content (4)	Query handling (4)	Total (20)
1	14EJCEC001	AAKASH MANGAL	2	3	5	3	3	16
2	14EJCEC002	AANCHAL JAIN	2	3	5	3	3	16
3	14EJCEC003	AARUSHI SINGH	2	4	4	4	4	18
4	14EJCEC004	ABHINANDAN KUMAR	2	3	4	3	3	15
5	15EJCEC200	ABHINAV SINGH CHAUDHA	2	3	5	4	3	17
6	14EJCEC005	ABHISHEK KUMAR	2	3	4	3	3	15
7	14EJCEC006	ADITYA GAUTAM	2	4	5	4	4	19
8	14EJCEC007	ADITYA SHARMA	2	4	4	4	4	18
9	14EJCEC008	AISHWARYA SHARMA	2	4	5	4	4	19
10	14EJCEC009	AJAY GUPTA	2	3	5	3	3	16

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING PROJECT-I ASSESSMENT-2 MARKS OF VII SEM ECE 2017-18

S. No.	University Roll No.	Name	Dress up (3)	Title and content relevant (6)	skills	Content (6)	Query handling (6)	Total (30)
1	14EJCEC001	AAKASH MANGAL	2	5	7	5	5	24
2	14EJCEC002	AANCHAL JAIN	3	5	7	5	5	25



Self Assessment Report

3	14EJCEC003	AARUSHI SINGH	3	5	9	5	5	27
4	14EJCEC004	ABHINANDAN KUMAR	2	5	6	5	5	23
5	15EJCEC200	ABHINAV SINGH CHAUDHA	3	5	7	5	5	25
6	14EJCEC005	ABHISHEK KUMAR	2	5	6	5	5	23
7	14EJCEC006	ADITYA GAUTAM	3	6	7	6	6	28
8	14EJCEC007	ADITYA SHARMA	3	6	7	6	6	28
9	14EJCEC008	AISHWARYA SHARMA	3	6	7	6	6	28
10	14EJCEC009	AJAY GUPTA	3	5	7	5	5	25

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING LIST OF STUDENTS OF VII SEM ECE WITH MAJOR PROJECT MARKS CRITERIA

S.NO.	University Roll No.	Name	INTERNAL (120)	EXTERNAL (80)	TOTAL (200)
1	14EJCEC001	AAKASH MANGAL	109	62	171
2	14EJCEC002	AANCHAL JAIN	112	72	184
3	14EJCEC003	AARUSHI SINGH	109	73	182
4	14EJCEC004	ABHINANDAN KUMAR	108	71	179
5	14EJCEC005	ABHISHEK KUMAR	107	69	176
6	14EJCEC006	ADITYA GAUTAM	112	74	186
7	14EJCEC007	ADITYA SHARMA	116	72	188
8	14EJCEC008	AISHWARYA SHARMA	118	76	194
9	14EJCEC009	AJAY GUPTA	108	71	179
10	14EJCEC010	AJAY SINGH NATHAWAT	114	73	187

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING EXTERNAL ASSEMENT OF MAJOR PROJECT OF VIII SEM ECE 2017-18

S. No.	University Roll No.	Name	VIVA- VOCE (20)	RUNNING CONDITION OF PROJECT (30)	REPORT (30)	Total (80)
1	14EJCEC001	AAKASH MANGAL	16	23	23	62
2	14EJCEC002	AANCHAL JAIN	18	27	27	72
3	14EJCEC003	AARUSHI SINGH	18	28	27	73
4	14EJCEC004	ABHINANDAN KUMAR	18	26	27	71
5	14EJCEC005	ABHISHEK KUMAR	17	26	26	69
6	14EJCEC006	ADITYA GAUTAM	19	27	28	74



7	14EJCEC007	ADITYA SHARMA	18	27	27	72
8	14EJCEC008	AISHWARYA SHARMA	19	28	29	76
9	14EJCEC009	AJAY GUPTA	18	26	27	71
10	14EJCEC010	AJAY SINGH NATHAWAT	18	28	27	73

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MARKS OF PRESENTATION 1 OF MAJOR PROJECT 2017-18

S. No.	University Roll No.	Name	Dress up (2)	Title and content relevant (4)	Presentation skills (6)	Content (4)	Query handling (4)	Total (20)
1.	14EJCEC001	AAKASH MANGAL	1	3	5	4	4	17
2.	14EJCEC002	AANCHAL JAIN	2	3	5	4	4	18
3.	14EJCEC003	AARUSHI SINGH	2	4	5	4	4	19
4.	14EJCEC004	ABHINANDAN KUMAR	1	3	5	4	4	17
5.	14EJCEC005	ABHISHEK KUMAR	1	3	5	4	3	16
6.	14EJCEC006	ADITYA GAUTAM	2	4	5	4	4	19
7.	14EJCEC007	ADITYA SHARMA	2	4	5	4	4	19
8.	14EJCEC008	AISHWARYA SHARMA	2	4	5	4	4	19
9.	14EJCEC009	AJAY GUPTA	1	3	5	4	4	17
10.	14EJCEC010	AJAY SINGH NATHAWAT	1	3	5	4	4	17

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MARKS OF PRESENTATION 2 OF MAJOR PROJECT 2017-18

S.NO.	University Roll No.	Name	Dress up (3)	Title and content relevant (6)	Present ation skills (9)	Content (6)	Query handling (6)	Total (30)
1.	14EJCEC001	AAKASH MANGAL	3	5	8	6	5	27
2.	14EJCEC002	AANCHAL JAIN	3	6	9	6	5	29
3.	14EJCEC003	AARUSHI SINGH	2	4	8	6	5	25
4.	14EJCEC004	ABHINANDAN KUMAR	3	5	8	6	4	26
5.	14EJCEC005	ABHISHEK KUMAR	3	5	8	6	4	26
6.	14EJCEC006	ADITYA GAUTAM	2	5	8	6	5	26
7.	14EJCEC007	ADITYA SHARMA	3	5	8	6	4	26
8.	14EJCEC008	AISHWARYA SHARMA	3	5	9	6	5	28
9.	14EJCEC009	AJAY GUPTA	2	5	8	6	5	26
10.	14EJCEC010	AJAY SINGH NATHAWAT	3	5	8	6	4	26



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MARKS OF PRESENTATION 2 OF MAJOR PROJECT 2017-18

S. No.	University Roll No.	Name	Dress up (3)	Title and content relevant (6)	Presentation skills (9)	Content (6)	Query handling (6)	Total (30)
1.	14EJCEC001	AAKASH MANGAL	3	5	8	6	5	27
2.	14EJCEC002	AANCHAL JAIN	3	6	9	6	5	29
3.	14EJCEC003	AARUSHI SINGH	2	4	8	6	5	25
4.	14EJCEC004	ABHINANDAN KUMAR	3	5	8	6	4	26
5.	14EJCEC005	ABHISHEK KUMAR	3	5	8	6	4	26
6.	14EJCEC006	ADITYA GAUTAM	2	5	8	6	5	26
7.	14EJCEC007	ADITYA SHARMA	3	5	8	6	4	26
8.	14EJCEC008	AISHWARYA SHARMA	3	5	9	6	5	28
9.	14EJCEC009	AJAY GUPTA	2	5	8	6	5	26
10.	14EJCEC010	AJAY SINGH NATHAWAT	3	5	8	6	4	26

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MARKS OF PRESENTATION 3 OF MAJOR PROJECT 2017-18

S.NO.	University Roll No.	Name	Dress up (3)	Title and content relevant (6)	Presentati on skills (9)	Content (6)	Query handling (6)	Total (30)
1.	14EJCEC001	AAKASH MANGAL	3	5	8	6	5	27
2.	14EJCEC002	AANCHAL JAIN	3	5	8	6	5	27
3.	14EJCEC003	AARUSHI SINGH	3	5	8	6	5	27
4.	14EJCEC004	ABHINANDAN KUMAR	3	5	8	6	5	27
5.	14EJCEC005	ABHISHEK KUMAR	3	5	8	6	5	27
6.	14EJCEC006	ADITYA GAUTAM	3	5	8	6	5	27
7.	14EJCEC007	ADITYA SHARMA	3	5	9	6	5	28
8.	14EJCEC008	AISHWARYA SHARMA	3	5	8	6	5	27
9.	14EJCEC009	AJAY GUPTA	3	5	8	6	5	27
10.	14EJCEC010	AJAY SINGH NATHAWAT	3	6	8	6	5	28



Department of Electronics & Communic	ation Engineering
F	

Best Projects - CAY (2017-18)

S. No.	Project Name	Name of Students	RTU Roll No.	Guide Name(s)	Tool/ Software Used	Publication / Achievement	PO/PSO Mapped
	FLOATING POINT 32-BIT	Aishwarya Sharma	14EJCEC008				PO1, PO2, PO3,
1	SINGLE PRECISION	Akanksha Gupta	14EJCEC011	Ms. Shruti Kalra, Ms.	FPGA,	Descert	PO1, PO2, PO3, PO5, PO8, PO9,
1	ADDER/SUBTRACTOR	Anmol Bhatnagar	14EJCEC024	Geetika Bhati Mathur	ModelSim	Report	PO10, PO11,
	DESIGN USING VHDL	Dushyant Marothia	14EJCEC061				PO12, PSO2
	THEFT INTIMATION OF THE	Anjali Yadav	14EJCEC021				PO1, PO2, PO3,
2	VEHICLE OVER SMS TO	Arpit Ghiya	14EJCEC034	Ms. Shruti Kalra, Ms.	Proteus, Keil	Demort	PO5, PO8, PO9,
2	OWNER WHO CAN STOP THE	Arpit Gupta	14EJCEC035	Geetika Bhati Mathur	Compiler, Embedded-C	Report	PO10, PO11,
	ENGINE REMOTELY	Ajay Gupta	14EJCEC009				PO12, PSO1
		Aditya Sharma	14EJCEC007				PO1, PO2, PO3,
3	AUTOMATIC RAILWAY	Akshay Laroiya	14EJCEC015	Ms. Ritu Vyas, Ms. Kriti Manish	Proteus, Keil Compiler,	Report	PO5, PO8, PO9,
3	GATE CONTROL SYSTEM	Bharat Kodwani	14EJCEC047	Sharda	Embedded-C	Report	PO10, PO11,
		Bhuvnesh Nagar	14EJCEC052				PO12, PSO1
		Hardik Mittal	14EJCEC067				
	HOSPITAL MANAGEMENT	Harshit Sharma	14EJCEC072	Mr. Ashutosh Sharma, Mr. Lokesh	Java, JSP, Microsoft		PO1, PO2, PO3, PO5, PO8, PO9,
4	SYSTEM	Harshwardhan Singh Gaur	14EJCEC074	Sharma	Access Database	Report	PO10, PO11, PO12
		Kripal Patidar	14EJCEC095				
		Hemant Thawani	14EJCEC075		LINUX (Redhat		PO1, PO2, PO3,
5	4S CLOUD	Himanshu Bakoliya	14EJCEC076	Mr. S. S. Manaktala, Mrs. Yazusha	7.2), Python 2	Report	PO5, PO8, PO9,
5		Kashish Jindal	14EJCEC092	Sharma	& 3, HTML 5, Ansible, Docker	nopon	PO10, PO11, PO12
		Md. Nadeem Afzal	14EJCEC112		Ausible, Dockel		1012



2.2.4 Initiatives related to Industry Interaction (15)

(Give details of the industry involvement in the program such as industry-attached laboratories, partial delivery of appropriate courses by industry experts etc. Mention the initiatives, implementation details and impact analysis)

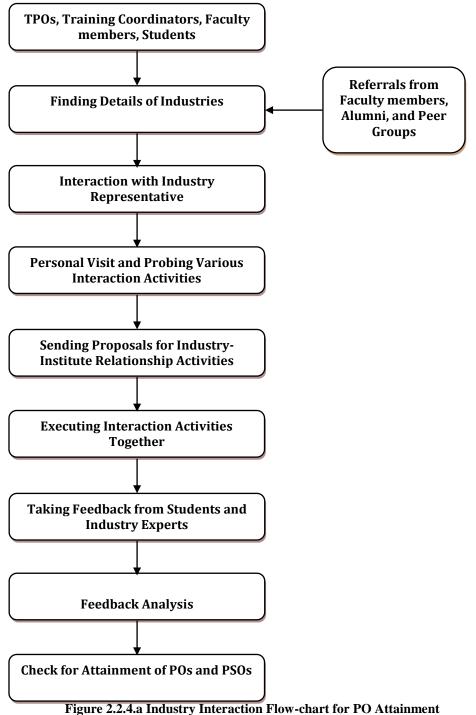


Figure 2.2.4.a Industry Interaction Flow-chart for PO Attainment

To ensure course objectives apart from traditional teaching techniques, some industry oriented following exercises are also utilized by the department:

Industry trainings and visits



- Industry Expert lectures
- Value added programs and seminars organized and participated by students

]	List of Courses/Exper	t talks by Industry Perso	nnel	
S. No.	Course/ Topic Name	Industry	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1	Open Source Innovations – Technological Convergence	Red Hat Academy	Mr. Alok Srivastava	90%	PO1, PO5
2	Mobile Controlled Robotics	TechieNest	Mr. Sidharth	25%	PO1, PO2, PO3, PO5
3	Internet of Things and Big Data	TCS	Mr. Rajit Sikka	90%	PO1, PO5
4	Project Making	EFY Tech Center	Mr Sandeep Prakash & Mr. Raghav Raj Bansal	90%	PO1, PO2, PO3, PO5

		Gap Fulfillment	through Industrial	Involvement		
S. No.	Gap	Action Taken	Date-Month Year	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1	Aptitude, Reasoning, Quantitative Analysis Skills for Placement	FACE Classes	July 20-August 14, 2016	Experts from FACE	90%	PO1, PO12
2	Project Development Skills	Embedded Workshops	February 16-17, 2016	Sourabh Bhardwaj	28%	PO3, PO5, PO9, PO11
3	Industry Applications	Industrial Visits	February 18, 2017	BSNL	29%	PO1, Po5, PO12
4	Soft and Personality Development Skills	Expert Talks	July 20-August 14, 2016	Prof. P. K. Tiwari	90%	PO8, PO10, PO12
5	Research Aptitude	Conference	August 12-13, 2016	Research Scholars	80%	PO4, PO5, PO9, PO10
6	Coding Skills	Expert Lecture	February9, 2017	Mr. Chetan Prakash	32%	PO1, PO3, PO5
7	GATE/PSU Preparation	Seminar	September 30, 2016	Mr. Rahul Singh	23%	PO1, PO12

Table 2.2.4.a Gap Fulfilment through Industry-Interaction for PO Attainment



INDUSTRY VISIT DETAILS

CA	AY 2017-18																
Ja	n 2018-June 2018 (E	ven Sem)					Ι	MPAC	CT AN	ALYSI	S						
S. No.	Name Of Company	Dates of Visit	Profile of Company	No. of Studen ts	Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	РО 7	PO 8	PO 9	PO 10	PO 11	PO 12
1	Tesca Technologies Pvt. Ltd.	17th January 2018	Electronics measurements	27 (3rd year)	 Single sourcing partner for all Educational solutions. 2) Student Interaction with real application of Electronics Engineering. 	Н	М			М						М	М
2	Genus Power Infrastructures Ltd.,	15th February 2018	Electronics	50	1) Student interacted with real application of Engineering especially in Smart Energy meters. 2) Student learned about various Techniques of Power Generation and Distribution.	М				М				М			М
3	Phillips Lightings	24th March 2018	Electronics	45	 Students understood the mechanism behind the manufacturing of lighting systems. 	М								М	М		М
4	Talent Pool	24th March 2018	Telecom, IT	45	1) Students were imparted basic knowledge of telecom strategies.	М				М				L			



CAYm1 2016-17

Ju	ly 2016-Dec 2016 (O	dd Sem)					Ι	MPAC	CT ANA	ALYSI	S						
S. No.	Name Of Company	Date of Visit	Profile of Company	No. of Studen ts	Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	РО 7	PO 8	PO 9	PO 10	РО 11	PO 12
1	Department of Telecommunicatio n (DoT), Govt. of India.	17th December 2016	Telecom (Electromag netic Emission and Telecom Towers)	5	 To let citizens be aware about plan of action of the government and TRAI. To let citizens be aware about permissible energy level of signals in India. 	Н					L					L	L

Ja	n 2017-June 2017 (E	ven Sem)					Ι	MPAC	CT ANA	ALYSI	S						
S. No.	Name Of Company	Date of Visit	Profile of Company	No. of Studen ts	Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	РО 7	PO 8	PO 9	PO 10	PO 11	PO 12
1	Regional Telecom Training Centre	18th February 2017	Telecom	55 (3rd Year)	 Student interacted with real application of Engineering especially in TELECOM Engineering. 2) Students learned about various generation of mobile communication. 	М			L	L						L	

CA	AYm2 2015-16																_
Ju	ly 2015-Dec 2015 (O	dd Sem)					Ι	МРАС	T ANA	ALYSI	S						
S. No.	Name Of Company	Date of Visit	Profile of Company	No. of Studen ts	Outcome	PO 1	PO 2	PO 3	PO 4	РО 5	PO 6	РО 7	PO 8	PO 9	PO 10	PO 11	PO 12



1	Jaybee Industries	27/10/15 to 30/10/2015	Transformer s & Stabilizers	95	 Basic knowledge of manufacturing of transformers and their usage. 	М				М				L	L		L	
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INDUSTRY INTERACTION DETAILS

CAY 2017-18

July 2017-Dec 2017 (Odd Sem)

S. No.	Name Of Company	Concerned Person Name	Person's Designation	Outcome	Profile of Company	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
1	Pulse communicati on	Mr. Deepak Madan	Marketing Manager	1) Requirement of Interns having basic knowledge of communication	Telecom	М	-	-	-	М	-	-	-	М	М	М	М
2	Sahasra electronics	Mr. Maneesh Tiwari	Manager Finance	1) Interested in training and internships.	Electronics	М	М	-	-	М	-	-	-				М
3	Barco electronics	Ms. Nirja mehta	HR	1) Requirement of students who have good academic records	Electronics	М	-	-	L	-	-	-	-				М
4	Maharshi Solar Tech. Pvt. Ltd.	Mr. Arun Mishra (VP); Mr. Surjeet Singh (Manager)	Vice President - Maharshi Group	1) Interested in training people in use of sustainable energy	Solar Energy	-	L	-	-	М	-	М	-		М	М	М

Jan 2018-June 2018 (Even Sem)

S. No.	Name Of Company	Concerned Person Name	Person's Designation	Outcome	Profile of Company	PO 1	PO 2	PO 3	PO 4	РО 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
1	Compunnel	Mr. Ankit	HR	1) Ready for technical recruitment 2)Looking for young graduates with good	Software Company	L				М				М	М		М



Self Assessment Report

				skills				Í						
2	Radiate	Mr. Snehal Kaushik	HR	1) Requirement of students with good communication skills.	E- commerce Company	L			М			М		
3	Samsung Electronics India Pvt. Ltd.	Mr. Kaushal Sharma	Deputy General Manager	1) Regular syllabus followed by the universities is essential.	Electronics & Software	М			М			М	L	
4	Ziox Mobiles	Mr. Deepak kabu	CEO	 1) Interested in recruiting ECE for telecom sector. 2) Student should be practically strong. 	Telecom	М	L		М			М	L	М
5	Impiger Technologies	Mr. Chetan Kabu	Technical Consultant	1) Requires students with logical skills. 2) Interested to come for guest lecture.	Software Company	L			L			М		
6	SaasForce	Mr. Arjun Shrestha	Senior Executive Admin	1) Was interested in students having good software knowledge.	Software Company	L			L			М		

Other Industrial Interaction through Visits by Faculties/Students

S. No.	Name of Team Members	Company Name	Concerned Person Name	Person's Designation	Location	Profile of Company
1	Anil Jain & Pravin	Algosec	Mr. Pawan Singh	Cyber security, AI Engineer	Gurgaon	Security in IT & Networking
1	Kumar Sharma	TFT	Mr. Arvind		Gurgaon	IT & Networking
		Qtech Technology	Ms. Parul Nirwan	Software Developer	Gurgaon	Software & App Development



Self Assessment Report

	British Telecom	Mr. Manish Goel	Team Leader/Manager (Networking)	Gurgaon	Networking, Telecom and service provider
	BA Continuum	Ms. Luci (HR executive), Ms. Swastika Chatterjee (HR Manager)	HR executive	Gurgaon	Bank of America Company
	Candour Soft			Gurugram	Software development and maintenance
	Compucom	Mr. Jitendra Kumar	Network Engineer	Gurugram	IT & Networking
	Samsung Electronics India Pvt. Ltd.	Mr. Kaushal Sharma	Deputy General Manager	Noida	Electronics & Software
	Concentrix	Mr. Praveen	HR Manager	Noida	Service assistance to other companies
	Smart Energy Water	Ms. Taniya Marwaha	HR Manager	Noida	Software company
	Lumata Digital			Noida	Software
	Dixon		Vice President - HRD	Noida	Electronics manufacturing and maintenance
	Maharshi Solar Tech. Pvt. Ltd.	Mr. Arun Mishra (VP); Mr. Surjeet Singh (Manager)	Vice President - Maharshi Group	Noida	Electronic and Electrical Manufacturing
	Samsung Heavy Industries			Noida	Electronic manufacturing
	Radcom	Mr. Karan Malhotra	Team Leader	New Delhi	Software and Networking Assistance
Shweta Sharda &	Compunnel	Mr. Ankit	HR	Noida	Software Company
Aapurva Kaul	Radiate	Mr. Snehal Kaushik	HR	Noida	E-commerce Company



2

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		Appinventiv	Ms. Niketa Saxena	HR Manager	Noida	Software Company
		Ziox Mobiles	Mr. Deepak kabu	CEO	New Delhi	Mobile Company
		Impiger Technologies	Mr. Chetan Kabu	Technical Consultant	Gurugram	Software Company
		SaasForce	Mr. Arjun Shrestha	Senior Executive Admin	Noida	Software Company
		Pulse Communication	Mr. Deepak Madan	Marketing Manager	New Delhi	Deals in Core embedded System & communication Devices
		Bellurbis Technology	Ms Sonal Sondhi	HR	Gurugram	Software company
3	Ashish Sharma & Anmol Bhatnagar	Cyient	Mr. Mudit Sharma	Sr. Team Leader(Technical)	Noida	Software company
		Sterlite Technologies	Ms. Heena	officer	New Delhi	Core wireless company,deals in Optical Fiber mancufacturing & installation
		Scatechnologies	Vidhi Mathur	HR	Gurugram	
		Sahasra Electronics	Mr. Maneesh Tiwari	Manager Finance	Noida	Electronics
		Barco Electronics	Ms. Nirja mehta	HR	Noida	Electronics
	Monika Gwalani,	Hi Tech			Gurugram	Robotic
4	Hardik Mittal & Harsvardhan	M V Infotech			Gurugram	IT management
		EXL			Noida	business management consultant
		Synopsis India Pvt. Ltd			Noida	software
	Prateek	Delta Electronics	Mr. Mohit Sharma	HR	Gurugram	Power Electronics, automation, infrastructure
5	Maheshwari & Vinuj Arora	Mitsubishi Electric	Miss Swati	Trainee	Gurugram	Visual imaging, power semicon, solar solutions



2.2.5 Initiatives related to Industry Internship/ Summer Training (15)

(Mention the initiatives, implementation details and impact analysis)

The student has to execute a project work preferably at industry/R&D institution. The industrial training is assessed by external and internal examiners through presentation and viva- voce.

Summer Internships Process Flow

- Issuance of internship letter to every student
- Acknowledgement by Company will be given through a letter of summer training to college(department)
- *Tracking of Company Profile* is done by department after Approval by company and if found satisfactory, then only the students are allowed to pursue their training from that company
- Issue of Approval Letter to the student for summer training
- *Internship* starts after VI semester exams are over
- Issue of Certificate/Evaluation Letter by the company for successful completion to trainee student
- Collection of Training Certificate's Photocopy is done by the department
- Feedback from Company representative is collected through mail
- Thanks Letter to company and invite to conduct placement drive
- Presentation in next semester is scheduled for the students by the department along with Report Submission
- *Final evaluation* is done after power point presentation and training report submission



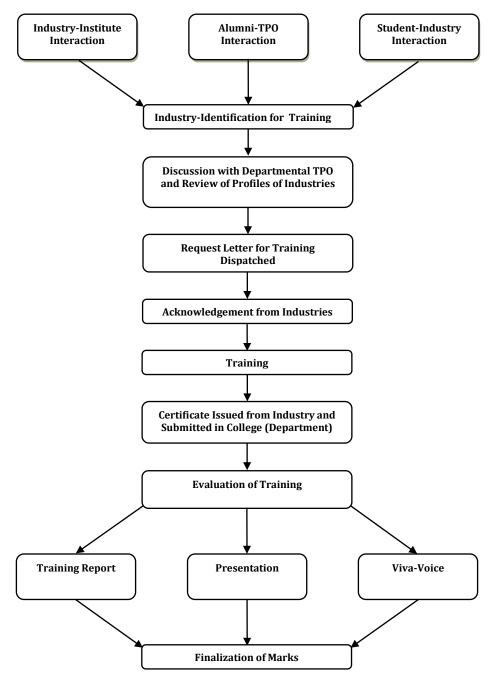


Figure 2.2.5.a Process of Evaluation of Training/Internship



Self Assessment Report

	Anterinde frigram
indexi Rame and Signature	Practice Sirrya
Newskie Institute/ Site Name	Jechnemical pure isd
interests Internating Reportation	and the second se
stantauhip Mart and Coul date	Mr. Liddharth Singh
fumiliar of Hours of Internation	from 14 May 2911 to 30 Tovic 2011 Arrivet: 1240 auto 12 100 pres week
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Bulk	Practical training to English during summer viso		ients at KS	TPS Training Centre,	
Dear Str.	Falls, carring surrout rate				
conteger /vield concern stud	request for imparting Pra- lution task teen accepted sense for joining their bain parted their namest.	t, you are th	iemétaie adv	danit to convey to the	
1.5.90 1.4	area of student (Mr.Ma.)	Branch	Ter	Periel	
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8133 DV	rag tumpura	DOE.	3rd year 3rd year	- 58.05.18 to 58.07.18	
B13H Ay	ush Agerwal	66	Snd year	-06.05.18 to 06.07.18	
1213/5 DPv	anu Prakosti Dugla	ME	248 7446	08.05.18 to 06.07.18	
8134 On 8137 De	andra Prataleh Pulasari. ogan Mittal	M	2nd year 2nd year	06.05.18 to 06.07.18 06.05.18 to 06.07.18	
813/8 Not	Pri Dhakkil	M	3rd year	28 05 18 to 05 07 18	
813/0 Da 813/10 Bh	yara Hathi	ME	310 year	05.05.18 to 26.07.18	
BISTO BI	ertu Khandelwel eittar Joets	16	2nd ymei 2nd ywer	28.00.18 to 28.07.18 28.05.18 to 26.07.18	
813/12 8#	nate Sharma	114	3r0 year	DE 05 18 to 06.07.18 DE 05 18 to 06.07.18	
LETITE LAG	of Mumar Julii	11	3+0 year	DB.05.19 TR to 08.07 TR	
B15/15 Ku	rad Bris desp Jain	HAC -	3rd Year 3rd Year	06.05 18 to 06.07 18 06.05 18 to 06.07 18	
W1.5/10 Hu	rsh Prakasi Singh Chu	121	- 3rd Year	- DE-DS-18 to DE-D7-18	
1111717 Au	Pa Mara	100	3rd year	06.00 18 to 06.07 18 06.05 19 to 06.07 18	
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			3rd year 3rd year	08.05.18 to 09.07 18 08.05.18 to 09.07 18	
B15/21 Ta	NET Gald	14	3rd year	DR-00.18 to D6.07.18	
THINK AND	ka Nagar Ineshi Chavilna		Set year Set year	26.05 18 to 06.07 18 26.05 18 to 06.07 18	
714	e thereing programme will-	commence at	COTPS In	res 54, 65, 18 to 58, 67, 18	
photographs photographs period of trail	5 COPIN (The candidate a hand Mac.6, HOTPS, 2010,M The abadents will keep t rang and absise by the rule raible for any minima, if or	Note, plong train college re of KSTPS	with two No identity card & CISF Unit	a latest painport size I with them during the L of Plant. KSTPS will	
			15	朱上	
			(88.3		
		Execu	mve Enginer	er (Trassurg)	
			UTPS, RVU	IN KUTA	
tter of	f summer I	ntern	ship		

S. No.	University Roll No.	Name	Summer Training Organization	Place	Duration	РО	PSO
1	14EJCEC001	AAKASH MANGAL	Technoglobe Institute	Suratgarh	45 Days	1,2,3,4,5,6,7,9,10	1
2	14EJCEC002	AANCHAL JAIN	Airport Authority Of India	jaipur	60 days	1,5,6,7,8,9,10	
3	14EJCEC003	AARUSHI SINGH	Genx Soft Technologies (p) Ltd.	jaipur	60 days	1,5,6,7,8,9,10	2
4	14EJCEC004	ABHINANDAN KUMAR	North Western INDIAN Railway	Jaipur	45 Days	1,5,6,7,8,9,10	
5	14EJCEC005	ABHISHEK KUMAR	Cognus technology, jaipur	jaipur	45days	1,5,6,7,8,9,10	2
6	14EJCEC006	ADITYA GAUTAM	Econnect Solutions Pvt. Ltd.	Jaipur	60 days	1,5,6,7,8,9,10	2
7	14EJCEC007	ADITYA SHARMA	North Western INDIAN Railway	Jaipur	45 Days	1,5,6,7,8,9,10	
8	14EJCEC008	AISHWARYA SHARMA	CSIR CEERI, Pilani	Jaipur	45 Days	1,5,6,7,8,9,10	
9	14EJCEC009	AJAY GUPTA	IL&FS Technologies Ltd., Jaipur	Jaipur	45 days	1,5,6,7,8,9,10	2
10	14EJCEC010	AJAY SINGH NATHAWAT	Rajcomp	jaipur	45 days	1,5,6,7,8,9,10	
11	14EJCEC011	AKANKSHA GUPTA	Technoglobe Institute	Jaipur	45 Days	1,2,3,4,5,6,7,9,10	1
12	14EJCEC012	AKANKSHA SINGHAL	North Western INDIAN Railway	Jaipur	45 Days	1,5,6,7,8,9,10	
13	14EJCEC015	AKSHAY LAROIYA	Suratgarh super thermal power station	jaipur	45 days	1,5,6,7,8,9,10	1
14	14EJCEC016	ALOK KUMAR	C-DAC ATC NETCOM	Jaipur	45 days	1,2,3,4,5,6,7,9,10	
15	14EJCEC017	AMIT KUMAR	North Western INDIAN Railway	Jaipur	45 Days	1,5,6,7,8,9,10	
16	14EJCEC018	AMIT KUMAR	voltaic power system pvt. Ltd.	Jaipur	45 Days	1,5,6,7,8,9,10	
17	14EJCEC019	AMIT KUMAR SHARMA	North Western INDIAN Railway	jaipur	60 days	1,5,6,7,8,9,10	
18	14EJCEC020	ANADI VATSA	Aptron Solution Private Ltd	Gurugram	45 days	1,5,6,7,8,9,10	

Sample of Summer Training Record - CAY (2017-18)

 Table 2.2.5.a Sample of Summer Training taken by Students



Self Assessment Report

CRITERION 3Course Outcomes and Program Outcomes

120

3. COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and

Program Specific Outcomes (PSOs) (20)

(Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the

Program)

PROGRAM OUTCOMES:

- **PO1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and Electronics & Communication Engineering specialization to the solution of complex Electronics & Communication Engineering problems.
- **PO2. Problem analysis:** Identify, formulate, research literature, and analyze complex Electronics & Communication Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3.** Design/development of solutions: Design solutions for complex Electronics & Communication Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of Electronics & Communication Engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern electronic engineering and IT tools including prediction and modeling to complex Electronics & Communication Engineering activities with an understanding of the limitations.
- **PO6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Electronics & Communication Engineering practice.
- **PO7. Environment and sustainability:** Understand the impact of the professional Electronics & Communication Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Electronics & Communication Engineering practice.
- **PO9. Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10. Communication**: Communicate effectively on complex Electronics & Communication Engineering activities with the engineering community and with society at large, such as,



being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

- **PO11. Project management and finance**: Demonstrate knowledge and understanding of the Electronics & Communication Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12. Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of Electronics & Communication Engineering changes.

(Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program)

Program)

PSO1	Ability to apply the concepts of Embedded Systems and its applications.
PSO2	Ability to apply Field Programmable Gate Array based applications.

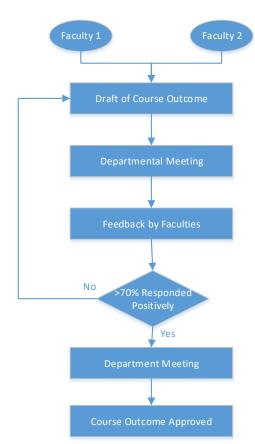


Figure 3.1 Process of making course outcomes



Self Assessment Report

3.1.1 Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and make available as evidence, if asked) (05)

- 1. The instructor is expected to go through the preface of the reference book and the text book that describes the authors' point of view of the outcome of the text material as prescribed.
- As the course outcome need not vary from instructor to instructor thus a presentation and discussion of the course outcomes is necessary among the faculty members of the department before finalization of the course outcomes and the mapping of the same with the Program outcomes.

Course Name: Ciii Year of Study: YYYY-YY; for ex. C202 Year of study 2013-14

(Course Name: Digital System Design	3EC4-04	Course Year:	2018-2019			
CO1	Develop the understanding of numbe	Develop the understanding of number system and its application in digital electronics.					
CO2	CO2 Development and analysis of K-map to solve the Boolean function to the simplest form for the implementation of compact digital circuits.						
CO3	Design various combinational and sequential circuits using various metrics: switching speed, throughput/latency, gate count and area, energy dissipation and power.						
CO4	D4 Understanding Interfacing between digital circuits and analog component using Analog to Digital Converter (ADC), Digital to Analog Converter (DAC) etc.						
CO5	D5 Design and implement semiconductor memories, programmable logic devices (PLDs) and fie programmable gate arrays (FPGA) in digital electronics			es (PLDs) and field			

Cou	Course Name: Analog Electronics		Course Year:	2017-2018		
4EC4.1	4EC4.1 CO1: Understanding concept of feedback and its application in oscillators and amplifiers.					
4EC4.2 CO2: Analyzing circuits using equivalent models.		1				
4EC4.3 CO3: Understanding the concepts of Schmitt trigger and 555 timer.						
4EC4.4	4EC4.4 CO4: Understanding the concepts of tuned amplifiers.					
4EC4.5	4EC4.5 CO5: Understanding power amplifiers and its classification.					

	Course Name: Telecommunication Engg.		5EC3A	Course Year:	2017-2018
_					
	5EC3.1 CO1: Understanding various elements of transmission lines				
	5EC3.2 CO2: Analyzing transmission line parameters and its applications				



5EC3.3	CO3: Understanding the design of Attenuators and Filters for Transmission lines and Analyzing their effects
5EC3.4	CO4: Analyzing various switching and signalling techniques used in Telephony
5EC3.5	CO5: Applying the concepts of telecommunications in mobile communications

Course Name: Microwave EnggII	6EC1A	Course Year:	2017-2018
-------------------------------	-------	--------------	-----------

6EC1.1	CO1: Analyzing the operation and characteristics of microwave diodes.
6EC1.2	CO2: Analyzing klystrons, magnetrons etc. for microwave generation and amplification
6EC1.3	CO3: Analyzing geometry and characterstics of microwave transistors.
6EC1.4	CO4: Analyzing travelling wave tube amplifier.
6EC1.5	CO5: Understanding applications of smart antenna.

Course Name: Antenna and Wave Propagation7EC1ACourse Year:2017-2018

7EC1.1	CO1: Understanding the basic skills required for designing a wide variety of practical antennas
	and antenna arrays.
7EC1.2	CO2: Understanding various types of antennas.
7EC1.3	CO3: Analyzing the propagation of the wave in different atmospheric medium, ionosphere,
	troposphere propagation
7EC1.4	CO4: Creating and analyzing the defects introduced in the structures.

Course Name: Radar and TV Technology	8EC2A	Course Year:	2017-2018

8EC2.1	CO1: Understanding the characteristics and applications of radar.
8EC2.2	CO2: Analyzing the architecture and features of television.
8EC2.3	CO3: Analyzing processing and transmission of TV signals.
8EC2.4	CO4: Analyzing different types of TV.
8EC2.5	CO5: Understanding the real life applications of RADAR systems.

3.1.2. CO-PO matrices of courses selected in **3.1.1** (six matrices to be mentioned; one per semester from 3rd to 8th semester) (05)

Note : Enter correlation level s1, 2 or 3 as defined below : 1 : Slight(Low) 2 : Moderate(Medium) 3 : Substantial(High) If there is no correlation, put 1

	Digital System Design (3EC4-04)											
Pos	1	2	2	1	5	6	7	Q	0	10	11	12
Cos	L	2	3	4	2	U	7	0	9	10	11	14



Self Assessment Report

1	3	2	2	1	-	1	-	-	-	-	-	-
2	3	2	3	2	-	-	-	-	-	-	-	-
3	2	2	3	1	1	-	-	-	-	-	-	-
4	3	2	1	1	1	-	-	-	-	-	-	-
5	2	1	3	1	1	-	-	-	-	-	-	-

				Analog	Electro	onics (4	EC1A)					
POs COs	1	2	3	4	5	6	7	8	9	10	11	12
1	2	2	-	1	-	-	-	-	-	-	-	-
2	1	2	-	2	-	-	-	-	-	-	-	1
3	2	-	-	-	-	-	-	-	-	-	-	-
4	2	2	-	-	-	-	-	-	-	-	-	-
5	2	2	-	-	-	-	-	-	-	-	-	-
			Tele	communi	cation F	Engine	ering (5E	C3A)				-
POs COs	1	2	3	4	5	6	7	8	9	10	11	12
1	3	1	1	1	-	1	1	-	-	-	-	2
2	3	1	1	1	-	1	1	-	-	-	-	2
3	3	1	1	1	-	1	1	-	-	-	-	2
4	3	1	1	1	-	1	1	-	-	-	-	2
5	3	2	1	1	-	2	1	-	1	1	1	3

	Microwave Engg. II (6EC1A)												
POs COs	1	2	3	4	5	6	7	8	9	10	11	12	
1	3	2	-	-	-	-	-	-	-	-	-	-	
2	3	2	-	1	-	-	-	-	-	-	-	-	
3	2	3	3	-	3	1	-	-	-	-	-	-	
4	2	3	3	1	-	-	-	-	-	-	-	-	
5	2	3	3	-	-	-	-	-	-	-	-	-	

	Antenna & Wave Propagation (7EC1A)												
POs COs	1	2	3	4	5	6	7	8	9	10	11	12	
1	3	2	2	2	3	2	2	-	2	2	2	2	
2	3	-	2	-	-	3	3	-	-	-	-	2	
3	3	2	2	2	3	2	2	-	2	2	2	2	
4	3	2	2	2	3	2	2	-	2	2	2	2	
5	3	2	2	2	3	2	2	-	2	2	2	2	



Self Assessment Report

	Radar & TV Engineering (8EC2A)												
POs COs	1	2	3	4	5	6	7	8	9	10	11	12	
1	2	1	1	1	-	2	1	-	-	-	-	2	
2	2	1	1	1	-	2	1	-	-	-	-	2	
3	2	1	1	1	-	2	1	-	-	-	-	2	
4	2	1	1	1	-	2	1	-	-	-	-	2	
5	2	1	1	1	-	2	1	-	-	-	-	2	

CO- PSO Mapping

	Digital System Design (3EC4	
СО	PSO1	PSO2
1	1	-
2	2	2
3	-	3
4	-	3
5	-	3
	Analog Electronics (4EC1A)
CO	PSO1	PSO2
1	2	-
2	1	-
3	1	-
4	1	-
	Linear Integrated Circuits (5E)	C2A)
CO	PSO1	PSO2
1	2	-
2	2	-
3	2	-
4	1	-
5	-	-
	Microprocessors (6EC2A)	1
CO	PSO1	PSO2
1	2	



2	2	-
3	2	-
4	2	-
	VHDL (7EC6.3)	
СО	PSO1	PSO2
1	-	-
2	-	2
3	-	2
4	-	-
Micro	controller and Embedded Systems	s (8EC4.3A)
СО	PSO1	PSO2
1	2	-
2	2	-
3	2	-
4	2	-

3.1.3 A Program level Course PO matrix of all courses INCLUDING first year courses (10) Before proceeding please click on Edit to fetch the data. Note : Enter correlation levels 1, 2 or 3 as defined below : 1 : Slight(Low) 2 : Moderate(Medium) 3 : Substantial(High) If there is no correlation, put-

POs COURSE	1	2	3	4	5	6	7	8	9	10	11	12
MA-101	3	3	-	-	-	-	-	-	-	1	-	1
HU-101	-	1	2	-	-	1	-	-	3	3	-	1
PY-101	2	1	1	-	-	0.33	-	-	1	1	-	1
CY-101	2	1	0.5	0.5	-	0.25	0.5	-	-	0.25	-	-
CS-101	2.75	1.75	1.5	1.75	1.5	1.25	1	-	-	1.25	-	2.5
CE-101	2	0.75	1	0.5	-	1.75	1.75	1.25	1.5	0.5	-	1
MA-102	3	3	-	-	-	-	-	-	-	1	-	1
HU-101	-	1	2	-	-	1	-	-	3	3	-	1
HU-103	-	-	2	-	-	3	2	3	2	1	-	1
CY-101	2	1	0.5	0.5	-	0.25	0.5	-	-	0.25	-	-
CS-103	2.25	1.75	1.5	2.25	2	1.75	2	-	-	2	-	1.75
CE-103	1.5	1	0.5	-	-	0.25	0.5	0.25	0.75	0.25	0.5	0.25
3EC2-01	2.67	2	1	-	1	-	-	-	-	-	-	-
3EC1-02	1.67	2	-	1.33	2	-	-	-	-	-	-	-
3EC4-04	2.6	1.8	2.4	1.2	1	1	-	-	-	-	-	-
3EC4-05	3	2	2	2.6	1.75	-	-	1.33	-	-	-	1.75
3EC4-06	2.6	2.6	2	2.25	2	-	-	-	-	-	-	1



2004.05	2.0	1.0	1	1.00	1	1.00	2					2
3EC4-07	2.8	1.2	1	1.66	1	1.33	2	-	-	-	-	2
4EC1A	2	2	-	1.5	-	-	-	-	-	-	-	1
4EC2A	3	2.67	2.33	2	3	1	-	-	-	1.67	2	3
4EC3A	2	2	1	1.33	-	-	-	-	-	-	-	1
4EC4A	2.25	2	1	1.5	1	1.33	1.5	-	1	1	1	2
4EC5A	2	1.67	1	1	-	-	-	-	1	-	-	1
4EC6A	2	1.33	1	1	-	-	-	-	-	-	-	1
5EC1A	3	2.2	1.6	2	1.33	-	-	-	-	-	-	1.4
5EC2A	3	1.8	1.8	1.4	-	1	1	-	1	-	1	1
5EC3A	3	2	2	-	-	1.2	1	-	1	1	1	2.2
5EC4A	3	2	1.6	1.33	1	1.8	1.4	-	0.8	-	0.8	1
5EC5A	3	1.6	2.5	2	2	2	2	-	-	-	-	-
5EC6.3A	1.67	1	1	-	-	1	-	-	-	-	1	2
6EC1A	2.67	2.33	1	0.33	1	0.33	-	-	-	-	-	-
6EC2A	2.5	2	2.5	2.5	2	0.5	-	-	-	-	1.5	1.5
6EC3A	2	0.67	1.33	-	-	-	-	-	-	-	0.33	1.67
6EC4A	2.33	2	0.33	1.33	-	-	0.33	-	-	-	0.33	0.33
6EC5A	2.67	2.33	0.33	-	0.33	-	-	-	-	0.33	-	0.33
6EC6.3A	2	0.67	0.33	-	0.33	0.67	0.67	-	-	-	-	1
7EC1A	3	2.25	2	2	3	2.6	2.6	-	1.67	1.67	1.67	1.6
7EC2A	2.4	2.2	2.2	1.8	1.25	1	-	-	1	1	1.67	2
7EC3A	2.67	1.33	1.33	1	1.5	2	-	-	1	1	1	2
7EC4A	2	1	1.5	1	1	1.25	1	-	1	1	1	1.75
7EC5A	3	2	2.2	2.2	2.75	-	2	-	-	-	-	2
7EC6.3A	3	2	-	2	3	-	-	-	1	-	2	2
8EC1A	3	2.33	1.67	-	-	3	1.67	-	-	-	-	2.33
8EC2A	2	1	1	1	-	2	1	-	-	-	-	2
8EC3A	3	2.5	2	2.33	-	2	2	-	2	2	2	2.33
8EC4.3A	2.67	1.67	1.33	1	1.67	2	1	-	1	1.33	2	1.33

	PSO1	PSO2
3EC2-01	-	-
3EC1-03	-	-
3EC4-04	1.5	2.75
3EC4-05	-	-
3EC4-06	1.5	-
3EC4-07	2.75	2
4EC1A	1.25	-
4EC2A	-	-
4EC3A	-	-
4EC4A	-	-
4EC5A	-	-
4EC6A	-	-
5EC1A	-	-
5EC2A	1	-
5EC3A	-	-
5EC4A	-	-



5EC5A	-	-
5EC6.1A	-	-
6EC1A	-	-
6EC2A	3	-
6EC3A	1	-
6EC4A	1	-
6EC5A	-	-
6EC6.3A	-	-
7EC1A	-	-
7EC2A	-	-
7EC3A	-	-
7EC4A	-	-
7EC5A	-	1.67
7EC6.3A	-	2
8EC1A	-	-
8EC2A	-	-
8EC3A	3	-
8EC4.3A	2	-

3.2 Attainment of Course Outcomes (50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

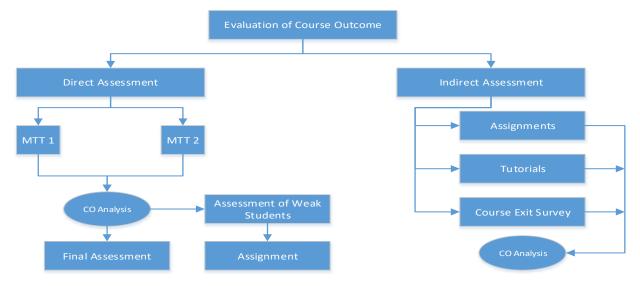


Figure 3.2 Process required for assessment

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

The table mentioned below shows the percentage of students attained the target of 60% marks

Sample Course Outcome Analysis (2015-2016)									
3EC1A	EDC	67.89%	46.33%	62.84%	63.30%	NA			



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3EC2A	DSA	51.38%	35.78%	56.88%	44.95%	NA
3EC3A	DE	52.29%	43.12%	63.30%	49.54%	NA
3EC4A	CAS	33.49%	23.85%	75.69%	74.77%	NA
3EC5A	EPM	41.74%	44.04%	51.83%	43.12%	NA
3EC6A	AEM 1	47.25%	41.74%	63.30%	58.72%	NA
4EC1A	AE	59.09%	58.64%	58.64%	53.64%	NA
4EC2A	RVSP	59.55%	45.91%	45.00%	30.91%	NA
4EC3A	EMI	63.18%	47.73%	66.82%	49.09%	17.27%
4EC4A	EMFT	45.37%	21.15%	37.89%	27.31%	60.35%
4EC5A	ОТ	70.91%	57.27%	49.55%	45.45%	NA
4EC6A	AEM 2	40.83%	25.23%	50.92%	33.94%	NA
5EC1A	SS	69.13%	47.39%	45.22%	61.30%	NA
5EC2A	LIC	19.57%	60.43%	61.74%	66.96%	NA
5EC3A	TE	54.78%	39.57%	67.39%	69.57%	NA
5EC4A	AC	28.70%	30.43%	38.70%	46.09%	NA
5EC5A	MW 1	43.04%	28.26%	56.96%	54.35%	NA
5EC6.1A	BMI	54.78%	37.39%	53.91%	51.74%	72.40%
6EC1A	MW-2	66.09%	70.87%	65.65%	70.87%	24.35%
6EC2A	MP	67.39%	74.35%	70.87%	80.43%	NA
6EC3A	IE	70.00%	50.43%	55.22%	56.52%	NA
6EC4A	DC	63.48%	52.61%	72.17%	60.43%	12.61%
6EC5A	CS	70.43%	55.65%	64.35%	49.57%	NA
6EC6.3A	OFC	82.17%	69.13%	76.96%	68.70%	NA
7EC1A	AWP	56.83%	63.47%	63.84%	66.05%	NA
7EC2A	DSP	64.64%	78.57%	70.71%	67.50%	NA
7EC3A	DIP	77.50%	49.64%	46.07%	54.64%	NA
7EC4A	WC	70.36%	71.07%	77.50%	67.50%	NA
7EC5A	VLSI	38.01%	30.63%	61.25%	60.89%	NA
7EC6.3A	VHDL	71.96%	73.43%	59.41%	61.99%	NA
8EC1A	ICT	33.95%	33.58%	73.43%	73.43%	61.25%
8EC2A	RTV	72.69%	56.83%	67.53%	64.58%	NA
8EC3A	MEMS	63.84%	53.51%	50.55%	60.15%	61.25%
8EC4.3A	MES	70.48%	62.73%	88.19%	82.66%	64.58%

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1 Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)



(Describe the assessment tools and processes used together the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

PO's	Skill to be demonstrated	Assessment tools
PO1	Engineering knowledge	 MTT result, RTU result, Project Mentoring, Core, Soft skill, Higher studies Technical Event, Conference/Workshop, Social Activity
PO2	Problem analysis	 Course exit, Student exit Project, Lab/Experiment Core, Soft skill, Higher studies Technical Event, Conference/Workshop, E-Resources, Industrial Visit
PO3	Design/development of solutions	 Student exit, Alumni, Faculty Project, Lab/Experiment, Industrial training Core, Soft skill, Higher studies Technical Event, Conference/Workshop, Social Activity, Industrial Visit Student exit, Alumni, Employer/Parents
PO4	Conduct investigations of complex problems	 Student exit, Aumini, Employet/Fatents Project, Lab/Experiment, Industrial training Core, Soft skill, Higher studies, PSU/GATE Technical Event, Social Activity, E-Resources, Industrial Visit Student exit, Alumni, Faculty
PO5	Modern tool usage	 RTU result, Project, Lab/Experiment, Industrial training Core, Mentoring, Soft skill, Higher studies, PSU/GATE Technical Event, Conference/Workshop, E-Resources, Social Activity Course exit, Student exit, Employer/Parents
PO6	The engineer and society	 Project, Lab/Experiment, Industrial training Core, Mentoring, PSU/GATE Technical Event, Conference/Workshop, E-Resources, Social Activity, Industrial Visit Course exit, Alumni, Employer/Parents
PO7	Environment and sustainability	 RTU result, Project, Lab/Experiment, Industrial training Core, Mentoring, Soft skill, Higher studies Technical Event, Conference/Workshop, Social Activity, Industrial Visit Course exit, Alumni
PO8	Ethics	 Project, Lab/Experiment, Industrial training Core, Mentoring, Soft skill Technical Event, Conference/Workshop, E-Resources, Social Activity, Industrial Visit Course exit, Alumni, Faculty, Employer/Parents
PO9	Individual and team work	 Project, Lab/Experiment, Industrial training Core, Mentoring, Higher studies, PSU/GATE Technical Event, Conference/Workshop, Social Activity, Industrial Visit Course exit, Alumni
PO10	Communication	 Project, Lab/Experiment, Industrial training Core, Mentoring, Soft skill, Higher studies, PSU/GATE Technical Event, Conference/Workshop, Social Activity,



		Industrial Visit Alumni, Faculty, Employer/Parents
PO11	Project management and finance	 Project, Lab/Experiment, Industrial training Core, Mentoring, Soft skill, Higher studies, PSU/GATE
		 Technical Event, Conference/Workshop, Social Activity Course exit, Alumni, Faculty, Employer/Parents
PO12	Life-long learning	 RTU result, Project, Lab/Experiment, Industrial training Core, Mentoring, Soft skill, Higher studies, PSU/GATE Technical Event, Conference/Workshop, Social Activity, Industrial Visit Course exit, Student exit, Alumni, Faculty

3.3.2 Provide results of evaluation of PO&PSO (40)

Program shall set Program Outcome attainment levels for all Pos.

(The attainment levels by direct (student performance) and indirect(surveys) are to be presented through

Program level Course – PO & PSO matrix as indicated).

Instructions 1. Please Enter PO and PSO between 0 to 3. Fractional values are acceptable.

- 2. You can leave the fields (PO and PSO) blank.
- 3. Blank and 0 will not be participated in the calculation

Tools for PO Attainment

	Engineering knowledge: App	Program ly the know	Outcon vledge	ronics & Communication Engineering nes Target Description (2015-16) of mathematics, science, engineering fundamentals, a e solution of complex Electronics & Communication problems.	
Tool	Tools	Mappin g	Mar ks	Rubric	Marks Obtained
				70% students >65% marks=>100% marks	
				70% students >60% marks=>80%	
	MTT Result	Н	3	60% students >65% marks=>60%	3
ıt				60% students >60% marks=>50%	
Academic Assessment				Else =>20% marks	
sess				70% students >65% marks=>100% marks	
c As				70% students >60% marks=>80%	
emi	Final RTU Result	L	1	60% students >65% marks=>60%	0.2
Acad				60% students >60% marks=>50%	
Ą				Else=> 20% marks	
				Distribution as per rule =>20% marks	
	Project	М	2	Continuous assessment $-1 =>20\%$	2
				Continuous assessment -2 =>20%	



				Internal assessment -1 =>20%	
				External assessment -1 =>20%	
				Else 0 marks	
				70% students >65% marks=>100% marks	
				70% students >60% marks=>80%	
	Lab/Experiments	М	2	60% students >65% marks=>60%	2
				60% students >60% marks=>50%	
				Else=> 20% marks	
				>=80% students visited =>100% marks	
				>=70% students visited=>80%	
	Industrial training	L	1	>=60% students visited =>60%	1
				>=50% students visited =>50%	
				Else=> 20% marks	
				>=80% students placed=>100% marks	
	Einel Die eed Street eth	TT	2	>=70% students placed=>80%	0.6
	Final Placed Strength	Н	3	>=60% students placed=>60%	0.6
				Else=>20%	
	Mentoring	Н		>=80% students Mentored=>100% marks	
			3	>=70% students Mentored=>80%	3
				>=60% students Mentored=>60%	5
				Else=>20%	
It				>=80% students Participated=>100% marks	
Placement	Softskill	М	2	>=70% students Participated=>80%	2
lace	SORSKII	111	2	>=60% students Participated=>60%	2
ц				Else=>20%	
				>=50% students Enrolled=>100% marks	
	Higher Studies	L	1	>=40% students Enrolled=>80%	0.2
	Tinglier Studies	L	1	>=30% students Enrolled=>60%	0.2
				Else=>20%	
				>=50% students Qualified =>100% marks	
	PSU/GATE	L	1	>=40% students Qualified=>80%	0.2
	ISU/GAIL	L	1	>=30% students Qualified=>60%	0.2
				Else=>20%	
				>=80% students participated=>100% marks	
Beyond Curriculum	Technical Events	Н	3	>=70% students participated=>80%	1.8
leyo ricu	r comincar Events	11	3	>=60% students participated=>60%	1.0
Cur B				Else=>20%	
	Conference/Workshops	Н	3	>=50% students participated=>100% marks	1.8



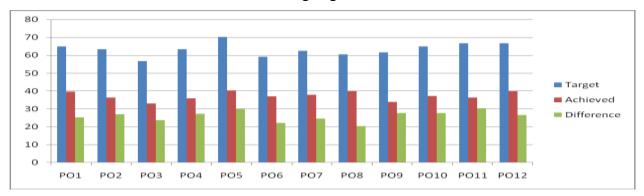
				>=40% students participated=>80%	
				>=30% students participated=>60%	
				Else=>20%	
				>=80% students Participated=>100% marks	
	Social Events/Extra			>=70% students participated=>80%	0.6
	Activity	Н	3	>=60% students participated=>60%	
				Else=>20%	
				>=50% students participated=>100% marks	
				>=40% students participated=>80%	
	E-Resources	М	2	>=30% students participated=>60%	0.4
				Else=>20%	
				>=50% students participated=>100% marks	
				>=40% students participated=>80%	
	Industrial visit	L	1	>=30% students participated=>60%	0.2
				Else=>20%	
			1	>=50% Students responded High=>100% marks	
		L		>=40% Students responded High=>80%	
	Course Exit			>=30% students responded High=>60%	1
				Else=>20%	
			3	>=50% Students responded High=>100% marks	
				>=40% Students responded High=>80%	
	Program Exit	Н		>=30% students responded High=>60%	2.4
				Else=>20%	
				>=50% Alumni responded High=>100% marks	
Feedback				>=40% Alumni responded High=>80%	
eedb	Alumni	L	1	>=30% Alumni responded High=>60%	0.2
Ľ,				Else=>20%	
				>=50% Faculty responded High=>100% marks	
				>=40% Faculty responded High=>80%	_
	Faculty	М	2	>=30% Faculty responded High=>60%	2
				Else=>20%	
				>=50% responded High=>100% marks	
	Parents/Professional	-		>=40% responded High=>80%	0.5
	Bodies/ Industry Person/ Management person	L	1	>=30% responded Hiigh=>60%	0.2
	inunagement person			Else=>20%	
		60	39	65.00%	24.8

Target = 65.00%

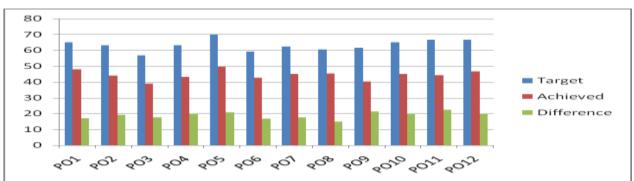
Achieved = 41.33%



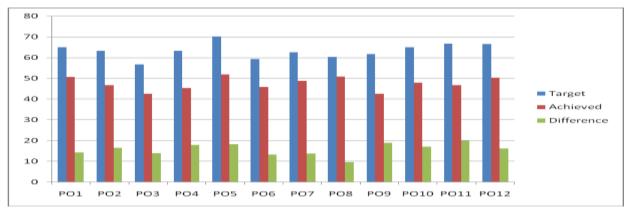
Note: Sample rubric for assessment of PO1 is defined above and similarly the rubric for assessment of other PO's is considered with different weightage.



Attainment of Program Outcomes 2015-16



Attainment of Program Outcome 2016-17



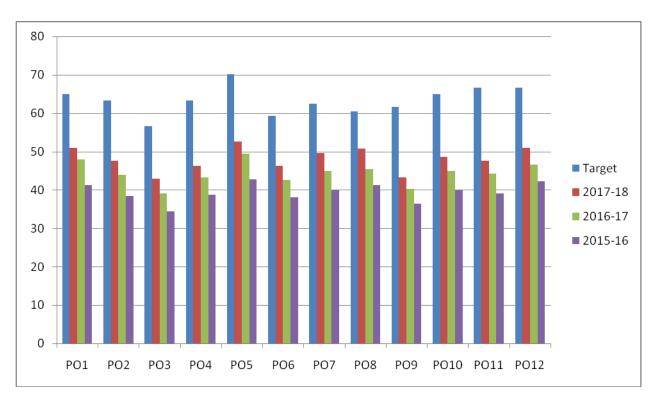
Attainment of Program Outcomes 2017-18

Comparative Analysis of PO attainment							
PO's	Target	2017-18	2016-17	2015-16			
PO1	65	51	48	41.33			



Self Assessment Report

PO2	63.3	47.67	44	38.33
PO3	56.67	43	39	34.33
PO4	63.33	46.33	43.33	38.67
PO5	70.18	52.63	49.47	42.81
PO6	59.26	46.3	42.59	38.15
PO7	62.5	49.58	45	40
PO8	60.42	50.83	45.42	41.25
PO9	61.67	43.33	40.33	36.33
PO10	65	48.67	45	40
PO11	66.67	47.67	44.33	39
PO12	66.6	51	46.67	42.33



Comparative Analysis of PO attainment

Attainment of PSO's

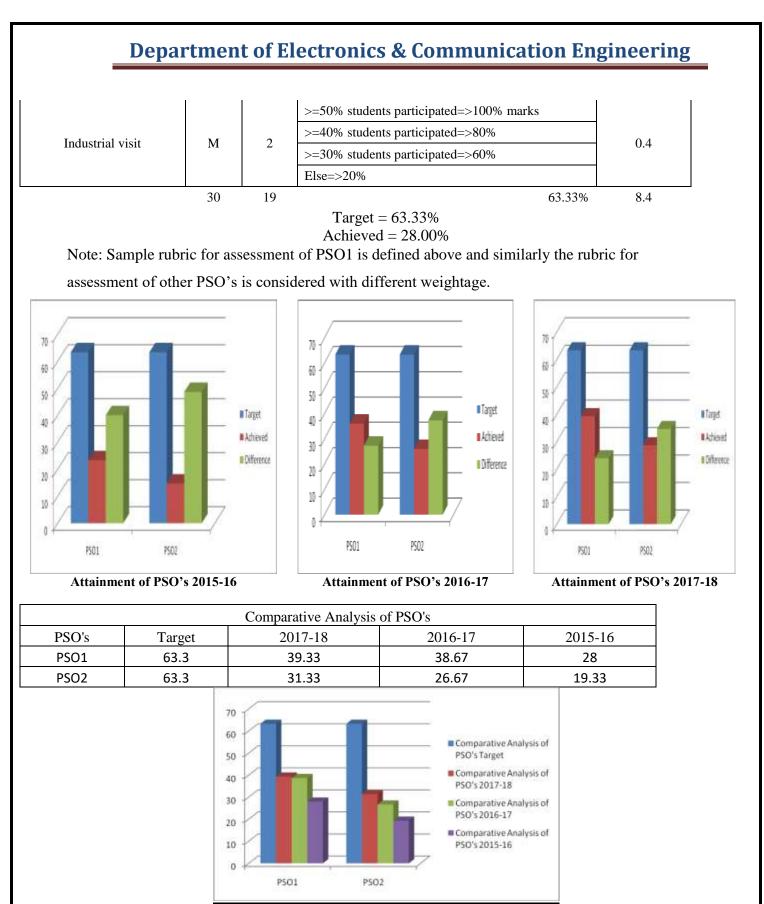
Department of Electronics & Communication Engineering Program Specific Outcome Target Description (2015-16) PSO 1: Ability to apply the concepts of Embedded Systems and its applications.



Self Assessment Report

Tools	Mappin g	Marks	Rubric	Marks Obtained	
In House Training		3	>=50% students Participated=>100% marks	0.6	
	п		>=40% students Participated=>80%		
	Н		>=30% students Participated=>60%		
			Else=>20%		
Project	Н	2	>=50% students Participated=>100% marks		
			>=40% students Participated=>80%	1.2	
			>=30% students Participated=>60%	1.2	
			Else=>20%		
		1	>=50% students Participated=>100% marks		
Hand on Practice	Ŧ		>=40% students Participated=>80%		
	L		>=30% students Participated=>60%	0.2	
			Else=>20%		
Industrial training		3	>=50% students visited =>100% marks		
	Н		>=40% students visited=>80%	2.4	
			>=30% students visited =>60%		
			Else=> 20% marks		
Final Placed Strength	М	2	>=80% students placed=>100% marks		
			>=70% students placed=>80%		
			>=60% students placed=>60%	0.4	
			Else=>20%		
Mentoring	L	1	>=80% students Mentored=>100% marks	1	
			>=70% students Mentored=>80%		
			>=60% students Mentored=>60%		
			Else=>20%		
Technical Events	Н	3	>=80% students participated=>100% marks		
			>=70% students participated=>80%		
			>=60% students participated=>60%	1.8	
			Else=>20%		
Conference/Workshops	L	1	>=50% students participated=>100% marks		
			>=40% students participated=>80%		
			>=30% students participated=>60%	0.2	
			Else=>20%	-	
E-Resources	L	1	>=50% students participated=>100% marks		
			>=40% students participated=>80%		
			>=30% students participated=>60%	0.2	
			Else=>20%		





Comparative Analysis of PSO attainment



Self Assessment Report

CRITERION 4	Students' Performance
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150

4. STUDENTS' PERFORMANCE (150)

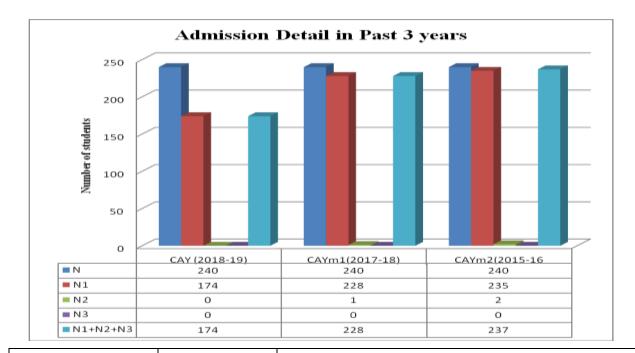
Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable	CAY (2018-19)	CAYm1 (2017-18)	CAYm2 (2015-16)
Sanctioned intake of the program (<i>N</i>)	240	240	240
Total number of students admitted in first year <i>minus</i> number of students migrated to other programs/institutions plus no. of students migrated to this program (<i>N</i> 1)	174	228	235
Number of students admitted in 2 nd year in the same batch via lateral entry (<i>N</i> 2)	0	1	2
Separate division students, if applicable (<i>N3</i>)	nil	nil	nil
Total number of students admitted in the Program $(N1 + N2 + N3)$	174	228	237

Table B.4a

CAY – Current Academic Year CAYm1- Current Academic Year minus1= Current Assessment Year CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1 LYG – Last Year Graduate minus 1 LYGm1 – Last Year Graduate minus 1 LYGm2 – Last Year Graduate minus 2



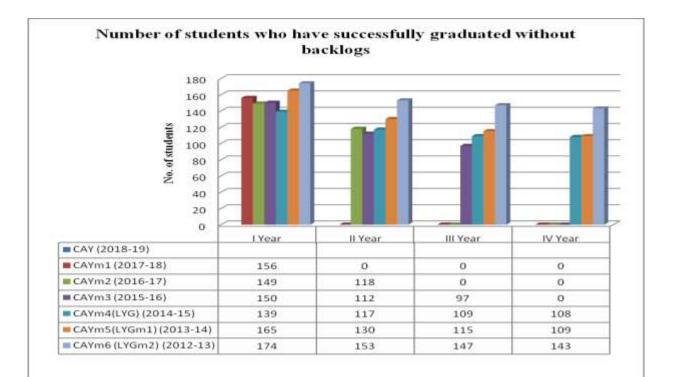
Self Assessment Report



Year of entry	<i>N</i> 1 + <i>N</i> 2 + N3 (As defined	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study			
	above)	I Year	II Year	III Year	IV Year
CAY (2018-19)	174(174+0+0)	-	-	-	-
CAYm1 (2017-18)	228(228+0+0)	156	-	-	-
CAYm2 (2016-17)	237(235+2+0)	149	118	-	-
CAYm3 (2015-16)	228(225+3+0)	150	112	97	-
CAYm4(LYG) (2014-15)	222(219+3+0)	139	117	109	108
CAYm5(LYGm1) (2013-14)	223(212+11+0)	165	130	115	109
CAYm6 (LYGm2) (2012-13)	269(248+21+0)	174	153	147	143



Table B.4b



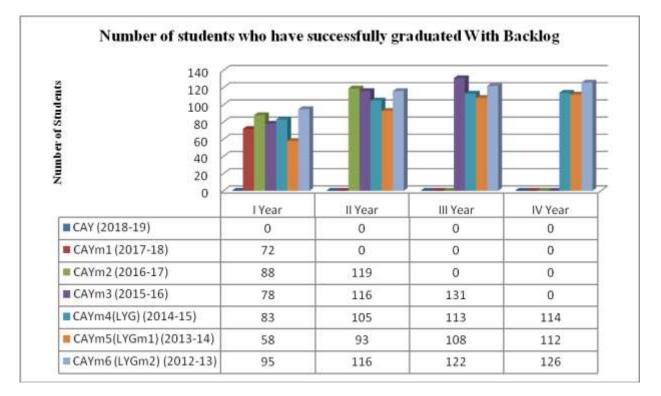
Year of entry	N1 + N2 + N3 (As defined	Number of students who have successfully graduated (Students with backlog in stipulated period of study)				
	above)	I Year	II Year	III Year	IV Year	
CAY (2018-19)	174(174+0+0)	-	-	-	-	
CAYm1 (2017-18)	228(228+0+0)	72	-	-	-	
CAYm2 (2016-17)	237(235+2+0)	88	119	-	-	
CAYm3 (2015-16)	228(225+3+0)	78	116	131	-	
CAYm4(LYG) (2014-15)	222(219+3+0)	83	105	113	114	
CAYm5(LYGm1) (2013-14)	223(212+11+0)	58	93	108	112	
CAYm6 (LYGm2) (2012-13)	269(248+21+0)	95	116	122	126	



Self Assessment Report

Table B.4c





4.1. Enrolment Ratio (20) Enrolment Ratio= N1/N

Item (Students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year)	Marks
>=90% students enrolled	20
>=80% students enrolled	18
>=70% students enrolled	16
>=60% students enrolled	14
>=50% students enrolled	12
Otherwise	0

Table B.4.1



Year	N1	Ν	Enrolment Ratio= N1/N	Parentage	Avarage percentage	Marks
CAY	174	240	0.725	72.5%		
CAYm1	228	240	0.95	95.0%	88.46%	18
CAYm2	235	240	0.979	97.90%		
	1	Ν	Marks	1		18

4.2. Success Rate in the stipulated period of the program (40) 4.2.1. Success rate without backlogs in any semester/year of study (25)

SI= (Number of students who have graduated from the program without backlog)/

(Number of students admitted in the first year of that batch and admitted in 2nd year via

lateral entry and separate division, if applicable

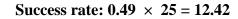
Average SI = Mean of Success Index (SI) for past three batches

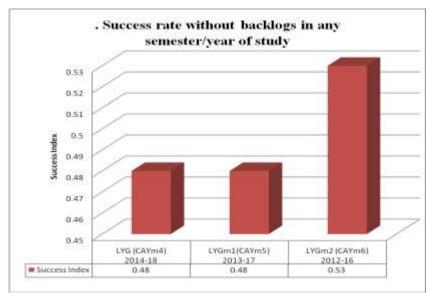
Success rate without backlogs in any year of study = $25 \times \text{Average SI}$

Last year of graduation LYG (CAYm4) 2014-18	Last Year of Graduate minus 1, LYGm1 (CAYm5) 2013-14	Last Year of Graduate minus 2, LYGm2 (CAYm6) 2012-13
222	223	269
109	100	142
108	109	143
	of graduation LYG (CAYm4) 2014-18	of graduation LYG (CAYm4) 2014-18Graduate minus 1, LYGm1 (CAYm5) 2013-14222223



Success Index (SI)	0.48	0.48	0.53	
Average SI		0.49		
Table B.4.2.1				





4.2.2. Success rate with backlog in stipulated period of study (15)

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)Average SI = mean of Success Index (SI) for past three batchesSuccess rate = $15 \times \text{Average SI}$

Item	Last year of graduation LYG (CAYm4) 2014-18	Last Year of Graduate minus 1, LYGm1 (CAYm5) 2013-14	Last Year of Graduate minus 2, LYGm2 (CAYm6) 2012-13
Number of students admitted in the corresponding first year + admitted in second year via Lateral entry and separate division if applicable	222	223	269

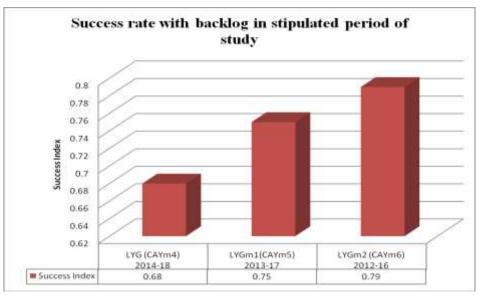


Number of students who have			
graduated with backlogs in the	151	168	214
stipulated period			
Success Index (SI)	0.68	0.75	0.79
Average SI		0.74	<u>.</u>

Table B.4.2.2

Success rate= 15 x 0.74 = 11.1

Note: If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.



4.3. Academic Performance in Third Year (15)

Academic Performance = 1.5 * Average API (Academic Performance Index)

API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination) Successful students are those who are permitted to proceed to the final year.

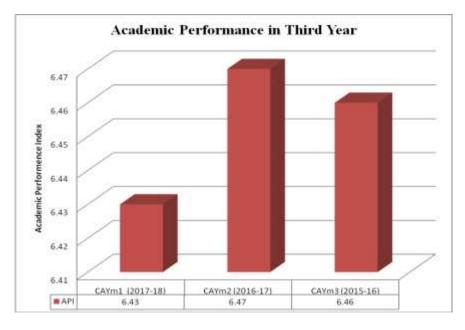
Academic performance	CAYm1 (2017-18)	CAYm2 (2016-17)	CAYm3 (2015-16)
Mean of CGPA or Mean Percentage of all successful students (X)	64.30	64.80	63.40
Total no. of successful students (Y)	224	218	223



Total no. of students appeared in the examination (Z)	224	218	223	
$\mathbf{API} = \mathbf{x}^* \left(\mathbf{Y} / \mathbf{Z} \right)$	6.43	6.47	6.46	
Average API = (AP1 + AP2 + AP3)/3	6.45			

Table B.4.3

Academic Performance = 1.5 x 6.45 = 9.68



4.4. Academic Performance in Second Year (15)

Academic Performance Level = 1.5 * Average API (Academic Performance Index) **API** = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)Successful students are those who are permitted to proceed to the Third year.

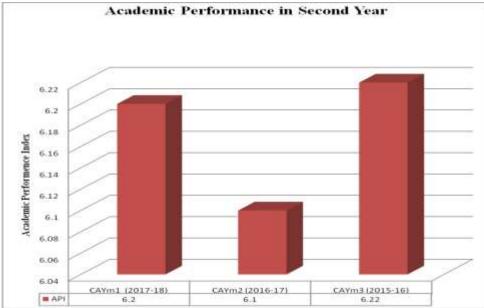
Academic performance	CAYm1 (2017-18)	CAYm2 (2016-17)	CAYm3 (2015-16)
Mean of CGPA or Mean Percentage of all successful students (X)	62.0	63.2	63.0
Total no. of successful students (Y)	234	228	222



Total no. of students appeared in the examination (Z)	234	228	222
$\mathbf{API} = \mathbf{x}^* \ (\mathbf{Y}/\mathbf{Z})$	6.20	6.10	6.22
Average API = (AP1 + AP2 + AP3)/3		6.17	

Table B.4.4

Academic Performance Level= $1.5 \times 6.17 = 9.26$



4.5 Placement, Higher studies and entrepreneurship (40) Assessment point= 40* average placement

Item	CAYm1 (2017-18)	CAYm2 (2016-17)	CAYm3 (2015-16)
Total No. of Final Year Students (N)	218	223	268
No. of students placed in companies or Government Sector (x)	96	114	169
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	1	4	1
No. of students turned entrepreneur in engineering/technology (z)	1	0	10



x + y + z =	98	118	180
Placement Index : (x + y + z)/N	0.44	0.53	0.67
Average placement= (P1 + P2 + P3)/3		0.55	

Table B.4.5

Assessment point= 40* 0.55 = 22

	University			Ref No. with
<u>S.No</u>	Roll No.	Name	Company Placed	date
1	13EJCEC001	AANCHAL KABRA	Accenture	
2	13EJCEC002	AASTHA JAIN	Accenture	
3	13EJCEC006	ABHINAV KHANDELWAL	ericsson	
4	13EJCEC007	ABHISHEK KUMAR SINGH	Bulls eye/ Ericsson	
5	13EJCEC008	ABHISHEK KUMAR SINGH	Mind it (offset)	
6	13EJCEC009	ABHISHEK RATHI	MindTree	
7	13EJCEC012	ADHISH DUSAD	Appeal Group (Offset)	
8	13EJCEC013	ADITI SHARMA	Accenture	
9	13EJCEC014	ADITYA AGARWAL	Accenture	
10	13EJCEC022	AKSHAY SHARMA	Face/Bullseye	
11	13EJCEC024	AMAN CHOUDHARY	Accenture	
12	13EJCEC026	ANAND MOTT	MindIT	
13	13EJCEC028	ANISHA MATHUR	Accenture	
14	13EJCEC030	ANSHUL PATNI	Mindit	
15	13EJCEC031	ANUBHA AGARWAL	Accenture	
16	13EJCEC032	ANUSHA NANDWANA	Accenture	
17	13EJCEC033	APOORVA SINGHAL	Technist	
18	13EJCEC035	ARCHI JAIN	Accenture	
19	13EJCEC036	ARPIT MISHRA	Justdial	
20	13EJCEC037	ARPITA MANTRI	Ericsson	
		ARVIND KUMAR		
21	13EJCEC038	JHAJHARIA	Mindit	
22	13EJCEC041	ASHISH RATHI	Ericsson	
23	13EJCEC045	AYUSHI HALDIA	Ericsson	
24	13EJCEC046	AYUSHI JAIN	Accenture	
25	13EJCEC047	AYUSHI KANKARIA	Techfleeters	

Sample Placement Data of CAYm1(2016-17)



Self Assessment Report

26	13EJCEC048	AYUSHI KUMAWAT	Accenture
27	13EJCEC049	AYUSHI NAMA	Ericsson
28	13EJCEC052	BHAVANA MATHUR	Accenture
29	13EJCEC053	BHAWNA SONI	Accenture
30	13EJCEC059	DEEPAK KUMAR SHARMA	justdial
31	13EJCEC060	DEEPALI GOYAL	Accenture
			L&T Technologies Services
32	13EJCEC067	DIVYANSHU SINGHI	mysore
33	13EJCEC068	DIXITA JAIN	DXC (offcampus)/FACE
34	13EJCEC069	EKANSH AGARWAL	mindit
35	13EJCEC073	GAURAV KUMAR	Mindit
36	13EJCEC079	HIMANSHU MATHUR	Ericsson
37	13EJCEC083	ISHITA JAIN	Accenture
38	13EJCEC084	JAGDISH SEERVI	Ericsson
39	13EJCEC085	JAGRITI ARORA	Accenture
40	13EJCEC088	JITESH KUMAR	Anora
41	13EJCEC089	JYOTIKA JAIN	Accenture
42	13EJCEC092	KAPIL GUPTA	Technist
43	13EJCEC094	KARTIK SHARMA	Ericsson
		KIRTIVARDHAN SINGH	
44	13EJCEC097	GOGAWAT	Accenture
45	13EJCEC098	KISHAN S RATHORE	Mindtree
		KRISHAN KUMAR	
46	13EJCEC099	SHARMA	Mindit
47	13EJCEC100	KRISHNA VIJAYVARGIYA	Accenture
48	13EJCEC102	KUSHAGRA AGRAWAL	Technist
49	13EJCEC103	LAKSHYA DAULANI	Accenture
50	13EJCEC109	MALLIKA DHAMIJA	Accenture
51	13EJCEC111	MANISH KUMAR SHARMA	Mindit
52	13EJCEC112	MANISH PUSHKAR	MindTree
53	13EJCEC113	MAYANK ARORA	technist
54	13EJCEC118	MEGHA KUMARI	Accenture
55	13EJCEC120	MOHD SHAHID	Mind it (offset)
56	13EJCEC123	MOHIT JAIN	SLK
57	13EJCEC126	NEELABH GOYAL	Accenture
58	13EJCEC139	PARSHANT MAHENDRA	just Dial
59	13EJCEC143	PRACHI JAIN	Accenture
		PRAMUGDHA	
60	13EJCEC147	KHANDELWAL	Accenture
61	13EJCEC150	PRATEEK JAIN	Metacube
62	13EJCEC154	PULKIT KHANDELWAL	Mindit
63	13EJCEC162	RAJAT GARG	technist/Ericsson



64	13EJCEC168	RAMAKANT SHARMA	Mindit
66	13EJCEC173	RASHI GAUR	Accenture
67	13EJCEC178	RITIK JAIN	technist
68	13EJCEC179	RITU DARYANI	Accenture
69	13EJCEC180	ROHAN KUMAR VERMA	Accenture
70	13EJCEC181	ROMMEL SHARMA	Appiccimo
71	13EJCEC182	RUCHIKA RATHORE	Accenture
72	13EJCEC184	RUNAKSHI PURI	Accenture
73	13EJCEC187	SAKSHI MAHESHWARI	Accenture
74	13EJCEC189	SAKSHI SHIVHARE	Accenture
75	13EJCEC193	SAURABH BARTHWAL	MindTree/ericsson
76	13EJCEC194	SHALINI AGRAWAL	Accenture
77	13EJCEC195	SHAMIKA MITTAL	Accenture
78	13EJCEC196	SHARAD GUPTA	HexaView
79	13EJCEC198	SHIKHA KOUL	Accenture
80	13EJCEC199	SHILPI PANDEY	Accenture
81	13EJCEC200	SHIVANGI KHANDELWAL	First American
84	13EJCEC211	SHUBHAM SINGH	Mindit
85	13EJCEC214	SHUBHI JAIN	Ericsson
86	13EJCEC215	SHUCHITA SHARMA	Accenture
87	13EJCEC218	SUMAN DUDHWAL	Accenture
88	13EJCEC220	SWATI SINGHI	Hexaview
89	13EJCEC221	TAMANNA JAIN	Accenture
90	13EJCEC222	TANUJ KOTHARI	Accenture
91	13EJCEC223	TAPAN SONI	Nodd
92	13EJCEC224	TARANG UPADHYAY	DLB
93	13EJCEC225	TRIPTI KHURANA	Accenture
94	13EJCEC228	UMANG MATHUR	Ericsson
95	13EJCEC230	VAIBHAV GARG	Accenture
96	13EJCEC232	VAISHALI BHARDWAJ	Accenture
97	13EJCEC233	VARTIKA MAHESHWARI	Lantern
98	13EJCEC234	VEERANGANA	Bullseye/Ericsson
99	13EJCEC235	VIDHIKA MATHUR	Ericsson
100	13EJCEC238	VINOD KUMAR GILL	Ericsson
101	13EJCEC240	VIPUL TIWARI	Ericsson
102	13EJCEC241	VISHAL RANJAN PRASAD	MindTree
			Reliance Jio (network
103	13EJCEC243	VISHNU PATIDAR	Engineer) at New delhi
104	13EJCEC247	YATIN KALIA	MindTree
105	13EJCEC405	AJEET SONI	Ericsson
106	13EJCEC402	CHARCHIT GUPTA	justdial
108	14EJCEC200	ABHILASHA SHARMA	Mind it (offset)



109	14EJCEC203	RAJEEV SHARMA	Mindit	
111	14EJCEC206	RUCHI SHARMA	Mindit	
112	14EJCEC208	SIMRANJEET KAUR	Mindit	
113	14EJCEC209	SRISHTI SINGH	Accenture	
114	14EJCEC551	SM. SANA	JECRC	

4.6. Professional Activities (20)

4.6.1 Professional societies/chapters and organizing engineering events (5) (The Department shall provide relevant details)

Following events have been conducted under the societies Electronica , Xananoids and Abhudaya

Table No.4.6.1 events conducted under the societies Electronica xananoids and Abhudaya in CAY(+1) 2018-19)

١	Organized event under society	Organized period	Level of event	Event outcome
1	Project exhibition	15.09.2018	National	An exihibition shown all made projects based on robotics and embedded system and digital image processing
2	Expert talk on block chain technology	15.09.2018	National	How the system came to be and the various benefits and drawbacks of using blockchain. He further provided information about how the technology is being used in the crypto currency bitcoin and how more and more industries have started using the technology to reach greater heights.
3	Smart city expo visit @ jecc, sitapura	26/09/2018 and 27/09/2018 (two days)	Industrial visit	The objective of smart city expo india event is to showcase the innovation in the space of smart cities globally.
4	Industrial visit at tesca technologies	05/07/2018 and 06/07/2018 (two days)	Industrial visit	Overview of electronic components and educational training kits of engineering test and measurement of instruments.give information about ac/dc power supplies
5	Invited talk by mr. Ashok kumar (section officer-ministry of external affairs)	06/07/2018	College level	The ministry of external affairs has asked all its officers on leave to travel to their hometowns and particularly their alma mater.
6	Celebration of 150 th birthday of mahatma gandhi	02-10-2018	College level	So long as you do not take the broom and the bucket in your hands, you cannot make your towns and cities clean."
7	International expert talk	15-09-2018	International	In traditional workflow automation tools, a software developer produces a list of actions to automate a task and interface to the back- end system using internal application programming interfaces (apis) or dedicated scripting language.



8	Seminar on app development	05/07/2018 to 06/07/2018	National	Describe the basics of graphics and multimedia support in android.Demonstrate basic skills of using an integrated development environment (android studio) and android software development kit (sdk) for implementing android applications.
9	Seminar on iot and python	2days (18/07/2018 to 19/07/2018)	National	Python is an interpreted high-level programming language for general-purpose programming. Python features a dynamic type system and automatic memory management.
10	Workshop on embedded systems	4days (10/07/2018 to 13/07/2018)	College level	An embedded system is some combination of computer hardware and software, either fixed in capability or programmable,
11	Workshop on vlsi technology	4days (10/07/2018 to 13/07/2018)	College level	The first semiconductor chips held two transistors each. Subsequent advances added more transistors, and as a consequence, more individual functions or systems were integrated over time.

4.6.2. Publication of technical magazines, newsletters, etc. (5)

(The Department shall list the publications mentioned earlier along with the names of the editors, publishers, etc.)

S. No.	Academ ic Year	Name of The Newsletter	Month and Year of Public ation	Name of editors	Name of Publishe rs
1	2016- 17	Ujjwala m vol. 1, issue 1	March -2017	Chief Editor: Dr. Lokesh Kumar Bansal HoD, ECE Ms. Shivam Upadhyaya Asst. Professor, ECE Student Editors: Aditya Vardhan, Charu Upadhyaya,Ayush Jain	ECE Depart ment
2	2017- 18	Ujjwala m vol. 1, issue 2	Octob er 2017	Chief Editor: Dr. Lokesh Kumar Bansal HoD, ECE Ms. Shivam Upadhyaya, Asst. Professor, ECE Student Editors: Charu Upadhyaya, Keya vyas	ECE Depart ment
3	2017- 18	Ujjwala m vol. 2, issue 1	April- 2018	Chief Editor: Dr. Lokesh Kumar Bansal HoD, ECE Ms. Shivam Upadhyaya, Asst. Professor, ECE Student Editors: Charu Upadhyaya, Keya vyas	ECE Depart ment

Table 4.6.2.1: List of Publication of Newsletters



4	2018- 19	Ujjwala m July edition	July 2018	Chief editor: Dr. Lokesh Bansal HOD, ECE Ms. Shivam upadhyay Asst. Professor Studemt editors: Jacob Mahto, Yuvraj singh Rathore,Nikhil Jain, Sumit Mittal, Yogesh Pareek, Shivangi Porwal	ECE Depart ment
5	2018- 19	Ujjwala m August edition	Augus t 2018	Chief editor: Dr. Lokesh Bansal HOD, ECE Ms. Shivam upadhyay Asst. Professor Studemt editors: Jacob Mahto, Yuvraj singh Rathore,Nikhil Jain, Sumit Mittal, Yogesh Pareek, Shivangi Porwal	ECE Depart ment
6	2018- 19	Ujjwala m Septemb er edition	Septe mber 2018	Chief editor: Dr. Lokesh Bansal HOD, ECE Ms. Shivam upadhyay Asst. Professor Studemt editors: Jacob Mahto, Yuvraj singh Rathore,Nikhil Jain, Sumit Mittal, Yogesh Pareek, Shivangi Porwal	ECE Depart ment

4.6.3 Participation in inter-institute events by students of the program of study (10)

(The Department shall provide a table indicating those publications, which received awards in the avents/conferences organized by other institutes.)

events/conferences organized by other institutes.)

S.No.	Name of students	Event	Date	Organized by	Event outcomes
1	Rishabh Jain	SPHINX 2018	27-29 Sep. 18	MNIT, Jaipur	Certificates
2	Rishabh Jain	JIGYASA 2018	15-17 Oct. 2018	GIT, Jaipur	Certificates
3.	Gaurav Goyal	JIGYASA 2018	15-17 Oct. 2018	GIT, Jaipur	Certificates
4	Hardik Rathi	JIGYASA 2018	15-17 Oct. 2018	GIT, Jaipur	Certificates

Table 4.6.3.2: Participation in Inter-Institute Events by Students in CAYm1 (2017-18)

S.No.	Name of students	Event	Date	Organized by	Event outcomes
1	Harshil Jian	National Start-up Fest	13-16 Oct 2017	AICTE	Certificates
2	Manav Sharma	National StartUp Fest	13-16 Oct 2017	AICTE	Certificates
3	Kushagra Singh	National StartUp Fest	13-16 Oct 2017	AICTE	Certificates
4	Chirag Maheshwari	Robo War	10-11 Jan 2018	Manipal University	IInd Prize
5	Gourav Goyal	Robo War	10-11 Jan 2018	Manipal University	IInd Prize
6	Hardik Rathi	Robo War	10-11 Jan 2018	Manipal University	IInd Prize



7	Juhi Garg	Robo War	10-11 Jan 2018	Manipal University	IInd Prize
8	Chirag Maheshwari	Robo Rumble	23-24 March	NIT, Delhi	Ist Prize
9	Sumit Mittal	Exhibition	8 Feb 2018	Indian Railway	Certification
10	Rohit Raj	Google india Challenge scholarship	7 Feb 2018	Udacity	Certification
11	Kanishka Kukreja	Accenture women Achiever award	10 Feb 2018	JECRC-Accenture	Certification
12	Rashi Bansal	PARIDHAN	15 March 2018	JK Lakshmipat University, Jaipur	Certification
13	Rashi Bansal	"PANACHE"	22 March 2018	Creative Arts and Cultural Society, MNIT, Jaipur	Certification

Table 4.6.3.3: Participation in Inter-Institute Sports Events by Students in CAYm1 (2017-18)

S.No.	Name of	Event	Sport	Organized	Position
	students			by	
1	Lakshita	Rajasthan Sr.	Football		Selected in Top 11
	Sharma	State football			players in Raj
		Tournament			
2	Lakshita	Vanquish	Football	GIT Jaipur	Winner
	Sharma				
3	Lakshita	RTU Sports	Football	RTU Kota	winner
	Sharma	Tournament			

Table 4.6.3.4 : Publication in Inter-Institute conferences and Events by Students in
CAYm1(2017-18)

S.N 0.	Name of students	Event	Title
1	Cheshta Agrawal	RTDEEE 2018	Review of MIMO wireless communication systems
2	Anadi Vatsya	RTDEEE 2018	
3	Anushree Rawat	RTDEEE 2018	Review of long term evolution technology for broadband wireless access
4	, Megha Nawaria	RTDEEE 2018	Review of fiber tapping mechanism in WDM
5	Adityavardhan,	RTDEEE 2018	Food wasting information and solution
6	Aneesh anari	RTDEEE 2018	
7	Tushar Jain,	RTDEEE 2018	
8	Shubham Agrawal,	RTDEEE 2018	Temperature behaviour of dry type
9	Vipul Jain,	RTDEEE 2018	transformer
10	Nikhil Rajpurohit	RTDEEE 2018	u diistormer
11	VidushiGaur	RTDEEE 2018	



			Emotion tracker
12	Tapendra Singh	RTDEEE 2018	
13	Maithili Thakur,	RTDEEE 2018	Renewable Energy Source Set-up for Two-
14	Shruti Saini,	RTDEEE 2018	wheelers
15	Yashika Sanghi	RTDEEE 2018	Designing techniques of the Hshape Uslotted microstrip patch antenna
16	Hardik Mittal,	RTDEEE 2018	Industrial Interior Environment Monitoring
17	Harshwardhan Singh Gaur	RTDEEE 2018	System
18	Krishna Kumar Rajpurohit	RTDEEE 2018	
29	Naman Sharma	RTDEEE 2018	Analysis of Complete House Management System
30	Rayman Singh	RTDEEE 2018	Review of Security Aspects in Vehicular Ad hoc Networks
31	Nousheen Khan	RTDEEE 2018	A Study: Classification and Application of Photonic Crystal
32	Radhika Sharma,	RTDEEE 2018	A Survey on Routing Protocol and Wireless
33	Prakashika Mishra	RTDEEE 2018	Sensor Network
34	Sakshi Gupta	RAST 2108	Quantum Dots: An emerging technology
35	Swapnil Sharma,	RAST 2108	Study Of Winsless Troff a Desitioning
36	Vishwas Sharma,	RAST 2108	Study Of Wireless Traffic Positioning
37	Shahrukh Khan	RAST 2108	System
38	Yash Bhatt,	RAST 2108	Intrusion detection scheme for wireless ad-
39	Virendra Singh	RAST 2108	hoc Networks: A study
40	Abhishek Kumar	RAST 2108	On Capturing Exceptions in Workflow
41	Harish Pradhan	RAST 2108	Models for flexible processes
42	Nousheen Khan	RAST 2108	A Survey of Free Space Optical
43	Pooja Premjani,	RAST 2108	Communication Network Channel over Optical Fiber Cable Communication
44	Ayush Chelawat	RAST 2108	Centric Model Assessment for
45	Bhrigu Shandilya	RAST 2108	Collaborative Data Mining
46	Nainji Hora,	RAST 2108	A Video Indexing System
47	Ashpreet Singh	RAST 2108	



48	Utkarsh Vashistha	RAST 2108	A Review On Microelectronic Pill	
49	Vidushi Agarwal	RAST 2108	A Review on Biometrics Based Authentication Systems	
50	Nousheen Khan RAST 2108		A brief Study of Heliodisplay	
51	Yatendra Gaur,	RAST 2108	A raviou on Plue Prain Technology	
52	Abhinav	RAST 2108	A review on Blue Brain Technology	
53	Krishna Kumar Rajpurohit,	RAST 2108	Wild Animal Surveillance Using Wireless Technology	
54	Aachal Agarwal,	RAST 2108	GSM Based Automatic Irrigation Control	
55	Anand Nenawa	RAST 2108	System	

Table 4.6.3.5: Participation in Inter-Institute Events by Students in CAY m2(2016-17)

S.No.	Name of students	Event	Date	Organized by	Event outcomes
1	Sourabh Bhartwal	IEEE Conference	23.12.2016	IEEE	Certificate
2	Sourabh Bhartwal	IEEE Conference	16.02.2017	ASME-IEEE Coimbtore	Certificate
3	Jatin kumar	5th national level project exhibition	15 Sep 2016	VIT Jaipur	First Prize
4	Arvind	5th national level project exhibition	15 Sep 2016	VIT Jaipur	Certificate

Table 4.6.3.6: Participation in Inter-Institute Events by Students in CAY m2(2016-17)

S.No.	Name of students	Event	Title of paper
1	Mahak Pandita	RTDEEE 2016	
2	Kritika Singh	RTDEEE 2016	Digital Watermarking
3	Kushagra singh	RTDEEE 2016	
4	Anushree Rawat	RTDEEE 2016	Review of telecommunication networks
5	Shikha Sharma	RTDEEE 2016	High speed low power nikhilam multiplier
6	Shipra sharma	RTDEEE 2016	
7	Prakhar joshi	RTDEEE 2016	Brain Port vision technology
8	Sakshi sharma	RTDEEE 2016	
9	Shivani dashottar	RTDEEE 2016	Analysis of 5G telecommunication and
10	Sufal Gupta	RTDEEE 2016	wireless systems
11	Tapemdra singh	RTDEEE 2016	wireless systems
12	Arpit singhal	RTDEEE 2016	
13	Ayush Jain	RTDEEE 2016	Solar water heating System
14	Sidarth Singh	RTDEEE 2016	Solar water heating System
15	Shubham Singhal	RTDEEE 2016	



16	Suchita Sharma	RTDEEE 2016	
17	Shalini Agarwal	RTDEEE 2016	Microelectronic pill
18	Neelabh Goyal	RTDEEE 2016	Wireless communication using visible light
19	Nikita Beniwal	RTDEEE 2016	Issue of multi hop propagation in wireless mobile Ad Hoc n/w
20	Monika	RTDEEE 2016	Review oftelecommunication systems
21	Sanidhya mohovia	RTDEEE 2016	
22	Rohan Agarwal	RTDEEE 2016	Tyre pressure monitoring system
23	Parag mangal	RTDEEE 2016	
24	Neha goyal	RTDEEE 2016	Li Fi dha fatanna afaninalaan
25	Varsha parihar	RTDEEE 2016	<i>Li-Fi the future of wireless</i>
26	Simran Bhatia	RTDEEE 2016	Compact left opened pie shaped patch antenna with band notch charecterstics
27	Jitendra kumar	RTDEEE 2016	Wireless sensor technology with underwater
28	Avinash sain	RTDEEE 2016	enviroment
29	Sachin Chauhan	RTDEEE 2016	Comparison of Borosilacte crown glassphotonic crystal fibers
30	Anadi vatsa	RTDEEE 2016	Green Energy
31	Yogendra Sharma	RTDEEE 2016	Analysis and design of multiple watermarking in a video for authentication and copyright protection
32	Aditya Gautam	RTDEEE 2016	Design and comparison of the rectangular microstrip patch antenna
33	Gaurav kumar	RTDEEE 2016	Requirement for wireless communication techniques for effiecent underwater communication
34	Kirti dassani	RTDEEE 2016	FCM based EM channel estimation and data
35	Anshul Shortriya	RTDEEE 2016	detection for OSTBC in MIMO system
36	Nikita Beniwal	RTDEEE 2016	<i>Power estimation for the 64 bit RISC based processor- As performance measue</i>
37	Shubhi Jain	RTDEEE 2016	
38	Jagriti Arora	RTDEEE 2016	— Intigrating microelectronic technologies for the days low of the days low o
39	Veerangana	RTDEEE 2016	<i>the development in bionic limbs</i>
40	Bhattaru Tejaswini	RTDEEE 2016	
41	Sorabh Agarwal	RTDEEE 2016	— Li-Fi tech. Review analysis
42	Neelabh Goyal	RTDEEE 2016	
43	Rashi Gaur	RTDEEE 2016	— A review on black hole attack in MANET
44	Astha Jaiswal	RTDEEE 2016	Advanced digital wireless liquid level indicator



CRITERION 5	Faculty Information and Contributions	200
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Table 5.1: Faculty Information (2018-19)

S. N o	Name	PAN No.	Qualif icatio n	Areas of Specializati on	Designatio n	Date of Joining	Date on which Designated as Professor/ Associate Professor	Currently Associate d (Y/N)	Nature of Association (Regular/Con tract/Adjunct)	Date of Leaving (In case Currently Associated is "No")
1	Dr. Lokesh Kumar Bansal	AFWPB 9091B	Ph.D.	Wireless Comm.	Professor	13/1/2016		Y	Regular	
2	Dr. S. K. Singh	BOUPS 5721K	Ph.D	Wireless Comm.	Professor	02/01/2017		Y	Regular	
3	Dr. A. Williamson	AALP W2253 Q	Ph.D	Telecommu nication	Professor	28/06/2018		Y	Regular	
4	Dr. Sandeep Vyas	AFXPV 5199R	Ph.D	Optics	Asso. Professor	19/07/2017		Y	Regular	
5	Shruti Kalra	ANQPK 5955P	M.Tec h	VLSI	Associate professor	19/8/2003		Y	Regular	
6	Rajesh Kumar Bathija	AHDPB 0243J	M.Tec h	VLSI	Associate professor	18/7/2016		Y	Regular	
7	Dr. Vinita Mathur	AKHP M3052 H	Ph.D.	Microwave	Asso. professor	02-08-2005		Y	Regular	
8	Mr. Ashok Kherodia	AOSPK 7460A	M.Tec h	Communica tion	Asso. Professor	16/08/2018		Y	Regular	
9	Vikas Mishra	AYMP M1504 B	M.Tec h	Electronics	Asst professor	07-01-2013		Y	Regular	
10	Naresh Kumar	ALGPN	M.TE	Wireless	Asst	22/7/2013	· · · · · · · · · · · · · · · · · · ·	Y	Regular	



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I	1'	5796H	CH	1!	professor				
11	Rakesh Kumar Kardam	AMDP K4998A	M.Tec h	Electronics	Asst professor	03-01-2014	Y	Regular	
12	Ankur Gangwar	BFDPG 0660P	M.Tec h	Communica tion	Asst professor	24/7/2014	Y	Regular	
13	Katru Anand	CSGPK 6132H	M.Tec h	VLSI	Asst professor	14/7/2014	Y	Regular	
14	Ashutosh Sharma	BHVPS 3926E	M.Tec h	VLSI	Asst professor	24/7/2014	Y	Regular	
15	Lokesh Kumar Sharma	AXHPS 2584H	M.Tec h	Telecom	Asst professor	07-04-2015	Y	Regular	
16	Bhoopesh Kumar Kumawat	BAXPK 5296E	M.Tec h	Wireless	Asst professor	07-01-2015	Y	Regular	
17	Sidharth Chaturvedy	AGDPC 9408K	M.Tec h	Embedded	Asst professor	07-01-2015	Y	Regular	
18	Shivam Upadhayay	ADAPU 4929K	M.Tec h	Optoelectro nics	Asst professor	13/7/2015	Y	Regular	
19	Deepmala Kulshreshth	AXJPD 8149H	B.Tec h	Electronics	Asst professor	14/7/2015	Y	Regular	
20	Alpana Gupta	AJLPG4 988R	MBA	Electronics	Asst professor	15/7/2015	Y	Regular	
21	Deepak Shankhala	BXYPS 2998K	M.Tec h	Electronics	Asst professor	22/8/2016	Y	Regular	
22	Devesh Gupta	AOKPG 6567J	M.Tec h	Communica tion	Asst professor	15/7/2016	Y	Regular	
23	Preeti Barot	BDJPB8 982K	M.Tec h	Electronics	Asst professor	20/7/2016	Y	Regular	
24	Teena Sharma	EQSPS9 988B	M.TE CH	Microwave	Asst professor	15/7/2016	Ν	Regular	31-08-2018
25	Aashish	DOBPS	M.Tec	Optimizatio	Asst	18/7/2016	Y	Regular	Γ



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	Sharma	4622L	h	n	professor				
26	Shweta Sharda	BAWPS 0763H	M.Tec h	Electronics	Asst professor	17/7/2017	Y	Regular	
27	Geetika Bhati Mathur	AGQPB 0802P	M.TE CH	Antenna	Asst professor	17/7/2017	Ν	Regular	20-08-2018
28	Mohit Kumar	DFBPK 4609N	M.Tec h	Electronics	Asst professor	18/7/2017	Y	Regular	
29	Aapurva Kaul	BLRPK 0793B	M.TE CH	Electronics	Asst professor	24/7/2017	Y	Regular	
30	Yogita	ALUPY 2403L	M.TE CH	VLSI	Asst professor	24/7/2017	Y	Regular	
31	Kriti Manish Sharda	AZOPS 1172N	M.Tec h	Electronics	Asst professor	21/7/2017	Y	Regular	
32	Yazusha Sharma	BRDPS 2349B	M.Tec h	Electronics	Asst professor	17/7/2017	Y	Regular	
33	Ritambhara K	BTCPR 2037J	M.Tec h	Electronics	Asst professor	08-02-2017	Y	Regular	
34	Vikas Sharma	CQFPS 8859A	M.Tec h	Embedded	Asst professor	20/2/2010	Y	Regular	
35	Anil Jain	AIYPJ3 152A	M.Tec h	Antenna	Asst professor	19/7/2007	Y	Regular	
36	Shyam Sundar Manaktala	AGYP M8906 B	M.Tec h	VLSI Design	Asst professor	25/11/2004	Y	Regular	
37	Parul Tyagi	AEVPT 9930N	M.Tec h	Communica tion	Asst professor	14/2/2009	Y	Regular	
38	Neha Singh	CNTPS 3234E	M.Tec h	Antenna	Asst professor	11-08-2010	Y	Regular	
39	Mangilal Meghwal	BKZPM 4835M	M.Tec h	Electronics	Asst professor	08-02-2010	Y	Regular	



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40	Ritu Vyas	AEKPV 4859C	M.Tec h	Electronics	Asst professor	16/8/2010	Y	Regular	
41	Honey Agrawal	AKEPA 0586H	M.Tec h	Electronics	Asst professor	21/7/2011	Y	Regular	
42	Sandeep Kumar Dotya	BOQPS 0885A	M.Tec h	Electronics	Asst professor	21/7/2011	Y	Regular	
43	Jitendra Sharma	CWXPS 7101P	M.Tec h	Electronics	Asst professor	25/4/2012	Y	Regular	
44	Ashish Kulshrestha	BMFPK 1793Q	M.Tec h	Electronics	Asst professor	25/4/2012	Y	Regular	
45	Pravin Kumar Sharma	EBKPS 3831J	M.Tec h	Electronics	Asst professor	30/7/2012	Y	Regular	
46	Raj Kumar Jain	ANSPJ5 809M	M.Tec h	Electronics	Asst professor	30/7/2012	Y	Regular	
47	Devendra Sharma	FMXPS 26958	M.Tec h	Electronics	Asst professor	25-04-2012	Y	Regular	
48	Veni Madhav Sharma	CQUPS 7715L	M.Tec h	Electronics	Asst professor	04-05-2012	Y	Regular	



 Table 5.2: Faculty Information (2017-18)

S. N o	Name	PAN No.	Qualification	Areas of Specialization	Designatio n	Date of Joining	Date on which Designated as Professor/ Associate Professor	Current ly Associa te d (Y/N)	Nature of Associatio n (Regular/C ontract/Ad junct)	Date of Leavi ng (In case Curre ntly Associ ated is "No")
1	Dr. Lokesh Kumar Bansal	AFWPB9 091B	Ph.D.	Wireless Comm.	Professor	13/1/2016		Y	Regular	
2	Dr. S. K. Singh	BOUPS57 21K	Ph.D	Wireless Comm.	Professor	02/01/2017		Y	Regular	
3	Dr. A. Williamson	AALPW2 253Q	Ph.D	Telecommunicati on	Professor	28/06/2018		Y	Regular	
4	Dr. Sandeep Vyas	AFXPV5 199R	Ph.D	Optics	Associate professor	19/07/2017		Y	Regular	
5	Shruti Kalra	ANQPK5 955P	M.TECH	VLSI	Associate professor	19/8/2003		Y	Regular	
6	Rajesh Kumar Bathija	AHDPB0 243J	M.TECH	VLSI	Associate professor	18/7/2016		Y	Regular	
7	Vinita Mathur	AKHPM3 052H	M.TECH.	VLSI	Asst professor	02-08-2005		Y	Regular	
8	Vikas Mishra	AYMPM 1504B	M.TECH.	Electronics	Asst professor	07-01-2013		Y	Regular	
9	Naresh Kumar	ALGPN5 796H	M.TECH	Wireless	Asst professor	22/7/2013		Y	Regular	
10	Rakesh Kumar Kardam	AMDPK4 998A Se	M.TECH If Assessm	Electronics ent Report	Asst professor	03-Ph2064		Y	Regular	

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11	ASHOK KUMAR	BBVPA1 183P	M.TECH	Comm.	Asst professor	24/7/2014	Ν	Regular	24-02- 2018
12	Ankur Gangwar	BFDPG06 60P	YES	Communication	Asst professor	24/7/2014	Y	Regular	
13	Katru Anand	CSGPK61 32H	M.TECH	VLSI	Asst professor	14/7/2014	Y	Regular	
14	Ashutosh Sharma	BHVPS39 26E	M.TECH	VLSI	Asst professor	24/7/2014	Y	Regular	
15	Lokesh Kumar Sharma	AXHPS2 584H	M.TECH.	Telecom	Asst professor	07-04-2015	Y	Regular	
16	Bhoopesh Kumar Kumawat	BAXPK5 296E	M.TECH	Wireless	Asst professor	07-01-2015	Y	Regular	
17	Sidharth Chaturvedy	AGDPC9 408K	M.TECH	Embedded	Asst professor	07-01-2015	Y	Regular	
18	Shivam Upadhayay	ADAPU4 929K	M.TECH.	Optoelectronics	Asst professor	13/7/2015	Y	Regular	
19	Deepmala Kulshreshth	AXJPD81 49H	B.Tech	Electronics	Asst professor	14/7/2015	Y	Regular	
20	NIDHI JAIN	AQQPJ10 15I	M.TECH	Electronics	Asst professor	20-07-2016	Ν	Regular	14-10- 2017
21	Alpana Gupta	AJLPG49 88R	MBA	Electronics	Asst professor	15/7/2015	Y	Regular	
22	Vinod Kumar	BGNPK5 526R	B.Tech	Electronics	Asst professor	02-09-2016	Ν	Regular	01-07- 2018
23	Deepak Shankhala	BXYPS29 98K	M.TECH	Electronics	Asst professor	22/8/2016	Y	Regular	
24	Devesh Gupta	AOKPG6 567J	M.TECH	Communication	Asst professor	15/7/2016	Y	Regular	
25	Preeti Barot	BDJPB89 82K	M.TECH	Electronics	Asst professor	20/7/2016	Y	Regular	



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26	Teena Sharma	EQSPS99 88B	M.TECH	Microwave	Asst professor	15/7/2016	 Y	Regular	
27	Aashish Sharma	DOBPS46 22L	M.TECH	Optimization	Asst professor	18/7/2016	Y	Regular	
28	Shweta Sharda	BAWPS0 763H	M.TECH	Electronics	Asst professor	17/7/2017	Y	Regular	
29	Geetika Bhati Mathur	AGQPB0 802P	M.TECH	Antenna	Asst professor	17/7/2017	Y	Regular	
30	Mohit Kumar	DFBPK46 09N	M.TECH	Electronics	Asst professor	18/7/2017	Y	Regular	
31	Aapurva Kaul	BLRPK07 93B	M.TECH	Electronics	Asst professor	24/7/2017	Y	Regular	
32	Yogita	ALUPY2 403L	M.TECH	VLSI	Asst professor	24/7/2017	Y	Regular	
33	Kriti Manish Sharda	AZOPS11 72N	M.TECH	Electronics	Asst professor	21/7/2017	Y	Regular	
34	Yazusha Sharma	BRDPS23 49B	M.TECH	Electronics	Asst professor	17/7/2017	Y	Regular	
35	Ritambhara K	BTCPR20 37J	M.TECH	Electronics	Asst professor	08-02-2017	Y	Regular	
36	Vikas Sharma	CQFPS88 59A	M.TECH.	Embedded	Asst professor	20/2/2010	Y	Regular	
37	Anil Jain	AIYPJ315 2A	M.TECH.	Antenna	Asst professor	19/7/2007	Y	Regular	
38	Shankar Singh Shekhawat	AAAPS8 334H	M.TECH., M.S. (UK)	TELECOME	Professor	08-02-2007	N	Regular	26-03- 2018
39	Shyam Sundar Manaktala	AGYPM8 906B	M.TECH	VLSI Design	Asst professor	25/11/2004	Y	Regular	
40	Parul Tyagi	AEVPT99 30N	M.TECH.	Communication	Asst professor	14/2/2009	Y	Regular	
41	Neha Singh	CNTPS32	M.TECH	Antenna	Asst	11-08-2010	Y	Regular	



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		34E		Γ	professor				
42	SHIKHA GAUR	ARGPG6 482P	B.TECH	Electronics	Asst professor	04-08-2010	Ν	Regular	31-01- 2018
43	Mangilal Meghwal	BKZPM4 835M	M.TECH	Electronics	Asst professor	08-02-2010	Y	Regular	
44	Ritu Vyas	AEKPV4 859C	M.TECH	Electronics	Asst professor	16/8/2010	Y	Regular	
45	Honey Agrawal	AKEPA0 586H	M.TECH	Electronics	Asst professor	21/7/2011	Y	Regular	
46	Sandeep Kumar Dotya	BOQPS08 85A	M.TECH.	Electronics	Asst professor	21/7/2011	Y	Regular	
47	Jitendra Sharma	CWXPS7 101P	M.TECH	Electronics	Asst professor	25/4/2012	Y	Regular	
48	Ashish Kulshrestha	BMFPK1 793Q	M.TECH	Electronics	Asst professor	25/4/2012	Y	Regular	
49	Pravin Kumar Sharma	EBKPS38 31J	M.Tech	Electronics	Asst professor	30/7/2012	Y	Regular	
50	Raj Kumar Jain	ANSPJ58 09M	M.Tech	Electronics	Asst professor	30/7/2012	Y	Regular	
51	Devendra Sharma	FMXPS2 6958	M.Tech	Electronics	Asst professor	25-04-2012	Y	Regular	
52	Veni Madhav Sharma	CQUPS77 15L	M.Tech	Electronics	Asst professor	04-05-2012	Y	Regular	
53	Dr. Ram Rattan	ADJTR45 85T	Ph.D	Communication Systems	Professor	01-09-2015	Ν	Contract	02-08- 2018
54	Dr. K. M. Singh	CFGPS22 94	Ph.D	Opto Electronics	Professor	09-01-2013	Ν	Contract	25-07- 2018
55	Dr. Manoj Gupta	AIQPG87 14K	Ph.D	Signal & Image Processing	Asso. Prof.	08-03-2013	Ν	Contract	13-08- 2018



 Table 5.3: Faculty Information (2016-17)

S. No	Name	PAN No.	Qualification	Areas of Specialization	Designatio n	Date of Joining	Date on which Designated as Professor/ Associate Professor	Curren tly Associa te d (Y/N)	Nature of Associat ion (Regular /Contrac t/Adjunc t)	Date of Leavin g (In case Curren tly Associ ated is "No")
1	Dr. Lokesh Kumar Bansal	AFWPB9 091B	Ph.D.	Wireless Comm.	Professor	13/1/2016		Y	Regular	
2	Dr. S. K. Singh	BOUPS5 721K	Ph.D	Wireless Comm.	Professor	02/01/2017		Y	Regular	
3	Rajesh Kumar Bathija	AHDPB0 243J	M.TECH	VLSI	Associate professor	18/7/2016		Y	Regular	
4	Vinita Mathur	AKHPM 3052H	M.TECH.	VLSI	Asst professor	02-08-2005		Y	Regular	
5	Vikas Mishra	AYMPM 1504B	M.TECH.	Electronics	Asst professor	07-01-2013		Y	Regular	
6	Naresh Kumar	ALGPN5 796H	M.TECH	Wireless	Asst professor	22/7/2013		Y	Regular	
7	Rakesh Kumar Kardam	AMDPK 4998A	M.TECH	Electronics	Asst professor	03-01-2014		Y	Regular	
8	SANJAY KUMAR SINGHAL	AUUPS4 046G	M.TECH	Electronics	Asst professor	16-07-2014		N	Regular	31-05- 2016
9	ASHOK KUMAR	BBVPA1 183P	M.TECH	Comm.	Asst professor	24/7/2014		Y	Regular	



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10	Ankur	BFDPG0	YES	Communication	Asst	24/7/2014	Y	Regular	
11	Gangwar ARUNA YADAV	660P ACPPY7 272D	M.TECH	VLSI	professor Asst professor	24-07-2014	N	Regular	31-03- 2017
12	ANSUL KUMAR GUPTA	BERPG0 254C	M.TECH	VLSI	Asst professor	05/07/2014	Ν	Regular	22-07- 2017
13	Katru Anand	CSGPK6 132H	M.TECH	VLSI	Asst professor	14/7/2014	Y	Regular	
14	Ashutosh Sharma	BHVPS3 926E	M.TECH	VLSI	Asst professor	24/7/2014	Y	Regular	
15	Lokesh Kumar Sharma	AXHPS2 584H	M.TECH.	Telecom	Asst professor	07-04-2015	Y	Regular	
16	Bhoopesh Kumar Kumawat	BAXPK5 296E	M.TECH	Wireless	Asst professor	07-01-2015	Y	Regular	
17	Sidharth Chaturvedy	AGDPC9 408K	M.TECH	Embedded	Asst professor	07-01-2015	Y	Regular	
18	Shivam Upadhayay	ADAPU4 929K	M.TECH.	Optoelectronics	Asst professor	13/7/2015	Y	Regular	
19	Deepmala Kulshreshth	AXJPD8 149H	B.Tech	Electronics	Asst professor	14/7/2015	Y	Regular	
20	NIDHI JAIN	AQQPJ1 015I	M.TECH	Electronics	Asst professor	20-07-2016	Y	Regular	
21	Alpana Gupta	AJLPG49 88R	MBA	Electronics	Asst professor	15/7/2015	Y	Regular	
22	Vinod Kumar	BGNPK5 526R	B.Tech	Electronics	Asst professor	02-09-2016	Y	Regular	
23	Deepak Shankhala	BXYPS2 998K	M.TECH	Electronics	Asst professor	22/8/2016	Y	Regular	
24	Devesh Gupta	AOKPG6	M.TECH	Communication	Asst	15/7/2016	Y	Regular	



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		567J			professor			
25	Preeti Barot	BDJPB89 82K	M.TECH	Electronics	Asst professor	20/7/2016	Y	Regular
26	Teena Sharma	EQSPS99 88B	M.TECH	Microwave	Asst professor	15/7/2016	Y	Regular
27	Aashish Sharma	DOBPS4 622L	M.TECH	Optimization	Asst professor	18/7/2016	Y	Regular
28	Vikas Sharma	CQFPS88 59A	M.TECH.	Embedded	Asst professor	20/2/2010	Y	Regular
29	Anil Jain	AIYPJ31 52A	M.TECH.	Antenna	Asst professor	19/7/2007	Y	Regular
30	Shankar Singh Shekhawat	AAAPS8 334H	M.TECH., M.S. (UK)	TELECOM	Professor	08-02-2007	Y	Regular
31	Shyam Sundar Manaktala	AGYPM 8906B	M.TECH	VLSI Design	Asst professor	25/11/2004	Y	Regular
32	Parul Tyagi	AEVPT9 930N	M.TECH.	Communication	Asst professor	14/2/2009	Y	Regular
33	Neha Singh	CNTPS3 234E	M.TECH	Antenna	Asst professor	11-08-2010	Y	Regular
34	SHRUTI KALRA	ANQPK5 955P	M.TECH	VLSI	ASST PROFESS OR	19/8/2003	Y	Regular
35	SHIKHA GAUR	ARGPG6 482P	B.TECH	Electronics	Asst professor	04-08-2010	Y	Regular
36	Mangilal Meghwal	BKZPM4 835M	M.TECH	Electronics	Asst professor	08-02-2010	Y	Regular
37	Ritu Vyas	AEKPV4 859C	M.TECH	Electronics	Asst professor	16/8/2010	Y	Regular
38	Honey Agrawal	AKEPA0 586H	M.TECH	Electronics	Asst professor	21/7/2011	Y	Regular
39	Sandeep Kumar	BOQPS0	M.TECH.	Electronics	Asst	21/7/2011	Y	Regular



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	Dotya	885A			professor				
40	Jitendra Sharma	CWXPS7 101P	M.TECH	Electronics	Asst professor	25/4/2012	Y	Regular	
41	Ashish Kulshrestha	BMFPK1 793Q	M.TECH	Electronics	Asst professor	25/4/2012	Y	Regular	
42	Pravin Kumar Sharma	EBKPS3 831J	M.Tech	Electronics	Asst professor	30/7/2012	Y	Regular	
43	Raj Kumar Jain	ANSPJ58 09M	M.Tech	Electronics	Asst professor	30/7/2012	Y	Regular	
44	Devendra Sharma	FMXPS2 6958	M.Tech	Electronics	Asst professor	25-04-2012	Y	Regular	
45	Veni Madhav Sharma	CQUPS7 715L	M.Tech	Electronics	Asst professor	04-05-2012	Y	Regular	
46	SWATI GAUR	AYFPG7 433C	M.TECH	Electronics	Asst professor	13-07-2015	Ν	Regular	28-02- 2017
47	Dr. Ram Rattan	ADJTR4 585T	Ph.D	Communication Systems	Professor	01-09-2015	Y	Contract	
48	Dr. K. M. Singh	CFGPS22 94	Ph.D	Opto Electronics	Professor	09-01-2013	Y	Contract	
49	Dr. Manoj Gupta	AIQPG87 14K	Ph.D	Signal & Image Processing	Asso. Prof.	08-03-2013	Y	Contract	



5.1 Student-Faculty Ratio (SFR) 10/ (20)

Student Faculty Ratio (No of Faculty as per the sanctioned intake):-

(To be calculated at Department Level)

No. of UG Programs in the Department (n): <u>01</u>

No. of Students in UG 2nd Year= **u1**

No. of Students in UG 3rd Year= **u2**

No. of Students in UG 4th Year= u3

No. of Students in PG 1st Year= **p1**

No. of Students in PG 2nd Year= **p2**

No. of Students = Sanctioned Intake + Actual Admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 + ... + UGn + PG1 + ... PGm

 \mathbf{F} = Total Number of Faculty Members in the Department (excluding first year faculty)

CAY+1 (2018-19)	CAY (2017-18)	CAYm1 (2016-17)
240+1=241	240+2=242	240+3=243
240+2=242	240+3=243	240+3=243
240+3=243	240+3=243	240+11+5=256
726	728	742
F=46	F=53	F=49
SFR1=S1/F1= 15.7	SFR1=S1/F1= 13.7	SFR1=S2/F1 = 15.1
SFR=(SFR1+SFR2	2+SFR3)/3 = 14.8	
	240+1=241 240+2=242 240+3=243 726 F=46 SFR1=S1/F1= 15.7	240+1=241 240+2=242 240+2=242 240+3=243 240+3=243 240+3=243 726 728 F=46 F=53

Table: 5.1 Student-Faculty Ratio (SFR)

Student Teacher Ratio (STR) = S / F=14.8



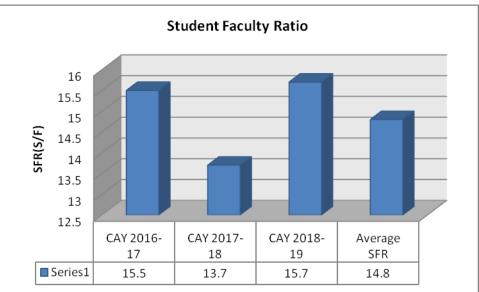


Figure 5.1: Student Faculty Ratio

5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
(2018-19)	46	NIL
(2017-18)	50	3
(2016-17)	46	3

5.2 Faculty Cadre Proportion (25)

The reference Faculty cadre proportion is 1 (F1):2(F2):6(F3)

F1: Number of Professors required=1/9 x Number of faculty required to comply with 15:1 student faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required=2/9 x Number of faculty required to comply with 15:1 student faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required=6/9 x Number of faculty required to comply with 15:1 student faculty ratio based on no. of students (N) as per 5.1



Year	Professors		Associate Professors		Assistant Professors	
	Required	Available	Required	Available	Required	Available
	F1		F2		F3	
2018-19	5	3	10	5	32	38
2017-18	4	5	8	4	25	44
2016-17	4	5	8	1	25	43
Average	RF1=4.3	AF1=4.33	RF2=8.66	AF2=3.3	RF3=27.33	AF3=41.6
Numbers						

Cadre Ratio Marks=
$$\left[\left(\underbrace{\frac{AF1}{RF1}} \right) + \left(\underbrace{\frac{AF2}{RF2} \times 0.6}_{RF2} \right) + \left(\underbrace{\frac{AF3}{RF3} \times 0.4}_{RF3} \right) \right] \times 12.5$$

Average = 22.96

- If AF1=AF2=0 then zero marks
- Maximum marks to be limited if it exceeds 25

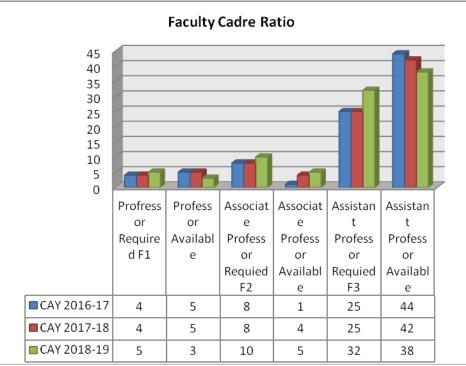


Fig. 5.2: Faculty Cadre Proportion



5.3 Faculty Qualification 12/ (25)

FQ=2.5 x [(10X+6Y)/F] where X is no. of regular faculty with Ph.D., Y is no. of regular faculty with M.Tech., F is no of regular faculty required to comply 1:20 Faculty student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Year	X	Y	F	FQ=2.5 x [(10 X+	
				6Y)/F]	
2018-19	5	39	37	19.18	
2017-18	4	43	37	20.13	
2016-17	3	39	38	17.36	
Average SFF	R for these asses	18.89			

Table: 5.3 Faculty Qualifications

5.4 Faculty Retention (25)

Item	Marks
>=90% of required Faculty members retained during the period of assessment	25
keeping CAY <i>m3</i> as base year	
>=75% of required Faculty members retained during the period of assessment	20
keeping CAY <i>m3</i> as base year	
>=60% of required Faculty members retained during the period of assessment	15
keeping CAY $m3$ as base year	
>=50% of required Faculty members retained during the period of assessment	10
keeping $CAYm3$ as base year	
<50% of required Faculty members retained during the period of assessment	5
keeping CAY <i>m3</i> as base year	

Table: 5.4 Faculty Retention

Description	2018-19	2017-18	2016-17
No. of regular faculty	46	50	49
members			



Total No. of Faculty in 2016-17 = 49 No of Faculty Retained since 2018-19 = 39 % of retained Faculty = 79.59 Assessment Marks: 20

5.5 Innovations by the Faculty in Teaching and Learning (20)

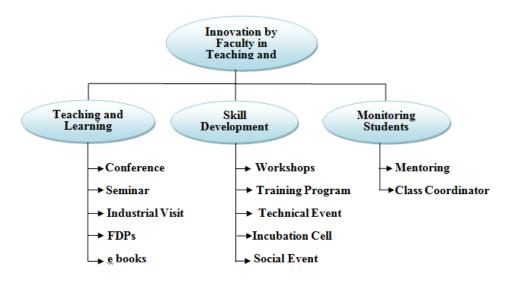


Figure 5.5.

chart of Innovations by the Faculty in Teaching and Learning

S.	Name of	Event	Name of Event	No. of Student	
No	Faculty			Participated	
		International Conference/ Journal	International Journal of Computer Science & Communication	NA	
		Journai	Selence & Communication	11/1	
			RTDEEE -2018(1 paper)	2	
		National Conference	RAST 2018	4	
1.	Dr. Lokesh Kr. Bansal	FDP	Advanced Optimization Techniques	NA	
			Managing Yourself	NA	
			Engineers Day	39	
			Induction Day	43	
		Social	JECRC MUN	5	
			Smart India Hackathon	18	
		Workshop	Aptron	75	
		-	Society and Control System	45	
	Ms. Shruti Kalra	Social	Zarurat	28	
2.					
		International Conference	RTDEEE -2018 (4 papers)	10	



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Flow

		National Conference	RAST 2018	4
	Mr. Rajesh		Effective mentoring skills	NA
	Bathija	FDP	ICT Training On Embedded System	5
			Aashayein	25
			Athlon	27
		Social	Engineers Day	39
3.			Induction Day	43
			Smart India Hackathon	18
		Technical	Technophilia	25
		Workshop	Aptron	75
		International Conference	RTDEEE -2018	6
		National Conference	RAST 2018	8
4	Mr. S. S		Effective mentoring skills	NA
4.	Manakatala	FDP	ICT Training On Embedded System	NA
			Induction Day	43
		Social	Engineers day	39
		Technical	Technophilia	25
5.	Mr. Anil Jain	National Conference	RAST 2018	4
		Industrial Visit	Tesca Technologies	27
		International Conference	RTDEEE 2018	2
	-	National Conference	RAST-2018	6
		FDP	ICT Training On Embedded System	NA
			Engineers day	39
6.			Induction Day	43
	Dr. Vinita Mathur	Social	Suhasini	13
			Smart India Hackathon	18
		Technical	Line Follower	23
	Ms. Parul Tyagi	International Conference/ journal	RTDEEE- 2018	8
		National Conference	RAST 2018	4
_		FDP	ICT Training On Embedded System	NA
7.	F	Social	Engineers day	39
			Suhasini	13
			Smart India Hackathon	18
		Technical	Line Follower	23
	Ms. Ritu Vyas	International Conference	RTDEEE- 2018	8
		FDP	Outcome Based Education	4
			Aashayein	4
		Social	Engineers day	39



			Induction day	43
8.			Suhasini	13
			Smart India Hackathon	18
	-	Technical	Quizolic ,Techinobuzz	24
		International Conference	RTDEEE- 2018	4
		FDP	Outcome Based Education	4
	M 371		Effective Mentoring Skills	NA
	Mr. Vikas Sharma	Social	Athlon	12
			Engineers day	39
9.			Induction Day	43
		Technical	Aashayein	4
			Smart India Hackathon	18
			Robowar	23
		Workshop	Society and Control System	45
		International Conference	RTDEEE- 2018	3
	Mr. Ashish	National Conference		
	Kulshrestha	FDP		
		Social	Athlon	12
			Engineers day	39
		Technical	Induction day	43
10.			Zarurat	21
10.			Smart India Hackathon	18
			Phoenix	21
	-	International Conference	RTDEEE- 2018	6
	Mr. Pravin	FDP		
	Kumar Sharma	Social	Athlon	12
			Engineers day	39
		International Conference	Induction day	43
			Smart India Hackathon	18
11.			OWT 2018	NA
		National Conference	RTDEEE- 2018	4
	Mr. Ashutosh	Social	Athlon	12
	Sharma		Engineers Day	39
	Shumu	Industrial Visit	Induction Day	43
			Genus Power Infrastructure Ltd.	50
12.		International Conference/Journal	RTDEEE- 2018	3
		National Conference	RAST 2018	3
		FDP	Effective Mentoring Skills	NA
	ļ Ē	Social	ICT Training On Embedded	NA
			System	
			Engineers Day	39
			Induction Day	43
12	Ms. Neha Singh	Technical	Suhasini	13
13.			Smart India Hackathon	18
			Formula Zero	16
	1	International Conference	RTDEEE- 2018	4



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		National Conference			
	Mr. Doi	FDP	ICT Training On Embedded System	NA	
	Mr. Raj	Social	Aashayein	5	
	Kumar Jain		Athlon	12	
		Technical	Engineers Day	39	
			Induction Day	43	
			Phoenix	21	
14.		International	International Journal Of Creative	NA	
-		Conference/Journal	Research Thouths		
			RTDEEE- 2018	6	
	-	National Conference			
	-	FDP			
	Mr. Vikas	Social	Engineers Day	39	
15.	Mishra		Induction Day	43	
13.	wiisiira	Technical	Athlon	12	
			Robo Soccer	21	
		International Conference	RTDEEE-2018	6	
	Mr. Veni	National Conference	RAST 2018	4	
	Madhav	Social	Engineers Day	39	
	Triudilu v		Induction Day	43	
		Technical	Smart India Hackathon	18	
			Renovator	16	
		Industrial Visit	Tesca Technologies	27	
16.		International Conference	RTDEEE-2018	4	
	Mr. Mangi	National Conference			
	Lal	FDP	ICT Training On Embedded System	NA	
		Social	Engineers Day	39	
1			Induction Day	43	
17.			Smart India Hackathon	18	
			Start-up	4	
	Mr. Sidharth		Induction Day	43	
	Chaturvedy	Technical	Smart India Hackathon	18	
	÷		JECRC MUN	5	
18.		<u> </u>	Game of Drone	12	
100		Social	Engineers Day	39	
			Induction Day	43	
		International Conference	Athlon	12	
19.	Mr. Honey Agarwal		RTDEEE 2018	6	
	Ŭ	Social	Athlon	12	



			Aashayein	4
		FDP	Engineers Day	39
	Mr. Litandro		Induction Day	43
20.	Mr. Jitendra Sharma		Mathematical Modelling and Optimization of Industrial Problems	NA
	Mr. Sandeep Dotya	National Conference	RAST 2018	4
	Dotyu	FDP	ICT Training On Embedded System	NA
		Social	Engineers Day	39
21.			Induction Day	43
		International Conference	Athlon	12
	Mr. Rakesh	National Conference	RAST-2018	2
	Kardam	FDP	ICT Training On Embedded System	NA
22		Social	Engineers Day	39
22.			Induction Day	43
		International Conference	Smart India Hackathon	18
			RTDEEE 2018	4
	Mr. Devendra	National Conference	RAST-2018	6
	Sharma	Social	Athlon	12
			Aashayein	4
23.		Technical	Engineers Day	39
23.			Induction Day	43
			Game of Drone	12
	Mr. Naresh	International Conference	RTDEEE 2018	6
24.	Kumar			20
	Mr. Katru Anand	Social	Engineers Day	39
			Induction Day	43
25.			Aashayein	4
	Mr. Ashok	International Conference	RTDEEE 2018	6
26.	Kumar			0
20.	Kumai			
	Mr. Ankur	National Conference	RAST-2018	2
	Gangwar		Mathematical Modelling and	NA
	Gangwar	FDP	Optimization of Industrial Problems	
		Social	Aashayein	6
			Athlon	12
		Technical	Engineers Day	39
27.			Induction Day	43
-			Smart India Hackathon	18
			Formula Zero	16



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		Workshop	CCNA networking	58
		Social	Athlon	12
			Engineers Day	39
			Induction Day	43
28.	Mr. Lokesh	International Conference	8th International Conference on	
	Kumar Sharma		Computing, Communication and	NA
			Networking Technologies	
	Ms. Shivam	Social	Engineers Day	39
	Upadhyay		Induction Day	43
29.	Technical		Smart India Hackathon	18
			Quizolic ,Techinobuzz	16
	-	Industrial Visit	Philips Lightning	51
	-		Talent Pull	51
		International Conference	RTDEEE 2018	4
	Ms. Deepmala	Social	Engineers Day	39
	Kulshrestha		Induction Day	43
		Technical	Smart India Hackathon	18
20			Tech-Tambola	12
			,Rob soccer	
30.		International Conference	RISE 2017	NA
	Mr. Bhoopesh	FDP	Research Challenges in Wireless	NA
	Kumawat		Technologies for 5G	
		Social	Athlon	12
21			Engineers Day	39
31.			Induction Day	43
		Industrial Visit	Smart India Hackathon	18
			Philips Lightning	51
			Talent Pull	51
		International Conference	RTDEEE 2018	6
		National Conference	RAST 2018	4
	-	FDP	Effective Mentoring Skills	NA
			ICT Training On Embedded	NA
	Mr. Devesh	Social	System	
32.	Gupta		Athlon	12
	ľ		Engineers Day	39
		Technical	Induction Day	43
			Smart India Hackathon	18
			Robowar	14
	ľ	Training Program	Sakrobotix	66
	ľ	International Conference	RTDEEE 2018	6
	Ms. Teena	National Conference	OWT-2018	NA
	Sharma	FDP	Recent Advances in	NA
			communication technologies	
		Social	Engineers Day	39
33.			Induction Day	43
		International Conference	RTDEEE 2018	6
		National Conference	RAST2018	4



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			Techniques	
	Mr. Ashish	Social	Athlon	12
	Sharma		Engineers Day	39
34.		Technical	Induction Day	43
			Smart India Hackathon	18
			Tech-Tambola, Game of Drone	18
		Industrial Visit	Genus Power Infrastructure Ltd.	50
			Philips lightning	51
		International Conference	Talent Pull	51
			RTDEEE 2018	6
	Ms. Preeti Barot	Social	Engineers Day	39
			Induction Day	43
		Industrial Visit	Smart India Hackathon	18
35.			Philips lightning	51
			Talent Pull	51
		International Conference	RTDEEE 2018	6
				-
	Mr.	National Conference	RAST 2018	4
	Deepak Shankla	Social	Engineers Day	39
36.			Induction Day	43
	_		Smart India Hackathon	18
		Training Program	Embedded System and Robotics	56
	Mr. Mohit	International Conference	RTDEEE 2018	4
	Rajput	FDP		
			Engineers Day	39
		Social	Induction Day	43
37.			Aashayein	3
			Athlon	12
		International Conference	RTDEEE 2018	6
	Ms. Shweta	Social	Engineers Day	39
	Sharda		Induction Day	43
38.		International Conference	Smart India Hackathon	18
			RTDEEE 2018	6
39.	Ms. Kriti Manish Sharda	Social	Engineers Day	39
40		Technical	Induction Day	43
	Ms. Yogita		Quizolic	12
		Social	Smart India Hackathon	18
		International Conference	RTDEEE 2018	4
		Social	Engineers Day	39
41.	Ms. Aapurva		Induction Day	43
	Kaul		Smart India Hackathon	18
		Industrial Visit	Philips Lightning	51
			Talent Pull	51



5.6 Faculty as participants in Faculty development/training activities/STTPs (15)

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty development program: 3 Points
- Participation>5 days Faculty development program: 5 points

Table 5.6. Faculty as participants in Faculty development Program

	Name of Faculty	Ma	x 5 Per Faci	ulty
S.No.			2016-17	2015-16
1.	Dr. Lokesh Kr. Bansal	3	3	NA
2.	Mr. Rajesh Kumar Bathija		3	NA
3	Mr. S. S Manakatala	3	3	0
4	3 4 Ms. Shruti Kalra			3
5	5 Mr. Anil Jain			3
6	6 Ms. Vinita Mathur			3
7	7 Ms. Parul Tyagi			3
8	8 Ms. Ritu Vyas			3
9	Mr. Ashutosh	0	0	3
10	Mr. Sidharth Chaturvedy			3
11	Mr. Bhoopesh Kumawat	3	3	3
12	Mr. Deepak Shankla	0	0	0
13	Mr. Devesh Gupta	3	3	3
14	Mr. Anshul			3
15	Mr. Lokesh Kumar Sharma	3	0	3
16	16 Mr. Vikas Sharma			
17	Mr. Ashish Kulshrestha	0	0	3



18	Mr.Pravin Kumar Sharma			3
10	Ms. Shikha Gaur			3
20	Mr. Raj Kumar Jain	3	0	3
	Mr. Vikas Mishra	0	3	3
21	Mr. Veni Madhav			3
22 23	Ms. Aruna Yadav			3
24	Ms. Teena Sharma	3	3	0
25	Mr. Mangi Lal	3		3
26	Mr. Honey Agarwal			3
27	Mr. Jitendra Sharma			3
28	Mr. Sandeep Dotya	3		3
29	Mr. Rakesh Kardam	3		3
30	Mr. Devendra Sharma			3
31	Mr. Naresh Kumar		3	3
32	Mr. Katru Anand			3
33	Mr. Ashok Kumar			3
34	Mr. Ankur Gangwar			3
35	Ms.Neha Singh	3	3	3
36	Ms. Shivam Upadhyay	3		3
37	Ms. Deepmala Kulshrestha	0	0	3
38	Mr. Ashish Sharma	3	3	3



•	(Marks limited to 15) e assessment over three years		• • • • • •		
<i>RF</i> = Number of Faculty required to comply with 15:1 Student-Faculty ratio as per 5.1 Assessment = 3 x (Sum/0.5RF)			6.95	4.5	17.3
			44	44	44
Sum*			51	33	127
			CAY	CAYm1	CAYm
	Name of the Faculty		Μ	ax. 5 per Facul	ty
	Total	51	33	127	
48	Shweta shardha	0	0	3	
					-
47	Deepak Sankla	0	0	0	
46	Kirti Manish Sharda	0	0	3	
45	Mohit	0	0	3	•
44	Aapurva kaul	0	0	3	
43	Ms. Alpana Gupta			3	
42	Ragini Khandelwal			3	
41	Swati			3	
40	Ms. Nidhi Jain			3	
39	Ms. Preeti Barot		3	3	

Institute marks: 9.5

5.7. Research and Development (30)

5.7.1 Academic Research (10)

Details of Ph.D

 Table 5.7.1.1Details of Faculty who got Ph.D. degree during the assessment year 2017-18:



Dr. Vinita Mathur	Dr. Manisha Gupta	2017	Design and Development of Ultra-Wide Band Fractal Antennas for Communication System".	JECRC
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Table 5.7.1.2 Details of Faculty who are pursuing Ph.D.

Name of the	Ph.D	Year of	Details of	Area of	Status of Work & No.
Faculty	Pursuing	Registrati	Guide	Research	of publications
	University	on		work	
Ms. Parul	JECRC	2014	Prof. Deepak	VANET	Completed Within 1 year,6
Tyagi	University,		Dembla		publication
	Jaipur				
Mr. Ashutosh	RTU, Kota	2015	Prof. Lokesh	MANET	Completed Within 1.5
	university		Tharani		year,3 publication
Mr. Rajesh	RTU ,Kota	2011	Dr. R.S.	VLSI	About to complete
Bathija			Meena	Technology	
Ms. Teena	MNIT,	2013	Dr.Ravi	Optical	Completed Within 1 year,3
	Jaipur		Kumar	Communicati	publication
			Madilla	on	
Mr. Bhoopesh	MNIT,	2016	Prof. R.P.	Cognitive	2.5YEAR,1 Publication
	Jaipur		Yadav	Radio	
Mr.S.S.Mana	JECRC,	2015	Dr.K.M.Sing	Nanotechnol	2 year
ktala	University		h	ogy	Completed,2Publication
Ms. Neha	C.P.	2014	Dr. K.C.Roy	Optical fiber	Complete with in 1 year,4
singh	University				Publication

Faculty Publications: Following table indicates the list of ECE department faculty publications during the three assessment years.

Table 5.7.1.3 Details	of Publications
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S.No.	Name of Faculty	Publications
1.	Dr. Lokesh Bansal	2 SCI, 1 referred, 3 International
2.	Dr.Vinita Mathur	3 SCI-E,1 SCI, 6 Scopus, 1 Referred 5 international
3.	Parul Tyagi	1 SCI-E, 3 Scopus, 2 Referred, 4international
4.	Anil Jain	4international



4.	Shivam Upadhyay	11 international
5.	Ashutosh Sharma	3international
6.	Shikha Gaur	1 international
7.	Preeti	3international
8.	Neha Singh	1 Referred, 3 international
9.	Ms. Ritu Vyas	5international
10.	Mr. Vikas Sharma	5international
11.	Sandeep Dotya	3international
12.	Katru Anand	2 international
12.	Rajkumar Jain	3 international
13.	Mr. Ashish Kulshrestha	3international
14	Mr.Pravin Kumar Sharma	2international
15.	Mr. Vikas Mishra	4international
16.	Mr. Veni Madhav	1 international
17.	Mr. Mangi Lal	3international
18.	Mr. Rakesh Kardam	2international
19.	Mr. Naresh Kumar	5 international
20.	Mr. Katru Anand	2 international
21.	Mr. Ankur Gangwar	2 international
22.	Ms. Deepmala Kulshrestha	3 international



23.	Ms. Teena Sharma	1 international
24.	Mr. Ashish Sharma	3 international
25.	Mr. Deepak Shankla	3 international
26.	Mr. Mohit Rajput	1 international
27.	Ms. Shweta Sharda	1 international
28.	Ms. Kriti Manish	1 international
29	Mr.Mohit	2international
30.	Ms. Aapurva Kaul	linternational

5.7.2. Sponsored Research (5)

Name of Sponsored Research Lab	Sponsored by	Approx. Estimation
Xananoid (Robotics Lab)	Sak-robotics	1.5 lac
Embedded Lab	TechieNest	2.57 lac

Institute marks: 5

5.7.3. Development activities (10)

1. Product Development

Name of Students	Start-Up	Faculty Co- ordinator
Harshil Jain, Manav Sharma And	DIVYA AANG	Mr. Siddharth
Kushagra Singh		Chaturvedi
Kushagra Singh	PRATIKRIYA	Mr. Siddharth
		Chaturvedi

S.N	ROLL NO.	STUDENT ALLOTED TO	TITLE	ALLOTED
О.		GUIDE		GUIDES



Self Assessment Report

1	14EJCEC022	ANKIT GARG	ELECTRONIC DETECTOR FOR THE	Dr. Lokesh Kr.
2	14EJCEC023	ANKIT KUMAR	DETECTION OF EARTHQUAKES	Bansal,
2 3	14EJCEC023	ANUSHKA AGRAWAL	AND TSUNAMI	Ms. Preeti
			_	Barot
4	14EJCEC104	MANISH AGARWAL		M. Charl
7	14EJCEC008	AISHWARYA SHARMA	IEEE 754 FLOATING POINT ALU USING VHDL	Ms. Shruti Kalra,
8	14EJCEC011	AKANKSHA GUPTA		Ms. Geetika
9	14EJCEC024	ANMOL BHATNAGAR DUSHYANT MAROTHIA	_	Bhati Mathur
10	14EJCEC061			Mr. S. S
11 12	14EJCEC009 14EJCEC021	AJAY GUPTA ANJALI YADAV	CLOUD COMPUTING INFRASTRUCTURE	Mr. S. S Manakatala,
12	14EJCEC021 14EJCEC034	ARPIT GHIYA	INTRASTRUCTURE	Ms. Yazusha
14	14EJCEC035	ARPIT GUPTA	-	Sharma
15	14EJCEC092	KASHISH JINDAL	-	
16	14EJCEC112	MD NADEEM AFZAL	TEXT EDITOR FOR CODE	Mr. S. S
17	14EJCEC075	HEMANT THAWANI	1	Manakatala,
18	14EJCEC076	HIMANSHU BAKOLIYA	1	Ms. Yazusha
19	14EJCEC063	GAURAV SHARMA	-	Sharma
20	14EJCEC070	HARSH JHA	MODIFIED PEB FORMULATION FOR	Mr. Rajesh
21	14EJCEC091	KARUNA KOUL	HARDWARE EFFICIENT FIXED	Bathija,
26	14EJCEC016	ALOK KUMAR	WITH BOOTH MULTIPLIER	Ms. Aapurva Kaul
27	14EJCEC049	BHATTARU TEJASWINI	VACCINATION CARD	Mr. Anil Jain,
28	14EJCEC053	CHHAYA GAUTAM		Mr. Ashok
29	14EJCEC058	DIMPLE GARG		Kumar
30	14EJCEC106	MANSI SHARMA		
31	14EJCEC873	TANISHA AGRAWAL	HAND GESTURE CONTROLLED	Mr. Anil Jain,
32	14EJCEC881	VAISHALI SUMAN	ROBOT	Mr. Ashok
33	14EJCEC088	KANISHKA KUKREJA	_	Kumar
34	14EJCEC026	ANUBHAV SAXENA		
35	14EJCEC045	AYUSHI RAWAT	SMART CITY	Ms. Vinita
36	14EJCEC059	DIPANSHU SHARMA	_	Mathur, Ms. Parul
37	14EJCEC060	DIVYANSH BHARGAVA	_	Tyagi
38	14EJCEC177	RONAK KHANDELWAL		- , "B"
39	14EJCEC890	VIPUL GARG	DRIVE PROTECTION USING SMART	Ms. Vinita
40 41	14EJCEC897 14EJCEC854	YASH KUMAR JEPH SHUBHAM GARG	HELMET	Mathur,
41 42	14EJCEC854 14EJCEC850	SHUBHAM GARG	-	Ms. Parul Tyagi
43	14EJCEC189	SAURABH JAIN	LIBRARY MANAGEMENT SYSTEM	
44	14EJCEC856	SHUBHAM JAIN	4	Ms. Vinita Mathur,
45	14EJCEC896	YASH DOSI	1	Ms. Parul
46	14EJCEC128	NIDHI AGIWAL	1	Tyagi
47	14EJCEC186	SANYA KHATRI	ENTERPRISE NETWORK MANAGEMENT SYSTEM	Mr. Rajesh Bathija,
48	14EJCEC142	PARUL SIPPY		Ms. Aapurva



49	14EJCEC146	PIYUSH AGARWAL		Kaul
74		TTOSHAGAKWAL		Kaui
50	14EJCEC159	PUSHPENDRA SINGH NARUKA		
51	14EJCEC151	PRANAV BAHETI	RE BASED HOME AUTOMATION	Ms. Ritu Vyas
52	14EJCEC179	SAJID HUSSAIN		Ms. Kriti Manish Sharda
53	14EJCEC153	PRATEEK DAD	THE ULTIMATE CHILD TRACKER	Mr. Rajesh Bathija,
54	14EJCEC857	SHUBHAM JAIN		Ms. Aapurva Kaul
55	14EJCEC893	VIVEK KUMAR CHAURASIA	ACOUSTIC DETECTION OF REAR APPROACHING VEHICLES FOR	
56	14EJCEC195	SHIV RATAN	CYCLISTS	Ms. Ritu Vyas
57	14EJCEC894	YASH BHATT		, Ms. Kriti
58	14EJCEC001	AAKASH MANGAL		Manish Sharda
59	14EJCEC006	ADITYA GAUTAM	SENSOR BASED AUTOMATIC CONTROL OF RAILWAY GATE	
60	14EJCEC018	AMIT KUMAR		
61	14EJCEC020	ANADI VATSA		
62	14EJCEC007	ADITYA SHARMA		
63	14EJCEC047	BHARAT KODWANI	WRITING ROBOTS	Mr. Vikas Sharma , Ms. Yogita
64	14EJCEC052	BHUVNESH NAGAR	WEARABLE CAPTIONING DEVICE	Mr. Ashish
65	14EJCEC015	AKSHAY LAROIYA	FOR HEARING IMPARIED	Mr. Ashish Kulshrestha, Ms. Shweta
66	14EJCEC071	HARSHIL JAIN		Sharda
67	14EJCEC073	HARSHITA SHARMA		
68	14EJCEC103	MANAV SHARMA	WEARABLE CAPTIONING DEVICE	1
69	14EJCEC099	KUSHAGRA SINGH	FOR HEARING IMPARIED RFID BASED DIGITAL IFO CARD	
70	14EJCEC198	SHREYA AGNIHOTRI	CONSISTING RASHAN CARD,	
71	14EJCEC877	UMANGINI PANWAR	AADHAR CARD, VOTER ID CARD	
72	14EJCEC880	VAIDEHI SHARMA		
73	14EJCEC866	SUMAN KANWAR	SMART LIGHT MONITORING	Mr.Pravin Kumar
74	14EJCEC002	AANCHAL JAIN	SYSTEM	Kumar Sharma,
75	14EJCEC003	AARUSHI SINGH		Mr. Deepak
76	14EJCEC056	DEEPIKA	SMART LIGHT MONITORING	Shankla
77	14EJCEC062	GARVIT CHUGH	SYSTEM	



78	14EJCEC130	NIHAR JAIN	AUTOMATIC ROOM LIGHT	
79	14EJCEC132	NIKHIL GOYAL	CONTROLLER WITH VISITOR	
80	14EJCEC133	NIKHIL SARASWAT	COUNTER	
81	14EJCEC138	NITIN GOYAL	BUS TRACKER	Mr.Pravin
82	14EJCEC087	KANISHK BHARDWAJ		Kumar Sharma,
83	14EJCEC069	HAREEKESH GURJAR		Mr. Deepak Shankla
84	14EJCEC081	JAY KUMAR ISHAR	DENSITY BASED TRAFFIC LIGHT CONTROL USING GSM	Mr. Ashutosh Sharma, Mr. Lokesh Kumar Sharma
85	14EJCEC110	MAYANK KUMAR		
86	14EJCEC869	SURABHI SONI	HOSPITAL MANAGEMENT SYSTEM	Mr. Ashutosh
87	14EJCEC870	SURBHI SHRIVASTAVA	USING JAVA	Sharma,
88	14EJCEC874	TANVI KOLBHANDARI		Mr. Lokesh Kumar Sharma
89	14EJCEC193	SHAHRUKH KHAN		
90	14EJCEC872	SWAPNIL SHARMA	AUDIBLE WALKING STICK FOR	Ms. Shikha
91	14EJCEC891	VIRENDRA SINGH	VISUALLY IMPAIED PERSON	Gaur, Ms. Teena Sharma
02	14EJCEC892	VISHWAS SHARMA	DATA ANALYSIS BASED WEB	Ma Shiliba
92 92	14EJCEC892 14EJCEC067	HARDIK MITTAL	DATA ANALYSIS BASED WEB DEVELOPMENT	Ms. Shikha Gaur, Ms. Teena
92 93	14EJCEC067	GOPAL BAGRI		
				Sharma
94 95	14EJCEC090 14EJCEC094	KAPIL SINGH KETAN RAJE SINGH		
95 96	14EJCEC094 14EJCEC876	TORAL JAIN		
			SMART DUSTBIN- AN EFFICIENT	Ms. Neha
97	14EJCEC878	UTKARSH VASHISTHA	GARBAGE MONITORING SYSTEM	Singh , Mr. Mohit
98	14EJCEC886	VIDUSHI AGARWAL		Rajput
99	14EJCEC010	AJAY SINGH NATHAWAT		
100	14EJCEC019	AMIT KUMAR SHARMA	SECURITY SYSTEM USING RFID SMART CARD TECHNOLOGY	Mr. Raj Kumar Jain ,
112	14EJCEC025	ANSHUL SINGHAL		Mr. Devendra Sharma
113	14EJCEC043	AYUSH GANDHI		
114	14EJCEC852	SHUBHAM DUTT SHARMA		Ma Childre
115	14EJCEC855	SHUBHAM JAIN	WIRELESS CHARGER	Ms. Shikha Gaur,
116	14EJCEC884	VEDANT SHARMA		Ms. Teena Sharma
117	14EJCEC898	YASH SONI		



118	14EJCEC887	VIDUSHI CHAPLOT	GARBAGE MONITORING SYSTEM	Mr. Raj
119	14EJCEC889	VINUJ ARORA	FOR WASTE MANAGEMENT	Kumar Jain, Mr. Devendra
120	14EJCEC895	YASH CHATURVEDI		Sharma
121	14EJCEC899	YATENDRA GAUR		
122	15EJCEC200	ABHINAV SINH CHOUDARY	SMART POSITION OF REAR VIEW MIRROR IN AUTOMOBILE	Mr. Raj Kumar Jain ,
125	14EJCEC012	AKANKSHA SINGHAL		Mr. Devendra Sharma
126	14EJCEC033	ARPIT AGRAWAL		
127	14EJCEC039	ASHMITA AGARWAL	AUTOMATIC GREEN HOUSE SYSTEM	Mr. Vikas Mishra, Ms. Ritambhara
128	14EJCEC042	AVINASH KUMAR PAL		
129	14EJCEC150	PRAKHAR AGRAWAL	1	
130	14EJCEC187	SAURABH AGRAWAL	SMART PLANT MONITORING	Mr. Vikas
133	14EJCEC005	ABHISHEK KUMAR	- SYSTEM	Mishra, Ms. Ritambhara
134	14EJCEC036	ARPIT KUMAR		
135	14EJCEC038	ASHISH JOHN	CASHLESS TOLL TAX SYSTEM	Mr. Veni Madhav, Mr. Ankur Gangwar
136	14EJCEC184	SANJAY KUMAR JAIN		
137	14EJCEC077	HIMANSHU PRAJAPATI	MULTILEVEL SAFETY AND SECURITY SYSTEM FOR VEHICLE	Mr. Veni Madhav,
138	14EJCEC108	MANVENDRA KUMAR		Mr. Ankur Gangwar
139	14EJCEC109	MAYANK AGRAWAL		
140	14EJCEC122	NANDAN KUMAR RAY		
141	14EJCEC154	PRATEEK MAHESHWARI	SMART GARDEN	Mr. Mangi
142	14EJCEC155	PRATEEK SIROYA		Lal, Mr. Devesh
143	14EJCEC157	PRIYA ISRANI		Gupta
144	14EJCEC158	PRIYANKA MITTAL		
145	14EJCEC093	KAUSHAL VIJAY SINGH CHAUHAN	SMART CANE	Mr. Mangi Lal,
146	14EJCEC098	KUMAR SANU		Mr. Devesh
147	14EJCEC100	LOKENDER SINGH BHATI		Gupta
148	14EJCEC117	MOHIT CHAUHAN		



149	14EJCEC147	PIYUSH AGARWAL		
149	14EJCEC147	PIYUSH AGAKWAL	HOME AUTOMATION USING	Mr. Siddharth
150	14EJCEC196	SHIVAM KHANDELWAL	DIGITAL CONTROL	Chaturvedy, Mr. Ashish
151	14EJCEC858	SHUBHAM KHANDELWAL		Sharma
152	15EJCEC201	SHIVAM SUKHWAL		
153	14EJCEC143	PAURAV SINGH	GESTURE CONTROLLED ROBOT	Mr. Mangi Lal,
154	14EJCEC167	RAUNAK AGRAWAL		Mr. Devesh Gupta
155	14EJCEC174	ROHAN AGRAWAL		1
156	14EJCEC183	SANIDHYA MOHOVIA		
157	14EJCEC136	NISAR AHMAD	STUDENT SMART SECURITY SYSTEM	Mr. Siddharth Chaturvedy,
158	14EJCEC137	NITESH RATHORE		Mr. Ashish Sharma
159	14EJCEC165	RAKSHAK MATHUR		2.1
160	14EJCEC178	SAJAL SHARMA		
161	14EJCEC140	PARAG MANGAL	WIRELESS DETECTION FOR RASH DRIVING AND SPEED CHECKER FOR	Mr. Honey Agarwal ,
162	14EJCEC141	PARUL SHARMA	VEHICLES	Mr. Katru Anand
163	14EJCEC160	RAGHAV KABRA		
164	14EJCEC163	RAJAT KUMAR SAINI		
165	14EJCEC082	KAJAL KHANDELWAL	DYNAMIC WEB APPLICATION	Mr. Jitendra Sharma,
166	14EJCEC107	MANTHAN RAWAT		Mr. Bhoopesh Kumawat
167	14EJCEC111	MAYUR GUPTA		Kumawat
168	14EJCEC125	NEHA JADOUN		
169	14EJCEC027	ANUKRITI SHARMA	ENHANCED VAULT LOCKER	Mr. Jitendra
170	14EJCEC044	AYUSHI JAIN	PRIVACY AND SECURITY USING	Sharma,
171	14EJCEC867	SUNAINA YADAV	SMART PHONE ANDROID APP WITH PASSWORD PROTECTION	Mr. Bhoopesh Kumawat
172	14EJCEC029	ANUSHREE RAWAT		
173	14EJCEC032	ARCHANA VISWANATH	ENHANCED VAULT LOCKER	Mr. Constant
174	14EJCEC040	ASTHA JAISWAL	PRIVACY AND SECURITY USING SMART PHONE ANDROID APP WITH	Mr. Sandeep Dotya,
175	14EJCEC048	BHARAT RAMAWAT	PASSWORD PROTECTION WIRELESS VOLTAGE DETECTOR	Mr. Naresh Kumar
176	14EJCEC145	PAWAN KUMAR LAKHARA	ENHANCED VAULT LOCKER PRIVACY AND SECURITY USING	
177	14EJCEC156	PRAVIN SHARMA	SMART PHONE ANDROID APP WITH	
178	14EJCEC054	DEEPAK KUMAR	PASSWORD PROTECTION	



			WIDELEGG VOLTAGE DETECTOR	
			WIRELESS VOLTAGE DETECTOR WIRELESS VOLTAGE DETECTOR	
			ARDUINO BASED WEATHER	
			MONITORING SYSTEM	
179	14EJCEC041	ATUL SHARMA	WIRELESS VOLTAGE DETECTOR	
180	14EJCEC004	ABHINANDAN KUMAR	ARDUINO BASED WEATHER	
181	14EJCEC017	AMIT KUMAR	MONITORING SYSTEM	
182	14EJCEC164	RAJNISH KUMAR VEDANT	SMART STREET LIGHTENING	
			SYSTEM USING PIEZOELECTRICITY	
183	14EJCEC173	ROBIN KUMAR JAKHAR	FULLY AUTOMATED SOLAR GRASS	Mr. Sandeep
184	14EJCEC134	NIKITA AGARWAL	CUTTER	Dotya , Mr. Naresh
185	14EJCEC191	SAURABH RAHEJA		Kumar
186	14EJCEC180	SALONI SHARMA		
187	14EJCEC181	SANATH CHAUDHARY	RED SIGNAL ALERTING FOR TRAIN	Mr. Rakesh
188	14EJCEC152	PRASHANT KUMAR JHA	USING WIRELESS	Kardam,
189	14EJCEC129	NIDHI NAGAR	COMMUNICATION	Ms. Nidhi Jain
190	14EJCEC162	RAJAN KUMAR		
191	14EJCEC126	NEHA KUMARI	WIRELESS ELECTRONIC NOTICE	Ms. Shivam
192	14EJCEC194	SHASHIKANT SHARMA	BOARD	Upadhyay, Ms. Deepmala Kulshretha
193	14EJCEC865	SUDEEP GIRI		
194	14EJCEC851	SHUBHAM BANSAL		
195	14EJCEC046	AZAHARUDDIN KHAN	WIRELESS ELECTRONIC NOTICE	Ms. Shivam Upadhyay, Ms. Deepmala Kulshretha
196	14EJCEC051	BHUPENDRA SINGH	BOARD POST ACCIDENTAL EMERGENCY	
197	14EJCEC055	DEEPAK RANKAWAT	SYSTEM	
198	14EJCEC057	DHEERAJ KUMAR GOYAL	POST ACCIDENTAL EMERGENCY	
199	14EJCEC097	KRITIKA SINGH	SYSTEM	
200	14EJCEC101	MAHENDRA GODARA		
201	14EJCEC139	OSCEAN RAINA		
202	14EJCEC116	MEHAK PANDITA	POST ACCIDENTAL EMERGENCY	
203	14EJCEC166	RAKSHITA	SYSTEM	
204	14EJCEC168	RAVEENA SHARMA	AUTOMATIC VEHICLE ACCIDENT DETECTION AND RESCUE	
205	14EJCEC171	RISHABH MITTAL		
206	14EJCEC175	ROHIT VERMA		
207	14EJCEC172	RISHABH RAJ	MOBILE CONTROLLED ROBOT WITHOUT MICROCONTROLLER	
211	14EJCEC197	SHIVANGI NANGIA	VEHICLE TRACKING SYSTEM	
212	14EJCEC199	SHREYA SHARMA		
213	14EJCEC859	SHUBHAM VEER SAXENA	MOBILE CONTROLLED ROBOT	4
214	14EJCEC868	SURABHI SINGH	WITHOUT MICROCONTROLLER	
215	14EJCEC862	SIMRAN BHATIA	VEHICLE TRACKING SYSTEM	
216	14EJCEC871	SUWARNA SANT		



217	14EJCEC882	VARSHA CHATURVEDI
218	14EJCEC864	SPARSH ABHISHEK

2. Research laboratories

S.No	Name of Faculty	Research lab name	Faculty member/Student name
1	Mr. Ashutosh	Centre for Apps and Ideas	Developments of apps which comply with all social issues of india like agriculture, weather science, health, space science, education, employment, poverty etc.
2	Mr. Vikas Sharma	XENONIDS(Robotics Lab)	Product development in the area of Robotics, Embedded Systems and Mechatronics

3. Instructional materials

> Course file:

Each & every faculty prepare course wise lecture schedules, resource material and other rel ated instruction material before commencement of semester and is added to moodle. The st udents can login and access the content though internet.

PowerPoint Presentation:

Content wise instruction material is developed including PPT presentations, for all the cours es prior to the commencement of each semester which is monitored by course coordinators.

Hand Outs:

Where ever necessary, additional material and hand outs are prepared and the same is made available to students through Moodle.

Laboratory manuals:

Laboratory manuals: are prepared and Laboratory instruction is given through Lab manuals at the beginning of each semester and demonstration classes are delivered for better underst anding of concepts behind laboratory experiment.

- ➢ Working models/charts/monograms etc.
- Relevant Charts are displayed in all Laboratories so that realization becomes easy for the stu dents.
- ➤ A project model competition titled "J-TechTrix" held every year for students to enhance their interpersonal and intrapersonal skills.



The department has many models created by students and are been displayed in Laboratori es. This prototype models helps the students to understand the working of basics and recent t echnologies in a better manner.

5.7.4. Consultancy (from Industry) 5/(5)

	Details of Consultancy by Faculty Member/Staff of Electronics & Communication Engg. Department								
S. No.	Name of Faculty/Staff Member	Designation	Particulars	2015-16 (Rs.)	2016-17 (Rs.)				
1	Mr. Raj Kumar Jain	Astt. Professor	Mentoring of students outside JECRC for GATE examination	30000	45000				
2	Mr. Rajendra Sirowha	Lab Technician	Reparing of Computer Hardware	12000	15000				
3	Babulal Sharma	Lab Technician	Home Appliances (T.V., Radio, Setup Box, etc.)	Nil	24000				
4	Rakesh Kumar	Lab Technician	Home Wiring and Appliances (Press, Water Heater, etc.)	Nil	18000				
	To	tal Amount Rs.		42000	102000				



5.8 Faculty Performance Appraisal and Development System 30/(30)

Jaipur Engineering College and Research Centre, Jaipur

FACULTY APPRAISAL FORM (Session 2016-2017)

For best faculty award

Total 200 points

S. N o.	Name of Faculty Member: Designation: Department: Item Name	Max imu m Poin ts	Poin ts obta ined			
	Academic result 30 points average (90% students having more than 70% : 30 points, 80-89% students having more than 70% result: 27 points, 70-79% students having more than 70% result: 24 points, 60-69% students having more than 70% result: 18 points, 50-59% students having more than 60% result: 15 points else ZERO)					
	Example:	-				
	Theory Subject Points obtained	30				
1	Sub-1 30					
	Sub-2 27					
	Sub-3 0					
	Sub-4 18					
	Average points scored 75/4 i.e. 18.75					
	No marks for Labs subjects Research Publication 20 points average (1 sci indexed publication: 10 points, 1 publication having ISSN					
2	number : 5 points, Else ZERO)					
3	Faculty development programme 10 point average (one faculty development programme minimum 5 days attended 5 points, 2 points for attending 2 days workshop, subject to maximum of 10)					
4	International / National conference 10 points average (5 points for attending International, 3 points for attending National of repute, 2 points for National conference)	10				
5	Research grant average 20 points for having grant of more than 5 lakh, if only project submitted to DST/other govt agency: 10 points, subject to maximum 20	20				
6	Patent 10 points	10				
7	Product development / startup 10 points	10				
8	Course material prepared for Govt job cell 15	15				
9	Innovation in teaching learning, video lecture, online MOOCs, Online notes uploading, any other 20 points					
10	Technical activity organized 5 points					
11	Participation in social responsibility 5 points / activity subject to maximum of 10					
12	Institute level activity organized 5 points, participation 2 points subject to maximum of 5					
13	Any award received, session chair in conference, guest lecture, invited talk, etc. 5 points	5				
14	HOD recommendation maximum 30 points (Departmental responsibility 2 points, NBA related activity 5)	30				
	Total	200				

Note: HOD will verify the documentary proof. Signature of Faculty

Signature of HOD



Self Assessment Report

5.9 Visiting/Adjunct/Emeritus Faculty etc. 10/ (10)

1. Mr. Harish

- 2. Ms. Ankita
- 3. Mr. Siddhartha (3)



CRITERION 6

Facilities and Technical Support

80

6. FACILITIES AND TECHNICAL SUPPORT (80)6.1. Adequate and well equipped laboratories, and technical manpower (30)

		No. of			Technical Manpower Support			
Sr. No.	Name of the Laboratory	students per setup (Batch Size)	Name of the Important Equipment		Name of the technical staff	Designati on	Qualification	
1	EDC LAB	3 (20)	P-N junction diode apparatus Zener .diode apparatus Transistor characteristics apparatus. Clipping & Clamping circuit apparatus. Half wave, Full wave bridge rectifier, Common collector transistor amplifier FET characteristics. Scientech 50Mhz digital storage, Digital function generator 2Mhz. Digital Function generator 2Mhz Two stage R-C coupled amplifier kit.	24	Mr. Sitaram Saini	Lab Technici an	Diploma In Electronics	
2	MEASUREM ENT & INSTRUMEN TATION LAB	3 (20)	Wein's Bridge (Capacity), Anderson's Bridge, Maxwell Inductance Bridge, Wein's Bridge (frequency). Ultrasonic digital distance meter. RTD Trainer kit, Single Phase Energy Meter LCR-Q Bridge . Solar Educational Kit Digital Earth Tester	24	Mr. Amit Jain	Sr. Instructo r	Polytechnic Diploma	
3	ELECTRONI C INSTRUMEN TATION	3 (20)	Push Pull Power Amplifier Kit, Voltmeter, Voltmeter, Two Stage R-C Coupled Amplifier, Voltage Regulator, Voltage Multiplier, Opamp Designer Trainer Kit, Bootstrap Sweep Generator, BJT Trainer Kit,	24	Ms. Vaishali Yadav	Lab Technici an	Diploma In Electronics	



Self Assessment Report

C			Self Assessment Report	Page 201		<u> </u>	I
7	DIGITAL	3 (20)	Supply, Data Formatting & carrier modulation / Receiver Trainer, function Generator PCM, DPCM, CVSD modulation & demodulation	24	Mr. Gaurav	Lab	Diploma In
6	COMMUNIC ATION LAB 1ST	3 (20)	Sampling & Reconstruction Trainer, Data Formatting & Carrier Modulation Transmitter, TDM Pulse Code Modulation Receiver, TDM Pulse Code Modulation Transmitter, Delta, Adaptive Modulation & Demodulation. PAM, PPM, PWM Mod. & Demodulation. Transmission Line Trainer , CRO, Digital Storage CRO 150 MHz, FM modulation & Demodulation, DSB/SSB AM Modulation .Tx, DSB/SSB AM Demodulation. Rx, Power Project Board, TDM PA Mod/Demodulator, Dual Power	24	Mr. Gaurav Goyal	Lab Technici an	Diploma In Electronics
5	ANALOG ELECTRONI CS LAB	3 (20)	Series Voltage Regulator, Shunt Voltage Regulator, Wein's Bridge Oscillator, FET Common Source Amp. Push Pull Amp. Phase Shift Oscillator, Hartley Colpitt Oscillator, UJT Characteristics, UJT Relaxation, MOSFET, CMOS IC, Digital Storage CRO, Function Generator(6), CRO(6)	24	Mr. babu Lal Sharma	Lab Technici an	Diploma In Electronics
4	DIGITAL ELECTRONI CS LAB	3 (20)	Scientech Digital Kit(5), Digital Trainer Kit(10)	24	Mr. Ramovtar Saini	Lab Technici an	Diploma In Electronics
	WORKSHOP		Attenuator & Equalizers CRO, Dual Trace With Ct CRO, Dual Trace With Ct & FG, DECADE CAPACITANCE BOX, Decade Résistance Box, Decade Inductance Box, Digital Multimeter, Emitter Follower, Function Generator Function Generator With Frequency Counter, FET Trainer Kit, Rectifier Trainer Kit, Oscillator Trainer Kit, Opamp Characteristics Trainer Kit, P-N Diode & Zener Diode Trainer Kit, Power Supply,				



	COMMUNIC ATION LAB		trainer, MSK modulation & demodulation Trainer Delta , adaptive delta ,sigma delta Mod. & Demodulation trainer, Cyclic code experimental setup, Block code encoder , Block code decoder ASK, FSK BPSK, DBPSK experimental Setup TDM-PAM trainer kit, Sampling & Reconstruction trainer, Data Formatting and Carrier modulation, Data formatting & carrier Demodulation, 4 channel TDM-PCM transmitter Receiver, QPSK, OQPSK, DQPSK modulation & demodulation trainer		Goyal	Technici an Lab	Electronics
8	MICROPROC ESSOR LAB	3 (20)	Microprocessor kit 8085(15)	24	Mr.Rajesh Yogi	Technici an	Diploma In Electronics
9	MICROWAV E LAB	3 (20)	klystron power supply , Gunn power supply, Microwave test bench(klystron), Microwave test bench (Gunn diode), Spectrum analyzer, VSWR meter, Solid state klystron power supply, CRO 150 MHz, Microwave test bench(klystron), Microwave test bench (Gunn diode), Microwave test bench (s band)	24	Mr.Rakesh Talwara	Lab Technici an	Diploma In Electronics
10	ANTENNA AND WIRELESS COMMUNIC ATION LAB	3 (20)	GPS Trainer Kit, Radar Trainer Kit, CRO dual channel, function generator, CDMA direct sequence spread, spectrum (DSSS) trainer kit, antenna trainer lab ATS40, antenna trainer ATS2000, satellite communication trainer kit, antenna digital RF TX ATS200IT, satellite communication trainer up link TX, satellite communication trainer down link RX, satellite communication trainer, Satellite transponder, fiber optic trainer, Fiber optic connectors kit display board, fiber optic cable sample kit display board, laser trainer model lt2506, voice communication using DSSS	24	Mr.Harish Kumar	Lab Technici an	Diploma In Electronics



Self Assessment Report

SAMPLE COPY OF LAB FILE



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

ELECTRONICS AND COMMUNICATION DEPARTMENT



LAB FILE

EDC LAB

LAB IN CHARGE : - MANGILAL

TECHNICAL ASSISTANT: - Mr. Sitaram Saini



Self Assessment Report

SAMPLE COPY OF LAB FILE (Contd..) <u>INDEX</u>

Table 6.3: Sample of Index in EDC LAB File
--

S.NO	CONTENTS	PAGE NO.
1.	Vision/Mission	3
2.	Program Outcomes (POs)	4
3.	Program Educational Objectives (PEOs)	5
4.	Program Specific Outcome (PSO)	
5.	Course Outcomes (COs)	6
6.	Mapping of COs with Pos	7
7.	Syllabus	8
8.	Books	9
9.	Instructional methods	10
10.	Learning materials	11
11.	Assessment of outcomes	12
12.	Instructions sheet	13

1. Vision and Mission

Vision of Institute

To become a renowned center of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.

Mission of Institute

- **M1.** Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.
- M2. Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions.
- M3. Offer opportunities for interaction between academia and industry.
- **M4.** Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.



Vision of Department

To contribute to the society through excellence in scientific and technical education, teaching and research aptitude in Electronics & Communication Engineering to meet the needs of Global Industry.

Mission of Department

- **M1.** To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively apply their knowledge to design solution of problems arising in their career path.
- **M2.** To induce the habits of lifelong learning in order to continuously enhance overall performance.
- **M3.** Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.
- **M4.** To make the students responsive towards the ethical, social, environmental and economical growth of the society.

2. Program Outcomes (PO's)

- **PO1.** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and Electronics & Communication Engineering specialization to the solution of complex Electronics & Communication Engineering problems.
- **PO2. Problem analysis:** Identify, formulate, research literature, and analyze complex Electronics & Communication Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3. Design/development of solutions:** Design solutions for complex Electronics & Communication Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4.** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of Electronics & Communication Engineering experiments, analysis and interpretation of



data, and synthesis of the information to provide valid conclusions.

- **PO5.** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern electronic engineering and IT tools including prediction and modeling to complex Electronics & Communication Engineering activities with an understanding of the limitations.
- **PO6.** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Electronics & Communication Engineering practice.
- **PO7.** Environment and sustainability: Understand the impact of the professional Electronics & Communication Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8.** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Electronics & Communication Engineering practice
- **PO9.** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10.** Communication: Communicate effectively on complex Electronics & Communication Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11. Project management and finance**: Demonstrate knowledge and understanding of the Electronics & Communication Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12.** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of Electronics & Communication Engineering changes.

3. Program Educational Objectives (PEO's)

- **PEO1.** To provide students with the fundamentals of engineering sciences with more emphasis in Electronics & Communication Engineering by way of analyzing and exploiting electronics & communication challenges.
- **PEO2.** To train students with good scientific and Electronics & Communication Engineering knowledge so as to comprehend, analyze, design and create electronics & communication based novel products and solutions for the real life problems.
- **PEO3.** To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate



Electronics & Communication Engineering with social issues.

- **PEO4.** To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-long learning needed for a successful Electronics & Communication Engineering professional career.
- **PEO5.** To prepare students to excel in electronics & communication based industry and higher education by educating students in Electronics & Communication Engineering field along with high moral values and knowledge.

4. Program Specific Outcomes (PSO's)

- **PSO1.** Ability to apply the concepts of Embedded Systems and its applications.
- **PSO2.** Ability to apply Field Programmable Gate Array based applications.



5. COURSE OUTCOMES



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Course Outcome:

Course	Course Name	Course Outcome	Details			
		CO 1	Understand the characteristics of different Electronic Devices.			
	4	CO 2	Verify the rectifier circuits using diodes and implement them using hardware.			
121	amplifiers an	Design various amplifiers like CF, CC, common source amplifiers and implement them using hardware and also observe their frequency responses				
3ECI-21	Betronk 1	CO 4	Understand the construction, operation and characteristics of JFET and MOSFET, which can be used in the design of amplifiers.			
	De.	CO 5	Understand the need and requirements to obtain frequency response from a transistor so that Design of RF amplifiers and other high frequency amplifiers is feasible			

CO-PO Mapping:

Subject	Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	РО 8	РО 9	PO 10	PO 11	PO 12
	CO1	3	2	3	2	1							1
I evices	CO 2	2	3	1	3	3		6. 2		6		0.0	2
EFG	CO3	2	1	2	3	3							
3EC4 Electronic Lat	CO 4	3	2	3	2	2		0—9		<i>2</i> —≈		0-2	1
a	CO 5	3	2	1	2	2		8 3	· · · ·	8 3	· · · ·	8-2	ò
8	÷	3: Str	ongly	54. BC	2:	Mode	rate	Os A	1: 1	eak	6. 	Que – C	÷

Syllabus of 2nd Year B, Tech. (ECE) for students admitted in Session 2017-18



6. SYLLABUS

\bigcirc	RAJASTHAN TECHNICAL UNIVERSITY, KOTA
<u></u>	

MM:50	@L:0T:2P	1 credit
	MM:50	MM:50 9L:0T:2P

List of Experiments

Sr. No.	Name of Experiment
1.	Study the following devices: (a) Analog& digital multimeters (b) Function/ Signal generators (c) Regulated d. c. power supplies (constant voltage and constant current operations) (d) Study of analog and digital CRO, measurement of time period, amplitude, frequency & phase angle using Lissajous figures.
2	Plot V-I characteristic of P-N junction diode & calculate cut-in voltage, reverse Saturation current and static & dynamic resistances.
3.	Plot the output waveform of half wave rectifier and effect of filters on waveform. Also calculate its ripple factor.
ŧ.	Study bridge rectifier and measure the effect of filter network on D.C. voltage output & ripple factor.
5.	Plot and verify output waveforms of different clipper and clamper.
6.	Plot V-I characteristic of Zener diode
7.	Study of Zener diode as voltage regulator. Observe the effect of load changes and determine load limits of the voltage regulator
8.	Plot input-output characteristics of BJT in CB, CC and CE configurations. Find their h- parameters.
9.	Study of different biasing circuits of BJT amplifier and calculate its Q-point.
10.	Plot frequency response of two stage RC coupled amplifier & calculate its bandwidth .
11.	Plot input-output characteristics of field effect transistor and measure $l_{det} and V_{\rm p}$
12.	Plot frequency response curve for FET amplifier and calculate its gain bandwidth product.

Syllabus of 2nd Year B. Tech, (ECE) for students admitted in Session 2017-18



Self Assessment Report

7. INSTRUCTIONAL METHODS

7.1. Direct Instructions:

- I. Black board presentation.
- II. Power point presentation.

7.2. Interactive Instruction:

- I. Practical on respective equipment.
- II. Practical Examples.

8. LEARNING MATERIALS

- 8.1 Lab Manual
- 8.2 Reference Books

9. ASSESSMENT OF OUTCOMES

- 9.10 End term Practical exam
- 9.11 Quiz
- 9.12 Daily Lab interaction.

10. INSTRUCTIONS SHEET

We need your full support and cooperation for smooth functioning of the lab. *DO's*

- 1. Please switch off the Mobile/Cell phone before entering Lab.
- 2. Enter the Lab with complete data.
- 3. Check whether all equipments are available at your desk before proceeding for experiment
- 4. Intimate the lab In charge whenever you are incompatible in using apparatus
- 5. Arrange all the equipments and seats before leaving the lab.
- 6. Keep the bags in the racks.
- 7. Enter the lab on time and leave at proper time.
- 8. Maintain the decorum of the lab.
- 9. Utilize lab hours in the corresponding experiment.
- 10. Get your file checked by lab In charge before using it in the lab.

DON'TS

- Don't mishandle the apparatus.
- Don't bring any external material in the lab.
- Don't make noise in the lab.



- Don't bring the mobile in the lab. If extremely necessary then keep ringers off.
- Don't enter in the lab without permission of lab Incharge.
- Don't litter in the lab.

BEFORE ENTERING IN THE LAB

- 1. All the students are supposed to prepare the theory regarding the next experiment
- 2. Students are supposed to bring the practical file and the lab copy.
- 3. Previous practical should be written in the practical file.
- 4. Any student not following these instructions will be denied entry in the lab.

WHILE WORKING IN THE LAB

- 1. Adhere to experimental schedule as instructed by the lab incharge.
- 2. Get the previously executed program signed by the instructor.
- 3. Get the output of the current program checked by the instructor in the lab copy.
- 4. Each student should work on his/her assigned computer at each turn of the lab.
- 5. Take responsibility of valuable accessories.
- 6. Concentrate on the assigned practical and do not play games.
- 7. If anyone caught red handed carrying any equipment of the lab, then he will have to face serious consequences.



JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EDC LAB (3EC4-21)

SESSION (2017-18)

Table 6.6: Sample of Continuous Evaluation Sheet

SAIFURANGINEERING COLLEGE & RESEARCE CENTRE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Communication Lab-1 (5EC9A)

SESSION (2018-19)

sub-group																				
No.		1	١.				в				C		L .		D				E	
Exp. No.	P		5		1	2		s	1					Р		s	1	P		s
Exp. No. 1	9]	7	16	7	13	18	20	8	30	17	13	8	23	4	30	17	16	7	23	7
Exp. No. 2	16	17	23	1	9		16	-	13	0	20	12	30	14	1.000	8	23	12	30	
Exp. No. 3				1.1	16	17	23	17	1.00	7	161	1	13	1.1.0	20	8	30	17	13	1.1
Exp. No. 4	30		13	1	2.3	1-1	30	1.	1.1	1-	23		91	7	16	17	13	8	20	8
Exp. No. 5	13		20		30		13	1	-		30	1	16	17	23	12	91	7	16	7
Exp. No. 6	1000		27	1.1		10	1		24	×		10	24	19	1	10	27	8	17	9
Exp. No. 7	27		17		20		27	0.0	1.1	10		10	1.4	10	0	Q	17	1.0	24	19
Exp. No. 8	17	100	24	101-	27	8	11.00	19	1.00		21	b	20		27	8	24	19	111	0
Exp. No. 9	24		11	1	17	H	24	1.5	27		10.274				171	2	11	10	8	10
Exp. No. 10	1/1		8	10	24	19	-	1.	1	1.7.1.4			17	9	241	q	20		1 - 1	8

P- Date of performing experiments

S- Date of submitting experiments



JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Production Practice Lab

SESSION 2017-18

Table 6.7: Sample of Continuous Evaluation Sheet

			0	onti	BUON	as Ex	valu	ation	She	et- V	7-C2	-					
Sr. No.	Roll No.	Name of Student	1	2	Exp 3	4	s s	n La 6	9 File 7	(15) 8	9	10	Performance MM: 10	Viva-1 MM: 5	Viva-2 MM: 5	Attendanc g MM: 10	Total (Sessional MM: 45
he	16EJCEC154	PRIYANSHI AJMERA	1	1	15	1.5	1.5	1.5	15	15	1:5	1:5	9	4	4	10	41
12	16EJCEC155	PULKIT MUNIRAL	3	1	1	1	1-5	1.5	15	15	1.5	1.5	8	4	4	9	38
B.	16EJCEC156	PUSHPENDRA SARAN	1	1	1	1	1	j.	15	1	2-1	1-5	7	3	3	8	32.5
AI	16EJCEC157	RACHITA JAIN	1	1	1.5	1.5	1.5	1.5	15	1	1:5	15	8	4	4	8	37.5
JA.	16EJCEC158	RAGHAV LADHA	1	1	1	1	1	15	12	2.1	1	2.0	7	3	4	9	35
16 1	16EJCEC159	RAHUL AGARWAL	1	1	1	1	1	1	1	15	125	18	6	2	2	8	28.75
t.	16EJCEC160	RAHUL KAYAMKHANI	1	1	1	1	1	1:25	125	1-5	1.5	15	7	2	3	8	32
1	16EJCEC161	RAHUL KULHARI	1	1	1	1:15	1-25	13	15	1.5	1.25	1.3°	8	3	3	8	34.25
J.	16EJCEC162	RAHUL MODI	1	1	1	1	15	1-15	15	15	1-5	15	8	3	3	10	36-75
10	16EJCEC163	RAHUL SHARMA	1	1	1	T.	1	1	125	125	15	15	7	2	2	9	31.5
vi1	I6EJCE/2164	RAHUL SUTHAR	1	1	1	1	1	1	1-35	15	15	15	파	3	4	7	327
-hz/	16EIC2C165	RAHUL VIKRAM CHAUHAN	1	L.	1	1-35	1.25	123	15	15	15	15	8	4	3	8	35 25
18	16EJCEC166	RAJAT KATARIA	1	1	1	10	r	1.53	1.35	115	15	1.5	Ŧ	3	3	8	35
14	16EDCEC167	RAMAKANT	1	12	125	1:25	128	15	15	145	1.50	125	8	3	4	2	35.75
15	16EJCEC168	RANDHIR KUMAR GUPTA	1	1	1	1.28	[3]	1	1.33	124	1.24	1.95	4	3	3	9	33-5
16.	16EJCEC169	RASHI PARIKH	1	1	1	13	13	g. 1. j	113	1.25	2.1	15	8	3	3	9	35.25
Mr.	16EJCEC170	RAUNAK KESHRI	1	1:5	1.S	15	1.5	1.5	15	21	24	3.5	10	4	5	10	435
18	16EJCEC172	RISHIKESH KUMAR JHA	1	1:5	1-5	140	1	-	-		1-5	1	10 -	54	5	1p	43.5
10	16EJCEC173	RITESH RANJAN	1	1	1	1200	10	-	1	1000	1 25	1.000	8	3	3	8	33.5
30	16EJCEC175	RIYA AGARWAL	1.3	120	4121	13	115	1.2	IS	1.5	1.5	13	10	4	5	9	42





JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

DETAIL OF EQUIPMENT EDC & AE LAB

<u>S.</u> <u>NO.</u>	<u>STOCK</u> <u>REG NO.</u>	DATE	<u>BILL</u> <u>NO.</u>	PARTICULARS	MAKE	<u>QTY.</u>	AMOUNT
1.	01	1/07/2014	176	ANALOG LAB TRAINER KIT	MARS	01	10900
2.	02	1/07/2014	176	CLIPPING & CLAMPING EXP. KIT	MARS	01	3250
3.	03	1/07/2014	176	DIGITAL FUNCTION GENERATOR (2MHZ)	MARS	01	7500
4.	004	1/07/2014	176	HALF WAVE FULL WAVE BRIDGE RECTIFIER KIT	MARS	01	4150
5.	005	1/07/2014	176	DIGIT DIGITAL MULTIMETER (MECO 3.5)	MARS	05	7000
6.	008	1/07/2014	176	DUAL TRACE OSCILLOSCOPE (30 MHz)	SCIENTECH	07	132300
7.	009	1/07/2014	176	DIGITAL STORAGE OSCILLOSCOPE (50 MHz)	SCIENTECH	01	27200
8.	011	1/07/2014	176	ZENER DIODE EXP. KIT	MARS	01	3450
9.	006	1/07/2014	176	P-N JUNCTION DIODE EXP. KIT	MARS	01	3450
10.	010	1/07/2014	176	TRANSISTOR CHARACTERISTICS EXP. KIT	MARS	01	5600
11.	007	1/07/2014	176	SINGLE OUTPUT 30VDC OUTPUT POWER SUPPLY	MARS	01	6200
12.	012	28/07/2014	176	FET COMMON SOURCE AMPLIFIER EXP. KIT	MARS	01	2730
13.	013	28/07/2014	176	CMOS CHARACTERISTICS EXP.KIT	MARS	01	3840
14.	014	28/07/2014	176	ACTIVE FILTERS EXP. KIT	MARS	01	4100
15.	015	28/07/2014	176	SHUNT VOLTAGE REGULATOR EXP. KIT	MARS	01	6500
16.	016	28/07/2014	176	COMMON COLLECTOR TRANSISTOR AMPLIFIER KIT	MARS	01	2730
17.	017	28/07/2014	176	WEIN BRIDGE OSCILLATOR EXP. KIT	MARS	01	2370
18.	018	28/07/2014	176	TWO STAGE R-C COUPLED AMPLIFIER EXP. KIT	MARS	01	2730
19.	019	28/07/2014	176	UJT CHARACTERISTICS EXP. KIT	MARS	01	5400
20.	020	28/07/2014	176	MOSFET CHARACTERISTICS KIT	MARS	01	5050
21.	021	28/07/2014	176	FET CHARACTERISTICS EXP. KIT	MARS	01	5050
22.	022	28/07/2014	176	UJT RELAXATION OSCILLATOR KIT	MARS	01	2370
23.	023	28/07/2014	176	PHASE SHIFT OSCILLATOR KIT	MARS	01	2370
24.	024	28/07/2014	176	PUSH PULL AMPLIFIER KIT	MARS	01	3090
25.	025	28/07/2014	176	SERIES VOLTAGE REGULATOR KIT	MARS	01	6500
26.	026	28/07/2014	176	COMMON EMITTER AMPLIFIER KIT	MARS	01	2730



Self Assessment Report

27.	027	28/07/2014	176	FUNCTION GENERATORS (2 MHz)	MARS	04	30000
28.	028	28/07/2014	176	HARTLEY AND COLPITTS OSCILLATOR	NVIS	01	4840
	TOTAL AMOUNT						3400

SAMPLE COPY OF LAB FILE (Contd..)

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

ODD SEMSETER

S.No.	BRANCH	LIST OF RUNNING LABS IN ODD SEM
1	3ECE	EDC LAB

EVEN SEMSETER

S.No.	BRANCH	LIST OF RUNNING LABS IN EVEN SEM
1	4ECE	AE LAB



SAMPLE COPY OF LAB FILE (Contd..)



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

LIST OF EXPERIMENT OF ODD SEM

EDC LAB (3ECE)

S.No.	LIST OF PRACTICALS						
1	 Study the following devices: (a) Analog & digital multi meters(b) Function/ Signal generators (c) Regulated d. c. power supplies (constant voltage and constant current operations) (d) Study of analog CRO, measurement oftime period, amplitude, frequency & phase angle using Lissajous figures. 						
2	Plot V-I characteristic of P-N junction diode & calculate cut-in voltage, reverse Saturation current and static & dynamic resistances						
3	Plot V-I characteristic of zener diode and study of zener diode as voltage regulator. Observe the effect of load changes and determine load limits of the voltage regulator.						
4	Plot frequency response curve for single stage amplifier and to determine gain bandwidth product						
5	Plot drain current - drain voltage and drain current – gate bias characteristics of field effect transistor and measure of Idss &Vp						
6	Application of Diode as clipper & clamper						
7	Plot gain- frequency characteristic of two stage RC coupled amplifier & calculate its bandwidth and compare it with theoretical value						
8	Plot gain- frequency characteristic of emitter follower & find out its input and output						
9	Plot input and output characteristics of BJT in CB, CC and CE configurations. Find their h-parameters						
10	Study half wave rectifier and effect of filters on wave. Also calculate theoretical & practical ripple factor.						
11	Study bridge rectifier and measure the effect of filter network on D.C. voltage output & ripple factor.						



SAMPLE COPY OF LAB FILE (Contd..)

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

LIST OF EXPERIMENT OF EVEN SEM

AE LAB (4ECE)

S.No.	LIST OF EXPERIMENTS
1	Plot gain-frequency characteristics of BJT amplifier with and without feedback in the emitter circuit and determine bandwidths, gain bandwidth products and gains at 1kHz with and without negative feedback.
2	Study of series and shunt voltage regulators and measurement of line regulation and ripple factor.
3	Plot and study the characteristics of small signal amplifier using FET.
4	Study of push pull amplifier. Measure variation of output power & distortion with load.
5	Study Wein bridge oscillator and observe the effect of variation in R oscillator frequency
6	Study transistor phase shift oscillator and observe the effect of variation in R & C \on oscillator frequency and compare with theoretical value.
7	Study the following oscillators and observe the effect of variation of C on oscillator frequency: (a) Hartley (b) Colpitts
8	Design Fabrication and Testing of k-derived filters (LP/HP).
9	Study of a Digital Storage CRO and store a transient on it.
10	To plot the characteristics of UJT and UJT as relaxation.
11	To plot the characteristics of MOSFET and CMOS.



Individual Lab Instructor Data Sheet

JECRC, JAIPUR



Name of the Lab Instructor

AMIT JAIN

:

Present Designation	:	LAB INSTRUCTOR
Email Id	:	amitjain6879@gmail.com
Contact Details	:	9314088836

I. Particulars of Educational Qualification: (only completed)

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	
UG	B.A ARTS		2006 PVT.		RAJASTHAN UNIVERSITY	
DIPLOMA	DIPLOMA	ELECTRONICS	2000	KHAITAN POLYTECHNIC COLLEGE JAIPUR	BTER JODHPUR [RAJ]	

II. Academic Experience : 16Y

III. Industrial Experience : NIL

IV. Awards/Achievements : NIL

VI. Research/Specialization : NIL



Self Assessment Report

EDC-3(Sitaram Saini)	8:30	9:30	10:30	11:30	12:30	1:30	2:30
(BF-14)(24)	1	2	3	4	5	6	7
Mon	AE L LabA1,]		-AE L Lab1,C1		C1-		
Tue	AE L LabA2,]		-AE Lab C2,ML	EDCC2-La	b1,		
Wed	AE La Lab1, D		-AE Lab C3,ML	EDCC2-La	b1,		
Thu	AE La Lab1, D	b EDCB1 PS	-			AE Lal Lab1, M) EDCD2- L
Fri	AE La Lab1,DF		-			AE Lal Lab1, M) EDCD3- L
Sat	AE La Lab1, D	b EDCB3 PS	-			AE Lal Lab1, M) EDCD1- L

SAMPLE COPY OF TIME TABLE OF EDC LAB FOR 2017-2018



6.2. Additional facilities created for improving the quality of learning experience in laboratories (25)

Sr. No.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students' are expected to have	Relevance to
					enhanced learning	POs/PSOs
1.	Establish "Robotics Lab" (Xananoids Club)	Lab containing electronic, pneumatic instruments, Provide the training to students: regarding newly job oriented and beyond syllabus courses		4 hrs per day (24 hrs. per week)	robotics based, Robotos in:	PO1, PO3, PO4, PO5, PO9, PO11, PO12
2.	Provide training on "Embedded Systems & Robotics" By TechieNest, (An ISO 9001:2008 Certified Company)., Jaipur		various job opportunities in	The contents covered during 90 hours for a batch.	students would be prepared to design Voice Control Robot, SPY Robot Robo Password access.	PO1, PO3, PO4, PO5, PO9, PO11, PO12
3.	Provide training on	Aftercompletionoftrainingstudentswillget	It will help them in grabbing	40 Hours for a batch	Studentswill be trained inLINUXbasedoperating	· · ·



Self Assessment Report

							-		-						
	"LINUX" By	prepared for	RHCSA	various	5	job			syste	ms				PO9,	
	Red Hat India	(Red Hat	Certified	opportunities in										PO11,	
	Private Ltd	System Adm	ninistrator)	MNCs	•									PO12	
		Exam and after	this exam												
		they will be	RHCSA												
		certified .													
4.	Provide	After completion	on of this	It will	help	them	28	Hours						PO1,	PO3.
	training on	course studen			-	bbing	for a l							PO4,	-
	"Embedded &	about basics of		various	U	job	101 4							PO9,	,
	Robotics	and roboti		opport										PO11,	
	design" By	electronics field		MNCs		111								PO12	
	Sakrobotix	ciccuonies neid		WII VCS	•									1012	
	research and														
	startup centre,														
Bhuvneshwar						•		<u> </u>							
		A	dditional l				1			D -			D 04	DO (201
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1	PO1	PO1
Estab	lish "Robotics Lab"	(vananoida)		M	М	Н	Н	Н	М	L	_	Н	0 M	H	2 H
	de training on "Em	(Robotics" B		M	H	H	H	M	L	-	H	M	H	H H
	ē	•			141	11	11	11	111	L		11	111	11	11
Jaipu	TechieNest, (An ISO 9001:2008 Certified Company)., Jainur														
	Provide training on "LINUX" By Red Hat India Private				М	М	Н	Н	М	L	_	Н	Μ	-	Н
Ltd															
	Provide training on "Embedded & Robotics design" By				М	М	Н	Н	М	L	-	Н	Μ	М	Н
Sakro	botix research and s	startup centre, Bhuv	neshwar												



REPORT ON TECHINEST TRAINING

<u>Course Name:</u> Embedded Systems & Robotics

Faculty Coordinator:

S.No.	Name	Department	Contact	Email
1	Devesh Gupta	ECE	9950005942	deveshgupta.ece@jecrc.ac.in

1. Duration of Training

Slot-1 Training Duration (90 Hours)

Date- 22th Jan.2018 to 15th March.2018 Time- 2:00 pm to 4:00 pm Venue- Cad Lab (CP-12, B Block)

Slot-2 Training Duration (90 Hours)

Date- 12th Feb.2018 to 5th April.2018 (approximated) Time- 2:00 pm to 4:00 pm Venue- Basement (CP-11, B- Block)

2. No. of Students Attending Training:

Slot-1 training Total Registration: 35

S. No.Branch6th Sem.4th Sem.Total1ECE62935

Slot-2 training Total Registration: 21

S. No. Branch 6th Sem. 4th Sem. Total



Self Assessment Report

	Depa	artmen	t of Ele	ctronics &	Communication Engineeri	ng
1	ECE	14	7	21		

3. <u>Type of Certification:</u>

After this training, students will be evaluated based on theory and practical examinations certified by **TechieNest**, (**An ISO 9001:2008 Certified Company**).

4. Skill Set:

During this training students would be trained in Embedded Systems & Robotics and they would be also aware about IoT technology. The detailed contents covered during this 90 hours program are as under.

Embedded Systems & Robotics (Regular Module)

DAYS	ТОРІС	DURATION
1	Introduction to ESR	
	Introduction to Technologies	3
	Microprocessors & Microcontrollers	
2	Embedded C Programming	3
	Light Emitting Diodes (LEDs)	
3	Introduction and Working of LED Matrix	3
4	Seven Segment Displays (SSDs)	3
5	DC Motors	3
6	Sensors	3
7	Practical 12: IR sensor as a binary color sensor	3
8	Light Searching Robot	3
9	Liquid Crystal Display (LCD)	3
10	Displaying a String on LCD using AVR	3
11	Relays	3



12	Keys/Switches	3
13	Keypad Matrix	3
14	Analog to Digital Converters (ADC)	
	Analog Sensors	3
15	QUERY SESSION WITH PRESENTATION FROM	3
	ABOVE TOPICS	
16	Sensors continued	3
17	Temperature Sensor based Alerting/Alarming System	3
	Ultrasonic Sensor	
18	Touch Sensors/Screens	3
19	Accelerometers	3
20	Frequency Synthesizing Techniques(DTMF)	3
21	Communication Systems(RF communication)	3
22	Communication Protocols	3
23	Bluetooth	3
24	RFID	3
25	Global Services for Mobile (GSM)	3
26	IoT Based Automation	3
27	TV Remote	3
28	Layout & PCB Designing	3
29	Component Mounting, Testing & Verification	3
30	Query Solving Session	3

5. Outcomes –

After completion of this training, students would be prepared to design Voice Control Robot, SPY Robot Gesture Control Wheel chair, GSM Based Notice Board, Multi-Layer Security System, SMART Home Automation System (Voice, Remote, Smart Phones, Internet etc) RFID based



Attendance System using Local Database, Maze Robo, Grid Control Robo, Line Follower Robo, Password access. It will help them in grabbing various job opportunities in MNCs.

Jaipur Engineering College & Research Centre Department of Electronics & Comminication Engineering List of Students Enrolled for training on ''Embedded Systems'' by Techienest in 1st Batch (Duration 22-01-2018 to 15-03-2018)

Sr. No.	Name of Students	Email ID	Mobile No.	Branch	Semester
1	Varsh Namdev	Varshanamdev.ece19@jecrc.ac.in	7727834521	ECE	VI- D
2	Anuj Goyal	anujgoyal10reso@gmail.com	9460552705	ECE	IV-A
3	anjul Aswa	anjul7499.aswa@gmail.com	9413337411	ECE	IV-A
4	Jenisha yadav	jenisha0572@gmail.com	7073387357	ECE	IV-B
5	Apul Jain	apuljain5@gmail.com	9468954829	ECE	IV-A
6	Uttkarsh Goyal	uttkarsh97goyal@gmail.com	8239962966	ECE	VI- D
7	Sam Koshy Thomas	koshysamthomas@gmail.com	8058690347	ECE	IV-C
8	Bikram Bhattacharya	bikramajmer123@gmail.com	7426855589	ECE	IV
9	Shivong Sharma	Shivangsharma@gmail.com	7726965716	ECE	IV
10	Yash Tak	yasktak09@gmail.com	9166703041	ECE	IV
11	Prajjwal Joshi	prajjwalnama123@gmail.com	7737571623	ECE	IV-C
12	Prabal Jain	prabal4575@gmail.com	9413424671	ECE	IV-C
13	Saksham kapoor	sk08199@gmail.com	9461122938	ECE	IV-C
14	Rohan nandwana	rohan.nandwana@gmail.com	9650683614	ECE	IV-C
15	Rishikesh kumar Jha	jharishikesh18@gmail.com	9461777247	ECE	IV-C
16	Shubhdeep Chabra	chhabrashubhdeep@gmail.com	8561810770	ECE	IV- D
17	Shubham jain	shubhamjainrock1997@gmail.com	7891430455	ECE	IV-C
18	Tushar Sharma	tsharma633@gmail.com	9587822446	ECE	VI –D
19	Raunak Keshri	raunakkeshri05@gmail.com	9785938545	ECE	IV –C
20	Nishant Jain	nishantjain141@gmail.com	8696570535	ECE	IV
21	Pulkit Munjal	pulkit.munjal@gmail.com	7791833592	ECE	IV –C
22	Rajat Kataria	rajatkataria1999@gmail.com	7073017070	ECE	IV –C
23	Pranshul Singh	Pranshulsingh15@gmail.com	9672679367	ECE	IV –C
24	Nandita Jain	jain.nans17@gmail.com	7737869830	ECE	IV
25	Hardik Rathi	hardikrathi6@gmail.com	8426007971	ECE	IV
26	Rashi Parikh	rashiparikh9@gmail.com	9530402662	ECE	IV
27	Priya Bhargava	bhargavapriya98@gmail.com	9602960170	ECE	IV –C
28	Ramakant	ramakant0102@gmail.com	9789266425	ECE	IV –C



29	Yashika Sanghi	yashika.sanghi777@gmail.com	8397064850	ECE	VI –D
30	Shubhangi Sharma	sshubhangi077@gmail.com	7737128651	ECE	VI –D
31	Parth Mathur	parth.mathur0@gmail.com	7597923555	ECE	IV –C
32	parth Sharma	parthraj6@gmail.com	8058005005	ECE	IV –C
33	Peehu Choudhary	peehuchoudhary08@gmail.com	7587168520	ECE	IV –C
34	Gaurav Vaishnav	gauravvaishnav17@gmail.com	7397869035	ECE	II –B
35	Gaurav Goyal	goyal.gaurav1999@gmail.com	7689995343	ECE	IV –B

PROFILE OF TECHINEST FACULTY Harish Nagar

Embedded Research Engineer

He is a dynamic and highly committed technical professional and is constantly

engaged in research and development. The purpose that drives him all his life is

'Don't Quit' because today's suffering can leave anyone as a champion.

He has certification in ARM, Arduino UNO by and Water Rocketry with expertise in

Embedded System design and manufacturing, Robotic Design and Implementation.

FORTE

- Arduino UNO
- AVR (Advanced Virtual RISC)
- ARM (Advanced RISC Machine)
- PCB Designing
- PCB Fabrication
- Embedded C
- IoT



Self Assessment Report

Projects:

- Smart Restaurant System
- Real Time Clock
- GLCD Interfacing with Arduino and AVR.
- Nokia LCD Interfacing with Arduino and AVR.
- Biometric Project
- Security System
 - Temperature Controlled Automatic fan
 - Swarm Bot
 - Robotic Arm
 - Health monitoring system for soldiers.
 - Smart Helmet
 - Smart irrigation system
 - VLC controlled With Flex sensor
 - Electronic Voting Machine using Fingerprint Sensor.
 - Light controlled with Google assistant, Facebook, Telegram and other social site.

Training Delivery in colleges:

30-45 Days in house training given on Embedded Systems & Robotics in the following

Institutes-

- Jaipur Engineering College & Research Centre, Jaipur
- Rungta College of Engineering, Bhilai Chhattisgarh



Trained over 300+ students through training program of TechieNest SITP (Summer Industrial

Training Program, RITP (Regular Industrial Training Program) programs.

Also he has completed successful Workshops in-

- IIT Kanpur
- IIT Hyderabad
- IIT Roorkee
- IIIT Kalyani
- NIT Srinagar
- KITS Warangal
- NIFFT Ranchi
- Manipal University Jaipur
- Mody University Lakshmangarh, Rajasthan
- BIT Mesra, Jaipur
- Jabalpur Engineering College, Madhya Pradesh
- Prabhat Engineering college, Kanpur
- NIIT Neemrana, Rajasthan
- GEC Barton Hills
- JECRC, Jaipur
- Amity Noida and many more...





Jaipur Engineering College & Research Centre, Jaipur, RAJASTHAN



Sakrobotix research and startup centre, (Course Name- Embedded & Robotics design)



Faculty Coordinator's:

S.No.	Name	Department	Contact	Email
1	Vikas Sharma	ECE	9461060635	Vikassharma.ece@jecrc.ac.in
2	Shrikant Bansal	ME	9413884331	Shrikantbansal.me@jecrc.ac.in
3	Rahul Saini	EE	9785845882	Rahulsaini.ee@jecrc.ac.in

Duration of Training

Training Duration (28 Hours)

Date- 19th Jan.2018 to 22th Jan.2018 Time- 08.30 am to 5:30 pm Venue: - Robotics Lab & BF-07

Branch vise Students Participated

Training Total Registration: 66							
S. No.	Branch	Participations.	Sem				
1	ECE	11	6th				
2	Ist Year	66					



Self Assessment Report

Type of Certification

After completion of training students will get certificates from sakrobotix startup and research centre incubation with IIT guwahati in the field of robotics and embedded systems.

Syllabus of embedded and robotics training

In 28 Hours RHCSA training students will come through below mentioned syllabus.

- Micro-controller Basics
- Introduction to 8051 architecture
- Comparison of 8051 with RISC based systems and Microprocessors
- RAM, FLASH, UART and other peripherals.
- Pin configurations of different Micro-controllers
- Introduction to 8051 programming KIT
- Introduction & Assembly Language
- Branching & Looping
- I/O Programming
- Memory Modes & Arithmetic
- Introduction to C Programming for 8051
- Timers & counters, Serial Communication
- Interrupts & Handling ISR
- Software tools used for programming
- Hardware interfacing with peripherals

External Hardware Interfacing:

- Interfacing of LEDs
- Interfacing of Switches
- Interfacing of Relays
- Interfacing of LCD
- Interfacing of 7 Segment Display
- Interfacing of ADC
- Interfacing of Stepper Motors
- Interfacing of DC Motors
- Interfacing of Mobile Phone using DTMF
- Interfacing of Real Time Clock
- Interfacing of GSM
- Serial Communication
- Sensor Interfacing

Outcome of training

After completion of this course students learnt about basics of embedded and robotics in electronics field.



This learning will led students in their technical knowledge and better awareness and interest in technical activities and reflection will show in technical interviews of campus placements.

Generally students from 3rd and 4th year are well known of the robotics and latest technologies in electronics and comm. But by this students will start learning from their basic 1st semester so they can put it into gear from starting and till their final semester.

Level 2 training will start in next phase next year with updated and higher technologies syllabus like (Raspberry Pi, Arduino, ARM processor and IOT etc.). So students can enhance their basic knowledge after level 2 in the previous level.

A Report on Training Session

"Linux by RED HAT ACADEMY" Jaipur Engineering College and Research Centre, Jaipur

Organized By: Departments of ECE

Objective:

To aware research scholars, students and faculty members about the

- Brief Introduction of Red Hat
- Various career opportunists available in the market apart from Networking jobs
- Market significance of red Hat certification
- Career opportunities with red Hat certifications
- Training In campus is much better than training after Graduation/Masters

Target:

Faculty members, Research Scholars, Post-Graduate and Under-Graduate students of ECE, CSE, IT and EE departments.

Summary:

The ECE department of Jaipur Engineering College and Research Centre 15 day training session on "Linux Operating system by RED HAT ACADEMY" on 17th to 31th January 2018 at C- Block auditorium. And 19th Feb to 30 28 Feb 2018.



<u>Institute</u>

Network Nuts Delhi

<u>Trainer-</u>

Mr Alok Shrivastava Mr Gurmeet Singh **Outcome:**

- Students and research scholars were made aware about the RedHat linex operating system.
- Students knew about the benefits of such workshop so that they may get an insight into the field of linex which is an essential factor for the advancement of their career.

Scope for Improvement:

- Internationally renowned speakers may be call as resource persons.
- More no of participant can be gathered.
- Some hands on practice can be organized.

Training Session was held in two slots

Slot-1 was a successful event with Alok Sir and Gurmeet Sir, our students are get benefited with it up to a great extent and only because of both of you students are looking there career in Linux world.

Slot-2: As expected from Network Nuts team, again create a milestone. Mr. Somvir Sir, made huge impact on the students of all semester which shown there interest and instead of Holidays, students choose to learn Linux.

S. No	Roll No/ Student ID	Student Name Mobile No		Email Id
1.	15EJCEC006	Abhishek Sandilya	9829159079	akash.mathur4444@gmail.com
2.	15EJCEC008	Adhishwar Gupta	7073920248	nanhu9631@gmail.com
3.	16EJCEC005	Aditya Khandelwal	9549404090	sparshsinghal95@gmail.com
4.	15EJCEC010	Aishwarya bansal	9680365688	aish51197@gmail.com
5.	14ejcec012	Akanksha singhal	8068395539	anitpoonia550@gmail.com
6.	15EJCEC012	AKASH MANGAL	9782238501	hbharish0209@gmail.com



7.	15ejcec013	Akash mathur	7790938448	ajain4.aj@gmail.com
8.	15ejcec001	Akash mathur	8696720207	narayandevpura@gmail.com
9.	15ejcec017	Akshay bhardwaj	7728896002	dsharma051998@gmail.com
10.		Akshay Sharma	77742329463	samyak360@gmail.com
11.	16EJCEC009	Akshita Agarwal	7014689744	gagrani.akshay@gmail.com
12.	14EJCEC016	ALOK KUMAR	9783805227	bharat28195@gmail.com
13.	15EJCEC023	Aman .KR.bansal	7297802656	karunakaul4@gmail.com
14.	15EJCEC020	Aman Jain	9649819344	amanjn118@gmail.com
15.	15EJCEC022	AMAN JAIN	9571121717	Yashbhatt64@gmail.com
16.	16EJCEC015	Anand Gupta	7732832523	akashmangal.ece19@jecec.ac.in
		ANCHAL		vaishnaviajmera22@gmail.com
17.	15EJCEC025	KHANDELWAL	8764191770	
18.	15EJCEC026	Aneesh Ansari	9455108610	rohitraj9679@gmail.com
19.	15EJCEC027	Anil kumar lohar	9829160610	Bharatsaini0052@gmail.com
20.	15ejcec030	Anit kumar	7340107490	sharmaanushree816@gmail.com
21.	15EJCEC031	Anjali Sharma	8696756566	dipti2495@gmail.com
22.	14EJCEC021	Anjali Yadav	8005748982	harshitaagarwal.ece19@jecrc.ac.in
23.	15EJCEC034	Anmol Madan	8503080613	rohitghiya1999@gmail.com
24.	16EJCEC023	Anshul Dhaka	9468804677	shreyagoyal787@gmail.com
25.	15EJCEC038	Anushree Sharma	8387948230	radhikashekhawat1997@gmail.com
26.	14EJCEC032	Archana Viswanath	9887469135	tarushigoyal@gmail.com
27.	14EJCEC034	Arpit Ghiya	7976831376	abhisheksandilya.ece19@jecrc.ac.in
28.	15EJCEC042	Arushi Yadav	7062414376	abhilashk433@gmail.com
29.	15EJCEC044	Ashish agarwal	8560813164	kaustubhkhandelwal.cse20@jecrc.ac.in
30.	16EJCEC034	Ashutosh Maheshwari	8769187150	jaindeeksha09061999@gmail.com
31.	15EJCEC048	Atika Sharma	9828112326	preyasgarg.cse20@jecrc.ac.in
32.	15EJCEC053	Ayush Jain	9462178437	namandeepsingh.it20@jecrc.ac.in
33.	16EJCEC041	Bhagwan mundra	9694060831	yasdosi111@gmail.com
34.	14EJCEC048	Bharat Ramawat	9462982933	lakshaywadhwa001@gmail.com
35.	16EJCEC043	Bharat saini	9079721857	aashutoshmaheshwari.am@gmail.com
36.	15EJCEC055	BHAVYA HASIJA	7728888727	aneeshansari.ece19@jecrc.ac.in
37.	14EJCEC053	Chhaya Gautam	7742828076	agarwalnitisha1997@gmail.com
38.	16EJCEC053	Deeksha Jain	9587268724	akshitaaggrawal9898@gmail.com
39.	15EJCEC061	Deepak Agarwal	9521790301	yashika.sanghi777@gmail.com
40.	14EJCEC058	Dimple garg	7597494956	shivang60sharma@gmail.com
41.	15EJEJCEC065	DIPTI RATHORE	7742951890	yashkumarsati.ece19@jecrc.ac.in
42.	15EJCEC066	Divya Vyas	8504987688	anillohar03@gmail.com
43.	15ejcec067	Divyam Gupta	9783952043	@gmail.com
44.	15EJCEC068	Dravika Mehta	9414233032	deepak.agrw@gmail.com
45.	16ejcec063	ekta achha	8120556699	gupta.adhishwar@gmail.com
46.	15ejcec073	gaurav kumar	7903483528	anjaliyadav1703@gmail.com
40.	16EJCEC070	Harish Bhardwaj	8107816824	arpitghiya1995@gmail.com
48.	14EJCEC070	Harsh Jha	7688863702	ashishagarwal.ece19@jecrc.ac.in
40.	15EJCEC079	harshita agarwal	7877778262	alokk389@gmail.com
50.	14EJCEC075	hemant thawani	7611009122	arushiyadav.ece19@jecrc.ac.in



53.15EJCEC090jitesh dhoot9413600451aanchalk30@g54.15ejcec091kailash dan charan9784613422adityakaushik.	11@gmail.com
53.15EJCEC090jitesh dhoot9413600451aanchalk30@g54.15ejcec091kailash dan charan9784613422adityakaushik.	
54.15ejcec091kailash dan charan9784613422adityakaushik.	gmail.com
	.cse20@jecrc.ac.in
55. 15EJCEC092 Kanishk Ruhela 9166263694 prateeksahu6@	@gmail.com
56. 15ejcec093 karan singh 9602964561 nileshvyas111	•
57. 14EJCEC091 karuna koul 7073434117 atikasharma98	-
	ece19@jecrc.ac.in
	11302@gmail.com
	a.cse20@jecrc.ac.in
	se20@jecrc.ac.in
62. 15EJCEC103 Lakshita Sharma 8952072098 shivanshg1020	
	c.cse20@jecrc.ac.in
	ce19@jecrc.ac.in
	19@jecrc.ac.in
	i. ece19@jecrc.ac.in
67. 14EJCEC126 Neha Kumari 7062487747 jharishikesh18	
	nal372@gmail.com
	se20@jecrc.ac.in
	e19@jecrc.ac.in
	al.cse20@jecrc.ac.in
j j	an@gmail.com
	osinghjhala@gmail.com
	na22121997@gmail.com
74.14egecer4911aem khanderwar075909517sm/ungsmann75.15ejcec143pragya nahar9983306402neha.2stars@g	
76. 16EJCEC145 Prajjwal Joshi 7737571623 Kaushiki28mis	
70.10ESCEC144Prakashika Mishra9506995640pjreal007@gm	
	cse20@jecrc.ac.in
70.14EJCEC154Prateek Maheshwari9602177769dravikamehta@	
	123@gmail.com
81.15EJCEC153Radhika shekhawat9261360714shreyjain7878	-
82. 15EJCEC162 rambha kumari 9785566801 ad8298@gmai	
	rma@gmail.com
	ta0806@gmail.com
85.16EJCEC172Rishikesh Kumar jha9461777247jangidnaveen3	
	ece19@jecrc.ac.in
87. 16EJCEC179 Rohit ghiya 9462234873, radhikaa01230	
88. 16EJCEC180 Rohit Raj 9647718064 shana.ece19@	
89.15EJCEC188Sanket Sharma8387023145prakashikalmp	•
	19@jecrc.ac.in
	ece19@jecrc.ac.in
92. 15EJCEC802 shipra goyal 9660020093 jaintarun259@	•
	16@gmail.com
94. 15EJCEC807 Shreya goyal 8764148990 umangvinaik@	
	1@gmail.com
	@gmail.com



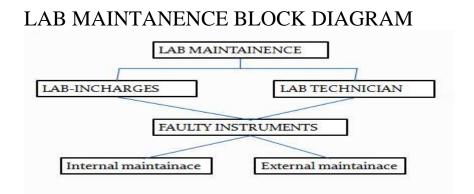
97.	16EJCEC820	Subham	9521376982	chhaya18gautam@gmail.com
98.	15EJCEC820	Sufal gupta	7073907527	paridhisharma.ece19@jecrc.ac.in
99.	16EJCEC828	Suyash Shrey Jain	9461269147	pragyanahar.ece19@jecrc.ac.in
100.	15EJCEC303	Umang Jain	8764271488	ektaachha.ece20@hecrc.ac.in
101.	15EJCEC829	Umang Vinaik	8209504307	pawan.mahawar01@gmail.com
102.	15EJCEC831	Utkarsh goyal	7074695013	shipragoyal1997@gmail.com
103.	16EJCEC838	Vaibhav Sachdeva	8700117343	divyavyas174@gmail.com
104.	14EJCEC886	vidushi agarwal	8769634604	rajpurohit1997@gmail.com
105.	14EJCEC887	Vidushi Chaplot	8107691158	naveenbarthuniya@gmail.com
106.	14EJCEC894	YASH BHATT	9461918644	ruhelakanisk@gmail.com
107.	14EJCEC896	YASH DOSI	9784921717	paranjsharma@gmail.com
108.	15EJCEC841	Yash Kumar Sati	8094865675	soumilk.k@gmail.com
109.	15EJCEC844	Yashika Sanghi	8387064850	akshaysharma.ece19@jecrc.ac.in

6.3. Laboratories: Maintenance and overall ambiance (10) (Self Explanatory)

(Self-Explanatory)

Maintenance of Laboratory Equipments:-

- Repairing of the faulty equipments is carried out by the technical staffs along with one technical in-house expert.
- Regular maintenance of equipment is carried out during free time slots as well as in winter/summer break, at the end of every semester.
- Stock registers are maintained in the separate laboratories and verified regularly.
- Maintenance of computers is taken care by the maintenance department of the institute.





Lab maintenance Process

(1)Lab Feedback:

- Meeting arranges By Hod with the Lab In charge.
- All issue regarding Lab discuss Like maintenance , requirement and set up of lab (Within 15 days)
- A feedback regarding lab also taken from student .
- All Data are collected.

(2)<u>Lab Feedback corrective action :</u>

- HOD discuses all feed back with Departmental lab In charge.
- Departmental Lab in charge collected all lab status and requirement with budget.

Repairing details of the faulty equipments are maintained in the department as under:

Status of Lah Maintenance

S.	Name	Name of	Prob	Repai	Component	Name of	BUDGET	BUDGET
No	of	Equipment	lem	ring	Required	Lab	BY	BY
•	lab			Date		Tech	OUTSOU	INHOUSE
							RCE	
1.	EDC	Wein	Not	10.11.17	1k Pot	Amit	225	30
		Bridge	Work		Replace	Jain		
		Oscillator	ing					
2.	Work	T.V	Dead	10.11.17	Bu 2020 D	B.L.	260	65
	Shop					Shar ma		
3.	DE	Power	Not	15.11.17	Bridge	Sitar am	225	25



	TAD	Correction 1	W/a ula		Destifier	Saini		
	LAB	Supply	Work		Rectifier	Sam		
		_	ing		Replace	~ .		
4.	DE	Power	Not	15.11.	Bridge	Sitar	225	25
	LAB	Supply	Work	17	Rectifier	am Saini		
			ing		Replace			
5.	DE	Power	Not	15.11.	Connector	Sitar	215	00
	LAB	Supply	Workin	17	Loose	Am Saini		
		11 2	g					
6.	DE	Power	Scientec	Not Work	16.11.	IC 7905	Sitar am	240
	LAB	Supply	h	ing	17	Replace	Saini	
7.	DE	Power	Scientec	Not Work	16.11.	IC7905	Sitar am	240
	LA B	Supply	h	ing	17	Replace	Saini	
8.	DE	Power	Scientec	Not Work	16.11.	Connecto	Sitar am	215
	LAB	Supply	h	ing	17	r Loose	Saini	
9.	EC	Zener Diode	Mars	Not Readi	18.11.	D.P.D.T/	Hem ant	280
	LAB	Charact		ng	17	Toggle	Shar ma	
		ertics				Switch		
10.	Phys	Energy	Mars	Not	30.12.	TR1005	Chan	260
	ics	Band		Work ing	17	replace	dan Sing h	
	Lab	Gap/PN		C		-	C	
		Diode Ckt.						
11.	EC	MOSFE	Mars/M	Dead	7.12.1	100uf	Hem	250
	LAB	T Ckt.	e 548		7	25v/20/O	ant Vasis th	
						m Replace		



Self Assessment Report

12.	EMI	RTD	MARS/	Not Work	7.12.1	IC 741	Amit Jain	300
	LAB	Trainer	1053	ing	7	Replace		
13.	EMI	Thermo	MARS	Not Work	7.12.1	Fuse	Amit Jain	250
	LA B	Couple		ing	7	Replace		
		Trainer						
		Kit						
<u>C NO</u>			ΟΤΧ		COMPONEN			COST DY
S.NO.			QTY	REPARING	COMPONEN	I KEUIKED	COST BY	COST BY
	EQUIMENT			DATE			OUTSOURSE	INOUSE
14	MULT	IMETER	25	27/7/17	BATERY		5000	600
15	DATA FORMATING		3	27/7/17	CONNECTOR		1000	80
	AND MODULATION				REPLACEME	NT		
16	IC TES	STER	3	27/7/17	SOCKET REPALEMENT 860		860	120
17	DIODE	E	10	10/7/17	TRANSISTOR	R, DOIDE	3600	350
	CHER	ECTERISTICS			REPLACE			
18	TRAN	SISTOR	10	20/7/17	RESISTANCE	REPLACE	5000	800
	CHAR'	TERISTIC						
19	FET K	IT	10	2/8/17	DRY SOLDER	RING	2500	500
20	ANTE	NNA STEPPER	1	27/8/17	DRY SOLDER	RING	300	0
	МОТО	R						
21	VCD P	PLAYER	1	27/7/17	JACK PIN RE	PLACEMENT	300	10
22	SOLDI	ERING IRON	8	27/7/17	DOIDE REPLA	ACE, MAIN	400	32
					WIRE			



-		1					
23	VOLTAGE	6	10/7/17	FUSE, IC 723 REPACEMNT	1240	120	
	REGULATOR						
24	UJT KIT	4	20/7/17	UJT, LM317, 2N2646`	1400	120	
25	DE MULTIPLAYER	8	2/8/17	FUSE, LEAD	1800	120	
	KIT			REPLACEMENT			
26	CMOS TO TTL KIT	4	27/8/17	ON OFF SWITCH REPLACE	1200	200	
27	BCD TO BINARY	4	27/7/17	TOGGLE SWICH	1300	60	
	CONVERTER			REPLACEMNT			
28	POWER SUPLLY	20	27/7/17	LM317, LM3055	5000	200	
				RPLACEMENT			
29	CRO	10	27/7/17	TRACKING, WD40 SPRAY	5000	300	
30	FUNCTION	12	10/7/17	TR 2219, 295 REPLACE	6000	400	
	GENERATOR						
31	ENERGY BAND	2	22/7/17	TR1005 OA79 REPALCE	650	45	
	GAP						
32	RTD AND	3	22/8/17	IC741, FUSE	960	60	
	THERMOCOUPLE						
33	COMMUNICATION	10	21/8/17	T3902 REPLACE	5000	240	
	KIT						
34	EC LAB	10	21/8/17	TWO WAY SWICH	4000	500	
				REPLACE			



Overall Ambience:-

- All laboratories are acoustics having sufficient natural light, proper ventilation with tubes and fan arrangement.
- Overall ambience of laboratory is good.
- Laboratory manuals are prepared and are available in hard copy in each lab.

List of items in the labs.

				NAME OF THE ITEMS												
<u>S.NO</u>	NAME OF LAB	ROOM NO.	LAB INCHARGE	EXPERIMENT TABLE	STOOL / STUDENTS CHAIR	FACULTY TABLE	FACULTY CHAIR	ALMIRAH	NOTICE BOARD	WHITE / BLACK BOARD	WINDOW	TUBE LIGHT	LIGHT	FAN	AC	POWER SWITCH BOARD
1	Work Shop Lab	BS- 15	Mr. Vikash Mishra	2	25	1	1	NIL	1	1	5	10	NIL	8	NIL	18
2	Signal Processing Lab	CP- 12	Mr. Honey Agarwal	14	28	1	1	NIL	1	1	2	8	NIL	4	2	16
3	EDC LAB	BF-	Mr. Mangi	10	30	1	1	2	1	1	4	4	NIL	4	NIL	15



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	-I	14	Lal													
4	Digital Electronics Lab-2	BS- 04	Ms. Yogita Taluja	7	25	1	1	1	1	1	4	4	NIL	4	NIL	11
5	EED LAB	BG -04	Mr. Rakesh Kardam	8	35	1	1	2	1	1	4	2	NIL	4	NIL	11
6	Microproce ssor Lab	BG -15	Mr. Katru Anand	7	25	1	1	2	1	1	8	2	NIL	4	NIL	10
7	Communic ation Lab	BG -16	Mr. Devendra Sharma	9	30	1	1	1	1	1	4	2	NIL	4	NIL	12
8	Signal & Image Processing Lab	BS- 13	Ms. Shinam upadhyay	14	32	1	1	1	1	1	4	8	NIL	4	2	12
9	JAVA Language Lab	BS- 14	Mr. Ashish Kulshrestha	14	32	1	1	NIL	1	1	4	8	NIL	4	2	12
10	Wireless Comm.Lab	BG -01	Mr. Veni Madhav	8	28	1	1	1	1	1	5	6	NIL	6	NIL	15
11	EDC LAB -II	BG -06	Mr. Lokesh Kumar Sharma	11	25	1	1	4	1	1	4	2	NIL	4	NIL	13
12	Digital Electronics Lab- 1	BL G- 16	Ms. Geetika Mathur Bhati	11	25	1	1	1	1	1	1	4	NIL	4	NIL	17
13	EDC LAB	DS-	Mr. Sandeep	15	33	1	2	2	NI	NI	2	NI	9	4	NIL	4
Gas	Solf Accessment Penert Page															



Self Assessment Report

		Depa	rtment	of Ele	ectro	onics	& Co	mmu	inica	tio	n Eng	ginee	ring		
-III Microwave 14 Engg. Lab	09 DS- 08	Dotya Ms. Teena Sharma	16	48	1	2	2	L NI L	L 1	2	L NI L	23	6	NIL	8
			1	LAF	3 PIC	S FOI	R AM	BIEN	CE						
							- H	ł				Dir a			
			i					- Int		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
and the second s		Self A	ssessme	ent R	ерог	۰t			Pa 24	ge 42					

6.4. Project laboratory (5)

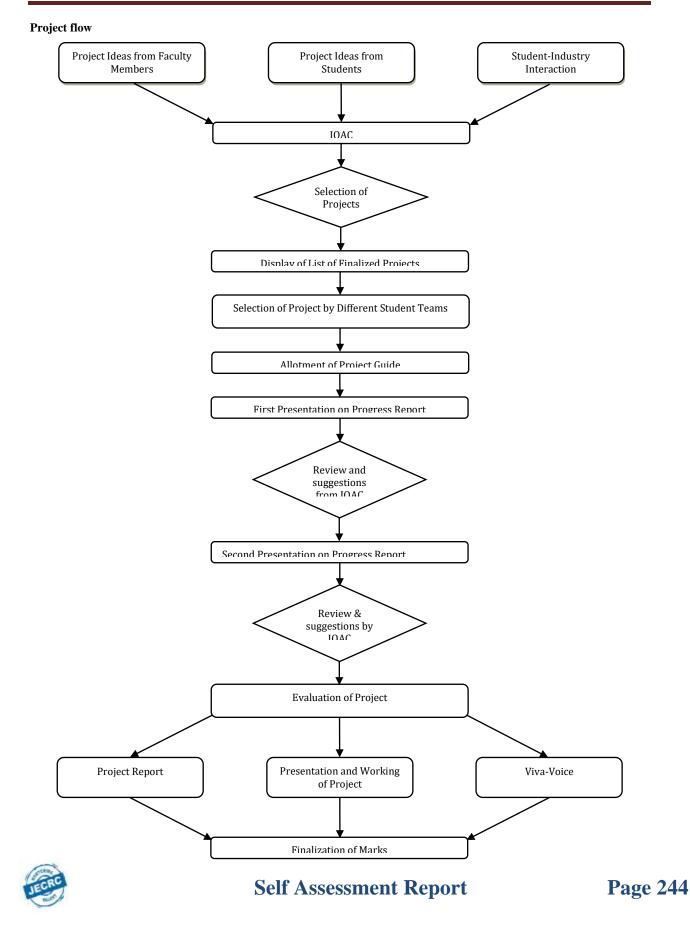
(Mention facilities & Utilization)

- Two hardware (workshop lab, embedded system lab) and one computer lab (CP-12) are used for project work.
- Technical support for the students is available throughout the day.
- All other labs are open for the students to carry out research regarding their projects, throughout the day.

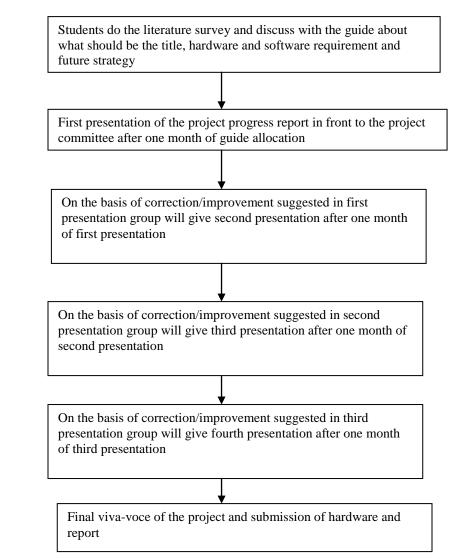
S.	Name of the	Facilities available to conduct Project
No.	Laboratory	works and Research work
1.	Workshop Lab	CRO, Function Generator, Drilling
		Machine, Etc.
2.	Embedded System	Different embedded system boards MSP
	Lab	430, are available
3.	Computer Lab	Internet with high speed is provided for
	(CP-12)	students for the project research work
4.	Signal Processing	DSK starter kits
	Lab	

Table 6.4 Facilities created in ECE department for projects:





PROJECT ASSESMENT FLOW



PROJECT COs AND CO-PO MAPPING

8EC8.1	CO1: Understand and review the available literature on the chosen problem
8EC8.2	CO2: Apply the methodology to solve the identified problem
8EC8.3	CO3: Analyze the principles and tools for the problem.
8EC8.4	CO4: Create the technique to solve the problem.
8EC8.5	CO5: Prepare and present project report



Self Assessment Report

POs COs	1	2	3	4	5	6	7	8	9	10	11	12
1	Н	Н	Н	Н	L	-	-	-	Н	L	-	М
2	Н	Н	Н	Μ	Н	Μ	Μ	-	Н	L	Μ	Н
3	Н	Н	Н	М	Н	М	Μ	-	Н	М	М	Н
4	Н	Н	Н	Μ	Μ	Μ	Μ	-	Н	Μ	L	Н
5	Μ	Μ	Μ	М	L	-	-	Η	Н	Η	Μ	Н

SAMPLE OF NOTICES

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NOTICE

August, 8, 2017

It is informed to all final year of academic session 2017-18 of ECE Deptt, that their guide allotment will be held on August 10, 2017. The guidelines are as under

- Students cannot form a group.
- Students will appear in front of the project committee in the order of their merit which is given below.
- A faculty list is given with their area of specialization/interest. Max of 2 projects will be allotted to the faculty.
- A group of students will be of 4 in max and 3 in min.
- Group of students will be taken from each section.
- Students came in specified order and will select a guide.
- When two groups formed of the particular faculty, then his name is crossed in the list.
- Section has to come in following time in cad lab.

Section	time
А	9:00 AM TO 10:30AM
В	10:30AM TO 12:00 NOON
С	12:30PM TO 2:00PM
D	2:00PM TO 3:30PM

RAJESH KUMAR BATHIJA



Self Assessment Report

(PROJECT IN-CHARGE)

Jaipur Engineering College and Research Centre, JAIPUR

Department of Electronics and Communication Engineering Schedule of Major Project Prestation of B.Tech. ECE VIII Sem 19-Jan-18

	19-Jaii-10
Presentation	dates
1st Project Presentation of VIII sem. Section-A	1/23/2018
1st Project Presentation of VIII sem. Section-B	1/24/2018
1st Project Presentation of VIII sem. Section-C	1/25/2018
1st Project Presentation of VIII sem. Section-D	1/27/2018
2nd Project Presentation of VIII sem. Section-A	2/16/2018
2nd Project Presentation of VIII sem. Section-B	2/17/2018
2nd Project Presentation of VIII sem. Section-C	2/23/2018
2nd Project Presentation of VIII sem. Section-D	2/24/2018
3rd Project Presentation of VIII sem. Section-A	3/9/2018
3rd Project Presentation of VIII sem. Section-B	3/10/2018
3rd Project Presentation of VIII sem. Section-C	3/16/2018
3rd Project Presentation of VIII sem. Section-D	3/17/2018
4th Project Presentation of VIII sem. All Sections	3/24/2018

VANUE: CAD LAB

RAJESH KUMAR BATHIJA PROJECT INCHARGE



Self Assessment Report

SAMPLE OF FRONT PAGE OF PROJECT REPORT

A

PROJECT REPORT

ON

"THEFT INTIMATION OF THE VEHICLE OVER SMS TO OWNER WHO CAN STOP THE ENGINE REMOTELY"

Submitted in partial fulfilment for the award of degree of

Bachelor of Technology

In

Electronics and Communication Engineering (RTU, Kota)



Project Guide:

1. Ms. Shruti Kalra 2. Mis. Geetika Bhati Mathur Submitted By:

ANJALI YADAV (14EJCEC021) ARPIT GHIYA (14EJCEC034) ARPIT GUPTA (14EJCEC035) AJAY GUPTA (14EJCEC009)

Submitted to: Mr. Rajesh Bathija

Mr. Rajesh Bathija (Associate Professor, ECE)

JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE (May, 2018)

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Self Assessment Report

Marks distribution of minor project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING

S.NO.	University Roll No.	Name	ASSESSMENT1 (20)	ASSESSMENT2 (30)	TOTAL (50)
1.	14EJCEC001	AAKASH MANGAL	16	24	40
2.	14EJCEC002	AANCHAL JAIN	16	25	41
3.	14EJCEC003	AARUSHI SINGH	18	27	45
4.	14EJCEC004	ABHINANDAN KUMAR	15	23	38
5.	15EJCEC200	ABHINAV SINGH CHAUDHA	17	25	42
		ABHISHEK	15	23	38
7.	14EJCEC006	ADITYA GAUTAM	19	28	47
8.	14EJCEC007	ADITYA SHARMA	18	28	46
9.	14EJCEC008	AISHWARYA SHARMA	19	28	47
10.	14EJCEC009	AJAY GUPTA	16	25	41

PROJECT-I MARKS OF VII SEM ECE 2017-18



Self Assessment Report

Marks distribution of minor project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING PROJECT-I ASSESSMENT-1 MARKS OF VII SEM ECE 2017-18

S.NO.	University Roll No.	Name	Dress up (2)	Title and content relevant (4)	Presentation skills (6)	Content (4)	Query handling (4)	total (20)
1.	14EJCEC001	AAKASH MANGAL	2	3	5	3	3	16
2.	14EJCEC002	AANCHAL JAIN	2	3	5	3	3	16
3.	14EJCEC003	AARUSHI SINGH	2	4	4	4	4	18
4.	14EJCEC004	ABHINANDAN KUMAR	2	3	4	3	3	15
5.	15EJCEC200	ABHINAV SINGH CHAUDHA	2	3	5	4	3	17
	14EJCEC005	ABHISHEK	2	3	4	3	3	15
7.	14EJCEC006	ADITYA GAUTAM	2	4	5	4	4	19
8.	14EJCEC007	ADITYA SHARMA	2	4	4	4	4	18
9.	14EJCEC008	AISHWARYA SHARMA	2	4	5	4	4	19
10		AJAY GUPTA	2	3	5	3	3	16



Self Assessment Report

Marks distribution of minor project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING PROJECT-I ASSESSMENT-2 MARKS OF VII SEM ECE 2017-18

S.NO.	University Roll No.	Name	Dress up (3)	Title and content relevant (6)	Presentation skills (9)	Content (6)	Query handling (6)	Total (30)
1	14EJCEC001	AAKASH MANGAL	2	5	7	5	5	24
2	14EJCEC002	AANCHAL JAIN	3	5	7	5	5	25
3	14EJCEC003	AARUSHI SINGH	3	5	9	5	5	27
4	14EJCEC004	ABHINANDAN KUMAR	2	5	6	5	5	23
5	15EJCEC200	ABHINAV SINGH CHAUDHA	3	5	7	5	5	25
6	14EJCEC005	ABHISHEK KUMAR	2	5	6	5	5	23
7	14EJCEC006	ADITYA GAUTAM	3	6	7	6	6	28
8	14EJCEC007	ADITYA SHARMA	3	6	7	6	6	28
9	14EJCEC008	AISHWARYA SHARMA	3	6	7	6	6	28
10	14EJCEC009	AJAY GUPTA	3	5	7	5	5	25



Self Assessment Report

Marks distribution of major project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR

DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING LIST OF STUDENTS OF VII SEM ECE WITH MAJOR PROJECT MARKS CRITERIA

S.NO.	University Roll No.	Name	INTERNAL (120)	EXTERNAL (80)	TOTAL (200)
1	14EJCEC001	AAKASH MANGAL	109	62	171
2	14EJCEC002	AANCHAL JAIN	112	72	184
3	14EJCEC003	AARUSHI SINGH	109	73	182
4	14EJCEC004	ABHINANDAN KUMAR	108	71	179
5	14EJCEC005	ABHISHEK KUMAR	107	69	176
6	14EJCEC006	ADITYA GAUTAM	112	74	186
7	14EJCEC007	ADITYA SHARMA	116	72	188
8	14EJCEC008	AISHWARYA SHARMA	118	76	194
9	14EJCEC009	AJAY GUPTA	108	71	179
10	14EJCEC010	AJAY SINGH NATHAWAT	114	73	187



Self Assessment Report

Marks distribution of major project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EXTERNAL ASSEMENT OF MAJOR PROJECT OF VIII SEM ECE 2017-18

		VIVA-	RUNNING	REPORT	Total (80)
				(30)	
		(20)			
University			(30)		
Roll No.	Name				
	AAKASH	16	22	22	62
14EJCEC001	MANGAL	10	23	23	02
		18	27	27	72
		10	21	21	12
		18	28	27	73
		10			, 0
		18	26	27	71
		17	26	26	69
		19	27	28	74
		18	27	27	72
	/	19	28	29	76
		18	26	27	71
		10	20	2,	/ 1
		18	28	27	73
	14EJCEC001 14EJCEC002 14EJCEC003 14EJCEC004 14EJCEC005 14EJCEC006 14EJCEC007 14EJCEC008 14EJCEC009	e e	University Roll No.NameVOCE (20)14EJCEC001Name1614EJCEC002AAKASH MANGAL1614EJCEC002JAIN1814EJCEC003SINGH1814EJCEC004KUMAR1814EJCEC005KUMAR1814EJCEC006GAUTAM1914EJCEC007SHARMA1914EJCEC008SHARMA1914EJCEC009AJAY SINGH18	University Roll No.NameVOCE (20)CONDITION OF PROJECT (30)AARAAKASH AANCHAL1623AANCHAL 14EJCEC002AANCHAL JAIN1827AARUSHI 14EJCEC0031828ABHINANDAN 14EJCEC0041826ABHISHEK 14EJCEC0051726ADITYA 14EJCEC0061927ADITYA 14EJCEC0071827ADITYA 14EJCEC0081928ADITYA 14EJCEC008192814EJCEC009AJAY GUPTA1826AJAY SINGH1826	University Roll No.NameVOCE (20)CONDITION OF PROJECT (30)(30)14EJCEC001MANGAL16232314EJCEC002AANCHAL JAIN18272714EJCEC002JAIN18282714EJCEC003SINGH18262714EJCEC004KUMAR18262714EJCEC005KUMAR17262614EJCEC006GAUTAM19272814EJCEC006GAUTAM18272714EJCEC006GAUTAM19272814EJCEC007SHARMA19282914EJCEC008SHARMA19282914EJCEC009AJAY SINGH182627



Marks distribution of major project of 2017-18 session JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MARKS OF PRESENTATION 1 OF MAJOR PROJECT 2017-18

			Dress	Title	Presentation	Content	Ouerv	total
				and	skills		handling	
			1	content			(4)	()
	University			relevant	· /		× /	
S.NO.	Roll No.	Name		(4)				
1.	14EJCEC001	AAKASH MANGAL	1	3	5	4	4	17
		AANCHAL	2	3	5	4	4	18
	14EJCEC003	AARUSHI	2	4	5	4	4	19
	14EJCEC004	ABHINANDAN KUMAR	1	3	5	4	4	17
5.	14EJCEC005	ABHISHEK KUMAR	1	3	5	4	3	16
6.	14EJCEC006	ADITYA GAUTAM	2	4	5	4	4	19
7.	14EJCEC007	ADITYA SHARMA	2	4	5	4	4	19
8.	14EJCEC008	AISHWARYA SHARMA	2	4	5	4	4	19
9.	14EJCEC009	AJAY GUPTA	1	3	5	4	4	17
10.		AJAY SINGH NATHAWAT	1	3	5	4	4	17



Self Assessment Report

Marks distribution of major project of 2017-18 session JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MARKS OF PRESENTATION 2 OF MAJOR PROJECT 2017-18

			Dress		Presentation			Total
					skills		Quely handling	
			-			(6)	0	30
	T			content			(6)	30
	University	NT		relevant				
S.NO.	Roll No.	Name		(6)				
		AAKASH	3	5	8	6	5	27
1.	14EJCEC001	MANGAL	5	5	0	0	5	21
		AANCHAL	2		0	(F	20
2.	14EJCEC002	JAIN	3	6	9	6	5	29
		AARUSHI	-		C.	_	_	
3.	14EJCEC003		2	4	8	6	5	25
	1120020000	ABHINANDAN						
4	14EJCEC004		3	5	8	6	4	26
4.	14EJCEC004							
_	145105000	ABHISHEK	3	5	8	6	4	26
5.	14EJCEC005							
		ADITYA	2	5	8	6	5	26
6.	14EJCEC006	GAUTAM	2	5	0	0	5	20
		ADITYA	3	5	8	C	4	26
7.	14EJCEC007	SHARMA	3	5	8	6	4	26
		AISHWARYA	_	_			_	• •
8.	14EJCEC008		3	5	9	6	5	28
			2	5	8	(5	26
9.	14EJCEC009	AJAY GUPTA	2	3	ð	6	3	26
		AJAY SINGH	2	5	0	C	4	26
10.	14FICEC010	NATHAWAT	3	5	8	6	4	26
10.								



Self Assessment Report

Marks distribution of major project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MARKS OF PRESENTATION 3 OF MAJOR PROJECT 2017-18

	,		1	Title and	1	1	1	
							C	
					ation	ent	handli	ai
	!		-	relevant		(6)	ng (6)	30
	'		(3)	(6)	(9)			
S.N	University							
0.	Roll No.	Name						
1.	14EJCEC00	AAKASH	3	5			5	27
	1	MANGAL	3	5	8	6	5	27
2.	14EJCEC00	AANCHAL			0		_	27
	2	JAIN	3	5	8	6	5	27
3.	14EJCEC00	AARUSHI	3	5	0	6	5	27
	3	SINGH	3	5	8	6	5	27
4.	14EJCEC00	ABHINANDAN	3	5	0	6	5	27
	4	KUMAR	3	5	8	6	5	27
5.	14EJCEC00	ABHISHEK	3	5	8	6	5	27
	5	KUMAR	3	J	0	6	5	21
6.	14EJCEC00	ADITYA	3	5	8	6	5	27
	6	GAUTAM	3	5	0	0	5	21
7.	14EJCEC00	ADITYA	3	5	9	6	5	20
	7	SHARMA	3	5	9	6	5	28
8.	14EJCEC00	AISHWARYA			0	C	_	27
	8	SHARMA	3	5	8	6	5	27
9.	14EJCEC00	,		_	0		_	27
	9	AJAY GUPTA	3	5	8	6	5	27
10.	14EJCEC01	AJAY SINGH	5	C	0	6		20
		NATHAWAT	3	6	8	6	5	28



Marks distribution of major project of 2017-18 session

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MARKS OF PRESENTATION 4 OF MAJOR PROJECT 2017-18

			Dress		Present	1	1	1
							handli	40
			· /	content			ng (8)	τu
S.N	University			relevan	(12)			
0.	Roll No.	Name		t (8)				
1.	14EJCEC00 1	AAKASH MANGAL	4	6	10	7	6	34
2.	14EJCEC00 2	AANCHAL JAIN	4	6	10	7	6	34
3.	14EJCEC00 3	AARUSHI SINGH	4	6	10	7	6	34
4.		ABHINAND AN KUMAR	4	6	10	7	6	34
5.		ABHISHEK KUMAR	4	6	10	7	6	34
6.	14EJCEC00 6	ADITYA GAUTAM	4	7	11	7	6	36
7.	14EJCEC00 7	ADITYA SHARMA	4	8	12	8	7	39
8.		AISHWARY A SHARMA	4	8	12	8	7	39
9.	14EJCEC00 9	AJAY GUPTA	4	6	10	7	6	34
10.	14EJCEC01 0	AJAY SINGH NATHAWAT	4	8	12	8	7	39



6.5. Safety	measures	in	laboratories	(10)
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Sr.	Subject Code	Name of the Laboratory	Safety measures
No.	25.07.4		
1.	3EC7A	Electronic Instrumentation Workshop	• Before switching on the power supply,
2.	3EC8A	Computer Programming Lab-I	get the circuit connections checked by the
3.	3EC9A	Electronic Device Lab	teacher/Instructor.
4.	3EC10A	Digital Electronics Lab	Maintain strict discipline.
5.	3EC11A	Business Entrepreneurship	• First aid kit is available for the safety
6.	4EC7A	Computer Programming Lab-II	measure.
7.	4EC8A	Analog Electronics Lab	• Do not touch or attempt to touch the
8.	4EC9A	Measurement & Instrumentation Lab	mains power supply Wire with bare
9.	4EC10A	Humanities & Social Sciences	hands.
10.	5EC7A	Electronic Engineering Design Lab	• Do not overcrowd at the tables in the
11.	5EC8A	Microwave Engg. Lab	laboratory.
12.	5EC9A	Communication Lab-I	• Carry out the experiments in such a way
13.	5EC10A	Signal Processing Lab	that nobody will be injured or hurt.
14.	5EC11A	Professional Ethics and Disaster	• Carry out the experiments in such a way
		Management	that the equipment will not be damaged
15.	6EC7A	Communication Lab-II	or destroyed.
16.	6EC8A	Microprocessor Lab	Sensitive electronic circuits and
17.	6EC9A	RF Simulation Lab	electronic components have to be
18.	6EC10A	Industrial Electronics Lab	handled with great care.
19.	6EC11A	Personality Development & General	• All the time ambulance facility is
	OECIIA	Aptitude	available, in case of any emergency.
20.	7EC7A	Signal & Image Processing Lab	
21.	7EC8A	Wireless Communication Lab	
22.	7EC9A	Practical Training & Industrial Visit	
23.	7EC10A	Project-I	
24.	8EC5A	RF Fabrication Lab	
25.	8EC6A	Industrial Economics & Management.	
26.	8EC7A	VLSI & Optical Fibre Lab	
27.	8EC8A	Project -II	
28.	8EC9A	Seminar	



CRITERION 7 Continuous Improvement	50
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7.1. Actions taken based on the results of evaluation of each of the POs & PSOs (20)

• Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment years.

POs Attainment Levels and Actions for Improvement during CAY- (2017-2018)

POs	Target	Attainment	Observations
	Level	Level	
fundam	entals, and	electronics and	e: Apply the knowledge of mathematics, science, engineering d communication engineering specialization to the solution of complex ngineering problems.
PO1	65%	51.00%	 Lack in implementing practical knowledge according to theoretical subjects. Complex problems were not properly handled by students due to lack in basic concepts.
•	Introductor Electronics Seminars a knowledge. Workshops Training Pr Industrial v were organi Seminar on	on CCNA Net ogram on Emb isits at Genus zed for improv Embedded Sy	 were made more technical for implementing basic subjects Basic munication and Digital Communication. were provided to the students for the implementing of practical tworking, Spy Robotics were organized. bedded Systems & Robotics was organized. Power, Tesca Technologies pvt. Ltd., BSNL, Philips lighting etc. ving practical knowledge. ystem was conducted. and National conference were organized.
commu	nication en	gineering pro	y, formulate, research literature, and analyze complex electronics and blems reaching substantiated conclusions using first principles of d engineering sciences.
PO2	63.3%	47.67%	 Need of strong analytical power in students. Students were facing problem in applying the principles for understanding the complex problem.
ACTIO)N: []4: -] .	• •,	

• **Industrial visits** were organized to improve the analytical skills.



- Technical events such as **Robowar**, **Robosoocer**, **line follower**, **Game of Drones** were organized to understand complex problems.
- Seminar on Embedded System was conducted.
- International conference and National conference was organized.

PO3: Design/development of solutions: Design solutions for complex electronics and communication engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.

PO3	56.67%	43.00%	• Less fulfillment of industrial approach in minor and major projects for the problem solutions.

ACTION:

- Projects needed to be designed to provide solutions of problems related to industrial work.
- Seminar on Embedded System was conducted.
- For the technical understanding **Technical events** were organized.
- Various Training programs, Workshops and Industrial visits were organized.
- International conference and National conference were organized.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of electronics and communication engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO4 63.33% 46.33%	• Lack in applying research based approach.
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ACTION:

- Emphasis is given to the project based learning by giving project based assignments.
- **International and National Conferences** were organized to develop interest into the students towards the research and publications.
- GATE questions which are related to **synthesis of the system** were included in Mid-Term papers.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern electronic engineering and IT tools including prediction and modeling to complex electronics and communication engineering activities with an understanding of the limitations.

10	dation of tools and software to fill the gap between y and academia are required.
----	---

ACTION:

- To upgrade students, Workshops on CCNA Networking and Spy Robotics were organized.
- To upgrade students, Training Program on Embedded Systems & Robotics was organized.
- Industrial visits at Genus Power, Tesca Technologies pvt. Ltd., BSNL, Philips lighting etc. were organized for improving practical knowledge of students.
- For the practical hands on experience technical events **Robofiesta and Hackathon** were conducted.
- For learning of modern tools, a seminar on Embedded system was conducted.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the



onal electro	onics and comm	unication engineering practice.		
59.26%	46.3%	• Content beyond the syllabus includes subjects related to needs of health safety and social needs of the society.		
N:	L	· · · ·		
Students w	ere motivated to	take a part in various social events such as Blood donation camp ,		
Zarurat ev	ent, Clean Indi	ia Campaign.		
nvironme	nt and sustain	ability: Understand the impact of the professional electronics and		
		ions in societal and environmental contexts, and demonstrate the		
<u> </u>	1	able development.		
62.5%	49.58%	• The role of students towards environment and global		
		awareness needs to be improved.		
	ere motivated t	o participate more in social activities and environmental awareness		
Students we	ere motivated to	join the Social groups.		
		ples and commit to professional ethics and responsibilities and norms		
ectronics a	nd communicat	ion engineering practice.		
60.42%	50.83%	• Along with increase in technical knowledge, ethical		
		knowledge was also required in graduates.		
	al lactures on Se	elf Realization by class coordinators were given to the students.		
		take a part in various social events such as Blood donation camp ,		
		-		
		: Function effectively as an individual, and as a member or leader in		
		•		
		• Few students were not able to make themselves compatible		
0200770		with other members in a group.		
N :	II			
Fechnical e	events were org	ganized to enhance leadership qualities in individuals as well as to		
	-			
• Students were also motivated to take a part in various social events such as Blood donation				
camp, Zarurat event, Clean India Campaign.				
• Emphasis was also given to make student projects in group.				
Communi	ication: Comm	nunicate effectively on complex electronics and communication		
ring activit	ies with the eng	gineering community and with society at large, such as, being able to		
		eports and design documentation, make effective presentations, and		
65%	48.67%	• Communication skills were not up to the mark.		
N:	1 I			
nteraction	with industry pe	ersons through guest lectures.		
	• •	as Group discursion, Personal Interview, Technical Interview were		
	-			
	59.26% N: Students we Zarurat ev invironmen nication en lge of, and 62.5% N: Students we orograms. Students we students we orograms. Students we of 0.42% N: Motivationa Students we Zarurat ev ndividual a teams, and 61.67% N: Fechnical en Students w Zarurat ev ndividual a teams, and 61.67% N: Fechnical en Students w Zamp, Zaru Emphasis v Communition activit rend and v receive cli 65%	59.26%46.3%N:Students were motivated to Zarurat event, Clean Indi- Carurat event, Clean Indi- Students mere motivated to thics: Apply ethical princi- ectronics and communicat62.5%49.58%N:Students were motivated to thics: Apply ethical princi- ectronics and communicat60.42%50.83%N:Motivational lectures on Sectudents were motivated to thics: Apply ethical princi- ectronics and communicat61.67%43.33%N:Motivational lectures on Sectudents were motivated to Zarurat event, Clean Indi- dividual and team work teams, and in multidiscipli dividual and team work teams, and in multidiscipli61.67%43.33%N :Fechnical events were org nake them work in team. Students were also motiva- communication: Comm ring activities with the engine nend and write effective r direceive clear instructions.65%48.67%N:Interaction with industry pe Different HR activity such		



- For improving presentation skills **International and National conferences** were organized.
- For improving communication skills some events such as **TEDX**, **Techinobuzz**, **TechnoPhila** and **MUN** were organized.

PO11: Project management and finance: Demonstrate knowledge and understanding of the electronics & communication engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO11	66.67%	47.67%	• Implementation and feasibility of various projects can be done by properly analyzing and managing them according to the financial availability.	

ACTION:

• Few classes were organized to understand the basic principles of financial analysis of projects.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life- long learning in the broadest context of electronics and communication engineering changes.

PO12	66.6%	51%	• Students of 3 rd and 4 th year need to have conceptual knowledge of few basic and important courses such as
			Embedded System, Networking which will help them in their future jobs.

ACTION:

- Video lectures along with detailed course contents were held and students were also registered in online courses launched by AICTE.
- For the lifelong understanding training and workshop were conducted on **Embedded System** and **Networking**.
- An Expert Talk on 'Control System and Real life' by **Dr. Rajeev Gupta on Control System** was organized.

PSOs Attainment Levels and Actions for Improvement during CAY- (2017-2018)

PSOs	Target Level	Attainment Level	Observations
PSO1: Ability	to apply the conce	pts of Embedded S	ystems and its applications.
PSO1	63.33%	39.33%	• Students were requiring knowledge of
			microcontroller and embedded systems for
			their projects in final year of engineering
			which was not available in curriculum.

ACTION:

- Special workshops and seminars were held for the students to increase their understanding of embedded systems.
- Student trainings were organized related to Embedded Systems.

|--|

PSO2	63.33%	31.33%	• Due to demand of latest technologies in
			industry students were required to know
			basics of latest applications.



• Extra programs based on VERILOG were added in the laboratory manual.

POs Attainment Levels and Actions for Improvement during CAYm1- (2016-2017)

POs	Target	Attainment	Observations		
	Level	Level			
PO1:	Engineerin		e: Apply the knowledge of mathematics, science, engineering nics and communication engineering specialization to the solution of		
	complex ele	ectronics and co	ommunication engineering problems.		
PO1	65%	48%	• Basic knowledge was not fulfilling the requirements of branch specific subjects such as Basic Electronics, Electronics Devices and Circuits, Digital Electronics, Communications, Wireless Networking, VLSI, Antenna etc.		
ACTI	ON:				
•	Emphasis w	as given on ba	sic subjects with practical implementation of their concepts.		
•	For practica	l hands on exp	erience, training on Embedded system was organized.		
•	For the awa	reness of recer	nt technologies National conference was organized.		
PO2:]	communica	tion engineerir	y, formulate, research literature, and analyze complex electronics and ag problems reaching substantiated conclusions using first principles of ces, and engineering sciences.		
PO2	63.3%	44%	• Correlation between Mathematics & science with engineering subjects was required.		
ACTI		are advised to a	observe the problems related to electronics in their surroundings.		
•			as technical events were organized.		
•	-		vstem was organized.		
engine approp	PO3: Design/development of solutions : Design solutions for complex electronics and communication engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.				
PO3	56.67%	39%	• Real time applications based projects need to be more understood by students.		
ACTIO	 ACTION: At department level various technical events such as Phoenix, Reverse Engineering, Robowar, Formula Zero, RoboRace, Robosoocer, LineFollwer were organized. Training on Embedded system was organized. 				



• National conference was organized.					
	PO4: Conduct investigations of complex problems: Use research-based knowledge and research				
			ectronics and communication engineering experiments, analysis and is of the information to provide valid conclusions.		
PO4	63.33%	43.33%	• Result oriented approach was required to solve complex		
			problems		
ACTIO	N:				
•			search fields, National conference was organized.		
•			sed on the Complex problem solving approach such		
	as Robov	var, LineFollv	ver, Robosoocer were conducted.		
			te, select, and apply appropriate techniques, resources, and modern		
			pols including prediction and modeling to complex electronics and		
			ties with an understanding of the limitations.		
PO5		49.47%	• Curriculum was lacking the subjects related to latest tools.		
ACTIO					
•]	For practica	al hands on exp	erience, training on Embedded system was organized.		
			y: Apply reasoning informed by the contextual knowledge to assess		
			d cultural issues and the consequent responsibilities relevant to the		
-	1		nunication engineering practice.		
PO6	59.26%	42.59%	• Requirement of subjects related to solution of social issues.		
ACTIO	N:	1 1			
•	Social grou	ps of students v	were formed.		
		-	to take a part in various social events such as Blood donation camp,		
			lia Campaign.		
		,	nability: Understand the impact of the professional electronics and		
communication engineering solutions in societal and environmental contexts, and demonstrate the					
knowledge of, and need for sustainable development.					
PO7	62.5%	45%	• Knowledge of environment and global awareness needs to be		
			improved.		
ACTION:					
Social groups of students were formed.					
• Students were motivated to take a part in various social events such as Blood donation camp ,					
Zarurat event, Clean India Campaign.					
PO8: Ethics : Apply ethical principles and commit to professional ethics and responsibilities and norms					
of the electronics and communication engineering practice.					
PO8	60.42%	45.42%	• Students are lagging in real life situations due to lack in		
			ethical moral knowledge.		
	1	1	· · · · · · · · · · · · · · · · · · ·		



ACTION:

- Meditation Sessions for the students were organized by the spiritual cell.
- Students were motivated to take a part in various social events such as **Blood donation camp**, **Zarurat event**, **Clean India Campaign**.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

ACTION :

- Emphasis was given for making students more and more work in groups such as Projects etc.
- At department level various **technical events** were organized.
- Students were motivated to take a part in various social events such as **Blood donation camp**, **Zarurat event**, **Clean India Campaign**.

PO10: Communication: Communicate effectively on complex electronics and communication engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO10	65%	45%	• Understanding of problem requirement analysis was lacking.	

ACTION:

- National conference was organized.
- For the improvement in communication skills such technical events **Techinobuzz** was organized.

PO11: Project management and finance: Demonstrate knowledge and understanding of the electronics and communication engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO1166.67%44.33%Study of projects according to financial analysis was required.

ACTION:

Awareness regarding financial implications was created among students.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life- long learning in the broadest context of electronics and communication engineering changes.

PO1266.6%46.67%Need of resources to enhance life-long learning.	PO12	66.6%	46.67%	Need of resources to enhance life-long learning.
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ACTION:

• Students were registered for video lectures on EDX and Swayam Portal.

PSOs Attainment Levels and Actions for Improvement during CAYm1- (2016-2017)

PSOs	Target Level	Attainment Level	Observations
PSO1: Abilit	y to apply the conc	epts of Embedded S	Systems and its applications.
PSO1	63.33%	38.67%	• Requirement of industry according to latest technologies, was not fulfilled by the regular courses.



ACTION:

• Trainings related to latest ARDUINO were provided.

PSO2: Abilit	PSO2: Ability to apply Field Programmable Gate Array based applications.						
PSO2	63.33%	26.67%	 Students were lacking in Applicat specific subjects. 	ion			

ACTION:

• Extra programs based on VERILOG were added in the laboratory manual.

POs Attainment Levels and Actions for Improvement during CAYm2- (2015-2016)

		1				
POs	Target	Attainment	Observations			
	Level	Level				
PO1:	0	0 0	e: Apply the knowledge of mathematics, science, engineering			
			onics and communication engineering specialization to the solution of			
complex electronics and communication engineering problems.						
PO1	65%	41.33%	• Complex problems were not properly handled by students due			
	to lack in basic concepts.					
ACTI	ON:					
•	Seminars an	nd webinars fo	r increasing technical knowledge, were provided to students.			
•			olled robotics and SCI-LAB were conducted.			
	Training of		ind robolies and por Link were conducted.			
PO2:	Problem an	alvsis [.] Identif	y, formulate, research literature, and analyze complex electronics and			
		•	blems reaching substantiated conclusions using first principles of			
			d engineering sciences.			
PO2	63.3%	38.33%	• Need of strong analytical power in students.			
			 Requirement of implementing engineering principles. 			
ACTI			• Requirement of implementing engineering principles.			
		ing problem a	olving skills various technical events were organized.			
•	-					
•	Training on		olled robotics and SCI-LAB were conducted.			
DO1	D /	1	Intime Design a letter for a second			
			olutions: Design solutions for complex electronics and communication			
			n system components or processes that meet the specified needs with			
11 1		eration for the	public health and safety, and the cultural, societal, and environmental			
	erations.					
PO3	56.67%	34.33%				
			 Students were lacking to solve complex electronics and 			
			communications problems.			
ACTI	ON:					
•	Emphasis is	s given to the f	inal year projects.			



- Technical Events were conducted.
- Training on Micro controlled robotics and SCI-LAB were conducted.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of electronics and communication engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO4 63.33% 38.67% • Students were required to involve research activity.

ACTION:

- More knowledge imported for conduction and analysis of experiments.
- Students were motivated to write research paper.
- Technical Events were conducted.
- Training on Micro controlled robotics and SCI-LAB were conducted.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern electronic engineering and IT tools including prediction and modeling to complex electronics and communication engineering activities with an understanding of the limitations.

PO5 70.18% 42.81%

• Knowledge required to meet industry standards.

ACTION:

- Students were registered for video lectures related to latest upcoming tools.
- Technical Events were conducted.
- Training on Micro controlled robotics and SCI-LAB were conducted.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional electronics and communication engineering practice.

ACTION:

- Awareness among students to establish link between society and engineering.
- Students were motivating to take part in social events such as **Blood donation camp, Zarurat** event.

PO7: Environment and sustainability: Understand the impact of the professional electronics and communication engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO762.5%40%• Student's interest towards environmenneeds to be improved.	t and global awareness
---	------------------------

ACTION:

- Students were involved in projects related to global and environmental issue solutions.
- Students were motivating to take part in social events such as **Blood donation camp, Zarurat** event.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the electronics and communication engineering practice.



PO8	60.42%	41.25%	Ethical knowledge was also required in graduates.					
ACTIO	ACTION:							
• 5	• Students were motivated to inculcate ethical values in them.							
• \$	• Students were motivating to take part in social events such as Blood donation camp, Zarurat							
	event.							
	PO9: Individual and team work : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.							
PO9	61.67%	36.33%	Requirement of team work capacity among students					
ACTIO	N :	<u> </u>						
• E	Emphasis w	vas given for m	aking students more and more work in groups.					
•]	Cechnical e	vents were org	anized to enhance leadership qualities in individuals as well as to make					
ť	hem work	in team.						
		ere motivating	to take part in social events such as Blood donation camp, Zarurat					
	vents etc.							
engineer compreh	ing activi end and v	ties with the er	municate effectively on complex electronics and communication ngineering community and with society at large, such as, being able to reports and design documentation, make effective presentations, and s.					
PO10								
ACTIO	N:	1 1						
• 5	Soft skills	training was co	nducted for the students.					
• I	IR activity	such as Group	o discursion, Personal interview, Technical interview were conducted.					
and com	municatio	n engineering	I finance : Demonstrate knowledge and understanding of the electronics and management principles and apply these to one's own work, as a manage projects and in multidisciplinary environments.					
PO11	66.67%	39%	Courses including financial analysis and management skills were					
			required.					
ACTIO	N:							
			asibility and managing skills being imparted to students.					
			gnize the need for, and have the preparation and ability to engage in					
-	independent and life- long learning in the broadest context of electronics and communication engineering changes.							
PO12	66.6%	42.33%	Required to have conceptual knowledge of few basic and important					
			courses which will help them in their future jobs.					
ACTIO	N:							
	Knowledge of latest technologies were provided to students.							

PSOs Attainment Levels and Actions for Improvement during CAYm2- (2015-2016)

PSOs	Target Level	Attainment	Observations
		Level	

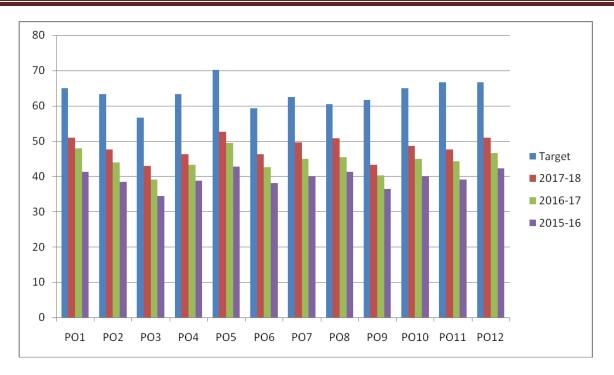


PSO1	63.33%	28.00%	• Emerging technologies were the requirement for major projects development.			
ACTION:						
• Academic workshops were organized to enhance the knowledge of students.						
PSO2: Abil	ity to apply Field Pro	grammable Gate A	rray based applications.			
PSO2 63.33% 19.33% • Requirement of latest trends and tools were required for students.						
ACTION:		1	d on modern engineering practices.			

Co	Comparative Analysis of PO attainment						
PO's	Target	2017-18	2016-17	2015-16			
PO1	65	51	48	41.33			
PO2	63.3	47.67	44	38.33			
PO3	56.67	43	39	34.33			
PO4	63.33	46.33	43.33	38.67			
PO5	70.18	52.63	49.47	42.81			
PO6	59.26	46.3	42.59	38.15			
PO7	62.5	49.58	45	40			
PO8	60.42	50.83	45.42	41.25			
PO9	61.67	43.33	40.33	36.33			
PO10	65	48.67	45	40			
PO11	66.67	47.67	44.33	39			
PO12	66.6	51	46.67	42.33			

Table 7.1.1 Comparative Analysis of PO attainment

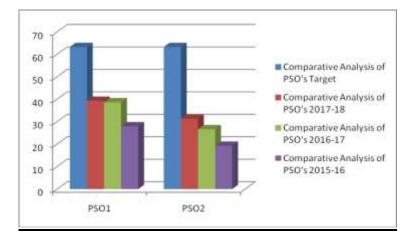




Graph 7.1. PO Attainment analysis of 2017-18(CAY), 2016-17(CAYm1), 2015-16(CAYm2)

Comparative Analysis of PSO's					
PSO's	Target	2017-18	2016-17	2015-16	
PSO1	63.3	39.33	38.67	28	
PSO2	63.3	31.33	26.67	19.33	





Graph 7.2. PSO Attainment analysis of 2017-18(CAY), 2016-17(CAY-m1), 2015-16(CAY-m2)



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Tool Name	Activity for Tool Assessment	Analysis through Tool	Observati on/Gap	Gap Recovery	PO /PSO Attainmen t
SSMENT TOOL	MTT Result Final RTU Result Labs/Experiment	Student performance based on Theory and Practical Exams	Students' Performan ce below Target*	Assignments , Extra Classes, Invited Talks, Re- Tests, OBTs, etc.	PO1, PO2
ACADEMIC ASSESSMENT TOOL	Projects Industrial Trainings	Application/Industry based Learning	Students lag in relating theoretical aspects in Practical terms	Project Competition s, Technical trainings, Industry Interaction through visits, etc.	PO3, PO5, PO11, PSO 1,PSO2
	Final Placed Strength	Ability to select for job	Students lacking in communic ation- skills and Lack of Reasoning Aptitude	Face Classes, Expert talks	PO10, PO12
T TOC	Mentoring		Councellin g	Class	
PLACEMENT TOOL	Soft-Skills	Guide the students to enhance the Inter- Personal skills	sessions required for motivation and grooming up	Coordinators , Mentors for Placement, GD/PI Classes, Mocks	PO10, PO12
	Higher Studies	Proportion of students	Very low	Govt. Job Portal,	
	PSU/GATE	who go for higher education/Govt. Jobs	percentage selection	Technical talks, Course Material for	PO1, PO2

7.1.3.Tool Analysis for Gap identification with PO mapping



1	1	1	I	F	r1
				higher studies	
LUM TOOL	Technical Events	Encouragement to implement Theoretical aspects through Participation	Participati on in- house and outside college by few students only	Technical Events, Activities beyond syllabus, Technical Seminars	PO2, PO3, PO5, PO9, PO10, PSO 1
	Social Events/Extra Activity	To indulge students in society for Ethics inputs	Need of linkage between social and profession al aspects	Blood Donation, Vande Mataram, Clean Campaign, Marathon, etc.	PO6, PO8, PO9
RRICU	Conference/Work shops	To impart	Motivation towards R & D and	National/Inte rnational	PO1,
BEYOND CURRICULUM TOOL	Industrial Visits	Research/Industry oriented skill-set along with work- culture	familiariza tion with working environme nt at industries	Conferences, Workshops, Seminars, Industrial visits, etc.	PO2,PO3, PO4, PO10, PSO 1,PSO2
	E-Resources	Motivation for Universal Learning approaches	Requireme nt to update students with latest trends and developme nts in engineerin g field	Swayam portal, EdX, NPTEL videos/lectur es, e-Books, etc	PO1, PO10, PO12

* Target was more than 75% students pass the examination

Table 7.1.4. Sample Department Activities during CAY(2017-18)

Sr.No.	Department Activity	Level of Activity	Number of	PO Attainment



Self Assessment Report

			Participant	
	Technical Events			
				PO2, PO3,
1	Game of Drones	National	42	PO9, PSO1
2	Quizolic	National	98	PO2, PO3, PO9
3	Techinobuzz	National	58	PO2, PO3, PO9
4	Renovator	National	30	PO2, PO3, PO9
				PO2, PO3,
5	Robowar	National	35	PO9, PSO1
				PO2, PO3,
6	Line follower	National	28	PO9, PSO1
-			10	PO2, PO3,
7	Formula Zero	National	40	PO9, PSO1
8	Rob soccer	National	31	PO2, PO3, PO9, PSO1
<u> </u>	Technical Hack	National	30	,
				PO2, PO3, PO9
10	Tech Tambola	National	45	PO2, PO3, PO9
11	Phoenix	National	28	PO2, PO3, PO9
12	Sumowar	National	20	PO2, PO3, PO9
13	TEDX	International	13	PO2, PO3, PO9,PO10
15	TEDA	International	15	PO2, PO3,
14	MUN	National	14	PO9,PO10
11		Tuttonui	11	PO2, PO3,
15	HEAKTHON	National	105	PO9,PO5
		Frainings/Industrial `	Visits/Workshops	,
		8		PO1, PO2, PO3,
	Embedded Systems &	National		PO5, PSO1
	Robotics organized by			1501
16	TechiNest Pvt.		56	
	Embedded & Robotics			PO1,PO2, PO3,
	organized by SaK	National		PO5, PSO1
17	Robotics		66	
		NT / 1		PO1,PO2, PO3,
10	Workshop on CCNA	National	50	PO5
18	Networking		58	
	Workshop on SPYBOT-			
	Spy Robotic Workshop	National		PO1, PO2, PO3,
1.0	organized by TechiNest			PO5, PSO1
19	Pvt. Ltd		215	



20	Industrial Visit Genus Power Infrastructures Ltd	National	50	PO1,PO2, PO3, PO5
21	Industrial Visit Tesca Technologies Pvt. Ltd.,	National	27	PO1,PO2, PO3, PO5
22	Industrial Visit PHILIPS LIGHTING	National	510	PO1,PO2, PO3, PO5
23	Industrial Visit at BSNL	National	55	PO1, PO2, PO3, PO5
		Seminar/Expert Ta	alk	
24	Seminar on Embedded System by Aptron	National	75	PO1,PO2, PO3, PO5, PSO1
25	Seminar by HUAWEI	National	550	PO2, PO3
26	Expert Talk by Dr. Rajeev Gupta	National	50	PO12
		Conferences/FD	P	
27	International Conference	International	92(Papers)	PO1, PO2, PO3, PO4, PO10, PSO1
28	National Conference	National	42(Papers)	PO1, PO3, PO4, PO10, PSO1
29	FDP Embedded Systems (ICT51)	National	09	PO12
		Social Activity		
30	Blood Donation Camp	National	80	PO6, PO7,PO8, PO9
31	Clean India Camp	National	54	PO6,PO7, PO8, PO9
32	National Anthem	National	64	PO6,PO7, PO8, PO9

7.2. Academic Audit and actions taken thereof during the period of Assessment (10) Academic Audit system/process and its implementation in relation to Continuous Improvement

IQAC (Internal Quality Assurance Committee) team



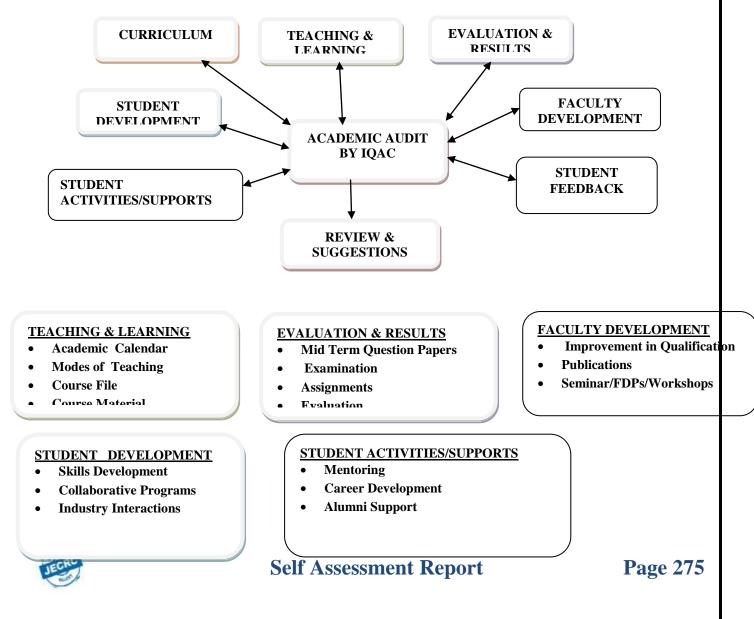
- In the department of Electronics and Communication Engineering, the INTERNAL QUALITY ASSURANCE COMMITTEE (IQAC) is formed for the Academic audit process.
- Members of this Academic audit IQAC team are consisting of program coordinator and senior faculty members of the department.
- The IQAC team of department monitors and enhances the quality of teaching & learning process and student development process, through appropriate guidelines for both faculty and students.

Goal of Audit

process monitor The IOAC Academic Audit • team during the conduct of the course, adherence to the course plan, time schedule, completion of the syllabus, standard of internal tests and evaluation process, inspection of labs. student development programs also monitoring of and addresses the difficulties faced by students and takes suitable actions.

Frequency of Audit

• The Academic audit process is conducted twice in a year. One audit in each semester.



Flow chart representation of Academic Audit Process by IQAC team

Followings are the team member of IQAC for CAY (2017-18)

S.NO.	Name	Designation	Responsibilities
1	Dr. Lokesh Bansal	Professor	Chair
2.	Ms. Vinita Mathur	Assistant Professor	Member
3.	Mr. S. S. Manakatala	Assistant Professor	Member
4.	Mr. Rajesh Bathija	Assistant Professor	Member
5.	Mr. Anil Jain	Assistant Professor	Member



Self Assessment Report

From : HOD-ECE			To: All Faculty Members of ECE Department	
eferend	ce No. JECRC/ECE/N	otice/Odd/2017-18/0	01	17/07/2017
		NOTIC	E	
	ne following Interna med for quality impro	a second consideration	rescience and an and the second	AC) has be
S. NO	FACULTY NAME	QUALIFICATION	DESIGNATION	ROLE
1	Dr. Lokesh Kr. Bansal	Ph.D	Professor	Convener
2	Ms. Vinita Mathur	M.Tech.	Assistant Professor	Member
3	Mr. S. S. Manakatala	M.Tech.	Assistant Professor	Member
4	Mr. Rajesh Bathija	M.Tech.	Associate Professor	Member
5	Mr. Anil Jain	M.Tech.	Assistant Professor	Member .
	v to: oncern faculty member incipal Office for kind			. Л
			Dr. Lok	USA tesh Kr. Bans

Following are the findings during Academic Audit Process by IQAC team in CAY (2017-18):

AUDIT: 01

- The existing university syllabus does not include Practical training of Embedded System.
- More technical activities are required to add in departmental academic calendar.
- Suggestion is given to include content beyond the syllabus in few theoretical subjects (Signals & Systems, Telecommunication Engineering, Antenna).
- More interactive methods are required for the understanding of theoretical subject (BMI).
- For the understanding of subjects, project based learning is needed.



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- The quality of the question paper should be improved.
- For transparency in evaluation process, scrutinizing process is needed.
- Require to give more emphasis on skills development programs.
- For the overall development of the student, Mentoring and Career Development Counseling was needed.

AUDIT: 02

- Suggestion is given to include interactive teaching modes such as PPT and video lectures for the delivery of lectures.
- More emphasis is needed on the training, workshop and industrial visits.
- Faculty development program is needed to improve faculty member's skills.
- More encouragement is required to motivate students towards the project learning.
- Required to give more assignment to the weak students for their improvement.
- Suggestion is given to include some practical in lab manuals that are not included in curriculum.

Sr.	Description of	Action Taken	Improvement		
No	Activity				
•					
Cur	riculum				
	Curriculum	• Various Trainings and workshops based	• Students build project		
1	Development	on <i>Embedded System</i> are conducted.	which are based on		
	_	-	Microcontroller.		
Tea	Teaching & Learning				
	5 6				

Table 7.2.1 Action Taken and Improvement



2	Academic Instruction	 In Departmental Academic calendar some technical activities are added. Academic Lecturer plan and course material are prepared by the faculty Members and content beyond curriculum is introduced. In Lab Manuals few practical were added which are not mention in curriculum. 	• Teaching quality is improved.
3	Modes of teaching	• <i>Interactive lecture methods</i> such as Video lectures, Power point presentations, Industrial visits, are adopted by the faculty members.	
4	Project based learning	 Some <i>previous year projects</i> are given to the <i>second year students</i> to rebuilt them and bring best in west projects. An event <i>Reverse Engineering</i> is conducted to motivate students towards the project making. Students are motivated to execute small projects which they <i>exhibit during project expos, technical contests</i> etc. 	• During the current assessment year 59 projects were made and among all " <i>Diyang-aang</i> " project is selected for the startup.
Eva	luation & Results	5	
5	Question Papers	• <i>Moderation and scrutinizing</i> <i>Committee</i> ensures the quality of Internal Mid-Semester Examination paper-setting, their solutions and to scrutinize the answer sheets	• During the CAY our two student is secured rank in RTU merit list.
6	End semester examination and academic results	• <i>Two internal exams</i> and <i>end semester</i> examinations are conducted.	
7	Assignments & Class test Methodology	 To assess students' knowledge of engineering practices, framework, and problem solving abilities various tests are taken Class Tests are taken after every unit completion Assignment based on COs is given to the students after completion of each 	



		unit for each subject	
		• Assignments questions are chosen from previous years <i>university papers</i>	
		 Performance based Assignments are 	
		also given to the students	
8	Evaluation	• Answer Sheets are <i>scrutinized</i>	
		• <i>Transparency</i> in Evaluation	
Fac	ulty improvemen	nt	
9	Improvement	• Department is keen in improving the	• During the CAY one
	in Faculty qualification	Qualifications of the faculty. <i>Paid leave</i> <i>are granted</i> for improving qualification	faculty member is awarded by PhD degree and 3faculty members
10	Faculty participation i	• Faculty members are encouraged to attend Seminars/ Workshops/ FDPs	<i>have</i> completed their M.Tech.
	n Seminars / Workshops/ FDPs	conducted by various institutions.	 During the assessment period, <i>15 number</i> of faculty attended seminars/workshops/FDPs
11	Publications	• Faculty members are encouraged for Publishing research papers in journals and articles in conference proceedings.	• During the assessment year, total <i>Publications are 43</i> .
		• <i>Financial support from management</i> is extended to encourage research activities among faculty members.	
		• For the same <i>on duty leave</i> is also provided.	
Stud	lents Developmen	t	
13	Skill development o f students	 The emphasis is given for providing education based on <i>the industry requirement</i>. The various <i>technical events</i> are 	• During the assessment year department conducted 12 technical events.
		conducted.	• For overall development student interacted with the <i>HR of different companies</i> .
14	Collaborative	• Initiatives are contemplated to take up	MoUs with
	Programs	Some c <i>ollaborative programs</i> in the Institution for the benefits of students.	 ForskTechnologies Red Hat Technologies Pvt. Ltd



			Infosys Campus ConnectCADD Centre:
			CADD Centre:WADHWANI Foundation
			 SAKROBOTICS LAB:
			 Salesforce Technologies
			Ltd.
			 Indo Vision Services Pvt. Ltd.
			• Cyber Security
19	Industry	• The institution has <i>MoU</i> with some	Institute had signed MoUs
	Interaction	industries for mutual exchange of	with industries, Organized 5
		expertise, to provide more	industrial visit, 4 Industrial
		exposure to the student regarding	training,/workshop etc.
		Industrial practices.	
		• <i>Industrial visits</i> are arranged for the	
		students regularly.	
		• <i>Experts from industry</i> deliver guest	
		lectures.	
		• <i>Industry internship</i> is mandatory for all	
		students after their 6th semester.	
Stud	lent activities/ suj	oport	
15		• Student mentoring system at	• During the current
	Mentoring	department level focuses on <i>all</i>	assessment year 15
		issues related to stay and growth	faculty members were
		of the individual student.	<i>Mentor</i> and <i>12 faculty</i> <i>members</i> were class
			coordinator.
16	Career	• The placement cell organizes seminars	• In the current assessment
	Development	on <i>Higher education opportunities</i>	year various 12 industrial
		and conducts aptitude training.Government Cell is also formed.	training, Industrial visits, Workshops, Seminars
			were conducted for the
			improvement.
			• Total 73 number of
			students got placed in
			 different companies. 06 students qualified
			• <i>GATE</i> Examination.
			• For the improvement in



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			 communication skills FACE classes were conducted. Various Mocks related to aptitude, group discursion, personal interviews were taken.
17	Alumni Support	 Alumni meets/ get together are organized once in a year. Alumni are invited to interact and inspire the students, to help in develop ing the curriculum, to give expert lectures in their field of specialization 	• Industrial interaction is improved.
Stu	dent Feedback		
18	Students Feedback	 Feedback system is used to evaluate the <i>performance of the faculty</i>. It is ensured that the feedback from student is acted upon, and recommendations are applied to enhance teaching quality. 	• With this faculty members <i>improve their skills</i> set.

Documents which are verified by the Academic audit committee

List of documents:

- 1. Students Batch List
- 2. Departmental Academic Calendar
- 3. Class Time Table, Faculty Time Table and Master Time Table
- 4. Teachers' Diary for all the courses (Theory, practical, seminar and projects etc.)
- 5. Course Files
- 6. Lab manuals for practical courses
- 7. Mid-Term paper
- 8. Final semester project reports
- 9. Department technical activities
- 10. Internships/ Industrial visits/ Summer training / Workshops/ Industrial Interaction
- 11. Details of student's placements, Higher education etc.
- 12. Students feedback reports
- 13. Continuous learning activities of faculty (FDP, Publications etc.)



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7.3. Improvement in Placement, Higher Studies and Entrepreneurship (10)

Assessment is based on improvement in:

- > Placement: number, quality placement, core industry, pay packages etc.
- Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions.

S.No.	Year	Total No of Students	Total No. of Students Placed	Percentage of student Placed (%)
1	2015-2016	268	169	63.0
2	2016-2017	223	114	51.1
3	2017-2018	218	96	44.0
4	2018-2019	227	109	48.01

Table 7.3.1.1: Placement Details: (2015 to 2017)

 Table 7.3.1.2: Placement Quality

S.No.	Year	Highest package	Lowest package
1	2015-2016	3.5 Lpa	1.8 Lpa
2	2016-2017	6 Lpa	1.8 Lpa
3	2017-2018	9 Lpa	1.8Lpa
4	2018-2019	7 Lpa	2 Lpa

Table 7.3.1.3: Placement data for the year 2017-18(CAY)

Sr.No	Company name	No. of students placed	Package (In lacs)



1	Accenture	11	3.5
2	TCS	06	3.6
3	Mindtree	02	3.5
4	Appeal	05	3.5
5	Artech	02	2.7
6	Capitaltrust	06	2.4
7	Carrere Point	01	4.00
8	Dev technosys	01	3.84
9	Face	02	3.00
10	GKMIT	01	3.00
11	Guru Kripa	04	6.00
12	Just dial	06	2.73
13	Marketing Mindz	05	3.4
14	Matrix	05	2.6
15	Metacube	01	3.2
16	Mind IT	01	1.8
17	PAL IT	01	1.8
18	Simply Force	01	1.8



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20Interview Air0121Interview Air0122Marketing Mindz0423Pro sports league0124Byjus0125Infosys06	3.6 1.8
22Marketing Mindz0423Pro sports league0124Byjus01	1.8
23Pro sports league0124Byjus01	
24 Byjus 01	3.4
	6.00
25 Infosys 06	9.00
	3.25
26 Cognizant 01	3.58
27 Metacube 01	3.14
28 JECRC 01	1.9
29Ericsson08	2.8
30 FEV 02	3.71
31 Appirio 01	3.2
32 Think Quant 01	3.6
33 Thrillophilia 01	

S.No.	Name of company	No. of selected students	Package (in Lac)
1	Accenture	45	3.5



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2	Mind IT	16	1.8
3	Tech FELEETERS	01	1.8
4	TechiNest	06	1.8
5	Anora labs	01	3
6	Appeal group	01	4.5
7	Appiccimo	01	1.8
8	DLB group	02	1.8
9	Bulls Eye	02	2.8
10	First American	01	6.0
11	Hexaview Technologies	02	4.5
12	Just dial	04	3.0
13	Lanterns Info system	02	1.8
14	Mindtree	05	3.5
15	NODD	01	2.8
16	SLK technologies	01	2.8
17	Ericsson	16	2.8
18	Face	02	3
19	L&T technologies services Mysore	01	3.6
20	Metacube	01	3.5
21	JECRC	01	1.9
22	A3 Logic	01	3.3
23	DXC	01	3.5



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S.No.	Name of company	No. of selected students	Package (in Lac)	
1	TCS	90	3.5	
2	Accenture	81	3.5	
3	Ericsson	03	2.8	
4	Idea Cellular ltd.	02	3.0	
5	Anora labs	03	3.0	
6	Just dial	01	1.8	
7	The Phone Support	02	1.8	
8	Mind Tree	01	4.5	
9	Capgemini	03	3.15	
10	Config Aware	01	3.4	
11	IES	01	6.5	
12	UCO bank Asst. Manager	01	6.37	
13	Aakash Institute	01	3.4	

Table 7.3.1.5: Placement data for the year 2015-16(CAYm2)

 Table 7.3.1.6: Placement data for the year 2018-19

Sr.No	Company name	No. of students placed	Package (In lacs)
1	Accenture	53	3.75
2	TCS Codevita	06	3.5, 7.00
3	TCS National	05	3.75



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4	Capgemini	04	3.4
5	Academia Guru	03	3.00
6	Smart circle Group	03	2-3.6
7	Aquatronic Systems	03	3.6
8	Ongraph	01	3.6
9	Just Dial	11	2.73
10	LinkRuit	02	2-2.16
11	PIN Click	04	2.4-4.8
12	Scope Telecom	06	2.4-3.00
13	Trading Bells	02	3.6
14	Thrillophilia	02	2.4
15	Appeal	03	3.0-3.6
16	ENC Technology	01	2.4

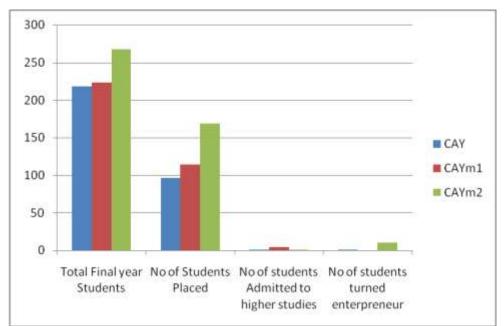
Table 7.3.2. Data related to Placement, Higher Studies and	Entrepreneurship
--	------------------

Item	CAY+1 (2018)	CAYm1 (2017)	CAYm2 (2016)
Total no. of Final year students(N)	218	223	268
No. of students placed in companies (private or government)(X)	96	114	169
No. of Students admitted to higher studies with valid qualifying scores (GATE or Equivalent State or National Level Tests, GRE, GMAT, etc.)(Y)	01	04	01



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No. of students turned up as entrepreneurs/start-ups(Z)	01	00	10	
Total(X+Y+Z) 98 118 180				
Placement Index (X+Y+Z)/N	0.449	0.529	0.671	
Average Placement =(P1+P2+P3/3) 0.549			-	



Graph 7.3. Data related to Placement, Higher Studies and Entrepreneurship

7.4. Improvement in the quality of students admitted to the program (10)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

Item		CAY (2017-2021)	CAYm1 (2016- 2020)	CAYm2 (2015-2019)
National Level Entrance Examination(JEE)	No. of Students admitted	228	235	225
	Opening Score/Rank	138	131	400(Rank)
	Closing Score/Rank	28	43	14004(Rank)
State/University/Level	No. of Students	N/A	N/A	N/A

 Table 7.4: Data related to quality of students admitted to the program



Entrance	admitted			
Examination/Others	Opening Score/Rank	N/A	N/A	N/A
	Closing Score/Rank	N/A	N/A	N/A
Name of the Entrance Examination for Lateral	No. of Students admitted	01	3	2
Entry or Lateral entry details	Opening Score/Rank	58.42	69.89	61.57
	Closing Score/Rank	58.42	65.51	55.95
Average CBSE/Any other Board Result of admitted students (Physics, Chemistry & Maths)		229	232	236



Self Assessment Report

CRITERION 8 First Year Academics

50

8. FIRST YEAR ACADEMICS (50)

8.1 First Year student faculty Ratio (5)

Data for first year courses to calculate FYSFR

Year	No. of students (Approved intake strength)	No. of faculty members (Considering fractional load)	FYSFR	Assessment = (5×20)/Average FYSFR (Limited to Max. 5)
2018-19	990	46	21.52	4.64
2017-18	997	48	20.77	4.81
2016-17	1020	51	20.00	5.00
Average	1002	48.33	20.76	4.81

 Table B. 8.1 First Year student faculty Ratio

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

<u>Assessment of qualification</u> = (5X+3Y)/RF, X = No. of Regular Faculty with Ph.D., Y = No. of Regular Faculty with Post Graduate qualification, RF = No. of faculty members required as per SFR of 20:1, faculty definition as define in 5.1

Year	X	Y	RF	Assessment of faculty qualification (5X+3Y)/RF
2018-19	22	24	49.50	3.67
2017-18	24	24	49.85	3.85
2016-17	29	22	51.00	4.13
	3.88			

 Table B. 8.2a Assessment of Qualification



8.3 First Year Academic Performance (10)

Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x(number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

First Year Academic Performance is shown in the table below:

S. No.	CAY	Academic Performance (10 Scale)
1	CAY (2018-19)	Result yet to be declared
2	CAY-1 (2017-18)	7.9
3	CAY-2 (2016-17)	7.9

Table 8.3a Academic Performance(10 Scale)

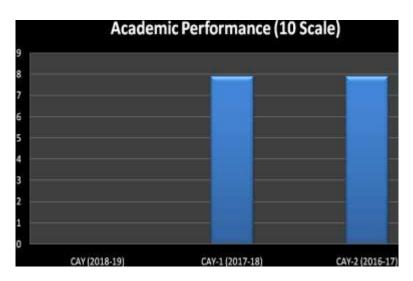


Figure 8.3a Academic Performance(10 Scale)



Self Assessment Report

S. No	SUBJECT	No. of Students	Passed	Mean of %	10 scale
1	Communication Skills	524	517	98.66	9.7
2	Human Values	486	476	97.94	9.6
3	Engineering Chemistry	469	398	84.86	7.2
4	Engineering Physics	500	438	87.60	7.7
5	Engineering Mathematics-II	964	874	90.66	8.2
6	Basic Civil Engineering	861	794	92.22	8.5
7	Computer Programming-II	984	826	83.94	7.0
8	Engineering Mechanics	1016	831	81.79	6.7
9	Basic Mechanical Engineering	127	91	71.65	5.1
	AVERAGE	656	583	87.70	7.7

2017-18 (II Sem) Table B.8.3b Academic Performance 2017-18 Sem.-II

(2017-18 Sem.-I)

S. No.	Subject	No. of Students	Passed	Mean of %	10 Scale
1	Communication Skills	490	484	98.78	9.8
2	Human Values	523	500	95.60	9.1
3	Engineering. Chemistry	511	464	90.80	8.2
4	Engineering Physics	474	379	79.96	6.4
5	Engineering Mathematics I	974	794	81.52	6.6
6	Environmental Engineering and Disaster Management	986	930	94.32	8.9
7	Computer Programming	994	892	89.74	8.1
	AVERAGE	707	635	90.10	8.1

Table B.8.3c Academic Performance 2017-18 Sem.-1



S. No.	Subject	No. of Students	Passed	Mean of %	10 Scale
1	Communication Techniques	1001	993	99.20	9.8
2	Engineering Mathematics-II	992	791	79.74	6.4
3	Engineering Physics-II	1005	880	87.56	7.7
4	Chemistry & Evironmental Engineering	1001	936	93.51	8.7
5	Engineering Mechanics	1001	866	86.51	7.5
6	Fundamentals of Computer Programming	976	808	82.79	6.9
	AVERAGE	996	879	88.21	7.8

(2016-17 Sem. - II)

Table B.8.3d Academic Performance 2017-18 Sem.-II

(2016-17 Sem.-I)

S. No.	Subject	No. of Students	Passed	Mean of %	10 Scale
1	Communicative English	1015	965	95.07	9.0
2	Engineering Mathematics-I	1014	822	81.07	6.6
3	Engineering Physics-I	1009	803	79.58	6.3
4	Engineering Chemistry-I	1014	959	94.58	8.9
5	Basic Electrical and Electronics Engineering	1019	875	85.87	7.4
	AVERAGE	1014	885	87.23	7.6

Table B.8.3e Academic Performance 2016-17 Sem.-I



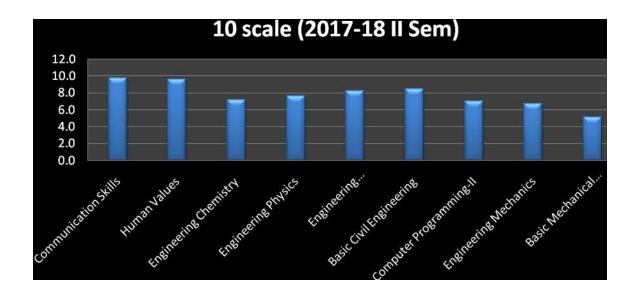


Figure 8.3b Academic Performance 2017-18 II Sem. (10 Scale)

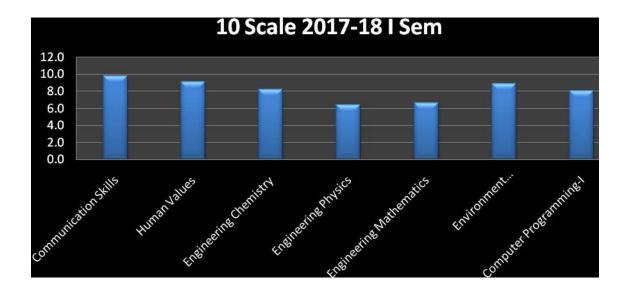


Figure 8.3c Academic Performance 2017-18 I Sem. (10 Scale)



Self Assessment Report

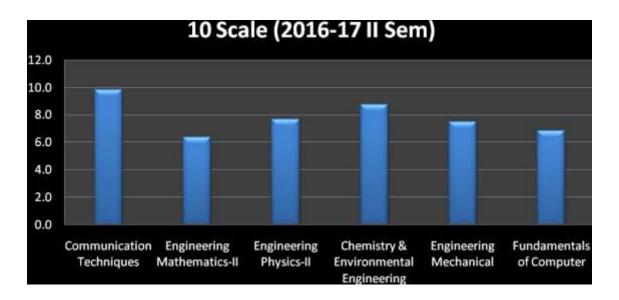


Figure 8.3d Academic Performance 2016-17 II Sem. (10 Scale)

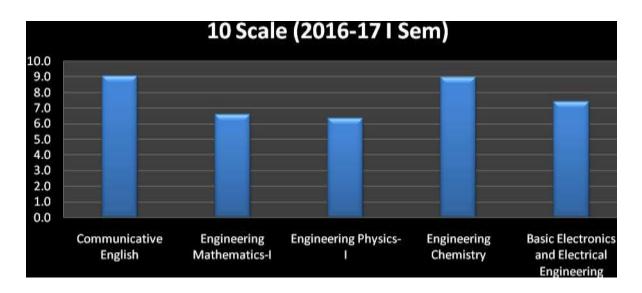


Figure 8.3e Academic Performance 2016-17 I Sem. (10 Scale)



Self Assessment Report

8.4. Attainment of Course Outcomes of first year courses (10)

8.4.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

(Examples of data collection processes may include, but are not limited to, specific exam questions, laboratory tests, internally developed assessment exams, oral exams assignments, presentations, tutorial sheets etc.)

The assessment process used to gather the data upon which the evaluation of course outcomes of first year is done is as follows:

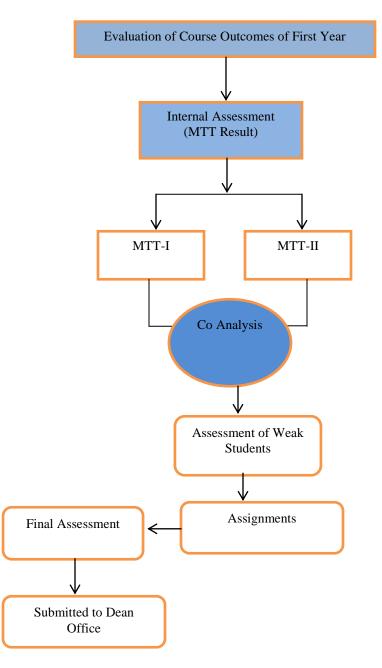


Figure 8.4a Attainment of Course Outcome of First Year Course



Assessment Process for the Year 2018-19

- ➢ Internal assessment will be done by taking two Mid Term Tests and assignment/presentations (co wise) as per the RTU guidelines.
- The performance of a student in internal assessment with respect to all the CO's will be recorded.
- End semester University exam performance of students for the maximum marks will be considered for external exam performance.
- For laboratory assessment, the over all performance of astudent in sessional will be assessed as in Final lab internal test, Final lab internal Viva voce and Class performance during the whole semester (record + attendance). Totalof these three is considered for internal lab assessment.
- Performance of a student inexternal lab exami.e.Practicalwill be assessed as inperformance and viva voce. Total of this is considered for external practical exam performance.
- The summation of these two performances is considered ascumulative assessment for a prescribed lab outcome.

Assessment Process for the Year 2016-17 & 2017-18

- Two internal tests for a maximum marks10 are conducted and total of two internals is considered for final internal assessment.
- The performance of a student in internal assessment with respect to all the CO's is recorded.
- End semester University exam performance of students for the maximum marks100 is considered for external exam performance.
- For laboratory assessment, the over all per formance of a student in sessional is assessed as in Final lab internal test, Final lab internal Viva voce and Class performance during the whole semester (Record + attendance). Total of these three is considered for internal lab assessment.
- Performance of a student inexternal lab exami.e.Practical is assessed in performance and viva voce. Total of this is considered for external practical exam performance.
- The summation of these two performance sisconsidered as cumulative assessment for prescribed lab outcome.



Self Assessment Report

8.4.2. Record the attainment of Course Outcomes of all first year courses(5)

Program shall have set attainment levels for all first year courses.

(The attainment levels shall be set considering average performance levels in the university examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the University examination)

Attainment of Course Outcome

	Seme	ster I (202	17-2018)			
S. No.	Subject	CO1	CO2	CO3	CO4	Average Attainment
1	Communication Skills (HU-101)	79.63%	67.70%	82.10%	-	76.47%
2	Human Values (HU-103)	75.38%	66.79%	76.15%	-	72.77%
3	Engineering Mathematics-I(MA-101)	70.92	75.60	51.43	44.78	60.68%
4	Engineering Physics (PY-101)	70.75	69.55	73.53	-	71.28%
5	Engineering Chemistry (CY-101)	77.31%	66.07%	72.43%	69.42%	71.30%
6.	Computer Programming-I(CS-101)	48.2	51.1	47.3	53.5	50%%
7.	Environmental &Disaster Management(CE-101)	89.15	90.30	85.71	82.88	87.01%

Target for Assessment Year 2017-2018= 60% Semester I (2017-2018)

Table B.8.4.2a Attainment of Course Outcome Semester I (2017-2018)



Self Assessment Report

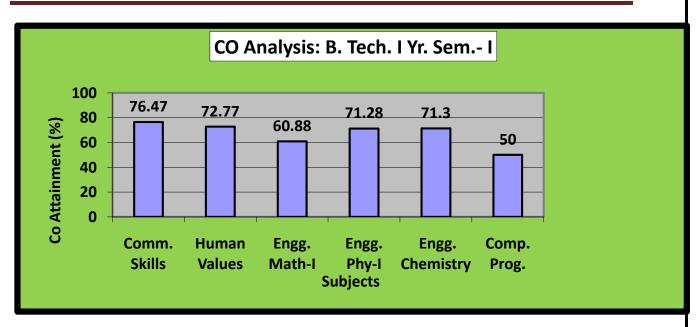


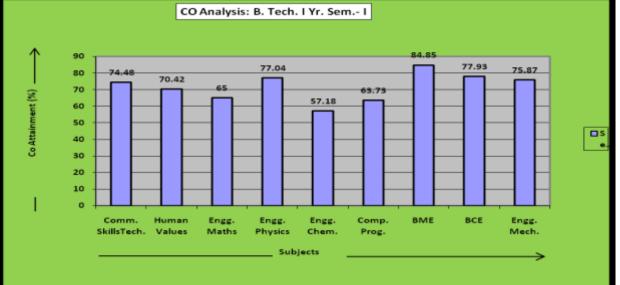
Figure 8.4.2a CO Analysis B.Tech I Yr. Sem.-I(2017-18) Target for Assessment Year 2017-2018= 60% Semester II (2017-2018)



Self Assessment Report

S. No.	Subject	CO1 (in %)	CO2	CO3	CO4	Average Attainment
1	Communication Skills (HU-101)	80.34	55.91	87.21	-	74.48
2	Human Values (HU-103)	70.49	67.62	73.15	-	70.42
3	Engineering Mathematics-I(MA-101)	81%	59%	79%	39%	65%
4	Engineering Physics (PY- 101)	76.57	75.45	79.05		77.04
	Engineering Chemistry (CY-101)	60.83	43.99	71.16	52.73	57.18
6.	Computer Programming- I(CS-101)	65.83	58.14	66.86	64.11	63.73
7.	Basic Mechanical Engineering (ME-101)	82.38	87.32	_	-	84.85
8.	Basic Civil Engineering (CE-103)	85.07	83.23	66.75	76.64	77.93
9.	Engineering Mechanics (OE-101)	80	78.57	87.96	56.94	75.87

Table B.8.4.2b Attainment of Course Outcome Semester I (2017-2018)Target for Assessment Year 2016-2017= 60%



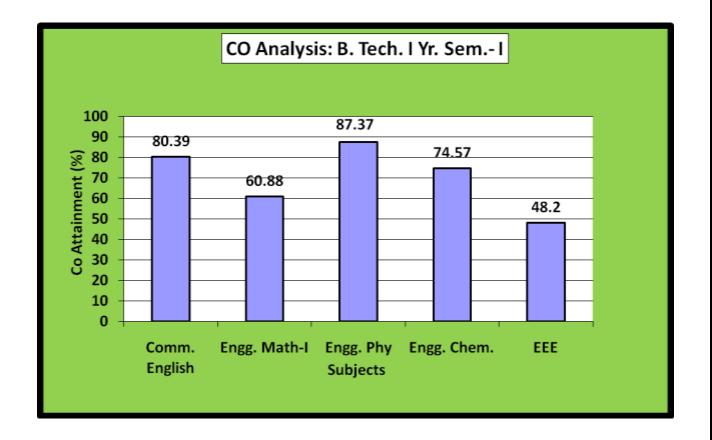


Self Assessment Report

S.No.	Subject	CO1	CO2	CO3	CO4	CO5	Average Attainment
1	Communicative English(101)	82.36	78.81	80.09	-	-	80.39
2	Engineering Mathematics-I(102)	70.73	49.99	61.93	-	-	60.88
3	Engineering Physics-I(103)	92.68	82.05	-	-	-	87.37
4	Engineering Chemistry(104)	86.53	79.66	57.54			74.57
5	Basic Electrical & Electronics Engg.(105)	54.27	44.04	42.43	47.81	52.5	48.20

Semester I (2016-2017)

Table B.8.4.2b Attainment of Course Outcome Semester I (2016-2017)





S.No.	Subject	CO1	CO2	CO3	CO4	CO5	Average Attainment
1	Communication Technique(201)	76.22	84.41	74.11	-	-	78.24
2	Engineering Mathematics-II(202)	67	82	66	37	-	63
3	Engineering Physics- II(203)	77.26	80.48	-	-	-	78.87
4	Chemistry & Environmental Engg. (204)	85.74	68.96	63.76	-	-	72.8
5	Engineering Mechanics(205)	60.33	48.56	-	-	-	54.44
6	Fundamentals of Computer Programming(206)	77	60.5	79.3	53.8		67.65

Figure 8.4.2b CO Analysis B.Tech I Yr. Sem.-I(2016-17)

Target for Assessment Year 2016-2017= 60%

Semester II (2016-2017)

 Table B.8.4.2c Attainment of Course Outcome Semester II(2016-17)

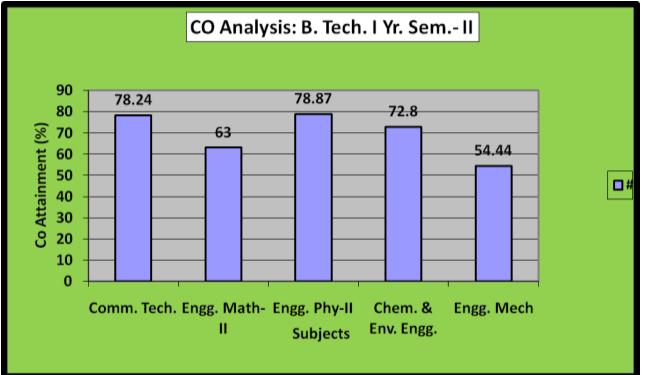


Figure 8.4.2c CO Analysis B.Tech I Yr. Sem.-II(2016-17)



Self Assessment Report

8.5: Attainment of Program Outcomes from I year courses (20)

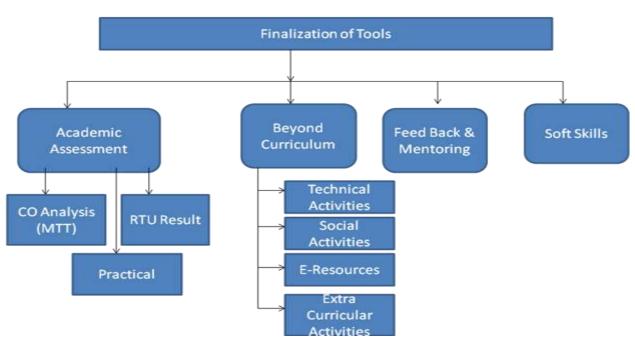
8.5.1: Indicate results of evaluation of each relevant PO and/or PSO, if applicable (15)

The relevant Program outcomes that are to be addressed at first year need to be identified by the institution.

Program outcome attainment levels shall be set for all relevant PO's and/or PSO's through First year courses.

(Describe the assessment processes that demonstrate the degree to which the Program outcomes are attained through First year courses and document the attainment levels. Also include information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carried out)

Assessment Process used to gather the data upon which the evaluation of each Program Outcome is based



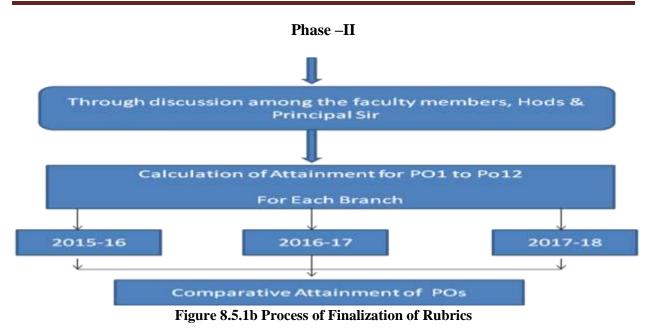
Process to Calculate Attainment of PO's (Annualy)

Phase –I

Figure 8.5.1a Process to Calculate Attainment of PO's



Self Assessment Report



Rubrics for PO Attainment

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering
fundamentals, and an engineering specialization to the solution of complex engineering
problems.

Tool	Tools	Mapping	Rubric
		Н	70% students >65%=>100% marks
		11	70% students >60%=>80%
	MTT Result		60% students >65%=>60%
			60% students >60%=>50%
			Else =>0 marks
		L	70% students >65%=>100% marks
Academic	Final RTU		70% students >60%=>80%
Assessment	Result		60% students >65%=>60%
			60% students >60%=>50%
			Else=> 0 marks
		М	Attendance=> 20% marks
	Lab/Experiment		Performance =>20% marks
	S		Record /File =>10%
			Internal assessment $-1 =>30\%$
			External assessment $-1 => 20\%$
			>=80% students participated $=>100%$ marks
			70-79% students participated=>80%
Daviand	Technical	Н	60-69% students participated=>60%
Beyond Curriculum	Events	11	50-59% students participated=>50%
Curriculum			Else=> 0 marks
	Social Events	NA	>=25% students participated $=>100%$ marks
	Social Events	INA	20-24 % students participated =>80%



Self Assessment Report

$\frac{13-19\% \text{ students participated }=>60\% \text{ I}0-14\% \text{ students participated }=>50\% \text{ Else=>0 marks} \\ = -80\% \text{ students }=>100\% \text{ marks} \\ = -80\% \text{ students }=>80\% \text{ students }=>80\% \text{ students }=>80\% \text{ I}0-49\% \text{ students }=>80\% \text{ I}0-49\% \text{ students }=>80\% \text{ I}0-49\% \text{ students }=>50\% \text{ Else=>0}\% \text{ I}0-49\% \text{ students }=>50\% \text{ Else=>0}\% \text{ marks} \\ = -25\% \text{ students participated }=>80\% \text{ I}0-14\% \text{ students participated }=>50\% \text{ Else=>0}\% \text{ marks} \\ = -25\% \text{ students participated }=>80\% \text{ I}0-14\% \text{ students participated }=>50\% \text{ Else=>0}\% \text{ marks} \\ = -20\% \text{ students mentored }=>100\% \text{ students mentored }=>100\% \text{ segments mentored }=>80\% \text{ Soft Skills} NA \qquad = -70\% \text{ students studied }=>70\% \text{ students retained}=>80\% \text{ Soft Skills} NA \qquad = -70\% \text{ students retained}=>100\% \text{ students retained}=>80\% \text{ Soft students retained}=>70\% \text{ students retained}=>80\% \text{ Soft students retained}=>70\% \text{ students retained}=>80\% \text{ Soft students retained}=>70\% \text{ students retained}=>80\% \text{ Soft students retained}=>80\% \text{ students retained}=>70\% st$			15 10 0/ students portioinstad > COV				
			15-19 % students participated =>60%				
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$ \begin{array}{ c c c c c c } \hline E-Resources & M & & & & & & & & & & & & & & & & & $							
$\frac{\text{E-Resources}}{\text{Soft Skills}} \text{M} = \frac{30-39 \% \text{ students} =>60\%}{20-29 \% \text{ students} =>50\%} \\ \frac{20-29 \% \text{ students} =>50\%}{\text{Else=> 0 marks}} \\ = \frac{100\% \text{ marks}}{20-24 \% \text{ students participated} =>80\%} \\ \frac{20-24 \% \text{ students participated} =>80\%}{10-14 \% \text{ students participated} =>50\%} \\ \frac{20-24 \% \text{ students participated} =>60\%}{10-14 \% \text{ students participated} =>50\%} \\ \text{Else=> 0 marks} \\ = \frac{100\% \text{ students mentored} => 100\%}{290\% \text{ students mentored} => 100\%} \\ = \frac{270\% \text{ students mentored} => 80\%}{2=70\% \text{ students studied} => 70\%} \\ \text{Else=>= 0 marks} \\ = \frac{270\% \text{ students retained} => 100\%}{2=70\% \text{ students retained} => 100\%} \\ = \frac{270\% \text{ students retained} => 100\%}{2=70\% \text{ students retained} => 100\%} \\ = \frac{270\% \text{ students retained} => 100\%}{2=70\% \text{ students retained} => 100\%} \\ = \frac{270\% \text{ students retained} => 100\%}{2=70\% \text{ students retained} => 100\%} \\ = \frac{270\% \text{ students retained} => 100\%}{2=70\% \text{ students retained} => 100\%} \\ = \frac{270\% \text{ students retained} => 100\%}{2=50\% \text{ students retained} => 100\%} \\ = \frac{270\% \text{ students retained} => 100\%}{2=50\% \text{ students retained} => 100\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2=50\% \text{ students retained} => 20\%} \\ = \frac{270\% \text{ students retained} => 20\%}{2\%} \\ = 270\% \text{ students re$							
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$\frac{\text{Else} > 0 \text{ marks}}{\text{Extra Curricular} \text{Activity}} \text{NA} \qquad \begin{array}{l} \begin{array}{l} >=25\% \text{ students participated } =>100\% \text{ marks} \\ 20-24\% \text{ students participated } =>80\% \\ 15-19\% \text{ students participated } =>60\% \\ 10-14\% \text{ students participated } =>50\% \\ \text{Else} => 0 \text{ marks} \end{array} \end{array}$	E-Resources	М	30-39 % students =>60%				
$\frac{1}{10\%} = \frac{1}{10\%} = \frac{1}$			20-29 % students =>50%				
			Else=> 0 marks				
			>=25% students participated =>100% marks				
Extra Curricular ActivityNA15-19 % students participated =>60% 10-14 % students participated =>50% Else=> 0 marksMentoringH>=100% students mentored => 100% >=90% students mentored => 90% >=80% students mentored => 80%MentoringH>=70% students studied => 70% Else=>= 0 marksSoft SkillsNA>=80% students retained=> 100% >=70% students retained=> 80%Soft SkillsNA>=80% students retained=> 100% >=70% students retained=> 80%			20-24 % students participated =>80%				
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Mentoring H >=70% students studied => 70% Else=>= 0 marks Soft Skills NA >=80% students retained=> 100% >=70% students retained=> 80% >=60% students retained=> 70% >=50% students retained=> 60%							
Else=>= 0 marks Soft Skills >=80% students retained=> 100% >=70% students retained=> 80% >60% students retained=> 70% >=50% students retained=> 60%	Mentoring	Н					
Else=>= 0 marks Else=>= 0 marks >=80% students retained=> 100% >=70% students retained=> 80% >60% students retained=> 70% >=50% students retained=> 60%	 -						
Else=>= 0 marks Soft Skills >=80% students retained=> 100% >=70% students retained=> 80% >60% students retained=> 70% >=50% students retained=> 60%			>=70% students studied $=>70%$				
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Soft Skills>=70% students retained=> 80%>60% students retained => 70%>=50% students retained=> 60%							
Soft SkillsNA>60% students retained => 70%>=50% students retained=> 60%			>=80% students retained=> 100%				
>=50% students retained=> 60%			>=70% students retained=> 80%				
	Soft Skills	NA	>60% students retained $=>70%$				
$Else \gg 0$ marks			>=50% students retained=>60%				
			Else = 0 marks				

 Table B.8.5.1a Assessment Process for Attaining PO1

Note: Sample rubric for assessment of PO1 is defined above and similarly the rubric for assessment of other PO's is considered with different weightage.

PO Attainment Levels through First Year courses:

2018-19 Semeter I

Courses	Subject	PO1	PO2	PO3	PO 4	PO 5	PO 6	PO7	PO 8	PO 9	PO 10	PO 11	PO 12
Course	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO 9	PO1 0	PO11	PO 12
CO101	Engineering Mathematics-I	3	1	-	-	-	-	-	-	1	1	-	1
CO102	Engineering Physics	2	1	-	-	-	0.25	-	-	1	0.25	-	1
CO102	Engineering Chemistry	2	1	0.75	0.5	-	0.75	0.75	-	-	0.75	-	-
CO103	Communication Skills	-	-	2	-	-	3	2	3	2	1	-	1



CO104	Programming for Problem Solving	1.5	1.75	1.75	1.75	1.25	0.5	0.75	NA	0.2 5	1.25	NA	1.5
CO105	Basic Electrical Engineering	2.66	2.33	1	1.33	1.33	-	-	-	2	0.33	-	-
CO106	Engineering Physics Lab	2	1	1	-	-	0.5	-	-	1	1	-	2
CO106	Engineering Chemistry Lab	1.66	1.66	-	1	-	-	0.66	-	1	2	-	-
CO107	Language Lab	-	1	-	-	-	1	-	-	3	3	-	1
CO108	Computer Programming Lab	1.67	1.33	1.67	0.33	0.67	1	NA	NA	1	0.67	NA	0.6 7

Table B.8.5.1(a) PO Attainment of Sem. I (2018-19)

2017-18 Semeter I

Course	Subject	PO1	PO2	PO3	PO 4	PO 5	PO 6	PO7	РО	РО	РО	PO 11	PO
S	-								8	9	10		12
MA-	Engineering	3	2	1	-	1.25	1	2	-	3	2	-	1
101	Mathematics-1												
HU-	Human												
103	Values	-	-	2	-	-	3	2	3	2	1	-	1
PY-	Engineering Physics	2	1	1			1			1	1		1
101		2	1	1	-	-	1	-	-	1	1	-	1
CS-	Computer Programming-	2.75	1.75	1.50	1.75	1.5	1.25	1	-	-	1.25	_	2.5
101	I					1.5							
CE-	Environmental	2	0.75	1	0.5	-	1.75	1.75	1	.75	.5	-	1
101	Engineering and												
	Disaster Management												
HU-	Human Values:	-	-	1	-	-	3	3	3	1	1	-	1
104	Activities												
PY-	Engineering Physics Lab	2	1	1	-	-	1	-	-	1	1	-	1
102													
CS-	Computer Programming-												
102	I Lab	2	3	2	1	-	-	-	-	2	1	-	1
CE-	Computer Aided		-	-	-	-	-	-					
102	Engineering												
	Graphic	3							-	2	2	-	1
ME-	Mechanical Workshop												
101	Practice	3	-	-	-	-	-	-	-	2	2	-	1
	Average Attainment								2.3	1.6			1.1
		2.46	1.58	1.21	1.08	1.37	1.71	1.95	3	3	1.27	_	5

Table B.8.5.1(a) PO Attainment of Sem. I (2017-18)



						17-18 EM II							
Course s	Subject	PO1	PO 2	PO3	PO 4	PO 5	PO 6	PO7	PO 8	PO 9	PO 10	PO 11	PO 12
MA- 102	Engineering Mathematics-II	3	2	1	-	1.25	1	2	-	3	2	-	1
HU- 101	Communication Skills	-	1	2	-	-	1	-	-	3	3	-	1
CY- 101	Engineering Chemistry	2	1	0.5	0.5	-	0.25	0.5	-	-	0.5	-	-
CS- 103	computer Programming-II	2.25	1.7 5	1.5	2.25	2	1.75	2		-	2	-	1.75
CE- 103	BAsic Civil Engineering	1.5	1	.5	-	-	.25	.5	.25	.75	.25	.5	.25
ME- 102	Basic Mechanical Engineering	2.25	-	.75	2.25	.75	. 2 5	1.5	2.25	. 5	1.25	-	1
CY- 102	Engineering Chemistry Lab	2	2	-	1	-	-	-	-	1	2	-	-
CS- 104	Computer Programming-II	2	2	3	1	_		_	-	2	1	2	1
HU- 102	Communication Skills Lab	-	1	-	-	-	1	-	-	3	3	-	1
ME- 104	Computer Aided Machine Drawing	3	2	2	-	2	2	2	-	-	2	-	2
	Average Attainment		1.5							1.8			
		2.25	2	1.40	1.40 PO Atta	1.50	0.93	1.41	1.25	9	1.70	1.25	1.12

2016-2017(I Semester)

Courses	Subject	PO1	PO2	PO3	PO	РО	PO	PO7	PO	PO	РО	РО	РО
					4	5	6		8	9	10	11	12



Self Assessment Report

101	Communicative English	-	1	1	-	-	-	1.3	-	-	3	-	1
102	Engg. Maths-I	3	3	1.6	1	1	1	1	-	2	2	-	1
103	Engg. Physics-I	3	3	1	.75	1.5	2.5	1.75	-	2	1.25	1	1.5
104	Engg. Chemistry	2	1.3	1	1	-	2	2	-	-	1	-	1
105	Basic EE	2.8	2.6	2	2	1.4	1.2	1.2	-	1.8	1	1.4	2.2
106	Physics Lab	3	3	2.5	1	2.5	3	2.5	2	2.5	1	1	2
107	Chemistry lab	2	1.67	1.67	1	-	2	2	-	1	1	-	1
108	EE Lab	2.8	2.9	1.4	-	-	2	-	-	0.33	-	-	3
110	Workshop	3	1.5	1	0.5	-	1	0.5	-	1	0.5	0.5	1.5
	AverageAttainment												
		2.7	2.21	1.46	1.03	1.6	1.83	1.53	2	1.51	1.34	0.97	1.57

Table B.8.5.1(c) PO Attainment of Sem.I (2015-16,2016-17,2017-18)



Self Assessment Report

Courses	Subject	PO1	PO2	PO3	PO 4	PO 5	PO 6	PO7	PO 8	PO 9	PO 10	PO 11	PO 12
201	CommunicationTechni ques	-	1	2	-	-	1	-	1	3	3	-	1
202	Engg. Maths-II	3	2	1	-	1.2 5	1	2	-	3	2	-	1
203	Engg. Physics-II	3	3	2	1	1.8	2.2	2	-	1.6	1.4	1	2
204	Chemistry & Env. Engg.	2	1.33	1	-	-	-	2	-	-	1	-	1
205	Engg. Mechanics	3	2	-	-	-	-	-	-	-	-	-	2
206	FOC	2.75	1.5	1.5	1.2 5	1.2 5	1	1.25	-	1.7 5	1.2 5	-	1.2 5
207	Physics Lab-II	3	3	2.5	2	3	3	1.5	1.5	2.5	2	1	2
208	Chemistry lab	2	1	1	1	-	1	2	-	1	1	-	1
209	CP Lab	2.7	1.5	1	1.2	1.2	1	1.2	-	1.7	1.2	-	1.2
210	Machine Drawing	3	2	2	-	2	2	2	-	-	2	-	2
211	CT Lab	-	-	1	-	-	1	-	1	3	3	-	1
	Average Attainment	2.71	1.83	1.5	1.2 9	1.7 5	1.4 6	1.74	1.1 6	2.1 9	1.7 8	1	1.4

2016-2017(II Semester)

Table B.8.5.1(d) PO Attainment of Sem.I (2015-16,2016-17,2017-18)



Self Assessment Report

8.5.2. Actions taken based on the results of evaluation of relevant POs (5)

(The attainment levels by direct (student performance) are to be presented through Program level Course-PO matrix as indicated)

PO Attainment Levels and Actions for improvement – CAY only – Mention for relevant Pos

• 2018 -19 session going on (Results awaited)

PO Attainment Levels and Actions for improvement – CAY (m1) only – Mention for relevant Pos

POs	Target Level in %	Attainment Level	Observations
2.00		in %	
PO1: Engin	eering knowledge:		
PO1	58.05	46.93	Observations:
			• Targets are not fully achieved in RTU results.
			• Students are not exposed to complex engineering
			problems.
			ve the participation of students.
Action 2: Un	iversity question papers	are solved in classes.	
PO2: Proble	m analysis.		
PO2	67.38	55.61	Observations :
102	07.56	55.01	Students are not exposed to complex engineering
			problems
			problems
			• Curriculum designed for I Year does not contain
			literature research and analysis of problem
			normale research and analysis of prosterin
Action 1: St	udents are motivated to p	participate in science pro	bject exhibition for developing an analytical mind which can
work toward	s problem solving.		
		*	E-Resources to enhance their knowledge.
<u> </u>	n/development of solution	ons:	
PO3	67.79	62.75	Observations :
			• I Year curriculum include only basic knowledge of
			Engineering and sciences.
A 1 3 5			
			Hackathon are initiated in the campus.
Action 2: Stu	idents are motivated to in	nprove their participation	on in technical/social/extra-curricular activities.



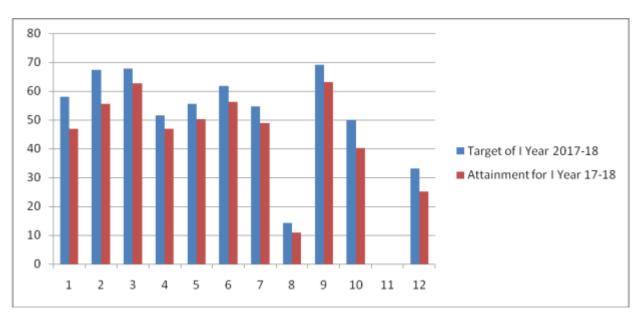


PO4:	51.58	46.91	Observations :
104.	51.56	40.91	 Few activities related to understanding of complex problems and its investigation.
Action 1: W	Vorkshops are conducted to g	vive the hands on ex	perience to students and faculty.
			ster themselves in online courses.
PO5: Mode	ern tool usage:		
PO5	55.54	50.31	 Observations : Target and attainment both are less as students learn basics of computer programming in I Year. Other subjects does not use modern IT tools for problem solving.
methods of	problem solving.		o that students can participate and learn latest techniques and
		icipate in inter colle	ege events to get exposure to real world problems.
PO6: 110 0 PO6	engineer and society: 61.8	56.33	Observations :
	01.0	50.55	• The students are found to be less active as far as socia activities were concerned; also they were unaware about the basic health and safety issues with engineering point of view.
			• Most of the courses of B.Tech first year are not addressing the needs of, health, safety and social concerns regarding engineering practices in real life.
Institute. Action 2: T voluntary te	hese groups encouraged stuc eaching and mentoring of do	ents to take part in wntrodden children.	groups like Soch, Suhasini, Aashayein, Zarurat available at Swachch Bharat drives, Blood Donation Camps, Village visits,
	ronment and sustainability		
PO7	54.66	48.79	 Observations : Less awareness of students about the issues related to global and environmental sustainability.
Action 2: T towards env	he activities like Tree Planta vironment. he students were mentored to evel.	tion Drive and Clea	which global and environmental issues are improved. Inliness Drive are organized to instill in them the responsibility r harvesting, water conservation and waste recycling at the
PO8: Ethic PO8	14.27	10.99	Observations:
100	14.27	10.33	The students were reluctant to bear upon a responsibility in the competitive activities.



			casual in their conduct.
			ned the students are made to attend anti- ragging seminars,
	on personal conduct and		advisors in the college. i encourages students to experience professional life with high
moral conduct a		shed spiritual cell which	rencourages students to experience professional me with high
	al and team work:		
PO9	69	63.07	Observations:
			Classroom teaching does not provide environment
			for team work, whereas student can show his/her
			working as a team member or team leader during
			practical classes and other co curricular activities.
			Ity to participate in group activities and lead the group as a
responsible lead	ler. The group activities i	ncluded Hackathon, Fu	n activities at college fest, Model United Nations etc.
Action 2. The a	ativitias lika Group disau	ssions quizzos eta teal	hnical events like J- Techtrix, JECRC Hackathon etc. and
	d coordinating for variou		
PO10: Commu	ē		
PO10	49.94	40.27	Observations:
		-	• The students are found to be hesitant in public
			speaking and express their opinion.
Action 1. In ord	ler to address this issue th	he group of students are	e asked to prepare and give power point presentations on the
	e curriculum as well as th		
			college competitions to enhance their communication skills.
	management and finan		
PO11	NA	NA	Observations:
			• I Year students are not involved in project
			management and finance, but they can learn the
			basics by participating in other activities organized
			in college.
Action 1: Annua	al Project exhibition is or	ganized in the college v	where I year students participate learn the basics of project
handling and fir	nance.		
PO12: Life-lon			
PO12	33.05	25.18	Observations :
			• The students are ignorant about the significance of
			the subject in broader context of life.
			subject knowledge of new techniques.
	nts are mentored to work		
	*	* *	n technical/social/extra-curricular activities.
	Table B.o.5.2a PU Atta	innent Levels and Act	tions for improvement for 2017-18





2017-18

Attainment of Po's From I Year Courses in the year

Figure 8.5.2a Attainment of Po's From I Year Courses in the year 2017-18

PO Attainment Levels and Actions for improvement – CAY (m2) only – Mention for relevant Pos

(2016-2017)

POs	Target Level in %	Attainment Level in %	Observations
PO1: Eng	gineering knowledge:		·
PO1	62.53	53.64	 Observations: Participation in technical events can be improved. In RTU result, students are attaining less marks.
Action 2: Action 3:	Extra classes based on uni	versity question paper a	gular classes to improve the RTU result. & pattern was taken. ove the participation of students.
PO2	70.03	50.03	 Observations : Curriculum designed for I Year does not contain literature research and analysis of problem Use of e- resources was less so it can be improved.
			nal/International conferences. roject exhibition for developing an analytical mind which can work



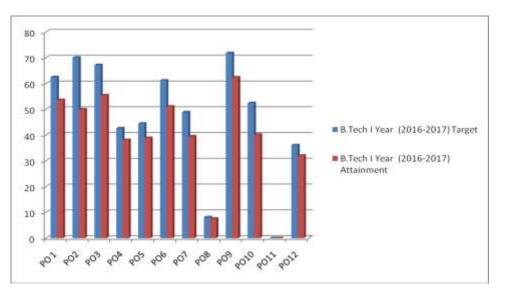
towards p Action 3:	Students are guided to	J use more de more e-re	sources.
	sign/development of s		
PO3	67.18	55.46	 Observations : I Year curriculum include basic knowledge of Engineering and sciences. Participation in technical & social activities was less
		ted to improve their part of to join various Techn	rticipation in technical/social/extra-curricular activities. ical Clubs in Institute.
		of complex problems:	
PO4:	42.65	38.1	 Observations : Participation in technical activities was less. Use of e- resources was less .
			• Students have less understanding of complex problems and its investigation.
Action 2:	Workshops are condu		ased by mentoring & motivation.
	They are motivated to		register themselves in online courses.
			Observations :
PO5: Mo PO5 Action 1: Action 2:	They are motivated to odern tool usage: 44.44 More of technical events Students are motivated	o use E- Resources and 38.8 ents are organized at ins ents d to join robotics/moon	 Observations : Target and attainment both are less as student learn basics of computer programming in I Year. Other subjects does not use modern it tools for problem solving.
PO5: Mo PO5 Action 1: Action 2:	They are motivated to odern tool usage: 44.44 More of technical even	o use E- Resources and 38.8 ents are organized at ins ents d to join robotics/moon	 Observations : Target and attainment both are less as student learn basics of computer programming in I Year. Other subjects does not use modern it tools for problem solving.
PO5: Mo PO5 Action 1: Action 2: PO6: Th PO6 Action 1:	They are motivated to odern tool usage: 44.44 44.44 More of technical events Students are motivate e engineer and societ 61.2 The students are encomposition	average 38.8 38.8 38.8 ents are organized at insection of the product of	register themselves in online courses. Observations : • Target and attainment both are less as student learn basics of computer programming in I Year. • Other subjects does not use modern it tools for problem solving. titute level. rider etc. Observations : • Students need to be made more sensitive towards
PO5: Mo PO5 Action 1: Action 2: PO6: Th PO6 Action 1:	More of technical eve Students are motivated 61.2	average 38.8 38.8 38.8 ents are organized at insection of the product of	register themselves in online courses. Observations : • Target and attainment both are less as student learn basics of computer programming in I Year. • Other subjects does not use modern it tools for problem solving. titute level. rider etc. Observations : • Students need to be made more sensitive towards social issues.



PO8 8.14 7.61 Observations: • The students were reluctant to bear upon a responsibility in the competitive activities. Moreover, some of the students were found t casual in their conduct. Action 1: As far as professional conduct and behavior is concerned the students were made to attend anti- ragging semi interactive talks on personal conduct and behavior with eminent advisors in the college. Action 2: The college has a well- established spiritual cell which encourages students to experience professional life wit moral conduct and spirituality. PO9 71.85 62.4 Observations: • Team activities should be included in regula practice. PO9 71.85 62.4 Observations: • Team activities should be included in regula practice. PO10: Communication: PO10 52.4 40.19 Observations: • The students are unable to express their view public platform. PO11: Project management and finance: PO12 NA NA Observations: • I Year students are not involved in project management and finance, but they can learn basics by participating in other activities org in college. PO11: NA NA Observations: • I Year students are not involved in project management and finance, but they can learn basics by participating in other activities org in college. PO12: Life-long learning: PO12 36.08 32.05 Observations : • The students were ignorant about the signific of the subject in broader context of life.	PO8: Ethic		environment and sustai	
Action 1: As far as professional conduct and behavior is concerned the students were made to attend anti- ragging seminteractive talks on personal conduct and behavior with eminent advisors in the college. Action 2: The college has a well- established spiritual cell which encourages students to experience professional life with moral conduct and spirituality. PO9 71.85 62.4 Observations: Team activities should be included in regula practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering an coordinating for various events in annual fest Renaissance, MUN. PO10: Communication: PO10: Communication: PO10: S2.4 40.19 Observations: • The students are unable to express their view public platform. • The students are unable to express their view public platform. Action 1: In order to address this issue, the group of students are akked to prepare and give power point presentations on opics within the curriculum as well as the beyond the curriculum. • The students are not involved in project management and finance: PO11: Project management and finance: PO12: Observations: 1 Year students are not involved in project management and finance. PO13: Project exhibition is organized in the college where I year students participate learn the basics of proje andling and finance. PO11: NA NA Observations: 1 Year students ar			7.61	
Action 1: As far as professional conduct and behavior is concerned the students were made to attend anti- ragging semiinteractive talks on personal conduct and behavior with eminent advisors in the college. Action 2: The college has a well-established spiritual cell which encourages students to experience professional life withoral conduct and spirituality. PO9: Individual and team work: PO9 71.85 62.4 Observations: • Team activities should be included in regula practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. PO10: Communication: PO10 52.4 40.19 PO10: S2.4 40.19 Observations: • The students are unable to express their view public platform. Action 1: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. Action 2: They are encouraged to participate various competitions to enhance their communication skills. PO11: Project management and finance: PO12 PO12 36.08 32.05 Observations: • I Year students are not involved in project management and finance. PO12: Life-long learning: PO12: Life-long learning: PO12: Students were ignorant about the signifid of the subject in broader context of lif				
Action 1: As far as professional conduct and behavior is concrued the students were made to attend anti-ragging semiinteractive talks on personal conduct and behavior with eminent advisors in the college. Action 2: The college has a well-established spiritual cell which encourages students to experience professional life without and spirituality. PO9: Individual and team work: PO9: Individual and team work: PO9: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. PO10: Communication: PO10: 52.4 40.19 Observations: • The students are unable to express their view public platform. PO10: Communication: PO11: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. Action 1: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. PO11: NA NA PO12: Life-long learning: PO12: Life-long learning: PO12: 1 Students are not involved in project management and finance: PO12: 2 36.08 32.05 Observations : • The students were ignorant about the signific of the subject in broader context				
Action 1: As far as professional conduct and behavior is concerned the students were made to attend anti-ragging semiinteractive talks on personal conduct and behavior with eminent advisors in the college. Action 2: The college has a well- established spiritual cell which encourages students to experience professional life wit inoral conduct and spirituality. PO9 71.85 62.4 Observations: • Team activities should be included in regula practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. PO10: Communication: • The students are unable to express their view public platform. PO11: Forject management and finance: • The students are unable to express their view public platform. PO11 NA Observations: PO12				
Action 2: The college has a well- established spiritual cell which encourages students to experience professional life with moral conduct and spirituality. PO9: Individual and team work: PO9: Individual and team work: PO9: Individual and team work: PO9: Individual and team work: PO9: Individual and team work: PO9: Individual and team work: • Team activities should be included in regula practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. PO10: Communication: PO10: Communication: PO10: S2.4 40.19 Observations: PO10: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. • The students are not involved in project management and finance: PO11: Project management and finance: PO12: Life-long learning: • I Year students are not involved in project management and finance. PO12: Life-long learning: PO12: 36.08 32.05 Observations : PO12: Action 1: Lecture content includes applications and advances in subject knowledge of new techniques. Action 1: Lecture content includes applications and advances in subject knowledge of new techniques.				casual in their conduct.
PO9: Individual and team work: PO9 71.85 62.4 Observations: Team activities should be included in regular practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. PO10: Communication: PO10: Communication: PO10 52.4 40.19 Observations: • The students are unable to express their view public platform. Action 1: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. Action 2: They are encouraged to participate various competitions to enhance their communication skills. PO11: Project management and finance: PO11 NA Observations: • I Year students are not involved in project management and finance. PO11 NA Observations: • I Year students participate learn the basics of proje handling and finance. • I Year students were ignorant about the signific of the subject exhibition is organized in the college where I year students were ignorant about the signific of the subject in broader context of life. PO12 36.08 32.05 Observations : • The students were ignorant about the signific of the subj	Action 1: A	As far as professional	conduct and behavior is	concerned the students were made to attend anti- ragging seminars
moral conduct and spirituality. PO9: Individual and team work: PO9 71.85 62.4 Observations: Team activities should be included in regula practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. P010: Communication: P010 52.4 40.19 Observations: The students are unable to express their view public platform. Action 1: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. • The students are not involved in project management and finance: P011: Project management and finance: P011 NA Observations: I Year students are not involved in project management and finance, but they can learn basics by participating in other activities org in college. Action 1: Annual Project exhibition is organized in the college where I year students participate learn the basics of proje handling and finance. 32.05 Observations: The students were ignorant about the signific of the subject in broader context of life. P012: Life-long learning: P012 36.08 32.05 Observations : • The stude				
PO9: Individual and team work: PO9 71.85 62.4 Observations: • Team activities should be included in regular practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. PO10: Communication: 0 P010 52.4 40.19 Observations: • The students are unable to express their view public platform. Action 1: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. Action 2: They are encouraged to participate various competitions to enhance their communication skills. PO11: Project management and finance: PO11 NA PO12: Life-long learning: PO12: Life-long learning: PO12: Solve and finance. PO12: Action 1: Lecture content includes applications and advances in subject knowledge of new techniques. Action 2: Students were mentored to work for better achievement forever.			established spiritual cel	l which encourages students to experience professional life with hi
PO9 71.85 62.4 Observations: • Team activities should be included in regula practice. Action 2: The team activities like Group discussions, quizzes etc., technical events like J- Techtrix, and volunteering and coordinating for various events in annual fest Renaissance, MUN. • The students are unable to express their view public platform. PO10: Communication: • The students are unable to express their view public platform. • The students are unable to express their view public platform. Action 1: In order to address this issue, the group of students are asked to prepare and give power point presentations on topics within the curriculum as well as the beyond the curriculum. • The students are not involved in project management and finance: PO11: Project management and finance: PO12 Observations: • I Year students are not involved in project management and finance; PO12: Life-long learning: PO12 36.08 32.05 Observations : • The students were ignorant about the signific of the subject in broader context of life. Action 1: Lecture content includes applications and advances in subject knowledge of new techniques. Action 2: Students were mentored to work for better achievement forever.			z.	
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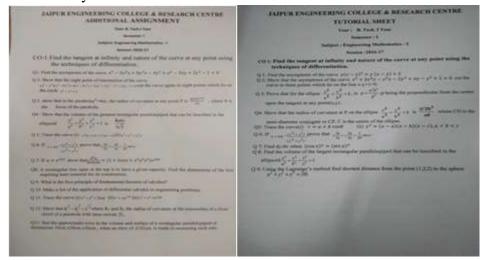
Attainment of Po's From I Year Courses in the year 2016-17

Figure 8.5.2b Attainment of Po's From I Year Courses in the year 2016-17

Gap fulfilling activities

Based on the above observations following actions are taken to overcome the gap

- **1.** To attain PO 1 : Facilitating & making them learn the use of E- resources while learning:
 - Soft copy of notes is provided to students for reference.
 - One or two questions are given in assignment which is to be searched from internet only.



Note: Similarly, for each PO gap fulfillment such type of activities organized.



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CRITERION 9	Student Support Systems	50
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9.1 Mentoring System to help at individual level (5)

Type of mentoring: Professional guidance/ career advancement/ course work specific/ laboratory specific/ all round development. Number of faculty mentors: Number of students per mentor: Frequency of meeting (The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)

Professional Guidance/ Career Advancement

An effective Student mentoring system has already been implemented in our college to mentor throughout activities, performance and over all development of students.

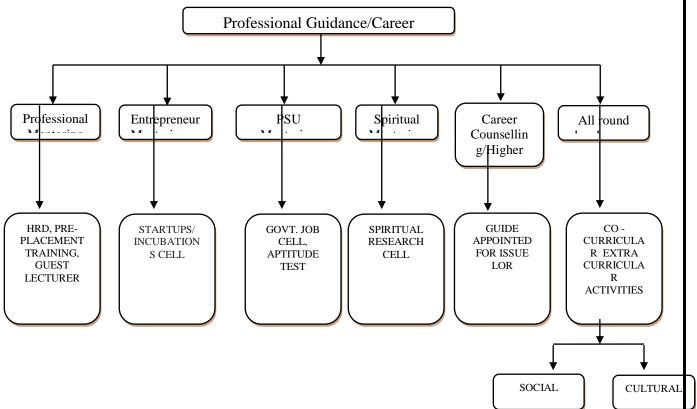


Fig 9.1a: Professional Guidance/ Career Advancement

S.No.	Type of Mentoring	Name
1	PSU Mentoring	Professor (Dr.) Vinay Kumar Chandna
		Mr. P.K.Tiwari (Rtd. IPS)



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2	Professional Mentoring	Dr.S.N.Gupta Mr. Mukt Bihari
3	Entrepreneur Mentoring	Mr. SiddharthChaturvedi
4.	Social and Spiritual Mentoring	Mr. Mukesh Agarwal
5.	Higher Studies Mentoring	Ms. Neelakshi Chaturvedi
6.	Overall Development	Mr. Anshul Mittal

Table B.9.1a:Type of Mentoring

> Professional mentoring

We have Human Resource & Development cell (HRD), senior advisor and many senior dignitaries who guide students for their career and placement.

Different interactive sessions for students with senior advisor and other senior member are organized to motivate and guide them for enhancing career.

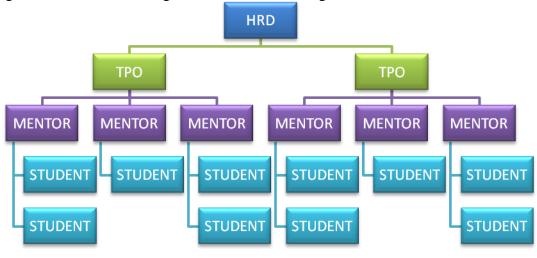


Fig.9.1b:Professional mentoring

• **Resume writing sessions:** Organized for students to guide them for effective resume writing.

S.No.	Year	Speaker	Date	No.of participants
1	2015-16	Mr. P.K.Tiwari	23 July,2015	250
2	2016-17	Mr. P.K.Tiwari	25July,2016	195
3	2017-18	Mr. P.K.Tiwari	21 July,2017	196



Table B.9.1b:Resume writing sessions

• Training conducted for improving specific technical domain practical knowledge in campus itself.

Year	Name of event	Object of event	No. of students participated	Date of event
2016-17	Pre placement training by Face	Bridging gap between academics & Industry	250	18-7-2016 to 6 -8- 2016
2017-18	Pre placement training program by Face	Bridging gap between academics & Industry	197	20-7-2018 onwards

Table B.9.1c: Conducted training

Placement trainning Time table

Dates\ Hours	8.30- 9.30	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30	
9th July'18 Monday	Report to Mentors	Departm Orientati	ent on н₀d/тро	в	Discussion on Resume Writing	Submit the RESUME to mentors		
10th July'18 Tuesday		Summer Internship Writeup and Presentation Session Venue: BS12			A breif Introducti	and the content		
11thJuly'18 Wednesday	Group Discussion and Extempore session/ Interview do's and don'ts			ĸ	Project (Sy Reporting dates pepared for Inter	and Type of q		

Fig.9.1b:



Pre Placement Training (L-1) 1. technical class on C&C++ 2. Orientation Program 3. Resume Writing 4. IS 5. P&S 6. Mot. & Mat. Dist. 7. CBT

Branch	Date	8:30-10:00	10:00-11:30	11:30 - 12:30	12:30-2:00	2:00-3:30	
branch	Date			11.50 - 12.50	12.30-2.00	2.00-3.30	
		Orientation	distribution				
	12-Jul	Program (TPO & HoD)			CBT		
	13-Jul	Resume writing	Interview skills		СВТ		
ECA		C, C++	C, C++				
ECB		(ECA & ECB, C-401) By NM	(CSA & CSB, C-501) By AM				
CSA							
CSB	14-Jul	Project / Seminar	Project / Seminar	BREAK	CBT		
Branch	Date	8:30-10:00	10:00-11:30	11:30 - 12:30	12:30-2:00	2:00-3:30	
					Motivation and Material		
					distribution Orientation		
		СВТ			distribution		
	12-Jul		CBT		(TPO & HoD)	Program	
				-	(TPO & HoD)	Program	
	12-Jul 13-Jul		CBT		(TPO & HoD) Resume writing	Program Interview skills	
ECC				-	(TPO & HoD) Resume writing C, C++	Program Interview skills C, C++	
					(TPO & HoD) Resume writing	Program Interview skills	
ECD				_	(TPO & HoD) Resume writing C, C++ (ECC & ECD, C-401) By NM	Program Interview skills C, C++ (CSC & CSD, C-501) By AM	
ECD CSC	13-Jul		CBT	-	(TPO & HoD) Resume writing C, C++ (ECC & ECD, C-401) By NM Project / Seminar	Program Interview skills C, C++ (CSC & CSD, C-501) By AM Project / Seminar	
ECD				BREAK	(TPO & HoD) Resume writing C, C++ (ECC & ECD, C-401) By NM	Program Interview skills C, C++ (CSC & CSD, C-501) By AM	

7ECA

PI-Tech1:Mr.Anil Jain, PI-Tech2:Ms.Parul Tyagi ; PI-HR1:Mr. S.S.Manaktala, PI-HR2:Dr. S K Singh; GD:Mr. Devesh Gupta & Mr. Ashish Sharma, Tech Lecture: Mr. Raj Kumar, Mr. Ankur Gangwar, Mr. Aashutosh Sharma, Dr. Lokesh Bansal & Naresh Kumar, Mr. Pravin Sharma.

Date	8:30-9:30	9:30-10:30	10:30-11:30	11:30 - 12:00	12:00-1:00	1:00-2:00	2:00-3:00	3:00-4:00	Check Lis
						(PI Tech1-AJ at ROOM NO. B509) & (PI Tech2- PT at ROOM NO. BG03) BATCH: A1			
16-Jul	APT VENUE: 8506				Subject: EDC Faculty: Mr. RAJKUMAR	(PI HR1-SSM at ROOM NO. BG13) & (PI HR2- SKS at ROOM NO.) BATCH: A2		СВТІ	
						(GD 1-DG at ROOM NO. BG01) & (GD 2- AS at ROOM NO. BG01) BATCH: A3 TIME SLOT: 1-2 PM			
17-Jul						(PI Tech1-AJ at ROOM NO. BS09) & ROOM NO. BG03) BATC	6.2.2.1.6.8		
		APT VENUE: B506	Subject: EDC Faculty: Mr. RAJKUMAR	(PI HR1-55M at ROOM NO. BG13) & (PI HR2- 5KS at ROOM NO.) BATCH: A3		CBT2	Pi[Tech]-1 Pi[HIQ-1 GD-1		
				BREAK	BREAK	(GD 1-DG at ROOM NO. BG01) & (GD BG01) BATCH: A1 TIME SLC	CONTRACTOR OF A DECEMBER OF		CRT-S



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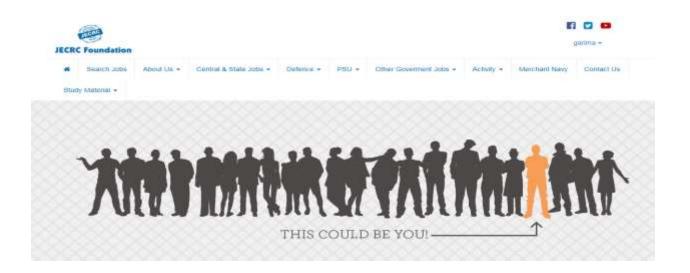


Pre Placement training Program by FACE

> Government Job Cell

The Initiative taken by institute under the mentorship of Prof.(Dr.) Vinay Chandna for making students career in government sector in 2016-17. Cell is under the guidance of Mr. P.K.Tiwari and Mr. O.P.Jain in institute to prepare students towards different competitive examination. In this cell we encourage and inspire students for competitive examination like GATE, CAT, MAT etc.

- Organized classes for GATE aspirants.
- Provided course material to students.
- Career opportunities in government sector are shared with the interested students.





Self Assessment Report

Item		CAY (2017-2021)	CAYm1 (2016- 2020)	CAYm2 (2015-2019)
National Level Entrance Examination(JEE)	No. of Students admitted	228	235	225
	Opening Score/Rank	138	131	400(Rank)
	Closing Score/Rank	28	43	14004(Rank)
State/University/Level Entrance	No. of Students admitted	N/A	N/A	N/A
Examination/Others	Opening Score/Rank	N/A	N/A	N/A
	Closing Score/Rank	N/A	N/A	N/A
Name of the Entrance Examination for Lateral	No. of Students admitted	01	3	2
Entry or Lateral entry details	Opening Score/Rank	58.42	69.89	61.57
	Closing Score/Rank	58.42	65.51	55.95
Average Mark	Average Marks			72.52

> Entrepreneur cell

Entrepreneurship cell is established by institute under the mentorship of Mr. SiddharthChaturvedi, our College for encouraging and inspiring students for start-ups and entrepreneur. Various interactive sessions for students with alumni and start-up representative are organized to know the importance of being an entrepreneur and ways to get financial assistance to become an entrepreneur.

Cell is responsible for :

- 1. Initiative and Development of Start-ups/Incubations
- 2. Initiative towards centre of excellence
- 3. Relationship with companies
- 4. Motivate students, guide and help them in the same direction.



Self Assessment Report

An Entrepreneurship awareness camp organized on 2ndsep, 2016 in which our students and faculties participated.

• Institute has success stories for every pass out year as a result of

Entrepreneurship cell and incubation centre.

S.N					
0	Name	Batch	Branch	Organisation	Present Location
1	Gaurav Sharma	2015	CSE	Thank You	Jaipur
2	Monu Kumar	2015	CSE	Kiranevala Trading Pvt Ltd	Jaipur
3	Pulkit Agrawal	2016	CSE	Encode Zero	Delhi
4	Utkarsh Nagpal	2017	CSE	Heal Nectar	Jaipur
5	Dhiraj Kumar	2017	CSE	Replica Classes	Balotra
6	Pramit Jain	2017	CSE	RIBUK SELLER	Jaipur
7	SHIVANSH SHARMA	2018	CSE	urbanclothingfactory	Jaipur
8	SHIV KUMAR	2018	CSE	Hind AI Systems	Nasik
9	Akshat garg	2019	CSE	VE guide	JAIPUR

Spiritual Mentoring

A special initiative has been taken by our institute in the form of SPIRITUAL RESEARCH CELL. The cell was established on 6th October, 2016. The inauguration was done by the auspicious presence of The Executive Secretary, Brahmakumaris& Vice Chairman, Rajyoga Education & Research Foundation, RajyogiMruthyunjaya Ji, Dr. U.S Agarwal, Principal, SMS Medical College, Jaipur and Meditation Expert, BK SushmaJi.This cell motivates students mentally and builds up their confidence.



Inauguration of Spiritual cell

> Career Counselling /Higher studies



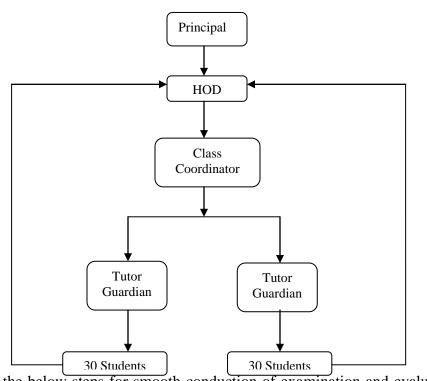
Self Assessment Report

A Guide has been appointed specifically for higher study counselling and career counselling in December 2016. Guide counselled many students and encouraged them for further studies on the right path for career. Letter of recommendation (LOR) has been issued to some students.

S.No.	Dept. Name	No. of LOR issued(Approx)
1	ECE	5

Course Work Specific/ Laboratory Specific

For II and III year we have Tutor Guide (TG) who follows instructions given by Class Coordinator (CC).



The department follows the below steps for smooth conduction of examination and evaluation process:

- The department adhere academic calendar prescribed by RTU, Kota
- There is departmental Examination Committee in which two faculty members are included for conduction of Internal Examination and Two for External Examination.
 - a) The committee circulates notice a week before the commencement of examination by taking prior approval from HOD.



Self Assessment Report

- b) Course Coordinator prepares and submit their question paper to respective class coordinator
- c) Then class coordinator submits all question papers to Moderation Committee.
- d) Moderation Committee in coordination with IQAC selects one question paper among the set of three papers.
- e) Selected Question paper send to Internal Examination Coordinator then internal examination coordinator takes printout of the final paper.
- f) During the exam two invigilators are assigned in each class room and students sits in the class rooms according to appropriate seating plan.
- g) After the completion of exam, answer sheets evaluation, result analysis on basis of CO, weak/strong student list is prepared by course coordinator and submitted to Internal Examination Coordinator. Along with the soft copy.
- h) If student secures marks less than 60% in some particular CO then he/she will be considered as weak student. Then course coordinator provides assignment to them and evaluates.
- i) Student who secures marks greater than 60% in some particular CO then he/she will be considered as strong student. Then they will be encouraged & motivated for GATE/PSUs/Govt. Exam.

Jaipur Engineering College and Research Centre Department of Electronics & Communication Engineering Minutes of Meeting

Date/Day: 22/08/2017 Saturday	Time: 1:30am to 2:30 noon	Location: CP12 Lab, Block-B, JECRC
Speaker: TG	Speaker's Designation: AP	Attended by: All Students

Agenda of Meeting: To discuss about course coverage.

Attendees:

Meeting started with the welcome of TG by students. Following were the points of meeting:-

S.No.	Points
1	TG interacted with all students.
2	Discuss about course coverage.



Self Assessment Report

- Discussed about Course and content delivery
- Discussed about problems in the class room
- Coverage of Course and requirement of extra classes

The meeting ended up with the thanks of Chair and next round of meeting would be held with prior notice.

> All round Development

The Initiative taken by institute under the mentorship of Mr. Anshul Mittal is responsible for the overall development of student. His responsibility is to encourage students to participate in different co-curricular and extracurricular activities.

SDO Responsibilities:

- Planning, developing and delivering a variety of student services and activities (cocurricular and extracurricular activities)
- Motivate and engage students also oversee students activity on campus
- Handles promotions of college events manual and e-promotions
- Providing support to student council
- Providing support, guidance and advocating for students and faculty in all aspects of student life.

Co-curricular Activates:

	Industrial Trainings/Industrial Visits/Workshops					
Sr.No.	Department Activity	Level of Activity	Number of Participant	PO Attainment		
1	Embedded Systems & Robotics organized by TechiNest Pvt.	National	56	PO1, PO2, PO3, PO5, PSO1		
2	Embedded & Robotics organized by SaK Robotics	National	66	PO1,PO2, PO3, PO5, PSO1		
3	Workshop on CCNA Networking	National	58	PO1,PO2, PO3, PO5		
4	Workshop on SPYBOT- Spy Robotic Workshop organized by TechiNest Pvt. Ltd	National	215	PO1, PO2, PO3, PO5, PSO1		



Self Assessment Report

5	Industrial Visit Genus Power Infrastructures Ltd	National	50	PO1,PO2, PO3, PO5
6	Industrial Visit Tesca Technologies Pvt. Ltd.,	National	27	PO1,PO2, PO3, PO5
7	Industrial Visit PHILIPS LIGHTING	National	510	PO1,PO2, PO3, PO5
0		National		PO1, PO2, PO3, PO5
8	Industrial Visit at BSNL		55	

Interactive sessions with industry experts are organized to increase understanding between students and industry requirements.

Year	Session name	Date of session	Conducted by
2017	 Domain Awareness About Embedded Systems Microcontrollers IOT Programming Boards 	(09/02/2017)	Mr. Chetan Prakash Aptron India, Noida
2016- 17	process of mobile communication 1	(29/07/2017 to 30/07/2017)	Mr. Atul Rajput , Huawei
2017- 18	Society and Control System	2017	Rajasthan Technical University, Kota Dr. Rajiv Gupta

Industrial visits are conducted for students so they can practically observe the environment and activities in Industries.



Self Assessment Report

	Jan 2018-June 2018 (Even Sem)					
S. No.	Name Of Company	Dates of Visit	Profile of Company	No. of Students	Outcome	
1	Tesca Technologies Pvt. Ltd.	17th January 2018	Electronics measurements	27 (3rd year)	 Single sourcing partner for all Educational solutions. Student Interaction with real application of Electronics Engineering. 	
2	Genus Power Infrastructures Ltd.,	15th February 2018	Electronics	50	 Student interacted with real application of Engineering especially in Smart Energy meters. 2) Student learned about various Techniques of Power Generation and Distribution. 	
3	Phillips Lightings	24th March 2018	Electronics	45	1) Students understood the mechanism behind the manufacturing of lighting systems.	
4	Talent Pool	24th March 2018	Telecom, IT	45	1) Students were imparted basic knowledge of telecom strategies.	

• Teams from JECRC participated in 2017 and 2018 SIH were guided by faculty member so they can perform better.

Year	No. of students participated	No. of teams
2016-17	18	3
2017-18	24	4

• Teams participated in JECRC hackathon 1.0 in 2018 were guided by faculty member(one mentor with each team)

Year	No. of students participated	No. of teams
2017	224	35

Extracurricular activity:

S.N0.	Activity/Event	Date
1	Blood Group check-up camp	11 Sep, 2017
2	Engineers Day	15 Sep, 2017
3	SwachhtaPakhwada	1 to 15 Sep,2017
4	Interactive Session with Dr. Kiran Seth	8 Sep 2017



Self Assessment Report

5	Rally on rivers Seminar	26 Sep,2017
6	OMEN gaming Championship	7 Oct,2017
7	Interactive session with Mr. Niko Philips	1 Nov, 2017
8	VandeMataram-Voice of Unity	8 Nov, 2017
9	National Girl Child Day Celebration,	24 Jan, 2018
10	Orphanage Children Interactive Program	12 Feb, 2018
11	Soch	12 Feb 2018
12	Renaissance 2018	25 to 28 March 2018
13	Seminar on Careers in Entertainment Industry	12 March 2018

Class Coordinator Responsibilities:

- Creating learning opportunities and motivating the student community.
- Providing guidance on academic, personal and career matters.
- Resolving academic issues of students.
- Tracking academic and extra-curricular performance of students.

Class coordinatorcollects all data of students from the Tutor guardian

No of students per class coordinator: around 60

No of students per tutor guide: around 30

S.No.	Year	No of Class	No. of Tutor Guide
		coordinator	
1	2015-16	12	
2	2016-17	12	
3	2017-18	12	24

Tutor Guardian responsibilities

- Meet the students periodically and monitor their performance and their activities
 Frequency of meeting once a month
- For IV year we have Mentor Mentee system for guiding students.



Self Assessment Report

The mentor is a model, a guide by the side, a motivator, a trainer and a counsellor to the student.

Mentoring is a process for the informal transmission of knowledge, social capital, and the psychosocial support. Mentoring entails informal communication, usually face-to-face and during a sustained period of time, between a person who is perceived to have greater relevant knowledge, wisdom, or experience (the mentor) and a person who is perceived to have less.

Mentor's Responsibilities:

- Take interest in developing student's career and well-being.
- Mentors keep track of their students' progress and achievements, setting milestones and acknowledging accomplishments.
- Monitor student's readiness for Personal Interview (including Resume, Dressing sense etc.)
- Evaluate Student Progress and Performance in Computer Based Tests. Keep record of his/her attendance in the preparatory classes and keep the department HOD informed.
- Encourage students for attending all the sessions for sure success.
- Informing students about the profile of companies coming for recruitment as per information obtained from placement department.
- Engage the Student beyond the Classroom especially for communication practices and emphasize the importance of communication for sure success.
- Keep the department / panel members informed, if any student is not taking his/her sessions seriously.
- Guide student for practical training and project presentation.
- Guide students for technical interview.
- Guide and Evaluate student for GD for companies requiring GD.
- Guide students for General Knowledge about Industries in their domain.
- Provide Ethical Guidance

No of Students per mentor: around 20

S.No.	Year	No. of Mentor
1	2015-16	12
2	2016-17	12
3	2017-18	12



S.No	Mentor Name	No. Of students allotted
1	Mr. Ashish Sharma	19
2	Mr. Vikas Sharma	19
3	Mr. Anil Jain	19
4	Ms. Preeti Barot	19
5	Mr. Ankur Gangwar	19
6	Mr. Rajesh Bathija	19
7	Mr. Naresh Kumar	19
8	Ms. Shivam Upadhyay	19
9	Mr. Devesh Gupta	19
10	Mr. Ashok Kumar	19
11	Mr. S S Manaktala	19
12	Ms. Neha Singh	19

Session 2017-18 Mentor List

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

Feedback collected for all courses: YES/NO; Specify the feedback collection process; Average Percentage of students who participate; Specify the feedback analysis process; Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers; Number of corrective actions taken.

Feedback collected for all courses: YES/NO;

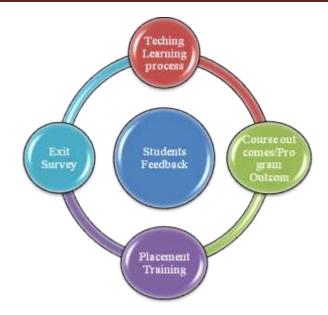
YES

Feedback Analysis Process

Students Feedback Process



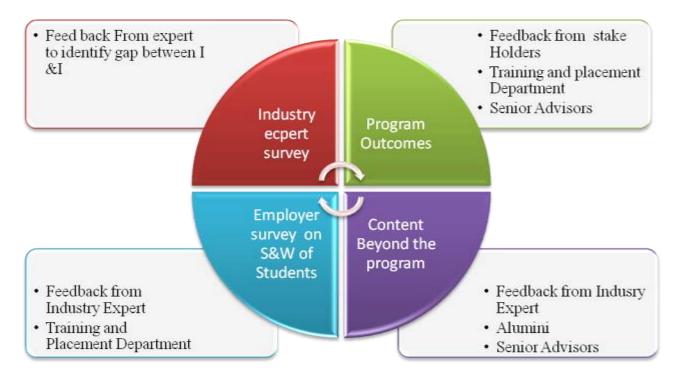
Self Assessment Report





Self Assessment Report

Stakeholder Feedback



- The Institute understands that the teaching-learning system followed by an educational institution must be constantly improved. To form this process of continuous improvement, the institution must adopt a feedback system that takes into account the suggestions of the students and the interested parties in each program. This finally helps to refine the teaching-learning process and the curriculum.
- The institution shall follow a well-defined and formal feedback system implemented at different levels
- Student comments on the teaching-learning process are also collected from students at class committee meetings.
- At the end of each semester, students must complete an end-of-semester survey. In this case, students will be asked questions that examine the effectiveness of the teaching-learning process to help the student achieve the respective results of the course through the Google form.
- Being an institution that moulds people to build technologies for the future, the Institute constantly insists on updating the students with the current knowledge and skills desired.
- > To do this, the institution must regularly gather opinions on the most demanding industrial skills, directly from industry personnel.
- Industry experts will be invited to stakeholder meetings organized by each department, and their views on emerging technologies will be taken periodically.



- Employer surveys should be conducted annually to gather information about the strengths and weaknesses of the students who enrolled in this Institute.
- The employer survey is a key element in determining the skills that students lack experience. The course delivery must be modified to address these gaps for future groups of students.
- Industry experts invite comments from Alumni to be another important component of the commenting system. The Institute has one of the strongest alumni networks. The alumni of the institution cover the whole world and are well connected to the institution thanks to alumni associations. The comments on this link, including individuals from all walks of life, have been essential to improve the quality of education over the years. Comments should be collected periodically from the alumni by appropriate means.
- Graduates should gather opinions to assess whether the institution has been able to impart the skills necessary to achieve the program's objectives. This survey should be used to identify the difficulties encountered by students during their course at the Institute.
- The meetings of the stakeholders of each department, and the views on the emerging technologies become a next will take.
- Departmental committees have Committees for Thematic Groups. Beyond the content, they select the Program that must be provided to the Students, based on the views of the Meetings Collected from the contradictory Interested Parties with the Industry Experts Surveys. Employers Must be done annually compile for information About Students Strengths Weaknesses recruited who are this Institute.
- The employer's investment is a key element in determining the skills with which experiments are experienced. The course entry is found throughout the space for future summaries for student groups.
- The institution aims to produce socially competent and socially competent individuals. Suggestions from members of the local community and social workers should be collected by the institution. To facilitate this, social workers and members of the local community will be invited to all stakeholder meetings. Your views should be used to shape the program.
- For the general improvement of a student's character, the Institute must take into account the reactions of parents and guardians. These will meet at Teacher Parents meetings and stakeholder meetings. The stakeholder meeting should be convened once a year at the departmental level to solicit the views of interested parties on various aspects of the program.

Name of Feedback	Feedback received	Feedback discarded	Valid responses	Action
Vision	1825	255	1570	
Mission	1899	303	1596	
PEO	1782	213	1569	Analysis of feedback send to IQAC
Course Exit	1232	184	1048	i Qrie
Program Exit	202	20	182	



culty Feedback 1089 152 937	9 937	152	1089	Faculty Feedback
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Student evaluation and feedback

At the end of each semester, students must complete an end-of-semester survey. In thiscase, students will be asked questions that examine the effectiveness of the teaching-learning process to help the student achieve the respective results of the course through the Google form.

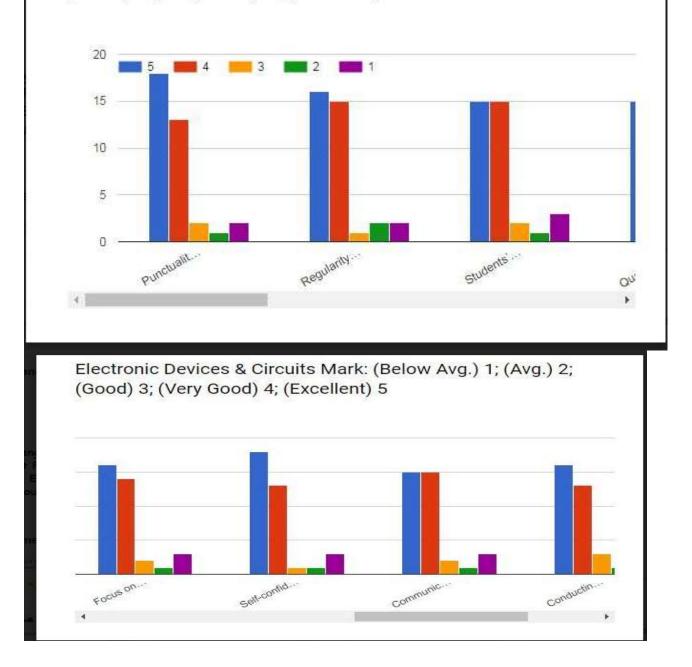
This questionnaire has been designed by the quality of teaching-learning environme	JECRC to seek a feedback from the students to strengthen ent.
* Required	
1. Name of the Department *	
2. Semester *	
3. Section *	
Note: This questionnaire has been design strengthen the guality of teaching-learning	ed by JECRC to seek a feedback from the ECE students to
	g environment. :: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4;
4. Electronic Devices & Circuits Mark (Excellent) 5 *	g environment.
4. Electronic Devices & Circuits Mark (Excellent) 5 * Mark only one oval per row. Punctuality in the Class Regularity in taking Classes Students' attendance/ presence in	g environment. :: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4;
4. Electronic Devices & Circuits Mark (Excellent) 5 * Mark only one oval per row. Punctuality in the Class Regularity in taking Classes	g environment. :: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4;
4. Electronic Devices & Circuits Mark (Excellent) 5 * Mark only one oval per row. Punctuality in the Class Regularity in taking Classes Students' attendance/ presence in the class of teacher who is being evaluated Quality of lectures	g environment. :: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4;
4. Electronic Devices & Circuits Mark (Excellent) 5 * Mark only one oval per row. Punctuality in the Class Regularity in taking Classes Students' attendance/ presence in the class of teacher who is being evaluated Quality of lectures	g environment. :: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4;
Electronic Devices & Circuits Mark (Excellent) 5 * Mark only one oval per row. Punctuality in the Class Regularity in taking Classes Students' attendance/ presence in the class of teacher who is being evaluated Quality of lectures	g environment. :: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4;
4. Electronic Devices & Circuits Mark (Excellent) 5 * Mark only one oval per row. Punctuality in the Class Regularity in taking Classes Students' attendance/ presence in the class of teacher who is being evaluated Quality of fectures Docus on Syllabus If-confidence	g environment. :: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4;

5. Name of Subject Teacher *



Self Assessment Report







Self Assessment Report

Corrective measures:

Institute has IQAC (internal quality assurance committee) which evaluate and analysis feedbacks and take corrective actions. These are action taken by IQAC:

Followings are the team member of IQAC for CAYm1(2017-18)

S.NO.	Name	Designation	Responsibilities
1	Dr. Lokesh Bansal	Professor	Chair
2.	Ms. Vinita Mathur	Assistant Professor	Member
3.	Mr. S. S. Manakatala	Assistant Professor	Member
4.	Mr. Rajesh Bathija	Assistant Professor	Member
	Mr. Anil Jain	Assistant Professor	Member

Jaipur Engineering College & Research Centre

From : HOD-ECE To: All Faculty Members of ECE Department Reference No. JECRC/ECE/Notice/Odd/2017-18/01 17/07/2017 NOTICE The following Internal Quality Assurance Committee (IQAC) has been reformed for quality improvement of the department. FACULTY NAME QUALIFICATION DESIGNATION ROLE S. NO Ph.D Convener Dr. Lokesh Kr. Bansal Professor 1 Ms. Vinita Mathur M.Tech. Assistant Professor Member Mr. S. S. Manakatala Assistant Professor Member M.Tech. Mr. Rajesh Bathija M.Tech. Associate Professor Member Member M.Tech. Assistant Professor Mr. Anil Jain Copy to: · Concern faculty members · Principal Office for kind information Dr. Lokesh Kr. Bansa HoD-ECE



Self Assessment Report

<u>Following are the findings during Academic Audit Process by IQAC team in CAYm1</u> (2016-17): AUDIT: 01

- Corrections and modifications (in Dates) are required in departmental academic calendar.
- Require to provide TUT to the students.
- Formatting of few course files is needed.
- For the understanding of subjects, project based learning is needed.
- The quality of the question paper should be improved.
- Motivation in faculty members, towards the research activity is needed.
- For the overall development of the student, Mentoring and Career Development Counseling was needed.

AUDIT: 02

- For the overall development of student some technical events are needed.
- More emphasis is required towards the industry based knowledge.
- Improvement in soft skills of student is required.
- Required motivation in student towards the new research activity and publications.
- More emphasis is given to the performance of weak students.

Sr. No ·	Description of Activity		
Tea	ching & Learning		
2	Academic Instruction	 In departmental academic calendar correction in few dates are done and some technical activities are added. <i>Format of course file is modified.</i> TUTs are given to the students. 	• Teaching quality is improved.
3	Modes of teaching	• <i>Interactive lecture methods</i> such as Video lectures, Power point presentations, Industrial visits, are adopted by the faculty members.	

Table 9.2.Action Taken and Improvement



4	Project based learning	 Students are motivated to execute small projects which they <i>exhibit during proj ect expos, technical contests</i> etc. Some <i>previous year projects</i> are given to the second year students to rebuilt them and bring best in west projects. An <i>event Reverse Engineering</i> is conducted to motivate students towards the project making. 	 During the current assessment year 57 projects were made. Our student Mr. Jatin made robotics based project and WON in <i>IIT Mumbai</i>.
Eva	luation & Result	5	
5	Question Papers	• <i>Moderation and scrutinizing</i> <i>Committee</i> ensures the quality of Internal Mid-Semester Examination paper-setting, their solutions and to scrutinize the answer sheets.	• During the CAY our one student is secured rank in RTU merit list.
6	End semester examination and academic results	• <i>Two internal exams</i> and <i>end semester</i> examinations are conducted.	
7	Assignments & Class test Methodology	 To assess students' knowledge of engineering practices, framework, and problem solving abilities various tests are taken Class Tests are taken after every unit completion Assignment based on COs is given to the students after completion of each unit for each subject Assignments questions are chosen from previous years university papers Performance based Assignments are also given to the students Open Book Test are also taken. 	
8	Evaluation	 Answer Sheets are <i>scrutinized</i> <i>Transparency</i> in Evaluation 	
Facı	ılty improvemen	t	1



10	Faculty Participation in Seminars / Workshops/ FDPs	• Faculty members are encouraged to attend Seminars/ Workshops/ FDPs conducted by various institutions.	• During the assessment year our 05 faculty members are attended FDP.
11	Publications	 Faculty members are encouraged for Publishing research papers in journals and articles in conference proceedings. <i>Financial support from management</i> is extended to encourage research activities among faculty members. For the same <i>on duty leave</i> is also provided. 	• During the assessment year total <i>Publications are 40</i> .
Stud	lents Developmen	it	
13	Skill development o f students	 The emphasis is given for Education based on <i>the industry requirement</i>. The various <i>technical events</i> are conducted. 	• During the assessment year department conducted <i>11 technical events</i> .
Stuc	lent activities/ su		
15	Mentoring	• Student mentoring system at department level focuses on all issues related to stay and growth of the individual student.	• During the current assessment year 17 faculty members were Mentor and 12 faculty members were class coordinator.
16	Career Development	 The placement cell organizes seminars on <i>Higher education opportunities</i> and conducts aptitude training. Government Cell . 	 In the current assessment year various 01 industrial training, Industrial visits, Workshops, Seminars were conducted for the improvement. Total 111 number of students got placed in different companies. 09 students qualified GATE Examination. For the improvement in communication skills



			 FACE classes were conducted. Various Mocks related to aptitude, group discursion ,personal interviews were taken.
17	Alumni Support •	<i>Alumni meets</i> / get together are organized once in a year. Alumni are invited <i>to interact and inspi</i> <i>re the students</i> , to help in developing th e curriculum, to give expert lectures in their field of specialization	• Industrial interaction is improved.
Stu	dent Feedback		
18	Students Feedback	 Feedback system is used to evaluate the <i>performance of the faculty</i>. It is ensured that the feedback from student is acted upon, and recommendations are applied to enhance teaching quality. 	• With this faculty members <i>improve their skills</i> set.



JEERL Mail	HoD ECE <hod.ece@jecrc.a< th=""></hod.ece@jecrc.a<>
Advise to improve teaching metho	odology.
HoD ECE <hod.ece@jecrc.ac.in> To: Deepika Bansal <deepikabansal.it@jecrc.ac.in Cc: HoD IT <hod.it@jecrc.ac.in></hod.it@jecrc.ac.in></deepikabansal.it@jecrc.ac.in </hod.ece@jecrc.ac.in>	> Thu, Sep 14, 2017 at 1:1
Dear Ms. Deepika Bansal,	
	's feedback of DSA (3EC2) for ECE 2 nd Year is ve some problems to understand this subject.
Now, you are advised to change yo their concepts in this subject.	our teaching methodology so that students can built
 With Regards	
Dr. Lokesh Kr. Bansal Professor & Head Department of Electronics & Communication Engg. JAIPUR ENGINEERING COLLEGE AND RESEARC (An Institution of the JECRC Foundation)	CH CENTRE
Add: Shri Ram ki Nangal, via Sitapura RIICO, Tonk	Road, Jaipur,

Feedback given by	Feedback on Entity	Nature of feedback	Action taken
Student	infrastructure	Water cooler Maintenance	Repairing done
Student	Faculty/Course	Course coverage	Extra Classes taken
Student	Faculty	Teaching skills	Advisory/Appreciation
			Given
Student	Course	Topic of course	FDPs
Student	New skills	New technology required	FDPs, Conferences
Student	Course	Beyond Syllabus should be	Expert



		covered	Lectures/seminar
Student	Technical Events	Technical Events proposed	Technical Event
			conducted
Student	Labs	Practical Required	Workshops

For students and faculty FDP and National and International Conferences was conducted

2017-18	2016-2017
"Embedded Systems (ICT51) 19/03/2018 to 23/03/2018.	
FDP on Effective Mentoring Skills-11-13 July 2017	

Table 9.2a:FDP

> National and International Conferences

- Conferences are the great way to learn about research and development going on in respective fields which inspired many students to publish their own research.
- It is also a great starting point for those students who want to pursue their career in research fields.

National and International Conferences Details

S.	Topics	No.	No. of	Remarks
No		of	students	
		Fac	attended	
		ulty		
		Me		
		mbe		
		rs		
1	"Recent	43	11	• To aware research scholars, students and faculty
	Technological Developments in			members about the recent developments in the field



Self Assessment Report

Electronics and	of Electronics Engineering, Communication
Electrical	Systems, Power System, Control Engineering,
Engineering-2018	Neural Networks and Electrical Engineering etc
(RTDEEE-2018)"	.held on April 6-7, 2018
2 "Recent Advancements in Science and Technology-2018 (RAST-2018)"	Two days national conference recent trend in Electronics and communication .held on March 27-28, 2018, , 2018 at JECRC Jaipur.

• Teams participated in JECRC hackathon 1.0 in 2018 were guided by faculty member(one mentor with each team)

Year	No. of students participated	No. of teams
2017	224	35

					JECRCHACKA	THON1.0						
		w		ENTRIES FOR	JECRCHACKAT	HON: Depart	ment Of ECE	la se	v			
S.N0	Reg.	TEAM	TEAM	TEAM LEADER	DEPARTMENT	SEMESTER	TL	TL EMAIL	MENTOR	PROBLEM		
	5		Cheshta Agrawal	1	ECE	3						
	JH/EC/01/2017		MEGHA SHARMA		ECE	3	7742208664					
	110		GARIMA AGARWAL	Charles Amount	ECE	3		cheshtagrawal05	Anil Jain			
•	<u>S</u>			Cheshta Agrawal	ECE	3		@gmail.com	Anit Jan			
	H				ECE	3						
	H				ECE	3						
	4		Aman Khandelwal	1	ECE	3	20 - C		e			
	201		Anubhav Khandelwal		ECE	3						
2	JH/EC/02/2017	JECRCians	Mudit Khandelwal	Aman Khandelwal	ECE	1	9887027414	akshataman914@		JECRC Host		
			Yashika Mittal		Aman Khanoeiwai	ECE	3	308/02/414	gmail.com	Ritu Vyas	Attendance	
	E/E		Vinay		CSE	1						
	H.		Vratika Porwal		ECE	3						
	4		DEEKSHA JAIN	1	ECE	3						
	201		AKSHITA AGARWAL]	ECE	3		JAINDEEKSHA	PRAVIN			
	03/		MOHINI SWAMI	DEEKSHA JAIN	ECE	1	9587268724					
2	JH/EC/03/2017		SHUBHAM JAIN	DEENSIA JAIN	ECE	3	9381208124	09061999@GA	1.000			
	H		VEDANT]	CSE	1		MIL.COM	SHARMA			
	F			1	ECE	3						



Self Assessment Report

> Technical Workshops/Activities

- We conduct a lot of technical events which are competitive. Not only it results in bigger number of participants but they can also learn a lot more.
- These events bring out the competitiveness in our students which is going to be useful in real world. Due to this, our students were motivated enough to participate in events launched by big organization Such as NASA.
- Our students also participate in techno culture festivals such robotic festivals, see Olympiad etc.

		6	1	-
2	FFR			÷ 🚱 🗄
	R ENGINEERING		- ² .	ELECTRONICA
Jai	pur Engin	eering Col	lege & I	Research Centre
Dep	artment of I	Electronics &	Commun	ication Engineering
10	2.4	ELECTH	RONIC	CA
- -	() () () () () () () () () ()	e 7		C. Kase
· REF. N	a JECRC/FCF/F	LECTRONICA/17-1	8/01	1 st August, 2017
	STREET, SCHOOL ST	LOCTRONICA/17-1	0/01	1 August, 2017
design	nations of the so	ciety for the acade	mic year 201	250X25
1	Ms. Shweta	Faculty In-charge	CONTACT 9928011555	EMAIL ID shwetasharda.eco@jecrc.ac.in
	Sharda	10000000000000000000000000000000000000		differential di cessagerte actin
1 .	Islun Jain	President	7791974220	isha95jain@gmail.com
2	Arpit Singhal	Vice President	8426040666	arpitsinghal.ece19@jecrc.ac.in
3	Ajay Agarwal	Secretary	7727989894	ajayagarwal.ece19@jecrc.ac.in
4	Ashish Agarwal	Treasurer	8560813164	ashishagarwal.ece19@jeere.ac.
		and another and a second state		
advand Dr. Lol	cement in the co kesk Kr. Bansal ECE)	ming year.	the field of	technical and all-round



Self Assessment Report

Sr.No.	Department Activity	Level of Activity	Number of Participant	PO Attainment
	Technical Events		F ====	
				PO2, PO3,
1	Game of Drones	National	42	PO9, PSO1
2	Quizolic	National	98	PO2, PO3, PO9
3	Techinobuzz	National	58	PO2, PO3, PO9
4	Renovator	National	30	PO2, PO3, PO9
				PO2, PO3,
5	Robowar	National	35	PO9, PSO1
				PO2, PO3,
6	Line follower	National	28	PO9, PSO1
_			10	PO2, PO3,
7	Formula Zero	National	40	PO9, PSO1
0			21	PO2, PO3,
8	Rob soccer	National	31	PO9, PSO1
9	Technical Hack	National	30	PO2, PO3, PO9
10	Tech Tambola	National	45	PO2, PO3, PO9
11	Phoenix	National	28	PO2, PO3,PO9
12	Sumowar	National	20	PO2, PO3, PO9
				PO2, PO3,
13	TEDX	International	13	PO9,PO10
				PO2, PO3,
14	MUN	National	14	PO9,PO10
				PO2, PO3,
15	HEAKTHON	National	105	PO9,PO5

Technical Events Table:

Department Activities during CAY(2017-18)

Reward for Faculty in the form of Appraisal Jaipur Engineering College and Research Centre, Jaipur

FACULTY APPRAISAL FORM (Session 2016-2017)

For best faculty award

Total 200 points

	Name of Faculty Member:	Designation:	Department:		
S. N 0.		Item Name	Ma mu Po	um	Points obtained
1	Academic result 30 points average (90% students having more than 70% result: 27 po points, 60-69% students having more than 7	pints, 70-79% students having	more than 70% result: 24 3	60	



Self Assessment Report

	Example:			
	Theory Subject Po	oints obtained		
	Sub-1	30		
	Sub-2	27		
	Sub-3	0		
	Sub-4	18		
	Average points scored	75/4 i.e. 18.75		
	No marks for Labs subjects			
2	Research Publication 20 points average (1 sci indexed publication: 10 points ISSN number : 5 points, Else ZERO)		20	
3	Faculty development programme 10 point average (one faculty development 5 days attended 5 points, 2 points for attending 2 days workshop, subject to m	aximum of 10)	10	
4	International / National conference 10 points average (5 points for attending for attending National of repute, 2 points for National conference)	International, 3 points	10	
5	Research grant average 20 points for having grant of more than 5 lakh, if on DST/other govt agency: 10 points, subject to maximum 20	ly project submitted to	20	
6	Patent 10 points		10	
7	Product development / startup 10 points		10	
8	Course material prepared for Govt job cell 15		15	
9	Innovation in teaching learning, video lecture, online MOOCs, Online notes u points	ploading, any other 20	20	
10	Technical activity organized 5 points		5	
1	Participation in social responsibility 5 points / activity subject to maximum of	10	10	
2	Institute level activity organized 5 points, participation 2 points subject to max	ximum of 5	5	
3	Any award received, session chair in conference, guest lecture, invited talk, et	tc. 5 points	5	
4	HOD recommendation maximum 30 points (Departmental responsibility 2 activity 5)	2 points, NBA related	30	
		Total	200	

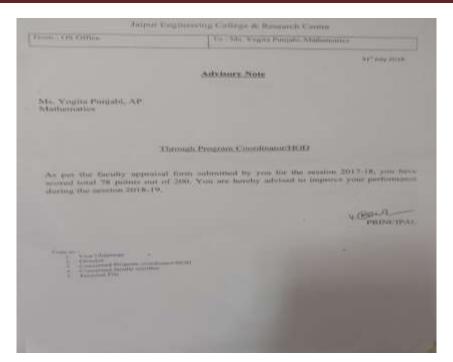
Note: HOD will verify the documentary proof. Signature of Faculty

Signature of HOD

Based on the Above API report faculty members are given appreciation/advisory format for same is mentioned below



Self Assessment Report



Advisory note

API	RECIATION LETTER
Mr. Deepak Shankhala Assistant Professor	
	Prourant Coordinator/HOD
As per the faculty appraisal form su satisfactory. You have scored total 1 and hope that you will continue to in	binitted by you for the session 2017-18 has been found 103.5 points out of 200. College appreciates your effort aprove.
	N. Our PRINCIPAL

Appreciation letter



Self Assessment Report

<u>Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers</u>

- Students Attendance Report
- MTT Results
- University Results
- Final Passing Percentages
- Placement Record
- Student's performance in National and International conferences
- Student's performance in Technical Workshops
- Student's participation in Intra and Inter college competitions
- Co-curricular and Extra-curricular activities.

Number of corrective actions taken

> Pre Placement Training/ Extra Technical Classes

Year	Name of event	Object of event	No. of students participated	Date of event
2017-18	Pre placement training program by Face	Bridging gap between academics & Industry	219	20-7-2018 onwards

Company Based Placement Training.

Sr.No.	Department Activity	Level of Activity	Number of Participant	PO Attainment
	Embedded Systems &			PO1, PO2, PO3,
	Robotics organized by	National		PO5,
1	TechiNest Pvt.		56	PSO1
	Embedded & Robotics			PO1,PO2, PO3,
	organized by SaK	National		PO5, PSO1
2	Robotics		66	
				PO1,PO2, PO3,
	Workshop on CCNA	National		PO5
3	Networking		58	

MOU's was done with industries to emphasize on

- (a) Internship
- (b) Project Workshop for Students



Self Assessment Report

- (c) Industrial Visits
- (d) Students specific Training

S. No.	Table 23: Details of Company Name	Date
Ι.	Forsk Technologies	2-Nov-2017
	Storsk Netword Total Landre Tonortow	
2.	RedHat Technologies	7-Nov-2017
	🧠 redhat	
3	Infosys Campus Connect	12-May-2017
4	CADD Centre	30-Oct-2017
	CARDER Driving Digital Designs!	
5	Wadhwani Foundation	13-Oct-2017
6	SakRobotix Lab	27-Apr-2017
	SakRobotix Lab	
7	Salesforce Technologies Ltd.	17-Jan-2018
	salesforce	
8	Indo Vision Services Pvt. Ltd.	22-Mar-2017
	IndoVISION	
)	"We work for your smile"	M 2019
)	Cyber Security	May-2018
10	TechieNest Pvt.Ltd.	Oct-2018



Self Assessment Report

Sample of MoUs





Self Assessment Report

9.3 Feedback on facilities

(Assessment is based on student feedback collection, Analysis and then Corrective Action Taken)

9.3 Feedback on facilities

S.	Facility	How feedback is taken	Type of Record	Action Taken
<u>No.</u> 1	Hostel	Entry in the register / discussion with warden	About Stay in the hostel	Sharing of room changed from 4 to 3
	Sh P. K. Gupta (CAO /Chief warden)	/ written application / Grievance cell	About Food	Student committee and warden
			About Timing	Boys and girls timings are fixed but on demand as per requirement permission is provided.
			Maintenance	Entry in register and corrective action
			Medical Exigency	Ambulance register
2	Transport	Written application	Route	Recorded with bus in charge
	Sh. Ravi Bhatnagar (Bus	with Bus In charge	Fees	and appropriate action is
	Incharge)		Flexibility /	taken
			Maintenance of	
3	Library	Departments are taking	buses Timing	Appropriate action taken by
5	Library	feedback related to	Books	Library incharge
	Dr. Anita Jain (Chief	library and thus	Publication	
	Librarian) submitted to librarian		E-books	-
	,		Swayam	-
4	Sports	Feedback taken by	Ground	Sports incharge takes
	Dr. Rajesh Sharma (Sports Incharge)	sports incharge	Participation	appropriation decision
5	Over all maintenance	Feedback from Block Incharges	About maintenance & Safety	
	Sh. Yogendra Sharma			
6	Security Sh. P. K. Tiwari	Over all security	Meetings every month	Feedback in the meeting
7	Medical Facility	CAO is responsible	Files maintained	Medical OPD First aid

Course Feedback:

- Meeting arrange by all Class Coordinator with the student.
- All issue regarding course or syllabus are discuss (Within 15 days)
- A feedback form share with student.
- All Data are collected.



Sample of Feedback form by the Departments

1. Course feedback form

Feedback Form (2017-2018)

This questionnaire has been designed by JECRC to seek a feedback from the students to strengthen the quality of teaching-learning environment.

* Required

1. Name of the Department *

2. Semester *

3. Section *

Note: This questionnaire has been designed by JECRC to seek a feedback from the ECE students to strengthen the quality of teaching-learning environment.

 Electronic Devices & Circuits Mark: (Below Avg.) 1; (Avg.) 2; (Good) 3; (Very Good) 4; (Excellent) 5 *

Mark only one oval per row.

5 4 3 2 1
asses ()()()()()
ho is being
$\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc$
JEERL

3. Program Exit Form



2.

Self Assessment Report

0/4/2018

Program exit survey

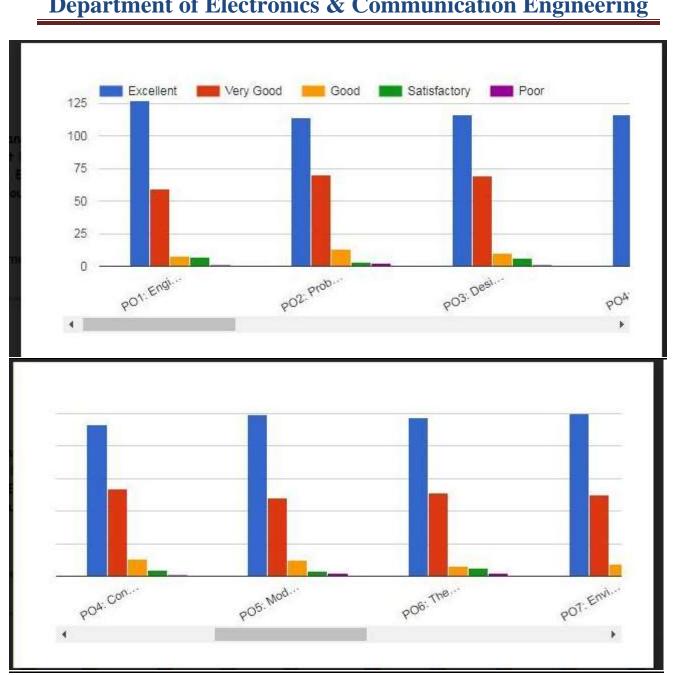
Program exit survey

Jaipur Engineering College and Research Centre

AZ		ias ario coi	MULTICKARDON	
1. Student Name *				 -
2. University roll number *				
3. Percentage till VII semest	or "			
4. Contact Number *				
5. E-mail ID *				
6. Father's Name *				
7. Father's Contact number *				
 Have you got placement? * Mark only one oval. 				
	question in this	section, skip	o question 17.	



Self Assessment Report



Lab Feedback:



Self Assessment Report

- Meeting arrange by all Class Coordinator with the student.
- Meeting arranges By HoD with the Lab In charge.
- All issue regarding Lab discuss Like Maintains , requirement and set up of lab (Within 30days)
- A feedback regarding lab also taken.
- All Data are collected.

Sample of Feedback form by the Departments

QUESTIONS

RESPONSES

Lab feedback form (Electronics and communication)

your overall standing in the course

your overall standing in the course

>90%

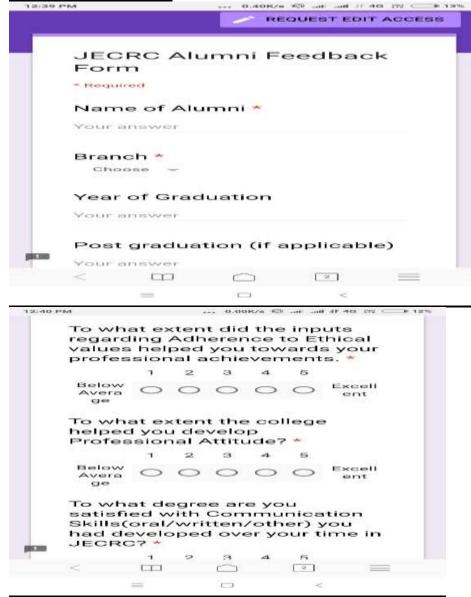
85-89%

- 60-74%
- <60%
- 🔿 Other...



Self Assessment Report

Alumni Feedback form





Self Assessment Report

12:41 PM		0.31K/s 1	28-16-10- 40- 40	1 271 - 12%				
200 YA 8	What was your position in the Team?							
0	O Team Leader/ Manager							
0	Team Memb	er						
0	Other							
co du ye	ave you take ourses (mini iration) sinc s,Specify ur answer	imum 6	months					
im	ny additiona provement ur answer			2.2				
	SUBMIT	ds through G	loogle Forms.					
<		\bigcirc	2	=				
	=		<					

Hostel feedback:

- We have system in which faculty stay and visit hostel. Faculty discuss about various services and facilities provided in hostel
- Feedbacks given by students are subject to discuss with the hostel wardens or in-charges resp.

Cleanliness feedback:

Soch Initiative (Soch –Coordinator) SWACH<u>CHH JECRC</u>

SOCH-KUCHH KAR DIKHAANE KI, keeping this motto in mind, the <u>Team Soch</u> of JECRC stepped an extra mile to realize the dream project of the H'ble Prime Minister Sh. Narendra Modi, **Swachchh Bharat Abhiyan**, by launching an innovative digitally enabled campaign **SWACHCHH JECRC**. This campaign was aimed to contributing to the society in terms of cleaning the JECRC campus through the QR code. This campaign changed the whole idea of cleanliness. Never did anyone think that cleanliness could be monitored digitally.

In this campaign, a special QR code was designed by the technically advanced students of JECRC and put on the posters, dustbins, all over the campus, to expedite the cleanliness drive, which could be accessed through any smartphone, prompting to fill a google form for complaining against any negligence in cleanliness or giving any suggestions regarding the misplacement of the dustbins, areas not cleaned etc for example.

The following link can be used for filling the form:



Self Assessment Report

https://goo.gl/EAnOqd

For any trash, smeared environment, a complaint can be filed by scanning the QR code. By scanning the QR code, a dialog box pops up on the screen which leads us directly to the complaint form. The data filled in the form reaches our supervisors and a response is given within 24 hours.

We get about 10 to 20 number of complaints every day and making it a count of 375 till date which is really astonishing.

In this changing era of digitalization, this innovative SWACCH JECRC campaign has done a great work.

- 15 days celebration took place as "SwacchataPakhwada" in JECRC, students were participated in this activity, checked for clean campus.
- Students as well as faculties were involved to clean the campus and program continued • for 15 days.

Corrective action taken regarding feedback:-

Course feedback corrective action:

- All data which collected by feedback is discuss to HOD by Class Coordinator like • course coverage, course learning, content delivery etc.
- HOD assigns a faculty for collected Course Coverage.
- Discuss with subject faculty regarding Strategy for coverage of remaining units.

Lab Feedback corrective action:

- HOD discuses all feedback with Departmental lab In charge.
- Departmental Lab in charge collected all lab status and requirement with budget.
- All data are mention in Lab maintain File. •

	DEPART. ELECTRONICS & COMMUNICATION								
	LAB MAINTANCE SHEET								
		SESS	SION 2016-17						
S.NO.	TRAINER KIT	MAKE & MODEL NO.	FAULT	REPAIRING DATE	STATUS	REMARKS			
1	UJT Characteristics	Scientech,PE-01	Reading not coming	6/23/2016	ok	Pot replaced			
2	BJT Amp.& Emitter follower	Scientech,NV- 6542	O/p Not Coming	6/24/2016	ok	Dry Soldering			
3	MOSFET characteristics	Scientech,NV- 6541	Reading was not correct	6/25/2016	ok	resistance Connected			



4	FET Amp. Trainer	Scientech,NV- 6521	O/p Not Coming	8/12/2016	ok	FET Changed
5	Power Supply(+12v,- 12v,5v)	Scientech	Supply not coming	10/27/2016	ok	repaired
6	Patch cord 4mm		10 leads broken	12/24/2016	ok	Soldered

LAB INCHARGE

LAB INSTRUCTOR

Mr. Lokesh Sharma All data are mention in Lab maintance File Mr. Amit Jain

1	HOD	All CC
2	ТРО	All Mentor
3	CC	All Student
4	Lab in charge	All Lab technician
5	Mentor	All student
6	CAO	Block in charge
		Departmental in charge



						Lab in cl	harge list			
	Odd Semester Labs						-	Even S	emester Labs	
Sr. No	Name of Lab	Code	Venue	Lab Incharge	Name of Technician	Name of Lab	Code	Venue	Name of Faculty Member	Name of Technician
1	Electronics Devices Lab	3EC4 -21	BF-14	Mr. Deepak Shankhala	Mr. Hemant Vaishistha	Analog Circuit Lab	4EC4-22	BF-14	Mr. Mangi Lal	Mr. Hemant Vashisht
2	Digital System Design Lab	3EC4 -22	BS-04	Ms. Ritu Vyas	Mr. Rajesh Yogi	Micro Controller Lab	4EC4-23	BS-04	Mr. Vikash Mishra	Mr. Rajesh Yogi
3	Signal Processing Lab	3EC4 -23	BS-13 (CP-14)	Mr. Rajkumar Jain	Mr. Prem Chand Sharma	RF Simulation Lab	6EC9A	BS-14 (CP-15)	Mr. Sandeep dotya	Ms. Premchand Sharma
4	Electronic Engg. Design lab	5EC7 A	BG-04	Mr. Rakesh Kardam	Mr. Babulal sharma	Analog & Digital Communication Lab	4EC4-21	BG-04	Mr.Ashok Kherodia	Mr. Babulal Sharma
5	Communication Lab I	5EC9 A	BG-16	Mr. Ashish Kulshrestra	Mr. Gaurav Goyal	Communication Lab II	6EC7A	BG-16	Ms. Shweta Sharda	Mr. Gaurav Goyal
8	Signal Processing Lab	5EC1 0A	BG- 09(CP- 12)	Ms. Neha Singh	Mr. Rajender Sirowa	VLSI Lab	8EC7A	CP-12	Ms. Shivam Upadhyay	Mr. Rajender Sirowa
9	Signal & Image Processing Lab	7EC7 A	BS-13 (CP-14)	Ms. Preeti Barot	Mr. Prem Chand Sharma	RF Fabrication Lab	8EC5A	BS-13 (CP-14)		Mr. Premchand Sharma
10	Wireless Comm. Lab	7EC8 A	BG-01	Ms. Aapurva Kaul	Mr. Harish kumar	Optical Fiber Lab	8EC7A	BG-01	Mr. ankur Gangwal	Mr. Harish kumar
11	Project Lab-I	7EC1 0A	BS-15	Mr. Rajesh Kumar Bathija	Mr. Sitaram Saini	Project Lab II	8EC8A	BS-15	Mr. Rajesh Kumar Bathija	Mr. Sitaram Saini
12	Computer Programming Lab	3EC3 -24	BS-14 (CP-15)	Mr. Arihant Jain	Mr. Prem Chand	Microprocessor Lab	6EC8A	BG-15	Mr. Venimadhav	Ms. Vaishali Yadav
13	Microwave Engg. Lab	5EC8 A	DS-08	Ms. Teena Sharma	Mr. Rakesh	Electronics Measurement & Instrumentation Lab	4EC4-24	BG-06	Ms. Deepmala	Mr. Amit Jain
14						Industrial Electronics Lab	6EC10A	BLG- 105	Mr. Bhoopesh	Mr. Suresh Gurjar





Jaipur Engineering College and Research Centre Department of Electronics & Communication

Date/Day: Thursday	Time: 11:30 pm to 12:15 pm	Location: Antenna Lab, Block-B, Department of Electronics & Communication, JECRC
Speaker: CC	Speaker's Designation:	Attended by: All student
	Minutes of Meeting	

Agenda of Meeting:

To discuss the departmental facility

Attendees:

Meeting started with the welcome of CC by all students. Following were the points of meeting:-

S.No.	Points
1	CC interacted with all student
2	discuses all departmental facility
2.	All students gave different idea regarding the topic.
3.	The few common points came out fill up the feed back

The meeting ended up with the thanks of Chair and next round of meeting would be held

with pre notice,



Self Assessment Report



Jaipur Engineering College and Research Centre Department of Electronics & Communication Minutes of Meeting

Date/Day: 11/12/2014,	Time: 11:30 pm to 12:15 pm	Location: Antenna Lab, Block-B,
Thursday		Department of Electronics &
		Communication, JECRC
Speaker:	Speaker's Designation: HOD,	Attended by: All CC ECE faculty
_	ECE Department	members

Agenda of Meeting:

To discuss the regarding course converge

Attendees:

Meeting started with the welcome of HOD, ECE by all ECE faculties. Following were the points

S.No.	Points
1	HOD interacted with departmental faculty regarding course converge of the subject .
2	All faculties gave different idea regarding the topic.
2.	The few common points came out like Fill up Feedback regarding course converge
3.	Some faculties were assigned to design the feedback form according to their thoughts and they were told to inform students also for this work and can take their views as well.

of meeting:-

The meeting ended up with the thanks of Chair and next round of meeting would be held with pre notice, meanwhile those faculties who have given assignment were ask to meet HOD after two days.



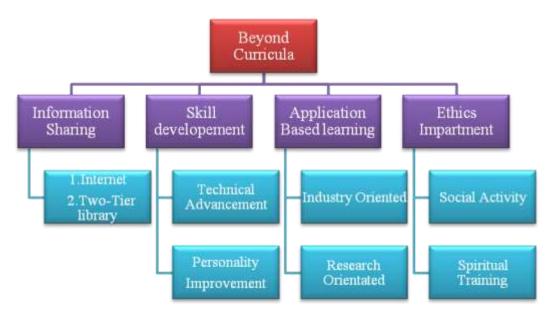
Self Assessment Report

9.4. <u>Self-Learning (5)</u>

(The institution needs to specify the facilities, materials and scope for self-learning / learning beyond syllabus, Webinars, Podcast, MOOCs etc. and evaluate their effectiveness)

Self-Learning

For self-learning or learning beyond syllabus during the semesters we provide information sharing material and organize different types of activities like workshop, training, conferences, club activities, quiz etc. For these activities academic calendar has sufficient provisions and HOD is authorized to change in schedule with permission of respective authorities.



Availability of Facility, Materials and Scope for Learning beyond Syllabus

S.No.	Activities	Beneficiary	Details
1.	2-tier Library System	Faculties & Students	The institute has the effective 2-tier Library System both at Institute and the Departmental level
2	Availability of Internet facility in All labs.	Faculties & Students	The project lab is equipped with internet facility and at any time internet can be made available in all the labs.
3	GATE Classes	VIIsem students	Lectures on specific topics are delivered for the students of final year as part of GATE Preparation and online exam for updation of Academic preparation.



4	Moocs like Swayam	Faculties &	SWAYAM is a programme initiated by
	Wiobes like Swayam	Students	Government of India, the objective of this effort is
			to take the best teaching learning resources to all.
5	Webinars	Faculties &	Webinars are opportunity for professional
		Students	development of students and faculty provided on
			specific topic.
6	Personality	VII	Creativity, lateral thinking and communication /
	Development		people management skills are essential
	lectures		Components for progress in any sphere. Students
			are encouraged to develop these
			through goal setting exercises, group
			discussions, mock interviews and
			Presentations.
7	Face classes	VII	Special classes conduct to improve Aptitude,
			Reasoning (Verbal and nonverbal), Soft skill and
0	T 1 . 1 1 1	****	communication of students for placement purpose.
8	Industrial visit	V,VI	To bridge the gap between Industry and academia,
			various modules are covered.
9	Training program	All students	To enhance knowledge and develop technical skill.
	/Workshop/Seminars		
10	Technical Events	All students	To enhance the technical knowledge.
11	International	Faculties &	For sharing new ideas and innovation common
	/national	Students	platform is provided.
	Conferences		
12	FDP's	Faculty &	Development of faculties.
		Technical	
		staff	
13	Social activities:	All Students	All round development essentially means
	(A)Zarurat		intellectual, physical, moral, sensible and social
	(B) Soch		development.
	(C) AASHAYEI		
	N		
	(D) Suhasini		
14	Spiritual Training	Faculties &	For help in increasing mental capacity to focus
		Students	better

Information Sharing:

Internet and two-tier library are the two information sharing facilities that we have at our institute.



Library

- Our library has over two thousand books related to non-engineering genre. Where students can learn about the daily life, become better at decision making and learn about self development.
- We also have books for competitive exams like GATE, CAT, and other government conducted tests.
- Library also possesses number of reference books for better development.

Details of E-books available

S.No.	Department	No. Of Ebooks
1	CSE	2851
2.	IT	1677
3.	ECE	1419
4.	Civil	635
5.	ME	469
6.	EE	554
7.	Phy	500
	Total	8105

Internet

- Internet is the best way to see, experience and learn about new things.
- Our institute have dedicated 12 Mbps lease line with 100% uptime.
- Students are also given special access to registered websites where they can read about latest research, development and other developments goingon in respective field. (eg. IEEE, Research GATE)
- All the labs are equipped with Internet connections, which makes it easier to connect to the up todate and latest technology of respective fiel

S.No.	Vendor	Mbps	Bill No.	Duration	Date	Amount
1	Aircel	40	a contract of the second se	1-4-14 to 30-6-14	09-03-2014	the second second second second second
2	Aircel	40	71850663	1-7-14 to 30-9-14	08-06-2014	the second s
3	Aircel	40	 Andersteine Andersteine Anders 	1-10-14 to 31-12-14	08-09-2014	ality in a second se
4	Vodafone	65		22-11-14 to 31-3-15	01-01-2015	
5	Vodafone	65	70329401	1-4-15 to 30-6-15	01-03-2015	19101:
6	Vodatone	65	85289367	1-7-15 to 30-9-15	01-06-2015	193800
7	Vodafone	65	100827846	1-10-15 to 31-12-15	01-09-2015	193800
8	Vodafone	65	118265252	1-1-16 to 31-3-16	01-12-2015	194650
9	Vodafone	65	136818069	1-4-16 to 30-6-16	01-03-2016	194650
10	Vodafone	65	156405034	1-7-16 to 30-9-16	01-06-2016	195500
11	Vodafone	65	173342255	1-10-16 to 31-12-16	01-09-2016	195500
12	Vodafone	65	192585695	1-1-17 to 31-3-17	01-12-2016	195500
13	Vodafone	105	216024437	1-4-17 to 31-6-17	01-04-2017	59478
1.4	Vodafone	105	228881545	1-7-17 to 30-9-17	01-06-2017	236790
15	Vodafone	105	EIRJ081700013973	1-10-17 to 31-12-17	01-09-2017	24296
16	Vodafone	105	EIRJ11700032286	1-1-18 to 31-3-18	01-12-2017	24296
17	Vodafone	105	EIRJ02800053274	1-4-18 to 30-6-18	01-03-2018	242967



Self Assessment Report

Sr. No.	Name of the	No. of student	Name of the Important	Weekly utilization	Technical Manpower support		er support
	Laborator y	s Per setup (Batch Size)	equipment	Status (all the Courses for which the lab is utilized)	Name of the technical staff	Designation	Qualification
1	EDC LAB	3 (20)	P-N junction diode apparatus Zener .diode apparatus Transistor characteristics apparatus. Clipping & Clamping circuit apparatus. Half wave, Full wave bridge rectifier, Common collector transistor amplifier FET characteristics. Scientech 50Mhz digital storage, Digital function generator 2Mhz. Digital Function generator 2Mhz Two stage R-C coupled amplifier kit.	24	Mr. Sitaram Saini	Lab Technician	Diploma In Electronics
2	Measureme nt & Instrument ation lab	3 (20)	Wein's Bridge (Capacity), Anderson's Bridge, Maxwell Inductance Bridge, Wein's Bridge (frequency). Ultrasonic digital distance meter. RTD Trainer kit, Single Phase Energy Meter LCR-Q Bridge . Solar Educational Kit Digital Earth Tester	24	Mr.Amit Jain	Sr.Instructor	Polytechnic Diploma
3	Electronic Instrument ation Workshop	3 (20)	Push Pull Power Amplifier Kit, Voltmeter, Voltmeter, Two Stage R-C Coupled Amplifier, Voltage Regulator, Voltage Multiplier, Opamp Designer Trainer Kit, Bootstrap Sweep Generator, Bjt Trainer Kit, Attenuator &Equaliser CRO, Dual Trace With Ct CRO, Dual	24	Ms. Vaishali Yadav	Lab Technician	Diploma In Electronics



Self Assessment Report

	1	1		1			
	Divitel	2 (20)	Trace With Ct &FG, DECADE CAPACITANCE BOX, Decade Resistace Box, Decade Inductance Box, Digital Multimeter, Emitter Follower, Function Generator Function Generator With Frequency Counter, FET Trainer Kit, Rectifier Trainer Kit, Oscillator Trainer Kit, Opamp Charcterstic Trainer Kit, P-N Diode & Zener Diode Trainer Kit, Power Supply,		Mr.		
4	Digital Electronics Lab	3 (20)	Scientech Digital Kit(5), Digital Trainer Kit(10)	24	Mr. Ramovtar Saini	Lab Technician	Diploma In Electronics
5	Analog Electronics Lab	3 (20)	Series Voltage Regulator, Shunt Voltage Regulator, Wein's Bridge Oscillator, FET Common Source Amp. Push Pull Amp. Phase Shift Oscillator, Hartley Colpitt Oscillator, UJT Characteristics, UJT Relaxation, MOSFET, CMOS IC, Digital Storage CRO, Function Generator(6),Cro(6)	24	Mr. babu Lal Sharma	Lab Technician	Diploma In Electronics
6	communica tion lab 1st	3 (20)	Sampling & Reconstruction Trainer, Data Formatting & Carrier Modulation Transmitter, TDM Pulse Code Modulation Receiver, TDM Pulse Code Modulation Transmitter, Delta, Adaptive Modulation & Demod. PAM, PPM, PWM Mod. & Demod. Transmission Line Trainer, CRO, Digital Storage CRO 150 MHz, FM modulation & Demod, DSB/SSB AM Mod.Tx, DSB/SSB AM Demod. Rx, Power Project Board, TDM PA Mod/Demodulator, Dual Power Supply, Data Formatting & carrier modulation / Receiver Trainer, function Generator	24	Mr. Gaurav Goyal	Lab Technician	Diploma In Electronics



	-				r		
7	DIGITAL COMMUN ICATION LAB	3 (20)	PCM, DPCM, CVSD modulation & demodulation trainer, MSK modulation & demodulation Trainer Delta , adaptive delta ,sigma delta Mod. & Demodulation trainer, Cyclic code experimental setup, Block code encoder , Block code decoder ASK, FSK BPSK, DBPSK experimental Setup TDM-PAM trainer kit, Sampling & Reconstruction trainer, Data Formatting and Carrier modulation, Data formatting & carrier Demodulation, Data TDM-PCM transmitter Receiver, QPSK, OQPSK, DQPSK modulation & demodulation trainer	24	Mr. Gaurav Goyal	Lab Technician	Diploma In Electronics
8	Microproce ssor Lab	3 (20)	Microprocessor kit 8085(15)	24	Mr.Rajesh Yogi	Lab Technician	Diploma In Electronics
9	MICROW AVE LAB	3 (20)	klystron power supply, Gunn power supply, Microwave test bench(klystron), Microwave test bench (Gunn diode), Spectrum analyzer, VSWR meter, Solid state klystron power supply, CRO 150 MHz, Microwave test bench(klystron), Microwave test bench (Gunn diode), Microwave test bench (s band)	24	Mr.Rakesh Talwara	Lab Technician	Diploma In Electronics
10	ANTENN A AND WIRELES S COMMUN ICATION	3 (20)	GPS Trainer Kit, Radar Trainer Kit, CRO dual channel, function generator, cdma direct sequence spread, spectrum (DSSS) trainer kit, antenna trainer lab ATS40, antenna trainer ATS2000, satellite communication trainer kit, antenna digital RF TX ATS200IT, antenna digital RF RX ATS200IT, antenna stepper motor controller ats2001s, satellite communication trainer up link tx, satellite communication trainer down link rx, satellite communication trainer, Satellite transponder, fiber optic trainer, Fiber optic connectors kit display board, fiber optic cable sample kit display board, laser trainer model lt2506, voice communication using DSSS	24	Mr.Harish Kumar	Lab Technician	Diploma In Electronics



Self Assessment Report

Skill Development:

For the overall development of the students, we focus on technical aspects and personality improvement. Which not only makes them a better student, they are also being prepared for future obstacles both on education level and personal level.

Technical Advancements

• We provide GATE examination preparation to our students. Which helps them with both better placements in Govt. PSUs and for those who are interested in higher studies. Due to this program our no.of students are getting into prominent institutes for higher studies and some of them have also been selected for govt jobs

Item		CAY (2017-2021)	CAYm1 (2016- 2020)	CAYm2 (2015-2019)
National Level Entrance Examination(JEE)	No. of Students admitted	228	235	225
	Opening Score/Rank	138	131	400(Rank)
	Closing Score/Rank	28	43	14004(Rank)
State/University/Level Entrance	No. of Students admitted	N/A	N/A	N/A
Examination/Others	Opening Score/Rank	N/A	N/A	N/A
	Closing Score/Rank	N/A	N/A	N/A
Name of the Entrance Examination for Lateral	No. of Students admitted	01	3	2
Entry or Lateral entry details	Opening Score/Rank	58.42	69.89	61.57
	Closing Score/Rank	58.42	65.51	55.95
Average Mark	s	70.72	77.69	72.52

Session 2017-18

• We also conduct mock tests, online tests and quizzes to prepare our students for better performance which makes it easier for the student to perform and crack those



competitive exams.

Year	No. of Student Appeared
	online exam
2015-16	250
2016-17	195
2017-18	196

• In the Digital India, Moocs are the best way to learn a new skill which is the easier way to advance your Career. Programs like SWAYAM is being used in our institute and many students and faculties have enrolled and learning new skills.

	Swayam Re	gistration details of E	CE Faculty Members		
Sr. No.	Name of Faculty	Mail id Registered with SWAYAM	Name of Course	Course Opening/Starting Date	Course Completion Date
1	Anil jain	aniljain.ece@jecrc.ac.in	modern digital comm. technique	24-7-17	13-10-17
2	Pravin Kumar Sharma	pks_2009@ymail.com	Principles of Human Reaources Management	30-07-2007	06-10-2017
3	Mangilal meghwal	mangilal.ece@jecrc.ac.in	Modern digital communication techniques	24/07/17	13/10/17
4	Shikha gaur	shikhagaur.ece@jecrc.ac.in	technical english for engineers	24/7/2017	15/9/2017
5	rajesh kumar bathija	rajesh.ece@jecrc.ac.in	analog circuits	24/07/2017	15/09/2017
6	Ashish Kulshrestha	ashishkulshrestha.ece@jecrc.ac.in	Analog Communication	24/07/2017	13/10/2017
7	Ashutosh Sharma	ashutoshsharma.ece@jecrc.ac.in	Introduction to Wireless and Cellular Communications	24/07/2017	13/10/2017
8	Ankur Gangwar	kiteankurgangwar@gmail.com	controls engineering	24 Jul , 2017	13 Oct , 2017
9	raj kumar jain	rajkumarjain.ece@jecrc.ac.in	controls engineering	24/07/2017	13/10/2017
10	vikash mishra	vikashmishra.ece@jecrc.ac.in	Basic Electrical Circuits	24/07/2017	30/09/17
11	Vinita Mathur	vinitamathur12@gmail.com	Controls engineering	24/07/2017	13/10/2017
12	Jitendra Sharma	jitendrasharma.ece@jecrc.ac.in	Analog communication	24/07/2017	13/10/2017
13	Lokesh Kumar Sharma	lokeshsharma.ece@jecrc.ac.in	Basic Electrical Circuits	24/07/2017	13/10/2017
14	Bhoopesh Kumawat	bhoopesh.ece@jecrc.ac.in	Introduction to Wireless and Cellular Comm	24/07/2017	13/10/2017
15	Ashok Kumar	ashokkumar.ece@jecrc.ac.in	Introduction to Wireless and Cellular Comm	24/07/2017	13/10/2017
16	Ritu Vyas	rituvyas.ece@jecrc.ac.in	Introduction to Wireless and Cellular Comm	24/07/2017	13/10/2017
17	HONEY AGARWAL	honeyagarwal.ece@jecrc.ac.in	Introduction to Research	24 July 2017	30 Sept 2017
18	Shivam	shivam.ece@jecrc.ac.in	Controls Engineering	24/07/2017	13/10/2017

SECTION A SEM III



		Swayar	n Portal Registrat	Swayam Portal Registration Details of ECE Students					
S.No	Roll. No.	Name of students	Year/sem	Name of course	Course Start date				
1	16EJCEC001	AANCHAL GUPTA	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
2	16EJCEC002	ABHISHEK GOYAL	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
3	16EJCEC004	ABHISHEK SINGH	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
4	16EJCEC005	ADITYA KHANDELWAL	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
5	16EJCEC006	ADITYA SHARMA	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
6	16EJCEC007	AJAY PAREEK	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
7	16EJCEC008	AKSHAT KUMAR MALVIYA	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
8	16EJCEC009	AKSHITA AGRAWAL	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
9	16EJCEC010	AMAN KHANDELWAL	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
10	16EJCEC011	AMAN SAXENA	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
11	16EJCEC012	AMAN TOTUKA	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
12	16EJCEC013	AMBUZ SHUKLA	2nd Yr./ Ill Sem.	Basic Electrical Circuits	24/07/2017				
13	16EJCEC014	AMISHA KABRA	2nd Yr./ III Sem.	Basic Electrical Circuits	24/07/2017				
14	16EJCEC015	ANAND GUPTA	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
15	16EJCEC016	ANAND NENAWA	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
16	16EJCEC017	ANCHAL AGARWAL	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
17	16EJCEC018	ANJALI BHARTI	2nd Yr./ III Sem.	Basic Electrical Circuits					
18	16EJCEC019	ANJALINYATI	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
19	16EJCEC020	ANJUL ASAWA	2nd Yr./ III Sem.	Basic Electrical Circuits					
20	16EJCEC021	ANKIT KUMAR GUPTA	2nd Yr./ III Sem.	Basic Electrical Circuits					
21	16EJCEC022	ANKIT SINGH	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
22	16EJCEC023	ANSHUL DHAKA	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
23	16EJCEC025	ANUBHAV KHANDELWAL	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
24	16EJCEC026	ANUBHAV KUMAR JHA	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
25	16EJCEC027	ANUJ GOYAL	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
26	16EJCEC028	APUL JAIN	2nd Yr./ Ill Sem.	Basic Electrical Circuits					
27	16EJCEC029	ARUN SONI	2nd Yr./ III Sem.						
28	16EJCEC030	ARVIND KUMAR	2nd Yr./ III Sem.	Basic Electrical Circuits					
			<u></u>		<u>1</u>	<u> </u>			
246	15EJCEC033	ANKIT SANKHLA	3rd Yr/ V Sem	Analog communication	24/07/2017				
247	15EJCEC034	ANMOL MADAN	3rd Yr/ V Sem	Analog communication	24/07/2017				
248	15EJCEC035	ANSHU SAXENA	3rd Yr/ V Sem	Analog communication	24/07/2017				
249	15EJCEC036	ANSHUMAN DWIVEDI	3rd Yr/ V Sem	Analog communication	24/07/2017				
250	15EJCEC037			Analog communication					
251	15EJCEC038	ANUSHREE SHARMA	3rd Yr/ V Sem	Analog communication	24/07/2017				
252	15EJCEC039	ARPIT MANGAL	3rd Yr/ V Sem	Analog communication	24/07/2017				
253	15EJCEC040	ARPIT SINGHAL	3rd Yr/ V Sem	Analog communication	24/07/2017				
254	15EJCEC041	ARUSHI KHANDELWAL		Ĭ					
			3rd Yr/ V Sem	Analog communication	24/07/2017				
255	15EJCEC042	ARUSHI YADAV	3rd Yr/ V Sem	Analog communication	24/07/2017				
256	15EJCEC044	ASHISH AGARWAL	3rd Yr/ V Sem	Analog communication	24/07/2017				

NO OF SUDENTS ATTENDED THESES MOOCS

YEAR 2017-2018



Class	No. of Students
2nd Yr./	215
III Sem.	
3rd Yr/ V	221
Sem	

Personality Improvement

- With our efforts in personality development and face classes no. of students have been selects at prominent companies with good starting packages.
- PD classes are the part of curriculum for all students.

Year	Name of event	Object of event	No. of students participated	Date of event
2015-16	Pre Placement training Program by FACE	Bridging gap between academics & Industry	180	12-10-2015 To 14-10-2015
2016-17	Pre placement training by Face	Bridging gap between academics & Industry	184	18-7-2016 to 6 - 8-2016
2017-18	Pre placement training program by Face	Bridging gap between academics & Industry	186	20-7-2018 onwards

We invite faculties from various institutes for the face classes which teach our students about aptitude, verbal and non-verbal reasoning etc.

• Mentors of Face Classes :

Session 2017-18 Mentor List

S.No	Mentor Name	No. Of students allotted
1	Mr. Ashish Sharma	19
2	Mr. Vikas Sharma	19
3	Mr. Anil Jain	19
4	Ms. Preeti Barot	19



5	Mr. Ankur Gangwar	19
6	Mr. Rajesh Bathija	19
7	Mr. Naresh Kumar	19
8	Ms. Shivam Upadhyay	19
9	Mr. Devesh Gupta	19
10	Mr. Ashok Kumar	19
11	Mr. S S Manaktala	19
12	Ms. Neha Singh	19

Industrial Oriented Visits:

- Students are getting an insight on how their lifes going to be and what does it mean to be an engineer?
- Industrial visits are conducted on regular basis which a great way to learn and see things in action.

	Jan 2018-June 2018 (Even Sem)						
S. No.	ame Of Company	Dates of Visit	rofile of Company	o. of Students	Outcome		
1	Fesca Technologies Pvt. Ltd.	th January 2018	Electronics measurements	27 (3rd year)	 Single sourcing partner for all Educational plutions. 2) Student Interaction with real application of Electronics Engineering. 		
2	Genus Power Infrastructures Ltd.,	15th February 2018	Electronics		 Student interacted with real application of Engineering especially in Smart Energy meters. 2) Student learned about various Techniques of Power Generation and Distribution. 		
3	Phillips Lightings	4th March 2018	Electronics	45	1) Students understood the mechanism behind the manufacturing of lighting systems.		
4	Talent Pool	4th March 2018	Telecom, IT	45	1) Students were imparted basic knowledge of telecom strategies.		

Technical Events:

• We conduct a lot of technical events which are competitive. Not only it results in bigger number of participants but they can also learn a lot more.



- These events bring out the competitiveness in our students which is going to be useful in real world. Due to this, our students were motivated enough to participate in events launched by big organization Such as NASA.
- Our students also participate in techno culture festivals such robotic festivals, Olympiad etc.

Research Oriented

Conference:

- Conferences are the great way to learn about research and development going on in respective fields, which inspired many students to publish their own research.
- It is also a great starting point for those students who want to pursue their career in research fields.

National and International Conferences Details

S. No	Topics	No. of Fac ulty Me mbe rs	No. of students attended	Remarks
1	"Recent Technological Developments in Electronics and Electrical Engineering-2018 (RTDEEE-2018)"	43	11	• To aware research scholars, students and faculty members about the recent developments in the field of Electronics Engineering, Communication Systems, Power System, Control Engineering, Neural Networks and Electrical Engineering etc .held on April 6-7, 2018
2	"Recent Advancements in Science and Technology-2018 (RAST-2018)"			Two days national conference recent trend in Electronics and communication .held on March 27-28, 2018, , 2018 at JECRC Jaipur.



• Social Activity

We have students inclined clubs such as Zarurat, Soch, Aashayein and Suhasani among other.

These clubs collectively called ABHYUDAY.

These clubs are managed by our students which conduct free classes for orphaned children, poor children. Which provides them with sense of charity and doing good for others.

Not only they are learning to be better human beings, they are also setting an example by helping others.

• Spiritual Trainings

We heard so much news about student's suicides which makes it easier to understand that, how stressful a student's life can be.

We have special spiritual area where our students can experience calm, learn to meditate and learn to deal with the bad situations in life in a healthy way.

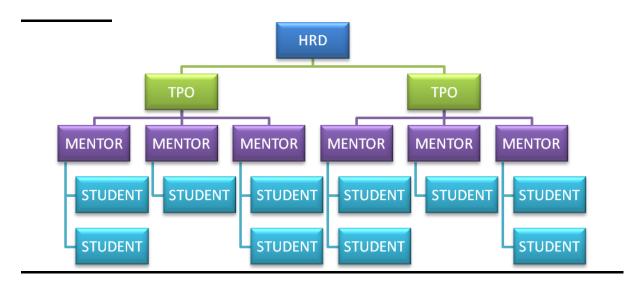
Of audio and video books are also available.

This is very important, because they are learning to face and deal with their problems not run away from them.

9.5

Career Guidance, Training, Placement(10)

The institution may specify the facility, its management and its effectiveness for career guidance including counselling for higher studies, campus placement support, industry interaction for training/internship/placements, etc.)



Professional Guidance:-



We provide opportunities to students to improve placement percentage like interactions with MNC, Exhibition to provide internship.

S.No.	Name of Event	Date	Description
1	Placement Guidance	August 2016	The event was graced
1		August 2010	by Mr. Sanjeev
	Organized by HRD		Khosla,
	Organized by TIKD		MD, Accenture &
			Mrs. ShobhaKariappa,
			VP, Recruitment.
			vI, Keelulunent.
2	ISRO Exhibition	April 2016	For the first time in
2		11pm 2010	Rajasthan an
			exhibition of the
			"Space Endeavours
			of India" was
			conducted by ISRO
			(Indian Space
			Research
			Organization) at
			JECRC University in
			April 2016.
			ripin 2010.
3	SIH 2K17	March-April 2017	JECRC was among
	Organized by MHRD,	-	the only twenty eight
	Govt of India		colleges selected in
			the country.
4	Interactive Session	September 2017	This session
	Organized by		conducted by Dr.
	SanjevOhri		Sanjeev Ohri ,Uk.
5	Interactive Session	September 2017	Conducted by Dr.
	SPIC MACAY		Kiran Seth, founder,
			SPIC MACAY
6	Awareness Workshop	January 2018	Workshop about
	(SIH 2K18)		second edition of
		t la	smart india hackathon
7	JECRC Hackathon	10 th January 2018	200 students teams
		And 11 th January	participated in a 24
		2018	hour nonstop digital
			product development
			competition
8	Careers in	2018	Held a screening of a
	Entertainment		short film
	industry		"masalePyarVaale" of
	("masalePyarVaale")		New York Film



Self Assessment Report

			Academy.
9	Exhibition	April 2018	Space Endeavours of
	Organized by ISRO.		India was conducted
			by ISRO
10	SIH 2K18	30 th -31 st March 2018	JECRC was among
	Organized by MHRD,		the only twenty eight
	Govt of India		colleges selected in
			the country.

GATE Examination Preparation

• We provide GATE examination preparation to our students which help them with both better placements in Govt. PSUs and for those who are interested in higher studies. Due to this program our no.of students are getting into prominent institutes for higher studies and some of them have also been selected for govt jobs

Campus Placement Support/Training

A training and placement cell is established and responsible for campus placement (off campus also) and training which improve students skills both technical and behavioural. A cell provide various opportunities for student placements and organize sessions / training programs.

11		6	
1	Interactive Session	Aug,2015	An interactive session
			with Anurag Chawla
	(TCS Representative)		and Vaibhav Bansal
			both employed at TCS
2	Interactive Session	2017	The talent acquisition
			head, North India for
	(TCS Commune		TCS, Mr. Narendra
	Program)		Chandel visited JECRC
	_		to interact with students
			regarding the TCS
			Campus Commune
			Program
			-

Training in Institute:

Year	Name of event	Object of event	No. of students participated	Date of event	
2015-16	Pre Placement training Program by FACE	Bridging gap between academics & Industry	180	12-10-2015 To 14-10-2015	
2016-17	Pre placement	Bridging gap	184	18-7-2016 to 6	



Self Assessment Report

	training by Face	between academics & Industry		-8-2016
2017-18	Pre placement training program by Face	Bridging gap between academics & Industry	186	20-7-2018 onwards

TP Squad:-Our institute has a group of faculties called TP squad which interact with companies/industries for training/internship/placement.



Jaipur Engineering College and Research Centre **Department of Electronics and communication Engineering Minutes of Meeting**

From: ECE-T&PSquad	To: All Concerned

Noting Reference No. JECRC/ECE-TnPS/MoM/2017/December/09

00/12/2017

Minutes of Meeting

Agenda –

- 1. Formation of CSE-Training & Placement Squad
- 2. Placement strategy for Un-placed students
- 3. Task assignment.

Meeting Venue and Date: EDC Conference Room A block at 2:00 O'clock on Saturday, December 09, 2017

Chaired By: Dr. Lokesh Bansal Attendees

1. Faculty Coordinators:

2. Students Coordinators:

Points put up for Discussion as per agenda:-

- The meeting started with motivational triggers connecting the current action with a bigger vision.
 12 well trained and placed students of 7th Semester (some listed above) were identified for taking the action further.



Self Assessment Report

- 3. It was decided for unplaced 162 students of CSE department, each student coordinator will be allotted a group of 15 students.
- 4. Future course of action was chalk out, based on following categories:
 - **a.** For **Competition based hiring**, the student coordinators under the mentor-ship of faculty coordinator, will help their group for better preparation by identifying coding tricks and algorithms or training as per the requirements.
 - **b.** For **Companies lined up by HR Team**, the student coordinators will motivate and extend their help in identifying the company specific set of questions and training available on the internet.
 - **c.** For **Identification of Personal Contacts,** faculty coordinator along with students will approach organizations to take the things further in positive direction.
 - **d.** For **Establishing Contact with Alumni**, both identified faculty member along with a team of students will approach Alumni of JECRC Foundation for the placement of students.
- 5. It has been decided the student allotment will be completed by December 11, 2017 with the help of existing mentors.
- 6. The meeting ended with a clear understanding of the vision and assignment to be carried out for achieving the same.

Copy To: All Concerned

Entrepreneurship

Institute has a cell which improve entrepreneurship development skills in students by doing activities such as seminars, workshops and awareness camps.(Entrepreneurship and incubation).

- To improve Entrepreneurship skills in students.
- Cell conducts many workshops and awareness camps for students.
- Cell has incubation centre and associated with start-ups.
- Cell schedules interactions with alumni start-ups.

S.No.	Name of Event	Date	Description
1	Interactive Session Motivational speaker	September 2015	An interactive session for students by renowned motivational speaker Mr. Vijay Batra
2	Workshop On Entrepreneurship Skill Development	Feb, 2016	A workshop was conducted by EDC JECRC on Entrepreneurship Skill Development The expert speaker was Dr. Pankaj Bharti from Entrepreneurship Development Institute of India,
3	Entrepreneurship awareness camp	March 2016	A three day Entrepreneurship Awareness Camp was



Self Assessment Report

4	JOSH Meets	May 2016	organized at JECRC in association with DST The camp witnessed a registration of 300 students and a footfall of 12 eminent speakers from the start up ecosystem of the country. JOSH Meets, an
+	JOSH Weeks	Way 2010	opportunity for interactive sessions with six achievers from various fields
5	Interactive session With Alumni	August 2016	An interactive session with the alumnus of JECRC & Co-Founder, celebal, Sh. Anirudh Kala was conducted training & placement opportunities for students of JECRC at Celebal were identified.
6	Orientation Session Organized by Career Development Centre, JECRC	2017	Career Development Centre, JECRC &Intraversity organized an orientation session for students to help them grab international internship opportunities. Dr. Harsh Mishra, Founder iSEED&Dr.K. C. Jacob, President & Managing Consultant, Horton International spoke to students about opportunities in Singapore & Hong Kong.
7	TEDx Talk	March 2017	The first TEDx talk in any RTU affiliated college was conducted in JECRC on 25th March 2017 wherein 10 international speakers spoke to our students





Entrepreneurship awareness camp

Government Job Cell

Government job cell was established in our institute in the year 2016 to prepare students towards different competitive examination. In this cell we encourage and inspire students for competitive examination by doing activities like interactive sessions with central government head, NBS head.

S.No.	Name of Event	Date	Description
1	Interactive Session	October 2015	An interactive session
			with Major Gen.
	NBS by G. D. Bakshi		Dr.G. D. Bakshi was
			organized for students
			in October 2015.
2	Interactive Session	November 2015	An interactive session
	with		with the "Metal King
	the "Metal King of		of India", Mr. Anil
	India"		Agarwal, Chairman,
			Vedanta Resources
			Plc.
3	Interactive Session	February 2017	An interactive session
	By MHRD,		with Sh. Anil Swarup,
	Government of India		Secretary, (SE & L),
			MHRD, Government
			of India was
			organized for students
			of JECRC.



4	JECRC MUN	April 2017	The 6th edition of JECRC MUN was held in April 2017, presenting five different committees UN GA-DISEC, NSC, UN HRC, SOCHUM & ICJ.
5	7 th Edition of JECRC MUN	April 2017	GA-DISEC, UNSC, UN-HCR, CSW AND Loksabha along with international press

<u>All round development:</u>

Many technical events like conferences and workshops are organized in the institute to improve and present technical skills of students.

- National level competition for students like Smart India Hackathon was held in institute.
- To prepare teams a faculty guide was assigned to a particular team and an intra college competition like JECRC hackathon was organized to check, improve technical skills level of shortlisted teams.

S.No.	Name of Event	Date	Description
1	Ideation Feedback And	Nov, 2015	contest under the
	Social Media Contest		Digital for Customer
			Engagement program of
			SAP, U.S.was organized
			exclusively for students of
			JECRC.
2	J Techtrix	Nov, 2015	A two day exhibition of
			projects of 1st Year
	An Exhibition		students was held at JECRC
3	National Conference	August 2016	A two-day national
			conference RTDEEE-2016,
	RTDEEE-2016		(Recent Technological
			Developments in Electronics
			& Electrical Engineering)
4	Interactive Session	2015	The talent acquisition head,
			North India for TCS, Mr.
			Narendra Chandel visited
	(TCS Campus Commune		JECRC to interact with
	Program)		students
			regarding the TCS Campus
			Commune Program
5	Interactive Session	Aug,2015	An interactive session with
			Anurag Chawla and Vaibhav
	(TCS Representative)		Bansal both employed at
			TCS
6	Interactive Session	Oct,2015	An interactive session with
	(HEXA CCIE +		world's only HEXA CCIE +



	CODEN		CODE VIL D. "
	CCDE) DV Khower Dutt		CCDE, Khawar Butt was
	BY Khawar Butt	E 104 E 164	organized for students
7	"Sustainability Development: Challenges & Opportunities. (Short term training course)	From 12th To 16th October 2015	Mechanical Department in association with NITTTR, Chandigarh on "Sustainability Development: Challenges & Opportunities.
8	workshop on "Implementation of logical operations in Software, Image Processing and GUI (Workshopby IIT Mumbai and Techienest Jaipur)	February 2016	A two day workshop on "Implementation of logical operations in Software, Image Processing and GUI directly from industry experts, MATLAB, MATLAB projects & interaction with renowned Industry Experts" was held for students by IIT Mumbai and Techienest Jaipur
9	"Automotive Design and Development" (A training Program)	From 8th To 22nd February 2016.	"Automotive Design and Development" in association with Elite Techno Group
10	International Workshop (Open source software)	September 2016	An international workshop on open source software was conducted at JECRC in association with CSI, Jaipur Chapter and Drupal Jaipur Community. Our special guests were Mr. Micheal Canon, COO and Mr. Nathan Roach, Content Marketing Associate, Axelerant Technologies, Atlanta, US
11	J Techtrix (An Exhibition)	April 2017	J Techtrix, a daylong exhibition of projects of our students was held at JECRC in April 2017 wherein more than forty selected projects were on display
12	SIH-2K17 (Smart India Hackathon) organized by MHRD, Govt of India	April 2017	The grand finale of Smart India Hackathon organized by MHRD, Govt of India was held at JECRC . JECRC was among the only twenty-six colleges selected



Self Assessment Report

			in the country for this event wherein 47 teams from all over India came to participate in a 36- hour nonstop Coding competition.
13	Interactive Session (TCS Commune Program)	2017	The talent acquisition head, North India for TCS, Mr. Narendra Chandel visited JECRC to interact with students regarding the TCS Campus Commune Program
14	National Conference (RESSD-2016)	October	A two-day national conference RESSD-2016, (Renewable Energy Sources & Sustainable Development) was conducted keynote speaker was Prof. S. K. Ghosh, Dept. of Civil Engineering, IIT Roorkee.
15	Expert Talk Organized by CSE department	November 2017	An invited talk by prof. Peter Kent &Prof. David Wing, CEO UKE was organized by CSE department
16	Sales force Training	2018	Students were trained on modules of Trailhead
17	Interactive Session Organized by CSE department	2018	Conducted by Dr. Niko Philips, Oxford College
19	ICETEAS-2018	February 2018	ICETEAS was organized at JECRC
20	J-Techtrix 3 rd Edition An Exhibition	17 th March 2018	JECRC's student project exhibition.
21	SIH-2K18 (Smart India Hackathon)	30 th -31 st March 2018	JECRC was among the only twenty eight



organized by MHRD,
Govtof India

9.6 Entrepreneurship development cell (EDC):

Entrepreneurship cell is established in mentorship of Mr. Siddharth Chaturvedi, our College for encouraging and inspiring students for start-ups and entrepreneur. Various interactive sessions for students with alumni and start-up representative are organized to know the importance of being an entrepreneur and ways to get financial assistance to become n entrepreneur.

S.No.	Name of Event	Date	Description
1	Interactive Session Motivational speaker	Sep-15	An interactive session for students by renowned motivational speaker Mr. Vijay Batra
2	Workshop On Entrepreneurship Skill Development	Feb, 2016	A workshop was conducted by EDC JECRC on Entrepreneurship Skill Development The expert speaker was Dr. Pankaj Bharti from Entrepreneurship Development Institute of India,
3	Entrepreneurship awareness camp	Mar-16	A three day Entrepreneurship Awareness Camp was organized at JECRC in association with DST The camp witnessed a registration of 300 students and a footfall of 12 eminent speakers from the start up ecosystem of the country.
4	JOSH Meets	May-16	JOSH Meets, an opportunity for interactive sessions with six achievers from various fields
5	Interactive session With Alumni	Aug-16	An interactive session with the alumnus of JECRC & Co- Founder, celebal, Sh. Anirudh Kala was conducted training & placement opportunities for students of JECRC at Celebal were identified.
6	Orientation Session Organized by Career Development Centre, JECRC	2017	Career Development Centre, JECRC & Intraversity organized an orientation session for students to help them grab international internship opportunities. Dr. Harsh Mishra, Founder iSEED & Dr. K.C. Jacob, President & Managing Consultant, Horton International spoke to students about opportunities in Singapore & Hong Kong.
7	TEDx Talk	Mar-17	The first TEDx talk in any RTU affiliated college was conducted in JECRC on 25th March 2017 wherein 10 international speakers spoke to our students

Cell is responsible for :



✓ Relationship with companies:

- Company like celebal tech has visited our campus for 2017-18 batch placements and this company is owned by jecrc alumni.
- Backbone soft wares also visited jecrc campus and owned by JECRC alumni.(2010 batch)
- \checkmark Motivate students, guide and help them in the same direction.

• EDC Activities:

Year	Name of the event	Conducted by	Date	Participants
2015-	Entrepreneurship awareness	DST govt of	28-3-2016 to 30-3-	25
16	camp	raj	2016	
2016-	Entrepreneurship awareness	DST govt of	2-9-2016	60
17	camp	raj		
2017-	Entrepreneurship awareness	JECRC	29,30-8 2017	63
18	camp			

• Institute has success stories for every pass out year as a result of Entrepreneurship cell and incubation centre.

S.No	Name of students	Event	Date	Organized by	Event outcomes
1	Harshil Jian	National Start-up Fest	13-16 Oct 2017	AICTE	Certificates
2	Manav Sharma	National StartUp Fest	13-16 Oct 2017	AICTE	Certificates
3	Kushagra Singh	National StartUp Fest	13-16 Oct 2017	AICTE	Certificates

• Our students namely HARSHIL JAIN, MANAV SHARMA and KUSHAGRA SINGH have been shortlisted for National Start-Up Fest 2017, which will be organized by All India Council for



Technical Education (AICTE) in collaboration with Vijnana Bharati (VIBHA) and partnering with other government agencies such as DBT, DST, DIPP, AIM - NITI Aayog, NRDC, FITT-IIT Delhi etc. under aegis of India International Science Festival (IISF 2017), a joint mega event of Ministry of Science and Technology and Ministry of Earth Sciences was held during October 13th - 16th 2017 at Chennai. Their idea has been selected from 1.7 lacs entries among the top 29 start-up ideas of India.

Our students Mithlesh Yadav, Rishabh Anand, Anshul Dhaka, Chirag Maheshwari, Gourav Goyal, Hardik Rathi, Jaya Mittal, Juhi Garg team of Xananoids win the following events at different places.

- Won 2nd prize in JECRC Hackathon for project on home automation. 10th-11th january 2018.
- Won 2nd prize in sumowar in JECRC college, Jaipur.15th march 2018.
- Won 2nd prize in Robowar at Manipal University, Jaipur.
- Won 2nd prize in Robo-soccer at Manipal University, Jaipur. 17th-18th march 2018.
- Won 1st prize in Robo rumble at NIT Delhi.23-24th march 2018.
- Won 1st prize in Robowar in JECRC college, Jaipur.
- Won 3rd prize in Sumowar in JECRC college, Jaipur.25-28th march 2018.
- Our students Mr. Sumit Mittal ,ECE second year , Pankaj Mahirshi (ME), Diksha Lath(IT) developers of CAI have added one more success story. They have developed Emergency Medical Aid App (First of its kind) for passengers of West Central Railways. On 8th Feb 2018 they were invited by officials of the Indian railways to demonstrate the app before the CMD and GM (Mr. Girish Pillai) of



the same zone at Zonal office Bharatpur. They were awarded and extolled by the General Manager also.

Student Achievements

- Mr. Utkarsh Goyal, Student of third year, has been selected as Microsoft Student Partner 2017-18. He has cleared all rounds of rigorous selection process. We congratulate him on behalf of entire ECE department.
- The team of Xananoids club took part in plinth tech fest of LNMIIT in the transporter and stood second in it. The team c onsist of Mithlesh (ECE) Rishabh (ECE) Harish (Mech) Gaurav (Mech) Jitendra (Mech) and Shubham (CSE).
- Mr. Mahendra Godara, ECEC final year student secured 258 all india rank in GATE-2018.
- Ms. Pragya Agarwal (Session 2015-2016) secured 10th Position in Merit list of Rajasthan Technical University, Kota with 84.16%.
- Our students Simran Bhatia, Vidushi Gaur, Kapil Bimdal, Charu Upadhyay, Hanu Rohit, actively coordinate TEDx JECRC, which was, an international event themed "DISCOVER SOCIETY". The aim was to bring the IDEAS WORTH SPREADING to the handpicked intellectual students of JECRC who would take inspirations from those ideas and change the world for good.
- Rohit Raj from ECE branch (2nd year) has been selected as a scholar in Google India Challenge Scholarship 2018 by Udacity on 7th February 2018.
- Ms. Rashi Bansal of ECE department (Second year) won the event "PARIDHAN" of National Tech Management Fest held at JK Lakshmipat University, Jaipur.
- Ms. Rashi Bansal of ECE department (Second year) secured first position in the event "PANACHE" conducted by Creative Arts and Cultural Society held at MNIT, Jaipur.



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 Our students namely HARSHIL JAIN, MANAV SHARMA and KUSHAGRA SINGH have been shortlisted for National Start-Up Fest 2017, which will be organized by All India Council for Technical Education (AICTE) in collaboration with Vijnana Bharati (VIBHA) and partnering with other government agencies such as DBT, DST, DIPP, AIM - NITI Aayog, NRDC, FITT-IIT Delhi etc. under aegis of India International Science Festival (IISF 2017), a joint mega event of Ministry of Science and Technology and Ministry of Earth Sciences was held during October 13th – 16th 2017 at Chennai. Their idea has been selected from 1.7 lacs entries among the top 29 startup ideas of India.

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Feb 2018 they were invited by officials of the Indian railways to demonstrate the app before the CMD and GM (Mr. Girish Pillai) of the same zone at Zonal office Bharatpur. They were awarded and extolled by the General Manager also.

- Ms. Chestha Agrawl won the DRDO National level essay competition-2017 on the topic of "DRDO Achievements & Way Ahead".
- Ms. Lakshita Sharma, third year student participates in Rajasthan senior state football tournament.
- Ms. Lakshita Sharma, third year student got selected in top 11 players of Rajasthan senior national football tournament .
- Ms. Lakshita Sharma, third year student was the winner of GIT college tournament (vanquish).
- Ms. Lakshita Sharma, third year student was the winner of Rajasthan technical university tournament (RTU).



9.7 Co-curricular and extracurricular activities:

Co-curricular Activities:

Co-curricular Activates:

	Industrial Trainings/Industrial Visits/Workshops					
Sr.No.	Department Activity	Level of Activity	Number of Participant	PO Attainment		
1	Embedded Systems & Robotics organized by TechiNest Pvt.	National	56	PO1, PO2, PO3, PO5, PSO1		
2	Embedded & Robotics organized by SaK Robotics	National	66	PO1,PO2, PO3, PO5, PSO1		
3	Workshop on CCNA Networking	National	58	PO1,PO2, PO3, PO5		
4	Workshop on SPYBOT- Spy Robotic Workshop organized by TechiNest Pvt. Ltd	National	215	PO1, PO2, PO3, PO5, PSO1		
5	Industrial Visit Genus Power Infrastructures Ltd	National	50	PO1,PO2, PO3, PO5		
6	Industrial Visit Tesca Technologies Pvt. Ltd.,	National	27	PO1,PO2, PO3, PO5		
7	Industrial Visit PHILIPS LIGHTING	National	510	PO1,PO2, PO3, PO5		
8	Industrial Visit at BSNL	National	55	PO1, PO2, PO3, PO5		



Industrial visits are conducted for students so they can practically observe the environment and activities in Industries.

	Jan 2018-June 2018 (Even Sem)					
S. No.	Name Of Company	Dates of Visit	Profile of Company	No. of Students	Outcome	
1	Tesca Technologies Pvt. Ltd.	17th January 2018	Electronics measurements	27 (3rd year)	 Single sourcing partner for all Educational solutions. 2) Student Interaction with real application of Electronics Engineering. 	
2	Genus Power Infrastructures Ltd.,	15th February 2018	Electronics	50	 Student interacted with real application of Engineering especially in Smart Energy meters. Student learned about various Techniques of Power Generation and Distribution. 	
3	Phillips Lightings	24th March 2018	Electronics	45	1) Students understood the mechanism behind the manufacturing of lighting systems.	
4	Talent Pool	24th March 2018	Telecom, IT	45	 Students were imparted basic knowledge of telecom strategies. 	

Each team who participated in 2017 and 2018 SIH held at JECRC were guided by assigned faculty member so they can perform better.

• Teams from JECRC participated in 2017 and 2018 SIH were guided by faculty member so they can perform better.

Year	No. of students participated	No. of teams
2016-17	18	3
2017-18	24	4

• Teams participated in JECRC hackathon 1.0 in 2018 were guided by faculty member(one mentor with each team)

Year	No. of students participated	No. of teams
2017	224	35

Extra Curricular Activities



Session 2017-2018

Session 2017-			
S. no.	Name of event	date	Details
1	Deputy high	July 2017	Visit of Deputy High
	commissioner of U.K.		Commissioner was
	visited JECRC.		held in JECRC.
2	JECRC Alumni were	Aug 2017	An induction day for
	awarded on first year		2021 batch was
	induction day.		celebrated and alumni
			were awarded on this
			day.
3	An engineer's day	Sep 2017	An engineer's day
	celebration, Top rankers		celebrated in JECRC,
	in RTU and achievers in		top rankers and
	sports were decorated.		achievers were
			awarded.
4	"SwacchataPakhwada"	1 to 15 Sep 2017	15 days celebration
	celebrated, Cleanliness		took place as
	raised.		"SwacchataPakhwada"
			in JECRC, students
			were participated in
			this activity, checked
			for clean campus.
5	Seminar on "Rally for	Sep 2017	A seminar on "Rally
	Rivers".		for Rivers" were held
			in JECRC. Students
			were participated.
6	An interactive session by	Sep 2017	A session by Mr.
	kiranseth on SPIC		Kiran seth on SPIC
	MACAY.		MACAY, students
			were part of this.
7	OMEN by HP and	Oct 2017	A college
	mountain dew ESL india		championship of
	college gaming		gaming competition
	championship.		was held.
8	Blood donation drive	Oct 2017	Blood donation camp
			was organized for
			students. They donated
			blood.
9	Vandeymatram-voice of	Nov 2017	Thousands of student
	unity		participated across
			state. JECRC students
			were also part of this.



Self Assessment Report

10	An invited talk with	Nov 2017	Session was organized
	prof.peterkent and prof.		in JECRC for students.
	david wing CEO UKEI.		
11	National girl child day	Jan 2018	National girl child day
	celebration		was celebrated in
			JECRC.
12	69 th republic day	Jan 2018	Republic day was
	celebration		celebrated
13	OCIP(orphanage children	Feb 2018	An event organized by
	interactive program) by		abhyuday group-
	Abhyuday group- SOCH		SOCH, which were for
			orphanage children.
14	An invited Talk on"	Feb 2018	Chancellor RTU kota
	Society and control		presented talk on
	system" by vice		Society and control
	chancellor RTU Kota.		system.
15	National level cultural	March 2018	National level cultural
	fest RENAISSANCE.		fest RENAISSANCE
16	Social group activity by	March 2018	Abhyuday group-
	Abhyuday group-Zarurat		zarurat organized an
			event for children,
			some competitions
			were held in JECRC
17	Sports activity during	March 2018	Many sports activities
	RENAISSANCE.		and competitions were
			organized for students
			during annual fest
10			RENAISSANCE.
18	Seminar on entertainment	March 2018	Seminar was held by
	industry by alumnus.		JECRC alumnus on
			entertainment in
10		A 10010	JECRC.
19	An Exhibition by ISRO	April 2018	ISRO conducted
			exhibition in JU,
			students of JECRC
			were participated

JECRC Alumni Activities

Sno	Name of Event	Date	Place of Event
1	Alumni VS Faculty Cricket Match	25/03/2018	JECRC
2	Seminar on Career in Entertainment Industry	12/03/2018	JECRC



3	JECRC Alumni Startup Meet	15/02/2018	JECRC
4	Distinguished Alumni Awards	13/08/2017	JECRC
5	#R17 Let's Hangout	16/03/2017	JECRC
6	#R17 Cricket Match	16/03/2017	JECRC
7	Alumni Panel Discussion Second Edition	11/03/2017	JECRC
8	Career Oriented Interaction with Alumni	11/03/2017	JECRC
9	JECRC Alumni Meet	28/05/2017	Patna, Bihar
10	Reminisce-A Flash from the past	05/03/2017	JECRC
11	Interactive Session with JECRC Alumni	26/08/2017	JECRC
12	JECRC Alumni Meet	11/12/2016	Mumbai-Pune
13	Alumni Meet and Greet Session	29/09/2016	JECRC
14	JECRC Alumni Meet	17/09/2016	NewYork
15	Josh Meets	29/05/2016	JECRC
15	Alumni Treasure Hunt Alumni Panel	22/03/2016	JECRC
	Discussion		
16	Mr. and Ms. Alumni Competition-2016	07/03/2016	E Competition
17	Let's Hangout	01/03/2016	JECRC



CRITERION 10	Governance,	Institutional	Support	and	Financial	120
	Resources					

10. GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

10.1 Organization, Governance and Transparency (40) 10.1.1. State the Vision and Mission of the Institute (5)

(Vision statement typically indicates aspirations and Mission statement states the broad approach to achieve aspirations)

VISION AND MISSION

VISION

To become a renowned centre of outcome based learning and work toward academic, professional, cultural and social enrichment in the lives of individuals and communities.

MISSION

- Focus on evaluation of learning outcome and motivate students to inculcate research aptitude by project based learning.
- Identity based on informed perception of Indian, regional and global needs, the areas of focus and provide platform to gain knowledge and solutions.
- Offer opportunities for interaction between academia and industry.
- Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

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10.1.2. Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)



Self Assessment Report

List the governing, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; and attendance therein, in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed.

The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.



MEMBERS OF GOVERNING BODY

S.No	Name	Post	Address
1	Sh. M.L. Sharma	Chairman	F-30, MAJOR SHAITAN SINGH COLONY, SHASTRI NAGAR, JAIPUR- 302016
2	Dr. Vinay Kumar Chandna	Member Secretary	E-806,Asha Deep Apartment Green Avenue,Jagatpura,Jalpur-302027
3	Dr. Umesh Kumar Pareek	Member	CTS bus stand, Sanganer, Jaipur-302019
4	Sh. Manish Jain	Member	MALVIYA NAGAR 13/22, A, Jaipur-302017
5	Dr. Naveen Hemrajani	Invited from other University	-
6	Nomince from the AICTE	(Ex-officio)	Regional Office, Plot No. 1A, 5th Floor, Building of Directorate of Technical Education & Industrial Training, (Govt. of Punjab), Sector-36A, Chandigarh-160036 Chandigarh
7	An industrialist /Technologist/Educationist from the Region to be nominated by the State Govt./UT.	(Ex-officio)	· · · · · · · · · · · · · · · · · · ·
8	Nominee of the State Govt./UT.	(Ex-officio)	_
9	Dr. Rajesh Singhal, Professor	Member	RTU, Akelgarh, Rawatbhata Road, Kota
10	Indovision Services Pvt. Ltd. Authorized Huawei Network Academy Partner (HIT)	Member (Invities)	3 rd floor, Centrum Mall, Khasra Number 369, MG Road, Sultanpur, New Delhi
11	Wadhwani Operating Foundation	Member (Invities)	Four Main Street, Suite 120, Los Altos, CA 94022
12	Forsk Technologies Private Ltd.	Member (Invities)	# M-5, Software Building, IT Park, Industrial Area EPIP, Sitapura, Jaipur
13	CADD Centre Training Services Pvt. Ltd., Chennai	Member (Invities)	Local office – 106-107, Mahima Majesty, Ram Gali No. 6, Raja Park, Jaipur

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		Qualification	Designation
S.No.	Name	B.Com., FCA	Chairman
1.	Mr. Om Prakash Agrawal	B.A. (Hons.)	Vice-Chairman
2.	Mr. Mohan Lal Sharma	B.Com., L.L.B., CAIIB,	Secretary
3.	Mr. Sohan Lal Agrawal	Acharya (Vastu)	
		M.Sc.	Treasurer
4.	Mr. Ram Avatar Jain	B.Com	Member
5.	Mr. Amit Agrawal	B.Com.	Member
6.	Mr. Arpit Agrawal	Ph.D.	Member
7.	Dr. Puran Chand Agrawal	111.0.	Nominee
8.	All India Council for Technical Education, Regional Office (Ex-officio)		Nominee
9.	Rajasthan Technical University (RTU), Kota		Nominee
10.	Director, Technical Education, Government of Rajasthan (Ex-Officio)	- In the second second	. Carriera
1.0	Government of Rajastrian (and a	M.Tech., Ph.D.	Member
11.	Dr. Vinay Kumar Chandna	M.Tech.	Nominee
12.	Mr. Manish Jain	Ph.D. Jering C	Nominee
13.	Ms. Jyoti Thanvi	1	(B)

LIST OF GOVERNING COUNCIL MEMBERS FOR THE YEAR 2016-2017



Self Assessment Report

S.No.	Name	Qualification	Designation
	Mr. Om Prakash Agrawal	B.Com., FCA	Chairman
1.	Mr. Mohan Lal Sharma	B.A. (Hons.)	Vice-Chairman
3.	Mr. Sohan Lal Agrawal	B.Com., L.L.B., CAIIB, Acharya (Vastu)	Secretary
4.	Mr. Ram Avatar Jain	M.Sc.	Treasurer
5.	Mr. Amit Agrawal	B.Com	Member
6.	Mr. Arpit Agrawal	B.Com.	Member
7.	Dr. Puran Chand Agrawal	Ph.D.	Member
8.	All India Council for Technical Education, Regional Office (Ex-officio)		Nominee
9.	Rajasthan Technical University (RTU), Kota		Nominee
10.	Director, Technical Education, Government of Rajasthan (Ex-Officio)		Nominee
11.	Dr. Vinay Kumar Chandna	M.Tech., Ph.D.	Member
12.	Mr. Manish Jain	M.Tech.	Nominee
13.	Ms. Jyoti Thanvi	Ph.D.	Nominee

LIST OF GOVERNING COUNCIL MEMBERS FOR THE YEAR 2015-2016



Functions and Responsibilities

Chairman: Overall Incharge of the College

Principal: responsible for faculty development and research activities; smooth functioning of the institute.

Program Coordinators / HODs: Are responsible for administration and academic activities of their program / departments.

Dean I Year: is responsible for administration and academic activities related to I year.

Dean II Shift: is responsible for administration and academic activities related to II shift.

Maintenance Incharge: is responsible for maintenance related issues in the campus.

- T & P Officer: is responsible for Training and placement related activities in the Campus.

Registrar: Deals with admissions, registration and results of students and all other issues related to students and the Rajasthan Technical University.

Accounts: All issues related to student fees, budget and payment.

Establishment: Deals with all issues related to staff recruitment, increments, promotions, provident fund, gratuity and salary bills etc.

Financial Power Deligation to the Program Coordinators/HODs – impress amount of Rs. 10,000/- is sanctioned to the all Program Coordinators/HODs and on submission of accout further amount is dispursed.

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PRINCIPAL Jaipur Engineration (L'loga & Tomerois) - Logar - 303 905



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NATIONAL SOCIETY FOR ENGINEERING RESEARCH AND DEVELOPMENT, JAIPUR.

10-10-2015

Delegation of powers to the various authorities

The Chairman, JECRC Foundation, and the National Society for Engineering Research and Development, has directed me to convey the delegation of powers to the various authorities working in the NSERD promoted institutions. Our Esteemed Chairman is of the view that the College Principal and the Registrar should have adequate powers so that they are in a position to comply with the requirements of the regulatory and supervising bodies, and conduct day-to-day affairs in a positive and peaceful manner, under their own authority and signatures.

With a view to ensuring smooth and unambiguous functioning of the colleges, viz., Jaipur Engineering College And Research Centre, as also JECRC UDML College of Engineering, the delegated powers / authority are detailed hereunder:

Powers delegated
i) As Head of the Institution, he shall exercise his authority for institution building. He will act as Competent Authority for all Faculty Members and Officer staff and be responsible for overall human resource management, their appointment, utilization, retrenchment, termination, disciplinary action, etc. He will exercise signing powers as Competent Authority.
ii) He will act as superintendent and guide for all items of work related to AICTE, RTU (Affiliating University), UGC, MHRD, Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies.
iii) Establish a climate in which faculty members and the students can develop self-discipline, and promote research.
iv) To formulate the Budget and assess the infrastructural and other requirements well in advance and get the same approved from the Secretary, NSERD before execution.
v) Impress amount of Rs. 1,00,000/- (Rs. One Lakh Only) is also delegated for routine exercise.
a) He shall ant Communication to the
a) He shall act Competent Authority for all office and sub-staff, and exercise signing powers as competent authority for their appointment, atilization, retrenchment, termination, disciplinary action, etc.
b) He shall act as Compliance Officer to fulfill the regulatory guidelines etc. of AICTE, RTU (Affiliating University), UGC, MHRD, Fechnical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies. He shall act as



Self Assessment Report

signing authority in all such matters.
c) The Registrar shall be the custodian of records and property of the college, and be directly responsible to the Director/Principal of the College for the proper discharge of his duties and functions, and exercise such other powers and perform such other duties as may be assigned to him by the Director/Principal.
d) In the absence of Director / Principal, all powers shall vest in Registrar and he shall exercise the authority and signing powers of the Principal including Competent Authority for Faculty Members, etc.

2. This Delegation of Powers will take place with immediate effect.

3. With a view to explaining these powers and clarifying the doubts, if any, a meeting will be held shortly, for which I am directed to request (1) Shri Amit Agrawal (2) Shri Arpit Agrawal (3) Shri M.L. Sharma, Principals and Registrars of both the colleges to attend the said meeting. Convenient date, time and venue of the meeting shall be communicated separately.

 The concerned Principals and Registrars are requested to note the Delegation of Powers and acknowledge receipt.

By Order,

S.L. Agrawal Executive Director JECRC Foundation Jaipur.

Dated : 12th June 2015.





2

Self Assessment Report

Frequency of the Meetings

Jaipur Engineering College & Research Centre

From : Principal Office To : All BOG Members

Noting Reference No. JECRC/02/2017-18

Call of Meeting

Venue: Board Room, Block A

Date & Time May 19, 2018 at 11:00 AM

Agenda:

- 1. Confirmation of minutes of the last meeting during 2015-16
- 2. Annual report of the College for the academic year 2016-17
- 3. Annual report of the College for the academic year 2017-18
- Proposed activities for the new academic year 2018-19
- 5. Any other issues with the permission of the Chair

Members:

S. No	Name -	Post	Address
1	Sh. M.L. Sharma	Chairman	F-30, Major Shaitan Singh Colony, Shastri Nagar, Jaipur- 302015
2	Dr. Vinay Kumar Chandna	Member Secretary	E-806, Asha Deep Apartment Green Avenue, Jagatpura, Jaipur-302027
3	Dr. Umesh Kumar Pareek	Member	CTS bus stand, Sanganer, Jaipur-302019
4	Sh. Manish Jain	Member	Malviya Nagar, 13/22, A. Jaipur-302017
5	Dr. Naveen Hemrajani	Invited from other University	
6	Nominee from the AICTE	(Ex-officio)	Regional Office, Plot No.1A, 5th Floor, Building of Directorate of Technical Education & Industrial Training, (Govt. of Punjab), Sector-36A, Chandigarh
7	An industrialist/ Technologist / Educationist from the Region to be nominated by the State Govt./UT.	(Ex-officio)	
8	Nominee of the State Govt/UT.	(Ex-officio)	
9	Dr. Rajesh Singhal, Professor	Member	RTU, Akelgarh, Rawatbhata Road, Kota
10	Indovision Services Pvt. Ltd. Authorized Huawei Network Academy Partner (HIT)	Member (Invities)	3 rd floor, Centrum Mall, Khasra Number 369, MG Road, Sultanpur, New Delhi
п	Wadhwani Operating Foundation	Member (Invities)	Four Main Street, Suite 120, Los Altos, CA 94022
12	Forsk Technologies Private Ltd.	Member (Invities)	# M-5, Software Building, IT Park, Industrial Area EPIP, Sitapura, Jaipur
13	CADD Centre Training Services Pvt. Ltd., Chennai	Member (Invities)	Local office - 106-107, Mahima Majesty, Ram Gali No. 6, Raja Park, Jaipur

Dr. Vinni Kumar Chandna

04/05/18

Jaipur Engineering (Principal Research County

Tonic Boad, James 303 306



Self Assessment Report

MINUTES OF MEETING

Last meeting of BOG was held on 22/06/2016 in the board room of the College. Following are the action taken on the meeting -

- Graduate Attributes are shared with all concerned Program Coordinators, HODs, Dean I Year, Dean II Shift
- Shortcomings related to placements were taken care of and accordingly tie-ups made with external agencies for preparation for the placements.
- Government job cell was formed with an aim to guide for Government related jobs, preparation for GATE, other competitive examinations etc.
- 4. A placement team has been formed for the placement of students who are not eligible (i.e. they have cleared their degree with back) for the placement. This team is working with a nomingclature of Outreach placement cell with a moto to place such non eligible students.
- Internal Quality Assessment measure has been taken care of viz., the course outcome analysis, gap analysis, content beyond syllabus, lab maintenance, publication, cocurricular activities, moderation of internal papers etc.
- Initiation is taken to establish relation with the industry, in view of the same students are undergoing for training in different areas. MoUs are signed with the industries.
- 7. Activities related to social initiatives were taken care of.
- 8. The related documents submitted to RTU
- As per RTU the QIV points were made available for the year 2016-17 were 616/1000.
 - a. The corrective measures were taken on the same and for the year 2017-18 and the documents were again sent to RTU Kota for inspection.
 - b. On the basis of documents the points will be awarede by RTU and significant improvement has been reported.
 - c. Further, the departments are working on outcome based education and the letter related to content beyond syllabus is sent to the University.

Jaipur Engineering College & Research Center. . Tonk Road, Jaipur - 303 905



Self Assessment Report

Minutes of the meetings

Jaipur Engineering College & Research Centre

From : Principal Office

To: All BOG Members

Noting Reference No. JECRC/02/2017-18/238

Annual Board of Governance Meeting Notice

Academic year 2017-18 is almost over and the new academic year 2018-19 is commencing from July 02, 2018. There is a meeting on May 30, 2018 at 11:00 AM in the Board room of College campus to discuss the following agenda items –

- 1. Confirmation of minutes of the last meeting
- 2. Annual report of the College for the academic year 2017-18
- Proposed activities for the new academic year 2018-19
- 4. Any other issues with the permission of the Chair

All are requested to be present in the meeting.

Copy to -

- 1. Shri M.L. Sharma, Chairman
- 2. Dr. Vinay Kumar Chandna, Member Secretary
- 3. Dr. Umesh Kumar Pareek, Member
- 4. Shri Manish Jain, Member
- 5. Dr. Naveen Hemrajani, Member
- 6. The Hon'ble Vice Chancellor, RTU Kota
- 7. The Member Secretary, AICTE, New Delhi
- 8. Indovision Services Pvt. Ltd. Authorized Huawei Network Academy Partner (HIT)
- 9. Wadhwani Operating Foundation
- 10. Forsk Technology Private Ltd.
- 11. CADD Centre Training Services Pvt. Ltd. Chennai



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PRINCIPAL Jaipur Engineering College & Research Conter Tonk Road, Jaipur - 303 905

25/04/18

Jaipur Engineering College & Research Centre

From : Principal Office	To: All Program Coordinators/HODs

Noting Reference No. JECRC/02/2017-18/269

29/05/18

Minutes of the Meeting

Venue : Board Room – Block A

Date & Time Wednesday; May 30, 2018 at 11:00 AM

Agenda

- 1. Confirmation of minutes of the last meeting during 2015-16 -
- 2. Annual report of the College for the academic year 2016-17
- 3. Annual report of the College for the academic year 2017-18
- 4. Proposed activities for the new academic year 2018-19
- 5. Any other issues with the permission of the Chair

Special invited Guest:

1. Shri Amit Agrawal, Special invited Guest

Members Present:

- 1. Shri M.L. Sharma, Chairman
- 2. Prof. (Dr.) V.K. Chandna, Member Secretary
- 3. Shri Manish Jain, Member
- 4. Dr. Umesh Kumar Pareek, Member
- 5. Dr. Naveen Hemrajani, Invited from other University
- 6. Dr. Sylvester Fernandes, Member (Invitees)
- 7. Shri Rajeev Bhargava, Member (Invitees)

Members absent:

- 1. Dr. Rajesh Singhal, Member (RTU Kota)
- 2. Nominee from the AICTE
- 3. Nominee of the state Govt./UT.
- 4. An Industrialist nominated by the State Govt.
- 5. Shri Deepak Motwani, Member (Invitees)
- 6. Shri Atul Kumar, Member (Invitees)

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Self Assessment Report

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Contd 2/-

	Meeting started at 11:00 AM; following items were discussed -	
ŝ.	in in 1975 . In 1975	
ŝ	 With the permission of the Chair, Dr. Vinay Kumar Chandna, Member Secretary welcomes all the dignitaries. 	
2	2. He read the last minutes of the meeting and further it was approved by the members	
2	unanimously.	
	3. He presents the annual report of the year 2016-17 and 2017-18, following items	
1	were discussed –	
÷.	 a. Vision and Mission of the institute 	
÷	b. 12 points Program outcome	
	c. Decentralization of power – institute's organization chart was discussed. He informed that an amount of Rs. 10,000/- is sanctioned to all the Program	
1	Coordinators/HODs, Dean II Shift, Dean I year, all section incharges to meet out the immediate requirement of the fund. He also clears that on the	
1	submission of account further amount is disbursed.	
1	d. Students' result analysis	
1	 For the placement data; it was made clear that placement percentage is based on unique offers. The data of higher education, engaged with family business, 	
•	startups etc. will be included later.	
	f. Nine MoUs at National level and two MoUs at International level were signed to enhance the students' technical knowledge as per the market requirements.	
	Shri Rajeev Bhargava suggested that we should adopt a process in which these certified courses should be validated by the MSME / University. These	
	certificate courses may be examined by the university if possible it can be	
	 from JECRC University. Member secretary has noted the same for further action. 	
	g. Content beyond syllabus was discussed. Shri Manish Jain informed the	
1	members about the duration of the course. Member secretary informed that these courses are running after the college hours. Students are taking interest	
	in these courses. h. Research Grants from the Govt, agencies and also proposed	
-	FDP/workshop/Seminar during the 2018-19 was discussed in brief. Member	
	secretary informed that proposal of approx. 70 lacs were submitted to the Govt. agencies for conducting the different activities.	
	i. Budget and expenditure discussed in brief. Member secretary made clear that	
	"other then R&D" means academic activities, it is not included research related activities. Shri Amit ji appreciated the R&D activities he pointed out	
	that in the year 2015-16 budget was Rs. 2,50,000/- and in the year 2018-19	
e	(proposed) it rose to Rs. 20,00,000/- it shows that students are taking interest in R&D activities.	
į.	j. QIV rating 2016-17 and 2017-18 was discussed. In the year 2016-17 the score	
	was 616/1000 and after efforts this year it rose to 740/1000. Shri Amit	
	Agrawal asked what is the highest marks so far, member secretary replied it will be checked out.	
	V. COWZITTS	
	V. 600 281110	



Self Assessment Report

k. Member secretary told that faculty members will be motivated for paper publication at international level repute journals.

1. Proposed activities for the coming year were discussed in brief.

- Inputs by the industry
 - a. Dr. Silvester suggested that more budget for the students' R&D activities should be incorporated in more elaborate manner i.e. budget should be clearly mentioned R&D, transportation, other expenditure etc.
 - b. Centre of excellence should be opened 24x7.
 - c. Result oriented training program should be incorporated.
 - d. Shri Rajeev Bhargava suggested development of digital content
 - e. These types of meetings should be twice in a year.
 - f. In next meeting more representatives from the industry should be incorporated.
- 5. The meeting ended with a vote of thanks to the Chair.

Member Secretary



JEERE JAIPS R ENGINEERING COLLEGE. AND RESEARCH CENTRE

То

The Hon'ble Vice Chancellor, Rajasthan Technical University, Rawatbhata Road, Kota.

Ret JECRE/2017-10/589

Subject: Annual Board of Governors Meeting at JECRC Jaipur

Dear Sir.

Annual Board of Governors meeting of Jaipur Engineering College & Research Cenre, Tonk Road, Jaipur is schedule on Wednesday the 30th May 2018 at 11:00 AM in the board Room Block-A, college campus.

You are requested kindly depute University representative for the Annual Board meeting,

Thank you & with regards,

V. Paul

Dr. Vinay Kumar Chandna PRINCIPAL

Jaipur Engineering College & Reservich Ciniter, .Tonk Road, Jaipur - 303 905



Jaipur Engineering College and Research Centre Approximation (CC) & American (CC) JECRC Campus, Shir Ram KI, Nangal, Via Stapura RIICO, Opp. EPIP Gate, Tonk Road, Jaipur 302 022 t. 0141 2770120, 2770232 + 0141 2770803 e: infe@jecromail.com



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Date 18/5/10

Attendance therein

ATTENDANCE OF GOVERNING BODY MEETING

S.No	Name	Post	Signature
1	Sh. M.L. Sharma	Chairman	bergerm -
2	Dr. Vinay Kumar Chandna	Member Secretary	V. @han 398/18
3	Dr. Umesh Kumar Pareek	Member	(who 500
4	Sh. Manish Jain	Member	Alder
5	Dr. Naveen Hemrajani	Invited from other University	A
6	Nominee from the AICTE	(Ex-officio)	
7	An industrialist /Technologist/Educationist from the Region to be nominated by the State Govt./UT.	(Ex-officio)	
8	Nominee of the State Govt./UT.	(Ex-officio)	
9	Dr. Rajesh Singhal, Professor, RTU Kota	Member	
10	Indovision Services Pvt. Ltd. Authorized Huawei Network Academy Partner (HIT)	Member (Invities)	
11	Wadhwani Operating Foundation	Member (Invities)	
12	Forsk Technologies Private Ltd.	Member (Invities)	DR. SYLVESTER PERNANDER
13	CADD Centre Training Services Pvt. Ltd., Chennai	Member (Invities)	RATEEV BURGAVA

The published rules including service rules, policies and procedures



Self Assessment Report

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

1

HAND BOOK

0F

RULES & REGULATIONS

Jaipur Engineering College & Research Centre Sri Ram Ki Nangel, Via-Vatika Tenk Road, Jaipur – 303 905



Self Assessment Report

PROPOSAL FOR INCREMENT / RETENTION BENEFIT

12/02/2018

- 1. It is proposed to provide 3% increment on Basic and AGP.
- It is proposed to provide 2% DA on Basic and AGP each year. Additional DA may be announced if necessary.
- The above proposed increment will have an impact of approximately 4% as compared to previous impact of 4.5%.
- It is proposed to provide additional 3% increment (Basic + AGP) after completion of three years of service at JECRC under following conditions
 - a. Faculty member of Applied Science must have PhD qualification. They are given one year time for the registration and five year time for the completion of PhD there after their benefit may be considered from the date of completion certificate.
 - b. Associate Professor must have PhD qualification. They are given one year time for the registration and five year time for the completion of PhD there after their benefit may be considered from the date of completion certificate.
 - c. Assistant professor must have M.E. / M.Tech qualification. They are given one year time for the registration and three year time for the completion of M.E. / M.Tech there after their benefit may be considered from the date of completion certificate. AND
 - d. At least 50% students must have more than 60% marks in the theory subject's the faculty member is delivering. AND
 - Publish at least one paper in reputed conference / journal during previous year. AND
 - f. If someone leaves the service within one year after availing the benefit, he/she has to deposit the whole amount of benefit before leaving.
- It is proposed to provide two increments (6%) additional increment (Basic + AGP) after completion of five, ten and fifteen years of service at JECRC (taking 1/7/17 as base month and year to all the faculty members) under following conditions
 - Faculty member of Applied Science must have PhD qualification. They are given one year time for the registration and five year time for the completion of PhD there after their benefit may be considered from the date of completion certificate.
 - b. Associate Professor must have PhD qualification. They are given one year time for the registration and five year time for the completion of PhD there after their benefit may be considered from the date of completion certificate.
 - c. Assistant professor must have M.E. / M.Tech qualification. They are given one year time for the registration and three year time for the completion of M.E. / M.Tech there after their benefit may be considered from the date of completion certificate. AND
 - d. At least 50% students must have more than 60% marks in the theory subject's the faculty member is delivering. AND
 - e. Publish at least one paper in reputed conference / journal.



Self Assessment Report

- There will be additional benefit such as Mobile Number may be provided to all the HOD's, TPO's and Mentors of each semester students.
- Faculty members who will complete Five years of service after 1/7/17 and before 31/12/ 17 may be provided retention benefit of 3% in addition to conventional increment only.
- Assistant professors, Associate professors and Professors are provided with 5, 7, 10 days of duty leave respectively for taking examination, attending conference and any other academic assignment as assigned.
- The faculty members who do not qualify criteria 5 for consecutive three years, retention benefits may be withdrawn.
- Faculty member who publish a paper in a reputed conference / journal listed in UGC approved list only will be provided 50% of the registration charges subject to a maximum of Rs. 5000/-(Five Thousand) only.
- In case of promotion the next increment date will be the date of promotion. However, in case of any ambiguity the committee will decide the next increment date.
- 12. These will not be applied to non teaching staff including class IV servants.

Dr. V. K. Chandna



Self Assessment Report

OFFICE OF THE CENTRAL MONITORING COMMITTEE

Promotion Policy

Under the fitment of proposal and increment retention benefit the faculty members are kept in the pay scale AGP of 6000, 7000, 8000 for Assistant Professors, 9000 AGP for Associate Professors. 10,000 AGP for Professors. The change of AGP for one level to another AGP 6000 AGP 7000 after five years, from AGP7000, AGP 8000 after four years and from AGP 8000 to AGP 9000 after three years as per AICTE. Along with the faculty members who wish to promote to AGP 9000 must have minimum qualifications of Ph.D and must appear in front of Selection Committee for the same.

The above benefits will be applicable if the faculty member have at least 50% points out of 200 self appraisal points.



Self Assessment Report

	creation and the second s	best faculty award Total 200 points	120111533	
	e of Faculty Member:		Departm	ent:
Jesi, S.	gnation: Item Name		Maximum	Points
No.	Item Name		Points	obtained
1	Academic result 30 points average (90% students having more than 70% : 30 points, 80-89% students having more than 70% result: 27 points, 70-79% students having more than 70% result: 24 points, 60- 69% students having more than 70% result: 21, 60-69% students having more than 60% result: 18 points, 50-59% students having more than 60% result: 15 points else ZERO)		7	
	Example: Theory Subject Poi	ints obtained		
	Sub-1	30		
	Sub-2	27		
	Sub-3 Sub-4	0		
		75/4 i.e. 18.75		
	No marks for Labs subjects	(3/4 Ld. 10/) 3	×	
 Research Publication 20 points average (1 sci indexed publication: 10 points, 1 publication having ISSN number : 3 points, Else ZERO) Faculty development programme 10 point average (one faculty 			5	
2	development programme 10 point average (one faculty 10 development programme minimum 5 days attended 5 points, 2 points for attending 2 days workshop, subject to maximum of 10)			
4	International / National conference 10 points average (5 points 10 for attending International, 3 points for attending National of repute, 2 points for National conference)			
5	Research grant average 20 points for having grant of more than 5 lakh, if only project submitted to DST/other govt agency: 10 points, subject to maximum 20			
6	Patent 10 points / Product development / startup			
7	New Skills / additional specialization		25	
Incwisting / additional spectalization / certification course Innovation in teaching learning, video lecture, online MOOCs, Online notes uploading, any other 20 points			, 20	
9	Technical activity organized		5	
10 Participation in social responsibility 5 points / activity subjec to maximum of 10			121	
11	subject to maximum of 5		5	
12 Any award received, session chair in conferent invited talk, etc.			50 SNDC	
13				
		Total	200	

Note: HOD will verify the documentary proof.

Signature of Faculty

Signature of HOD



Self Assessment Report

CHAPTER - 1

INTRODUCTION

PREAMBLE:

The courses under Jaipur Engineering College & Research Centre, Jaipur (JECRC) are recognized by the AICTE. The JECRC, Jaipur is affiliated to University of Rajasthan, Jaipur. Being the affiliated institutions, the conditions of services of these institutions are normally governed by the rules framed in this respect by the AICTE/ Rajasthan University / State Government. Additionally, for academic staff the College will also be guided by the relevant rules of the AICTE. Taking this in view, the Jaipur Engineering College & Research Centre, Jaipur has framed a document, which gives the a brief idea of the conditions of service and the benefits attached to the employment etc. Further, the information given in this booklet may be subject to revision from time to time. In addition to the conditions of service, the institutes have made certain procedural guidelines to make the administration more smooth and transparent. These are also included here in this document.

- 1.1 The service conditions shall be applicable to all employees of the Jaipur Engineering College & Research Centre, Jaipur (JECRC). They may be supplemented or amended from time to time based on AICTE/ Affiliating University/ State Government rules. However, the management shall have the right to relax any of the rules.
- 1.2 For any other matters or details relevant to the service conditions of the employees, not specifically covered here, the College shall be guided by the rules, norms and procedures as prescribed by the Rajasthan Government / AICTE/ Rajasthan University from time to time.
- 1.3 Definitions:
 - (a) "Chairman" means the Chairman of the Executive Council
 - (b) "College," means the Jaipur Engineering College & Research Centre, Jaipur / any other college under the domain of Governing Council
 - (c) "Executive Council," means the Executive Body of the college
 - (d) "Funds," means the Funds of the College
 - (e) "Governing Council," means the Governing Body of the college
 - (f) "President," means the President of the Governing Council
 - (g) "Principal," means the Principal of the Jaipur Engineering College & Research Centre, Jaipur
 - (h) "Secretary," means the Secretary of the Governing Council
 - "Society," means the National Society for Engineering Research and Development, Jaipur
 - (j) "Financial Year," means the year commencing from 1st April and closing on 31st March of the next calendar year.
 - (k) "University," means the affiliating University



Self Assessment Report

- Academic Year means period of academic activity from 1st July to 30th June of the next year.
- (m) "Faculty" means a teaching staff of the College
- (n) "Employee" means anybody who has been employed by the College either as 'faculty' or on any post covered under 'other staff'
- (o) "University" means Affiliating University
- (p) "Regular Employee" means the faculty or other staff appointed in the prescribed scales of the post either on probation or confirmed one.
- (q) Ad-hoc employee means appointed on ad-hoc basis for specific period either in the scale or with consolidated salary with specific conditions as shown in the appointment order.

NOTE: For teaching positions, the eligibility will be as per AICTE & the affiliating University norms.



Self Assessment Report

3

CHAPTER - 2

APPOINTMENTS AND ITS TERMS AND CONDITIONS

FACULTY STAFF:

- 2.1 There are various categories of employees at the College. Their salary scales are given separately in this document. Normally, regular appointments particularly as faculty will be made by direct selection by inviting applications through public advertisement. The required qualifications for faculty staff are generally as prescribed by the AICTE.
- 2.2 The regular employees of the institute will be eligible to the Dearness Allowance and other allowances as sanctioned by the BOG of the College from time to time.
- 2.3 The paramount consideration in the appointment or promotion of an employee shall be guided by the desired standards of efficiency, competence and integrity.
- 2.4 Selection and compensation of employees shall be made without distinction as to race, sex, or religion and the same shall be made on competitive basis.

Terms and conditions of appointment

The appointments shall be made subject to the following terms:

2.5 (a) The terms of appointment provide for termination by a notice on either side of one month. If anyone desires to be relieved prior to the completion of the notice period, he/she will be required to pay to the College an amount equal to his / her salary and allowances for the deficient notice period. However, the management will have the right to waive the notice period.

(b) Unless waived in part or in full by the appointing authority, there will be a probationary period for three months. At the end of the probationary period, it may be extended by the appointing authority for a period upto one year. The services of an employee on probation can be terminated without notice and without assigning any reason.

(c) The age of superannuation will be 70 years for the faculty and 62 years for other staff unless extended by the competent authority.

Other service conditions will egenerally agree with the norms and executive instructions of the AICTE / Affiliating University / Rajasthan Government and as amended by the College from time to time.

2.6 An employee shall not without the previous written permission of the Managing Trustee in the case of Director / Principal and in case of teaching and other staff of the Director / Principal respectively be engaged directly or



Self Assessment Report

indirectly in any trade, business or occupation or any other remunerative or non-remunerative work.

2.7 Besides appointments in regular scale, the appointments of the faculty and staff may be made on fixed terms on ad-hoc or contract basis. These appointments will carry a consolidated salary or salary in the scale. Fixed term appointees are eligible for vacation and it is admissible to one who has completed minimum service of one semester. In case a fixed term appointment gets converted into a regular appointment for various terminal purposes, the continuity of service will be reckoned from the date of the commencement of the term of appointment.

2.8 Pay Scales:

(i) Normally, the pay scales of the faculty will be as per the recommendations of AICTE and as approved by the state Government.

S. No.	Category	Pay scales
1	Lecturer	8000 - 275 - 13500
2	Senior Lecturer	10000 - 325 - 15200
3	Assistant Professor	12000 - 420 - 18300
4	Professor	16400 - 450 - 20900 - 500 - 22400

(a) The existing structure of the scales are as under –

2.9 Annual increment will fall due on completion of one year of continuous service.

2.10 Incentives for Higher Qualifications - At the time of recruitment as Lecturers, advance increments may be admissible to those who hold higher degrees as under:

(a) Two increments will be admissible to those Science / Humanities teachers with M. Phil and to those technical faculty with M.E. / M.Tech.

(b) A staff will be eligible for two increments as and when he /she acquires a Ph.D. Degree in his / her service career.

2.11 Career Advancement for faculty

The promotions under Career Advancement Scheme will be as per the guidelines given below. All the promotions in career advancement will be "insitu" basis and therefore the work allocation (teaching load, etc) may remain the same after promotion and additional responsibilities may also be assigned.



Self Assessment Report

4

(C) Professor:

In addition to the sanctioned position of Professors, which must be filled in through direct recruitment through all India advertisements, promotions may be made from the post of Assistant Professor after 10 years of service as Assistant Professor. The selection committee for promotion to the post of Professor will be the same as that for direct recruitment.

Some of the desirable activities of candidates for the post of Professors will be as follows -

(a) Research contribution: books, articles, research papers etc. published (at least four papers in journals required) The best three written contributions of the papers (as defined by her/him) may be sent in advance to the experts to review before coming for the selection. The candidate should be asked to submit these in 3 sets with the applications.

(b) Seminars/ conferences attended: must have attended at least 4 seminars/conferences at national or international level or must have attended summer / winter schools (short-term course) of total duration of 4 weeks.

 (c) Significant contribution to teaching / academic environment / project supervision / sponsored projects / institutional corporate life etc.
 (d) Adequate extension and field outreach activities

(e) Development of course material / monographs

(f) Participation in continuing education programmes

(g) Other academic and administrative contributions

2.12 Career Advancement for Faculty

- (a) Provides for movement of:
 - Lecturer to Senior Lecturer (Senior Scale)
 - (ii) Senior Lecturer to Assistant Professor

(b) Calls for promotion under Career Advancement Scheme: The candidate must have consistently satisfactory performance

Non Faculty

- 2.13 Pay Scales qualifications of other staff:
 - The other staff there will be of two categories viz. (a) technical staff
 (b) administrative / ministerial staff.
 - (ii) The pay scales and qualifications for different technical posts will be on par with AICTE/State Government/ University Rules.
 - Similarly for administrative staff, the same will be on par with university / government rules.



Self Assessment Report

Minimum length of service for eligibility to move into the grade of Senior Lecturer would be four years for those with Ph.D., five years for those with M.Phil, M.Tech and six years for others at the level of lecturer. For eligibility to move into the Grade of Assistant Professor, the minimum length of service as Senior Lecturer shall be five years.

For movement into grades of Assistant Professor and above, the minimum eligibility criterion would be Ph.D. Those without Ph.D. can go upto the level of Senior Lecturer.

An Assistant Professor with a minimum of ten years of service in that grade will be eligible to be considered for appointment as a Professor. The selection committees for Career Advancement shall be same as those for direct recruitment for each category.

The requirement of consistently satisfactory performance appraisal reports shall be the mandatory requirement for Career Advancement from Lecturer to Senior Lecturer and from Senior Lecturer to Assistant Professor.

(A) Senior Lecturer:

A lecturer will be eligible for placement in a senior scale through a procedure of selection, if she / he has:

- (i) Completed 5 years of continues service at the College. However, relaxation of one year and two years respectively, will be given to those with M.Phil, M.E. / M.Tech. and Ph.D.
- Organization of short term course/conference or research publications will be considered an additional qualification.
- (iii) Consistently shown satisfactory performance.

(B) Assistant Professor:

A senior lecturer will be eligible for promotion to the post of Asstt. Professor if she/he has:

(i) Completed 5 years of service in the senior scale

(ii) Obtained a Ph.D. degree or has equivalent published work.

(iii) Made some mark in the areas of research, quality of publications, contribution to education innovation, design of new courses and curricula and extension activities.

(iv) Organization of short term course/conference or research publications will be considered an additional qualification.

(v) Shows consistently good performance.

Promotion to the post of Assistant Professor will be through a process of selection by a selection committee.



Self Assessment Report

Selection Procedure

All the vacancies of faculty staff and other staff will be advertised in prominent newspapers. The selection will be done on competitive merit which shall be judged by a duly constituted selection committee.

NOTE:

The staff members of the College deputed for any training program / conferences/seminar/workshop etc. has to serve the institute at least for one year after completion of training. In case he /she resigns from the post before completion of the one year, the recovery of the salary & other expenses paid to him / her for training /deputation period would be made.



Self Assessment Report

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CHAPTER - 3

HOLIDAYS, LEAVE AND VACATIONS

3.1 Holidays:

The College will observe public holidays in a calendar year as fixed by the competent authority. This will be announced at the end of the previous year.

- 3.2 Vacations:
 - 3.2.1 Faculty Staff are entitled to 45 days vacation in a year provided they have joined the College on or before the 1st of July. The entitlement will be worked on pro-rata basis for faculty staff joining by end of October. A faculty staff joining after October will not be entitled to any vacation during the current academic year.
 - 3.2.2. Total vacation may be broken up in parts like (1) a week around Dipawali, (2) a week in winter and (3) the remaining in Summer.
 - 3.2.3. For non teaching staff, the vacation entitlement in a full year is 30 days. This also may be broken up in three parts like (1) a week around Dipawali, (2) a week in winter and (3) the remaining in Summer.
- 3.3 Leave:
 - 3.3.1 No holidays or leave shall be claimed as a matter of right by an employee except such holidays or leave as are enforceable by law.
 - 3.3.2 Sundays will be normally treated as holidays.
 - 3.3.3 List of possible holidays will be announced in the beginning of the calendar year. However, at times a holiday / Sunday may be declared as a working day on need basis.
- 3.4. Casual Leave:
 - 3.4.1 A faculty staff shall normally be entitled to 15 days casual leave in a year on accrual basis. The accounting period is from 1st of July to 30th of June next year.
 - 3.4.2 A non faculty staff shall normally be entitled to 12 days casual leave in a year on accrual basis. The accounting period is from 1st of July to 30th of June next year.
 - 3.4.3 An employee can normally avail of 1 day's casual leave in a month during the probation period provided that he has at least 20 days of uninterrupted duty record at the college.
 - 3.4.4 Sundays and holidays can be prefixed or suffixed with casual leave after a written request has been made to this effect.



Self Assessment Report

3.4.5 Casual leave shall be permitted on recommendation of the incharge (HOD) keeping in view the interests of the College / Department/ Section as the case maybe.

3.5 Medical Leave

3.5.1 Employees unable to carry out their regular duties due to continuous ill health (for more than 3 months) will not be permitted to continue in service.

3.5.2 Maternity leave shall be admissible to a female employee of this college for a maximum period of 60 days with the following provisions -

- 3.5.2.1 She is a regular employee and has served the College continuously for not less than three years.
- 3.5.2.2 The employee will be eligible for full pay during the leave period.
- 3.5.2.3 The employee shall be given 50% of the total emoluments every month during the period of her absence subject to production of maternity certificate and the balance 50% shall be provided to her in six equal monthly installments after resuming duties.
- 3.5.2.4 The employee under special circumstances arising out of medical complications may be permitted leave without pay for the required period.

3.6 Leave other than specified leave

- 3.6.1 Any employee absenting from duty without proper permission for 6 days will lose the benefit of salary on the following or intervening Sunday and any Holiday in continuity. He/She shall be liable to be dismissed from service if his/her absence from duty persists for 15 days in this manner.
- 3.6.2 Any employee who has been dismissed from service earlier but has been given employment again shall be treated as a new employee and the benefits of the earlier period of service shall automatically lapse.
- 3.7 Academic leave / duty leave
 - 3.7.1 An employee going for attending the work entrusted by the College or for participating in a Conference etc shall be treated as on duty, provided the participation in the Conference has been approved by the College and they produce a certificate of participation on return. Some faculty staff may also be provided TA



Self Assessment Report

& DA and the registration if any may also be cemburse depending upon the length of the service of the employee.

3.7.2 An employee going out of station on duty in connection with College work shall be suitably compensated for his outstation travel and stay.



Self Assessment Report

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CHAPTER-4

PROVIDENT FUND, GRATUITY

4.1 Provident Fund

Every employee of the College shall be entitled for the benefit of Contributory Provident Fund. Some of the important salient features of the scheme are identical to EPF rules.

4.2 Employees State Insurance Scheme

Employee of the College shall be entitled for the benefit of Employees State Insurance Scheme (ESI) as per the Central Government rules.

4.3 Gratuity

The employers of the College will also be eligible for gratuity as per provision of act.

The main components of this benefit are as under:

(1) Gratuity shall be payable to an employee on the termination of his/her employment after he/she has rendered continuous service for not less than five years.

(a) on his/her superannuation or

(b) on his/her retirement or

(c) on his/her death or disablement due to accident or illness

Provided that the completion of continuous service of five years shall not be necessary where termination of the employment of any employee is due to death or disablement.

Provided further that in the case of death of the employee, gratuity payable to him/her shall be paid to his/her nominee, if no nomination has been made, to his/her heirs, and where any such nominees or heirs is a minor, the share of such minor shall be deposited with the controlling authority who shall invest the same for the benefit of such minor in such bank or other financial institution, as may be prescribed, until such minor attains majority.



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CHAPTER - 5

TESTING AND CONSULTANCY RULES

The College staff shall be encouraged to take a consultancy and testing jobs from industry and others R&D agencies on payment basis. They will be permitted to use the infrastructure of the College. The consultancy / testing fee will be apportioned between the consultants and others who make a contribute to it and also to the College.

1) Remuneration to Regular Faculty & Staff:

(a) Testing:

The distribution of total income between the College and the employees will 30:70. The 70% staff distribution is as under as per the institution Rules:

1	The faculty staff		
2	Lab. Technician	65%	
3	Lab. Attendant		
4	Office Staff / Administration staff involved & Dept. Clerk	5%	

(b) Consultancy:

The distribution of total income between the College and the employees will 30:70 but after deducting all expenses.

30% will be retained by the College	After deducting all expenses	
70% distributed amongst the concerned staff		



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CHAPTER - 6

INCENTIVE RULES

Incentive rules have been classified into two categories. These are (i) Performance based and (ii) Time based

6.1 Based on Performance Appraisal

Period of Stay	Performance Appraisal Rating	Proposed Incentive	
After Probation	Excellent	+ one increment/DA increase/BOTH	
After 2 yrs	Very Good/ Excellent	+ one increment/DA increase/BOTH Conf Participation on duty leave + Registration Fee + Basic Travel (city to city)	
After 3 yrs Very Good/ Excellent		+ HRA / DA Increase / BOTH + Conf Participation on duty leave + Registration Fee + Basic Travel (city to city) + B&L + Book allowance (Rs 1000 per year) + Professional Society membership (90%) + Promotional Opportunity	
After 4 yrs	Excellent	As above + Conveyance Allowance (Personal Vehicle) + Medical Allowance / Group Medical Scheme	
After 5 yrs	Excellent	As above + Phone Allowance + Lap Top subsidy (80%) + Contribution to EMI for Car/Housing Loan + LTC + Education Allowance + Gratuity	

Promotional Opportunities:

- (a) Lecturer to Sr Lecturer
- (b) Sr Lecturer to Assistant Professor
- (c) Assistant Professor to Professor

Guidelines:

- (a) Eligibility to be as per AICTE recommendation
- (b) Lecturer to Sr Lecturer promotion on informal appraisal
- (c) Sr Lecturer to Assistant Professor. Through a formal internal appraisal
- (d) Assistant Professor to Professor: Open Competition

Appraisal -

- (a) Academically Sound
- (b) Quality of Teaching (Lectures, Tutorials, Labs)
- (c) Laboratory Development
- (d) R&D



Self Assessment Report

(e) Books and Manuals

(f) Participation in other activities like (i) Placement, (ii) Student Development, (iii) Examination work, (iv) Co-curricular and ECA, (v) Contribution to College/ Industry interaction (vi) College administration ...

6.2 Time Based

S.No.	Items	Remarks
1	Additional Increment	One additional increment in the III year if there has been no promotion / change of designation / salary revision etc.
2	Promotion	A faculty staff joining as a lecturer will be promoted to the post of a Sr. Lecturer in the sixth year if there has been no promotion / change of designation / salary revision etc. Similarly a staff member joining as a Sr. lecturer will be promoted as an Assistant Professor if there has been no promotion / change of designation / salary revision etc.
3	Conveyance	From third year: Conveyance allowance @250/- per month for staff (with salary upto Rs. 20000/- pm) and Rs. 500/- per month (for staff with salary above 20000/-pm)
4	Internet (Staff members have to ask for it)	From third year: Staff members having internet at residence in their own name can claim minimum BSNL rental
5	Conference / Short course etc.	 a. Duty leave will be admissible b. After one year: registration fee will be (eimburse) c. After two years: all above and city to city travel cost will be reimbursed d. After three years: All above and subsidy towards boarding & lodging
6	HRA	To be paid @ 7.5% of basic pay from IV year
7	Book allowance (Staff members have to ask for it)	From third year : Cost of relevant books purchased by faculty to be reimbursed upto Rs. 1000/- PA
8	Education Allowance (Staff members have to ask for it)	From sixth year : 50% of tuition fee for two children. This is restricted to Rs. 500/- per month per child. This further subject to the spouse not claiming this allowance from other organization.
9	Mediclaim	Efforts are being made to cover all the staff through mediclaim policy applicable from third year onwards.



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b. Other Staff (Other than faculty staff)

S.No.	Items	Remarks
1	Additional Increment	One additional increment in the III year it there has been no promotion / change of designation / salary revision etc.
2	Promotion	A staff will be promoted to the next higher post in the sixth year provided there has been no promotion / change of designation / salary revision etc. If next higher post is not existing, suitable increments may be given.
3	Conveyance	From third year: Conveyance allowance @250/- per month for staff (with salary upto Rs. 20000/- pm) and Rs. 500/- per month (for staff with salary above 20000/-pm)
4	Conference / Short course etc.	 a. Duty leave will be admissible b. After one year : registration fee will be reimburse) c. After two years : all above and city to city travel cost will be reimbursed d. After three years: All above and subsidy towards boarding & lodging
5	HRA	To be paid @ 7.5% of basic pay from IV year
6	Education Allowance	From sixth year : 50% of tuition fee for two children. This is restricted to Rs. 500/- per month per child. This further subject to the spouse not claiming this allowance from other organization.
7	Mediclaim	Efforts are being made to cover all the staff through mediclaim policy applicable from third year onwards.



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CHAPTER - 7

Assessment

7.1 Performance Appraisal of Faculty:

The performance of faculty appointed on regular basis will be assessed at two stages viz (a) During Probation and (b) Confirmation

(a) During Probation:

The faculty staff will be required to submit his/her self performance appraisal one weak advance of probation. The HOD will give his own observations as Reporting Officer and the Director or the Principal will review the document.

Depending upon the assessment of the staff, the staff member may be confirmed in his/her position or probation may be extended if necessary. The faculty staff will be informed of the deficiencies when the probation period is extended.

During the period of extension of the probation, the HOD will continuously ebserved the working of the concerned staff member and will suggest ways to improve the performance.

(b) Evaluation after Confirmation:

Even after confirmation, the performance of the faculty shall continuously be monitored on the same lines as in self assessment form. This report will be considered for the benefit to be awarded under career advancement scheme, upward promotion even by direct selection and for other incentives.

7.2 Evaluation of other Staff:

On the similar lines as for faculty, the evaluation of the other staff also will be done. However, the proforma of such evaluation will be different depending upon the nature of the post.



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CHAPTER - 8

CONDUCT RULES

8.1 Code of conduct

- (a) Every employee shall, at all times, maintain absolute integrity and devotion to duty, and also be honest and impartial in his/her official dealings.
- (b) An employee shall, at all times, be courteous in his/her dealings with other members of the staff, students and members of the public.
- (c) Unless otherwise stated specifically in the terms of appointment, every employee is a full time employee of the institute. He/She may be called upon to perform such duties, as may be assigned to him/her by the competent authority beyond scheduled working hours and on holidays and Sundays. These duties shall, inter-alia, include attendance at meetings of committees to which he/she may be appointed by the College or any of its authorities.
- (d) An employee shall observe the scheduled hours of work during which he/she must be present at the place of his/her duty.
- (e) Except for valid reasons and/or unforeseen contingencies, no employee shall be absent from duty without prior permission.
- 8.2 No employee shall, in any radio broadcast or in any document published anonymously or in his/her own name or any other person or in any communication to the press or in any public utterance, make any statement of fact or opinion which has the effect of an adverse criticism of the College.
- 8.3 No employee shall pass any confidential information of the College to any unauthorized person or agency.
 8.4 No employee of the institute shall engage directly or indirectly in any find.
- 8.4 No employee of the institute shall, engage, directly or indirectly, in any trade or business or any private tuition or undertake any employment outside his/her official assignments.
 8.5 An employee who gets involved in some criminal proceedings and the some criminal proceedings.
 - An employee who gets involved in some criminal proceedings shall immediately inform the competent authority through the Head of the Department to which he/she is attached, irrespective of the fact whether he/she has been released on bail or not. An employee who is detained in police custody, whether on criminal charge or otherwise, for a period longer than forty eight hours shall not join his/her duties in the College unless he/she has obtained written permission to that effect from the competent authority.
- 8.6 No employee shall, except with the previous sanction of the competent authority, have recourse to any Court of Law or to the press for the indication of any official act which has been the subject matter of adverse criticism or an act of defamatory character. Provided nothing in this rule shall be deemed to prohibit an employee from vindicating his/her private character or any act done by him/her in his/her private capacity.
- 8.7 (a) Whenever an employee wishes to put forth any claim, or seeks redressal of any grievance or of any wrong done to him/her,he/she must forward his/her



Self Assessment Report

case through proper channel, and shall not forward advance copies of his/her application to any higher authority, unless the lower authority has rejected the claim, or refused relief or the disposal of the matter is unduly delayed. (b) No employee shall be signatory to any joint representation addressed to the authorities for redressal of any grievance or of any other matter.

8.8 An employee shall, regarding imposition of penalties for breach of any of these rules and regarding preference of appeals against any action taken against him/her, be governed by the rules made in this behalf from time to time by the competent authority.

8.9 A faculty staff shall be responsible for the results of the students of the class being engaged by him/her.

This will necessarily mean:

- a) Planning the course of lectures for the entire semester and suggesting suitable text and reference books to the students.
- b) Delivering well prepared lectures with the help of handouts and teaching aids.
- c) Preparing tutorial sheets with representative problems.
- Keeping an up-to-date account of attendance of students
- e) Conducting assessment of students as per the approved policies
- f) Explaining the steps taken to improve the situation / difficulty being faced in performing the duties and offering suggestions, if any, to improve the efficiency.
- g) The department will prepare an academic calendar for the department in conformity with the College calendar. The faculty staff will be following this calendar.
- Punctuality in arriving at the college, engaging classes shall be an important trait of a faculty staff.
- i) Faculty staff shall generally be available to students for discussion and guidance during college hours. The day's work of making attendance, checking answer books and entering and submitting marks and other details shall be completed before he/she leaves the college.
- The faculty staff shall regularly intimate the tutor guardians of the progress of the students. The tutor guardian, in turn, shall call the



Self Assessment Report

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students and try to find out the reasons for poor performance and deficiency in attendance. If necessary the tutor guardian shall inform the parents about the performance of the student and shall also maintain a record of the same.

8.10 Dress Code:

- Male Staff Should preferably wear shirts (no T-shirts) and Trousers (no Jeans). Ties also may be worn.
- Female Staff Should wear sarees.

N.B.

(This Hand Book contains guidelines for smooth functioning of the institute. These are guidelines and should not be interpreted as rules and hence can not be challenged in the Court of Law)



10.1.3. Decentralization in working and grievance redressal mechanism

HEAD OF ACADEMIC PROGRAM / DEPARTMENTS AND ADMINISTRATION

Program/Department/Section	Head
Principal	Prof. (Dr.) Vinay Kumar Chandna
Dean II Shift	Dr. M.P. Singh
Dean – I Year	Prof. Umesh K. Pareek
Dy. Dean – I Year	Dr. Rekha Mithal
Civil Engineering	Ms. Monika Sharma
Computer Science & Engineering	Dr. Bhavna Sharma
Electrical Engineering	Dr. Sandeep Vyas
Electronics & Communication Engineering	Dr. Lokesh Bansal
Mechanical Engineering	Dr. M.P. Singh
Information Technology	Shri Sunil Jangir
Physics	Dr. R.K. Mangal
Chemistry	Dr. Barkha Srivastava
Mathematics	Dr. Ruchi Mathur
English & Humanities	Dr. Mukul Sharma
Management & Administration	
Vice Chairman	Shri M.L. Sharma
Senior Advisor	Shri O.P. Jain
Senior Advisor	Shri P.K. Tiwari
Senior Advisor	Prof. S.N. Gupta
Chief Administrator Officer	Shri P.K. Gupta
Registrar	Prof. (Dr.) Anurakt Williamson
Librarian	Dr. Anita Jain
Sports Officer	Dr. Rajesh Sharma
Chief Hostel Warden	Shri P.K. Gupta
OS Office	Shri Amitabh Gupta
Accounts Officer	Shri Sumit Agarwal Shri Sandesh Pathak

Management committee:

Shri O.P. Agrawal	Chairman
Shri M.L. Sharma	Vice Chairman
Shri Amit Agrawal	Director
Shri Arpit Agrawal	Director

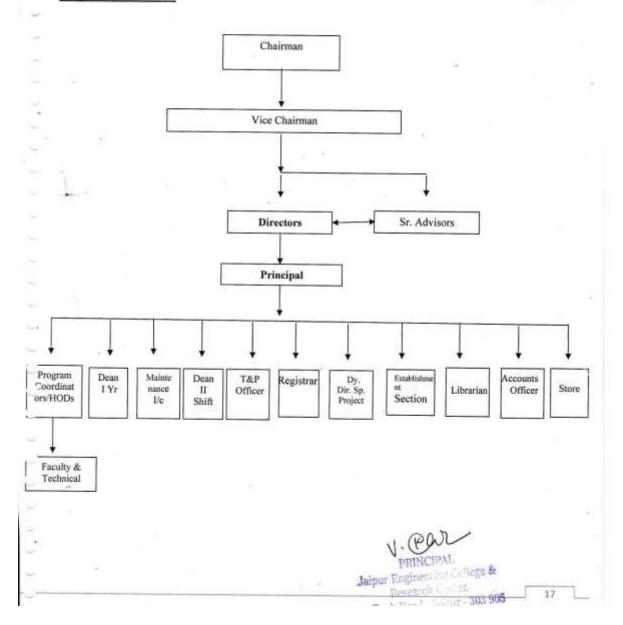


Self Assessment Report

DECENTRALIZATION OF POWER

In the institute power are transferred from Chairman to the lower level, it can be seen in the organization chart.

Organization Chart





Self Assessment Report

Composition of grievance redressal cell including Anti-Ragging Committee & Sexual Harassment Committee

Br, No.	Committee Type	Appolatment Order Reference No.	Date of Appointment	Narrie of the Committee Member	Protession	Address	Associated With	Mobile No.	E-Mail Address	Fax No.
1	OMBUDSMA N	94	25/10/2017	Not Yet Appointed	Not	Not	Not	7442 4731 05	rtu.dir. acad @gma I.com	2473 857
X	Grievance Redressal	94	25/10/2017	MS.RAJ PAREEK	EDUC ATIONI ST	JECRC, SHRI RAM KI NANGAL, VIA SITAPURA RIICO, OPP EPIP GATE TONK ROAD, JAIPUR	JECRC	9982 6829 11	rajpare ek@je crc.ac.i n	2770 803
3	Grievance Redressal	94	25/10/2017	Mr. Ashok Sharma	warden	JECRC, SHRI RAM KI NANGAL VIA SITAPURA, RIIC O, OPP EPIP GATE TONK ROAD, JAIPUR	JECRC	9982 6829 14	ashok @jecrc .ac.in	2770 803
4	Grievance Redressal	94	25/10/2017	MS. YOGITA PUNJABI	EDUC ATION ST	228-A/3 PARVATI NAGAR RAJA PARK JAIPUR	JECRC	9887 0156 52	yogita 234@ gmail.c om	2778 03
5	Grievance Redressal	94	25/10/2017	Dr. Vijay Singh Rathore	Educati onst	s-5, bankers colony oanchyawala jalpur	JECRC	9783 3073 90	vijaydi amond @gma il.com	2778 03
	Grievance Redecseal	94	25/10/2017	Sh. Anshul Mittal	EDUC ATION ST	11 CIMMCO STFF COLONY BHARATPUR RAJ 321001	JECRC	9772 6204 62	anshul .o.mitt al@g mail.co m	2778 03
	Grievance Redressal	94	25/10/2017	Dr. V.K.Chandna	Princip al	A-104,ASHA DEEP,GREEN AVENUE NEAR GYAN VIHAR UNIVERSITY,JA GATPURA,JAIP UR	JECRC	9891 4067 84	princip al@jec romail. com	2770 803
	Grievance Redressal	94	25/10/2017	Shri P K Gupta	Chief Hostel Warde n	170/190, Sector- 17, Pratap Nagar, Jaipur	JECRC	9982 6829 15	muktbi hari.cs e@jec rc.ac.i n	2770 803
	Grievance Rodressal	94	25/10/2017	Dr. Rajesh Sharma	Educati onist	137, Pashim Vihar, Vaishali, Sirsi Road, Jalpur	JECRC	9024 2248 30	shekh awat4 8@gm ail.com	2770 803
,	Grievance Redressal	94	25/10/2017	Dr. U.K.Pareek	educati onist	Near CTS Bus Stand, Vyason Ka Mohalla, Sanganer, Jaipur	JECRC	9785 5066 67	ukpare ek69 @yah oo.co.i	2770 803



Self Assessment Report

S.No.	NAME	DESIGNATION
	OMBUDSMAN (NOT YET)	Member
1.	Shri P.K. Tiwari	Member
3	Shri Manish Jain	Member
3. 4.	Shri P.K. Gupta	Member
5.	Dr. Rajesh Sharma	Member
6.	Ms. Ruchi Mathur	Member
7.	Shri Anshul Mittal	Member

GRIEVANCE REDRESSAL COMMITTEE FOR ACADEMIC YEAR 2016-2017





Self Assessment Report

S.No.	NAME	DESIGNATION
	Shri P.K. Tiwari	Member
	Prof. S.N. Gupta	Member
	Prof, Mukt Bihari	Member
	Prof. S.S. Shekhawat	Member
	Prof. S.N. Jhanwar	Member
-	Prof. Govind Raj	Member
-	Ms. Neha Gupta	Member
	Dr. Seema Joshi	Member
	Prof. U.K. Pareek	Member
	Dr. Anita Jain	Member
0.	OMBUDSMAN (Not Yet)	Member

GRIEVANCE REDRESSAL COMMITTEE FOR ACADEMIC YEAR 2014-2015

S.No.	NAME	DESIGNATION
1.	Shri P.K. Tiwari	Member
2.	Prof. S.N. Gupta	Member
2. 3.	Prof. Mukt Bihari	Member
4.	Prof. S.S. Shekhawat	Member
4. 5. 6.	Prof. S.N. Jhanwar	Member
6.	Prof. Govind Raj	Member
7.	Ms. Neha Gupta	Member
8.	Dr. Seema Joshi	Member
9.	Prof. U.K. Pareek	Member
10.	Dr. Anita Jain	Member
11.	OMBUDSMAN (Not Yet)	Member



Self Assessment Report

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2	Girls 3 8.5	GH-1	Girls Hostal	3 & 13.7	GH-1	Girls Hostel	36 & 21		0	Girls Hostel	Girts 21 & 32	GIR LS HO STE L	GH- 1
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Printed By : ae927181



V. PQU Name & Signature of Director Aningipal Jaipur Ender Peore 23 or 28 Port Road, Jaipur - 303 905



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Application Status: Submitted Application Sub-Status: Payment Received

Report Generated on :-09/02/2018

Sr. No.	Committee Type	Appointment Order Reference No.	Date of Appointment	Name of the Committee Member	Protession	Address	Associated With	Mabile Na.	E-Mail Address	Fax No.
1	OMBUDSMA N	94	25/10/2017	Not Yet Appointed	Not	Not	Not	7442 4731 05	rtu.dir. acad @gma il.com	2473 857
2	Grievance Redressal	94	25/10/2017	Ms.RAJ PAREEK	EDUC ATIONI ST	JECRC, SHRI RAM KI NANGAL, VIA SITAPURA RIICO, OPP EPIP GATE TONK ROAD_JAIPUR	JECRC	9982 6829 11	rajpare ek@je erc.ac.i n	2770 803
2	Grievance Redressal	D4	25/10/2017	Mr. Astok Sharma	warden	JECRC, SHRI RAM KI NANGAL VIA SITAPURA, RIIC O, OPP EPIP GATE TONK ROAD JAIPUR	JECRC	9982 6829 14	ashok @jeoro .ac.in	2770 803
4	Grievance Redressal	04	25/10/2017	MS. YOGITA PUNJABI	EDUC ATION ST	228-A/3 PARVATI NAGAR RAJA PARK JAIPUR	JECRC	9887 0156 52	yogita 234@) gmail.c	2778 03
5	Grievance Redressal	94	25/10/2017	Dr. Vijay Singh Rathore	Educati onst	s-5, bankers colony oanchyawala jalpur	JECRC	9783 3073 90	vijaydi amond @gma il.com	2778 03
6	Grievanco Redrosnaf	04	25/10/2017	Sh. Anshul Mittel	EDUC ATION ST	11 CIMMCO STFF COLONY BHARATPUR RAJ 321001	JECRC	9772 6204 62	anshul .o.mitt al@g mail.co m	2778 03
7	Grievanos Redressal	94	25/10/2017	Dr. V.K.Chandna	Princip al	A-104,ASHA DEEP,GREEN AVENUE NEAR GYAN VIHAR UNIVERSITY,JA GATPURA,JAIP UR	JECRC	9891 4067 84	princip al@jec rcmail. com	2770 803
0	Grievance Rodrossal	94	25/10/2017	Shri P K Gupta	Chief Hostel Warde n	170/190, Sector- 17, Pratap Nagar, Jaipur	JECRC	9982 6829 15	muktbi hari.cs e@jec rc.ac.i	2770 803
9	Grievance Redressal	94	25/10/2017	Dr. Rajesh Sharma	Educati onist	137, Pashim Vihar, Vaishali, Sirsi Road, Jaipur	JECRC	9024 2248 30	n shekh awat4 8@gm ail.com	2770 803
10	Grievance Rodressal	04	25/10/2017	Dr. U.K.Pareek	educati onist	Near CTS Bus Stand, Vyason Ka Mohalla, Sanganer, Jaipur (Raj)-2732271	JECRC	9785 5066 67	ukpare ek69 @yah oo.co.i n	2770 803
iti dan	oging Related	Details Provide ob Rapping Comm	d by the Institut	e		an gold have been provided and	" Pullet	500	- Antile	12717
73	Constitution of A	oti-Rapping Squad	C. C			Yes Yes				_
3.	Appointment of t	ained from all Studi Councelors	ents			Yes Yes				_
	69.02-1	ũ.		- CONSIS	52			~~	-	
	ignature(dd/mm/yyy 1 By : ae927181	v3		Geal of Inst	1.1)	• √ • ame & Signati Jaipil		Dormana nge 24 of 28	



Self Assessment Report

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Application Report - Part 1

Application Status: Submitted Application Sub-Status: Paymont Received

Report Generated on :-09/02/2018



a 7 Anti-	Undertaka	to obtained from	parents of all the stud students staying in He parents of students at d Details	het at		Yes Yes Yes	C/Hest	CERCIT.		-
Sc. No.	Committee Type	Appointment Order reforanco No.	Date of Appointment	Name of the Committee Member	Profession	Address	Associated With	Mobile No.	E-Mail Address	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
'	Anti- Regging Squad	95	25/10/2017	Dr. VINAY KUMAR CHANDNA	EDUCATI ONIST	A/D4, A/SHA DEEP, GREEN A/VENUE, NEAR GYAN VIHAR UNIVERSITY, JAGATPURA, JAIPUR	JECR	98914 06784	principai@ jecromail.c om	-
26	Anti- Ragging Committe e	95	25/10/2017	Dr.U.K.Pareek	EDUCATI ONIST	CTS Bus Stand Vyaso ka Mohaita Sanganer Jaipur 302029	JECR	97855 09667	ukpareek6 9@yahoo. co.in	T
3	Anti- Ragging Committe e	95	25/10/2017	Mr. Anshul Mittal	EDUCATI	A-11, Cimmoo Staff Colony, Bharatpur (Raj)- 321001	JECR C	97725 20462	ansul.o.mit ttal@gmail .com	T
4	Anti- Ragging Committe e	95	25/10/2017	Mr. Ravi Bhatnagar	Transport Incharge	193/313 Pratap Nagar Sanganer Jaipur 302033	JECR C	90241 49459	ravibhatna gar1982@ gmail.com	Ī
5	Anti- Ragging Committe e	95	25/10/2017	SH. O P JAIN	RETD. REVENUE OFFICER	JECRC CAMPUS, SHRI RAM KI NANGAL, VIA SITAPURA RIICO, TONK ROAD, JAIPUR	JECR C	94133 35550	opjain@je crc.ac.in	
a	An8- Ragging Committe e	95	25/10/2017	MS. SHRUTI KALRA	EDUCATI	53-A SCHEME-3 PRATAP NAGAR,NEAR GLASS FACTORY TONK ROAD,JAIPUR	JECR C	94143 71413	strutikaira .ece@jecr c.ac.in	
1	Anli- Ragging Committe	95	25/10/2017	SH. P K GUPTA	CHIEF HOSTEL WARDEN	447, SHANTI NAGAR, DURGAPURA, JAIPUR	JECR C	99826 82475	cao@jeorc .ac.in	Î
	Ans- Ragging Committe e	95	25/10/2017	Dr. M.P. Singh	EDUCATI ONIST	467 SRI RAM VIHAR NEW MAHAL YOJANA JAGATPURA JAIPUR 302017	JECR C	94142 03639	mpsingh_ 76@yahoo .co.in	-
	Anti- Ragging Committe e	95	25/10/2017	MS. RAJ PAREEK	HOSTEL WARDEN GIRLS	JECRC CAMPUS, SHRI RAM KI NANGAL, VIA SITAPURA RIICO, TONK ROAD, JAIPUR	JECR	99826 82911	rajpareek @jeorc.ac. in	
0	Ao8- Regging Committe 0	95	25/10/2017	DR ANITA JAIN	LIBRARIA	D-268, SARVANAND MARG, MALVIYA	JECR C	98292 30353	anita.lib@j ecrc.ac.in	

Date of Signature(dd/nam/yyyy)

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ICIPAL Jaipar Engli Page 26 of 28 OF ege & Range Street of Tonk Roud, Jaipur - 303 905



Self Assessment Report

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Application Report - Part 1

Application Status: Submitted Application Sub-Status: Payment Received

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	1					NAGAR, JAIPUR	1	1			
11	Anti- Ragging Committe e	95	25/10/2017	Ms. Neslam Chaplot	EDUCATI ONST	52 GOVERDHAN COLONY NEW SANGANER ROAD JAIPUR 302012	JECR C	94143 96960	neelam.ch apioti@gm ail.com		
1011030	able Energy	Related Details	Conservation of		BILL STUDIES		Let Bring		A CONTRACTOR		
ir. No.	Total land a	wailable (in Sqrn.)	Part	lculars		and the second states	Det	alls Provid	ded by Instituto		
2	No. of build	inall with roof tons		- United and a second			51204 9	and an others			
3	Annual elec	tricity consumption	(No. of units) during	previous financial	year		740519				
3 4 5	Electricity E	Average rate pe	r unit paid during on	evious financial yea	r (Rs. / unit) &	No. of units used	9				
0	Land availa	Energy, If any, use	ed at present ir photovoltaic panels	Con Courses		and the second second	Yes				
7	Total appro	ximate roof- top ar	na available for placi	(in sqm)	e unnul (in Com	and and the set	8000 10770				
8	A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	oolicy has been ad	opted to use only LE	D lamps ?	e poner (m.equi	Harris and the second	Yes				
9	Remarks		alle and a second second	A ANALY STATE	and an or the state	ALL SCOUTE		HTS ARE	INSTALLED IN		
							THE CO	MPLIS AT	APPROPREIEL		
	acilities		We lot and the second		11 11 P	A CONTRACTOR	PLACES	Contract or a	Post 2.2 10 1 2 2 2000		
II Woat	her Approach	(Motorized	Yes	12	Backup Electr	ic Supply	Yes	and the second se	Carlot of the local division of the		
(beo		- Calle	1		and internet	C 17 1 1 2 2 3 3 1 1 1 1					
RP Sof	ree Environm	ent	Yes		CCTV Security		Yes				
	Insurance				Electric Suppl		Yes				
	web Site		Yes		Group Insurance Insurance for Students Notice Boards						
odicat	& Counselling	facilities	Yes					Yes			
ublic A	lic Announcement System		Yes		Potable Water Supply			Yes			
	anking/ATM	topector a million		lassrooms	Yes						
	no & FAX	EGHTY	Yes		Staff Quarters		No Yes				
	Parking Facili	DY.	Yes		Transport Faci First Aid Facili						
tin Wat	er Harvestine		Yes		Solar Power St		Yes				
ppeinte	nent Of Stude	int Counsolor	Yes		Establishment	Of Anti Ragging	Yes				
tablish 2/ST	mont Of Con	mittee For	Yes	1	Provision to w Courses through		Yes				
divisional.	ntation of Uni		Yes	1	nstitution-Indu	stry Cell:	Yes	-			
10(17976	op par intere	011000):	imum 25 PCs/Lapto	p up to total Intak	e of 1000.Furth	her additional 25	Yes				
foty Pr	oviations inch	uding fire and off	er calamities	1			Yes				
tebilsh	ment of Inter	nal Complaint Co	mmittee (ICC) Com	mittee As per sect	ion 4 of Sexua	Harassment of	Yes	_			
orright a	ment of Gries	Prevention Prob	bition and Redress Committee in the In	ChOC 10 A			Yes				
		Financial Transa	ctions as per MHRD	Directives	The Party		200	_	and the second second		
mpflad	ice of the Net	ional Academic D	oncellos/MADI ac	ner MURD Blandth	105		Yes				
splay 相	card within t	te premises as w	ell as in the Websit	of the Institution	Indicating the	Feedback	Yes				
C11113 301	occoence an	o Faculty Availab	to in the AICTE Well	Portal	and a second second						
olomor	talion of Seb	emes Announced	Act,2006 in the Ins	titution	Part and a state	5 1 1 2	Yes				
melinia d	of Skill Dovulo	omont Courses /	approved by the Co	uncil		and the second second	Yes				
	ion in the Nat	ional Institutions	Ranking Framows	NIDES			Yes				
rtiolpati	in Facility Lat	oratory(FABLAD) Tinkering Laborat	onv/innovation t at	boratory		Yes				
nicatlo	nnoement an	d Environment in	Innovement Measur	ne to Enguro a Qu	intaluable Con	an Campus	Yes				
ticipat nicatio iste Ma	AICTE Appre	the Website of th	OA of subsequent y	oars)obtained sind	ce Inception of	Institution till	Yes				
ticipati micatio iste Ma pilos of e shait	Do placed in	n of Maticanal Dial	tal Library	and the second	A SUM	and the second second	Yes				
rticipation isto Ma plus of e shull plied fo	Monborshi	Colourenal Digi				U.S. W. HA	Yes	_			
clicipation is to fila plos of pliod for ablishe	in Monborshi	e Grievance Redi	Safety and Securit		Contracting 2	the second s	Yes				
rticipat bricatio isto Ma plos of le shall pliod fo tablisti wither il allability	in Monborshi mut of Onlin he institution	e Grievance Red has implemente	Safety and Securit	A had been as a set of the set of		uine aste and					
rticipat bricatio isto Ma plos of le shall pliod fo tablisti wither il allability	in Monborshi mut of Onlin he institution	e Grievance Red has implemente	Sofety and Securit brough sanitary na sanitary napkin thro	A had been as a set of the set of		uring safe and	Yes				
choipat bricatio iste Ma ples of le shall plied fo tablisti ether i ailabilit dronne	or Membershi ment of Oalin he institution y of quality s int_friendly_c	e Grievance Red has implemente mitury napkins Report of used	Safety and Securit	okin vending macl rugh sanitary pape		uring safe and		~	0		
choipat bricatio isto Ma phos of e shall phod fo ablisti ather p allability itrourie	in Monborshi mut of Onlin he institution	e Grievance Red has implemente mitury napkins Report of used 1 G	Safety and Securit	okin vending macl rugh sanitary pape	nines and ense	iring safe and		PQ	2		
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ticipat ricato ste Ma itos of e shall bliod fo stifisti attaci i itabilit ironme e of Sign	Weinbershi which of Onlin he institution y of quality so int friendly of U S. = 0.2 =	e Grievance Red has implemente mitury napkins Report of used 1 G	Safety and Securit	okin vending maci ugh sanitary papa	nines and ense	uring safe and N	Yes me albignat	PQ	tonPrincipal		

.Tonk Roud, Jaipur - 303 905



Self Assessment Report

Application Report - Part 1

Application Status: Submitted Application Sub-Status: Payment Received

Report Generated on :-20/02/2017

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2016-

Fun Grants from UGC	0
Funds/ Grage from Other Bodies	0
Funds/ Grants raised from Othor Sources/ Internal Revenue	7261361
Salary to the Teaching Staff	67120428
Remuneration to Visiting/Guest Faculty	81287
Salary to Non-teaching Staff:	44746952
Library (investments)	308332
Equipment (Investments)	2084357
Building Maintenance Expenses	3828578
Other Expenditure (if any)	253130122

Company/Industry Details

Are you a Company/Industry wishing to set up a new Institute?:	No
Type of Company/Industry:	Not Applicable
Is the company having Minimum 100 Cr Turnover for the last 3 years? (Attach supporting documents):	Not Applicable
Company/Industry PAN Number.	Not Applicable
Company/Industry TAN Number:	Not Applicable
Company/Industry Registered Address:	Not Applicable
Company/Industry Year of Registration:	Not Applicable

Funds/Grants Received Details Data not entered by institute Funds/Grants Received Details (Contd.) Data not entered by Institute

Ombudsman/Grievance Details

Grievance Committee Appointment	Yes	
OMBUDSMAN Appointment	Yes	

Ombudsman Appointment/Grievance Committee Details

Sr. No.	Commi ttee Type (1)	Appointment Order reference Number(2)	Date of Appointme nt (3)	Name of the Committe e Member (4)	Professio n (5)	Addres s (6)	Associated With(7)	Mobile Number (8)	e Mail Address (9)	Fax No. (10)
1	OMBU DSMAN	92	22/07/2015	Not Yet Appointed	Not	Not	Not	7442473 105	rtu.dir.ac ad@gma il.com	2473857
2	Grievan ce	92	10/10/2016	Dr. U.K.Paree	educationi st	Near CTS	JECRC	9785506 667	ukpareek 69@yah	2770803

Date of Signature(dd/mm/yyyy)

Name & Signature of Director/Principal

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Seal of Institute

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Self Assessment Report

Application Report - Part 1

Application Status: Submitted Application Sub-Status: Payment Received

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	Redres			k		Bus Stand, Vyason Ka Mohalla , Sangan er, Jaipur (Raj)- 273227 1			oo.co.in	
3	Grievan ce Redres sal	92	10/10/2016	Ms. PARUL TYAGI	EDUCATI	54/60, Mansar ovar, Near Ryan Public School, Jaipur (Raj)	JECRC	9772970 343	tyagi.par ul62@g mail.com	2770803
4	Grievan ce Redres sal	92	10/10/2016	Ms.RAJ PAREEK	EDUCATI ONIST	JECRC, SHRI RAM KI NANGA L,VIA SITAPU RA RIICO, OPP EPIP GATE TONK ROAD,J AIPUR	JECRC	9982682 911	rajpareek @jecrc.a c.in	2770803
5	Grievan ce Redres sal	92	10/10/2016	Mr, Ashok Sharma	warden	JECRC, SHRI RAM KI NANGA L VIA SITAPU RA,RIIC O,OPP EPIP GATE TONK ROAD,J AIPUR	JECRC	9982682 914	ashok@j ecrc.ac.i n	2770803
3	Grievan ce Redres sal	92	10/10/2016	Dr. V.K.Chand na	Principal	A- 104,AS HA DEEP, GREEN AVENU E NEAR GYAN VIHAR UNIVE BODDI UNIVE RSITY,	JECRC	9891406 784	principal Øjecrcm ail.com	2770803

Date of Signature(dd/mm/yyyy)

Seal of Institute

Name & Signature of Director/Principal

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Application Report - Part 1

Application Status: Submitted Application Sub-Status: Payment Received

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			_			JAGAT PURA,J AIPUR				
7	Grievan ce Redres sal	92	10/10/2016	Shri Manish Jain	Educationi st	102, Anukam pa Aptt., Trimurti Marg, Malviya Nagar, Jaipur	JECRC	9460124 570	sngupta @jecrc.a c.in	2770803
8	Grievan ce Redres sal	92	10/10/2016	Shri P K Gupta	Chief Hostel Warden	170/190 , Sector- 17, Pratap Nagar, Jaipur	JECRC	9982682 915	muktbiha ri.cse@je crc.ac.in	2770803
0	Grievan ce Redres sal	02	10/10/2016	Dr. Rajesh Sharma	Educationi st	137, Pashim Vihar, Vaishali , Sirsi Road, Jaipur	JECRC	9024224 830	shekhaw at48@g mail.com	2770803
10	Grievan ce Redres sal	92	10/10/2016	Ms. NEELAM CHAPLOT	Educationi st	"52, Goverd han Colony, New Sangan er Rosd, Sodala, Jaipur (Raj)"	JECRC	9414396 960	neelam.c haplot@ gmail.co m	2770803
11	Grievan ce Redres sal	92	10/10/2016	Shri Anshul Mittal	Warden	1/1305, Malviya Nagar, Jaipur	JECRC	9829740 762	govindraj @yahoo. co.in	2770803

Anti-Ragging Related Details Provided by the Institute

Constitution of Anti-Ragging Committee	Yes
Constitution of Anti-Ragging Squad	Yes
Undertaking obtained from all Students	Yes
Appointment of Counselors	Yes
Undertaking obtained from parents of all the students	Yes
Undertaking obtained from students staying in Hostel	Yes
Undertaking obtained from parents of students staying in Hostel	Yes

Anti-Ragging Committee/Squad Details

Sr.	Commi	Appointment	Date of	Name of	Professio	Address	Associated	Mobile	Fax	eMail Address
	1				1	1.11	2011			A Dealers
Signa	ture(dd/mm	(עעעי	N	And Be	100					

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No.	ttee Type (1)	Order reference Number(2)	Appointm ent (3)	the Committe e Member (4)	n (5)	(6)	With(7)	Number (8)	No (9)	(10)
1	Anti- Raggin g Squad	92	10/10/201 6	Dr. VINAY KUMAR CHANDN A	EDUCATI	A/04, ASHA DEEP, GREEN AVENUE , NEAR GYAN VIHAR UNIVER SITY, JAGATP URA, JAIPUR	JECRC	98914067 84	277 080 3	principal@jecrc mail.com
2	Anti- Raggin g Commit tee	92	10/10/201 6	SH. MUKT BIHARI	EDUCATI ONIST	170/190 SECTOR 17,PRTA P NAGAR JAIPUR	JECRC	99826829 15	277 080 3	muktbihari@jec rc.ac.in
3	Anti- Raggin g Commit tee	92	10/10/201 6	Mr. Anshul Mittal	EDUCATI ONIST	A-11, Cimmco Staff Colony, Bharatpu r (Raj)- 321001	JECRC	97726204 62	277 080 3	ansul.o.mittal @gmail.com
4	Anti- Raggin g Commit tee	92	10/10/201 6	SH. O P JAIN	RETD. REVENUE OFFICER	JECRC CAMPU S. SHRI RAM KI NANGAL , VIA SITAPU RA RIICO, TONK ROAD, JAIPUR	JECRC	94133355 50	277 080 3	opjain@jecrc.a c.in
5	Anti- Raggin 9 Commit tee	92	10/10/201 6	MS. SHRUTI KALRA	EDUCATI ONIST	53-A SCHEM E-3 PRATAP NAGAR, NEAR GLASS FACTOR Y TONK ROAD,J AIPUR	JECRC	94143714 13	277 080 3	shrulikalra.ece @jecrc.ac.in
6	Anti- Raggin g Commit tee	92	10/10/201 6	SH. P.K. GUPTA	CHIEF HOSTEL WARDEN	447, SHANTI NAGAR, DURGA PURA, JAIPUR	JECRC	99826824 75	277 080 3	cao@jecrc.ac.i n

Date of Signature(dd/mm/yyyy)

Seal of Institute

Name & Signature of Director/Principal

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7	Anti- Raggin g Commit tee	92	10/10/201 6	SH. MANISH JAIN	EDUCATI ONIST	13/22-A, MALVIY A NAGAR, JAIPUR	JECRC	92146996 47	277 080 3	manish_jecrc@ yahoo.com
8	Anti- Raggin g Commit tee	92	10/10/201 6	MS. RAJ PAREEK	HOSTEL WARDEN GIRLS	JECRC CAMPU S, SHRI RAM KI NANGAL , VIA SITAPU RA RIICO, TONK ROAD, JAIPUR	JECRC	99826829	277 080 3	rajpareek@jecr c.ac.in
9	Anti- Raggin 9 Commit tee	92	10/10/201 6	DR. ANITA JAIN	LIBRARIA N	D-268, SARVAN AND MARG, MALVIY A NAGAR, JAIPUR	JECRC	98292303 53	277 080 3	anita.lib@jecrc. ac.in
10	Anti- Raggin 9 Commit tee	92	10/10/201 6	SH. R. P. JAIN	OFFICE SUPRINT ENDRNT	6/418, MALVIY A NAGAR, JAIPUR	JECRC	96360795 50	277 080 3	rpjain@jecrc.ac .in

Renewable Energy Installation Details/Conservation of Energy

Total land available (in Sq. mts.)	51204
No. of buildings with roof tops	9
Annual electricity consumption (No. of units) during previous financial year	623237
Electricity Bill-Average rate per unit paid during previous financial year (Rs. / unit) & Number of units used	9
Renewable Energy, if any, used at present	Yes
Renewable Energy Type(solar/Wind/Tidal/etc)	Solar base water heating system is installed at roof top at the hostel. There are 9 such unit available in the premises.
Land available for placing solar photovoltaic panels (in sq. mts.)	5000
Total approximate roof- top area available for placing solar photovoltaic panel (in sq.mts.)	9577
Whether a policy has been adopted to use only LED lamps ?	Yes
Remarks	LED LIGHTS ARE INSTALLED IN THE COMPUS AT APPROPREIED PLACES

Date of Signature(dd/mm/yyyy)

Name & Signature of Director/Principal

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Self Assessment Report

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE,

(SHRI RAM KI NANGAL, VIA SITAPURA RIICO, OPP.EPIP GATE, TONK ROAD, JAIPUR-302022)

13.10.2015

OFFICE ORDER

Students' & Hostellers Grievance Redressal Committee

With a view to redressing the grievances of the students and the hostellers, Committee consisting of the undernoted members is constituted:

S.NO.	NAME	POST	MOBILE NO.		
1	Sh. P.K. Tiwari, (Sr. Advisor)	Chairman	9829044224		
2	Prof. Dr.V.K. Chandna	Co-Chairman	9891406784		
3	Prof. Dr.U.K. Pareek	Secretary	9785506667		
4	Prof. Dr.Jyoti Thanvi	Member	9772781250		
5	Sh. Manish Jain	Member	9214699647		
6	Sh. Mukesh Agarwal	Member	9214044474		
7	Sh. Sunil Jangir	Member	9251039749		
8	Ms.Jisha Vargise	Member	9784468656		
9	Ms. Parul Tyagi	Member	9772970343		
10	Sh. R.S.Agarwal	Member	9460117479		
11	Ms.Raj Pareek	Member	9982682911		
12	Dr. Rajesh Sharma	Member	7877546888		
13	Sh. K.B.Pareek	Member	9982682909		
14	One Invited member				

The committee will meet every second and forth Wednesday from 3:15 PM To 4:00 PM to hear the complaints of students and also look into the arrangements of hostels.

PRINCIPAL



Self Assessment Report

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE, (SHRI RAM KI NANGAL, VIA SITAPURA RIICO, OPP.EPIP GATE, TONK ROAD, JAIPUR-302022

Anti Raging Committee

An anti raging committee to prevent raging is the JECRC Campus has been constituted, following are the members of the anti raging committee.

-		POST	MOBILE NO.
S.NO.	NAME		9413335550
1	Sh. O.P.Jain	Chairman	9414279663
2	Sh.M.L.Sharma	Vice-Chairman	9891406784
3	Dr. V.K.Chandna	Principal	The second se
4	Sh. P.K.Tiwari	Sr. Advisor	9772524494
5	All Programme-Co- Ordinators	All HOD's	
(14)	A REAL PROPERTY AND A REAL	Registrar	9460117479
6	Sh.R.S.Agarwal	Chief Administrative Officer	9982682475
7	Sh.P.K.Gupta	Chief Co-Ordinator(Ist Year)	9772781250
8	Dr. Jyoti Thanvi		9636079550
9	Sh.R.P.Jain	Office Superintendent	9982682909
10	Sh.K.B.Pareek	Chief Warden	
11	Dr.Anita Jain	Chief Librarian	9829230353
-	Dr. U.K.Pareek	Member	9785506667
13		Member	8952934577
14	Sh.L.Senthil	wientoer	

(Chairman)

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Self Assessment Report

OFFICE OF THE CENTRAL MONITORING COMMITTEE

JECRC Campus, Shri Ram Ki Nangal, Via-Sitapura, Near Sanganer Sadar Thana, Tonk Road, Jaipur-302022

8-8-18

MINUTES OF THE MEETING HELD ON 26/07/2018 TO CURB THE MENACE OF RAGGING

A) Meeting was held on 26th July 2018 in JECRC campus at 15 hours. The agenda of meeting was to curb the menace of ragging in College campus. The following were present: -

- 1. Shri M.L. Sharma, Vice-Chairman
- 2. Prof. S.N. Gupta, Senior Advisor
- Shri R.S. Agarwal, Director ABD
- Dr. Anurakt Williamson, Registrar
- 5. Dean I Year
- 6. Dean II Shift
- 7. Shri Anshul Mittal
- Shri P.K. Gupta Chief Administrative Officers/Chief Warden and other Wardens
- 9. All Heads of the Departments
- 10. All Administrative Heads
- 11. Shri Malli Ram- Security Guard
- B) <u>Agenda of the Meeting</u>: The meeting was held specifically for the purpose of having discussion to curb the menace of ragging in our institutions and also to keep the campus ragging free as was being done in previous years
- C) 1. Shri M.L. Sharma, Vice-Chairman of this committee first welcomed all the participants, thanked all the members for refrain the campus ragging free, as no case of ragging was reported to the Central Monitoring Committee. He also mentioned that today's news in News Paper that ragging cases were doubled in past all over the country.
 - In the Meeting, the discussions were made in details pertaining to features of the Regulations framed by the UGC and as directed by the Raghavan Committee constituted by the Hon'ble Supreme Court. The members discussed the following main points.
 - a) Constitute of Anti Ragging & Anti Ragging squads, Monitoring Cell & Disciplinary Committee.
 - b) Obtaining undertakings from Students & Parents.



Self Assessment Report

OFFICE OF THE CENTRAL MONITORING COMMITTEE JECRC Campus, Shri Ram Ki Nangal, Via-Sitapura, Near Sanganer Sadar Thana, Tonk Road, Jaipur-302022

- c) Security in Campus & Busses.
- Preparation and display of Posters in Campus, Mr. Anshul Mittal was asked to help in preparation of some effective display.
- e) Duties & responsibilities of Hostel Wardens and coordinators particularly during the first quarter of the session.
- f) Holding Meetings, Seminars, Joint sensitization programmes involving students, faculty, parents, guardians, District authorities.
- g) Notices with telephone numbers of important persons to be used by students in case of ragging.
- h) Identifying vulnerable places in the campus.
- Dr. U.K. Pareek suggested that more alertness is required at recess period. Dr. Barkha Srivastava, Dr, Lokesh Bansal, Dr. Seema Joshi, Shri Atul Kulshreshtha, Shri Ashok Sharma-Warden, and Shri Malli Ram also gave suggestions to make the campus ragging free.
- 4. The Registrar informed the members that posters have already been displayed in the campus, committees have been formed, UGC's guidelines & Supreme Courts directions have been included in the prospectus & vulnerable places have been identified.
- 5. The Registrar also expressed his views to take precautions before misshaping with new-comers and stressed on the point that every staff member whether he/she included in Anti Ragging squad or not should take appropriate action if he/she finds any kind of harassment with junior students. Efforts should be made that not even a single case of ragging occurs in any circumstances. Vice Chairman Shri M.L. Sharma added that there should be in this context some extent of the balanced view approach should be adopted.

In hostels, the deputed faculties must render their duties especially in night shift sincerely and counsel both first year and senior class students. Self Assessment Report Page 434



a)

OFFICE OF THE CENTRAL MONITORING COMMITTEE JECRC Campus, Shri Ram Ki Nangal, Via-Sitapura, Near Sanganer Sadar Thana, Tonk Road, Jaipur-302022

- b) At main gate, the security guard must maintain incoming and outgoing students register for new admitted students who avails hostel facility specially in the evening time.
- 6. All the discussions made in the meeting were taken as approved.
- 7. In the end Shri M.L.Sharma, Vice-Chairman, Anti-Ragging Committee thanked all the members for their active participation. In concluding remarks he stated that we have to be more vigilant particularly for the vulnerable positions, so identified, including Hostels and cafeteria. He further observed that for involvement of a student in ragging, we may punish him, but more important thing was to prevent such incidents.

OREN S

-8-18

Prof. (Dr.) A. Williamson Registrar Jaipur Engineering College and Research Centre

Copy to: -

- 1. Shri M.L. Sharma, Vice-Chairman
- 2. Shri Amit Agrawal, CMD,
- 3. Shri Arpit Agrawal, Director
- 4. Shri P.K. Tewari, Senior Advisor
- 5. Dr. V.K. Chandna, Principal
- 5. Registrar, JECRC, Jaipur
- 6. Shri P.K. Gupta, Chief Administrative Officer/Chief Warden



Self Assessment Report

JECRC

Notice No-Date - 27/07/2018

ANTI RAGGING ORGANISATION

Sh. O.P. Jain Sh. P.K. Tiwari Prof. U. K. Pareek Chairman Chief Mentor Chief Proctor

A. Anti-ragging committee -

The team of staff members specified for a particular zone shall take regular rounds of zone and shall maintain complete vigilance for the prevention of ragging in the areas under their control. They will maintain regular report of their observations. Ragging incidents if any, shall be reported immediately to the under mentioned for further action at their following mobile numbers-

Prof. U.K. Pareek Chief Proctor Sh. P.K. Gupta C.A.O Prof. M. P. Singh Proctor 9785506667 9982682475 9414203639

S. No.	Name	Phone No.	Zone	Control Area
1	Sh. Gajendra Sharma (In-charge) Sh. Amit Mithal Sh. Pradeep Sharma Sh. Vikas Sharma Sh. Veni Madhav Sharma Mr. Teekam Singh		A	Police station to college main gate Reporting time 8.00 AM
2	Ms. Neelam Choudhary (In-charge) Sh. Prahlad Sharma Ms. Geetika Gautam Sh. Ashish Ameria Sh. Arihant Jain		В	Main gate to cycle stand and porch
3	Dr. Manish Srivastava (In-charge) Sh. Kuldeep Sharma Sh. Rajendra Gupta Sh. Lalit Sharma Sh. Narendra Singh		с	Canteen, Café Block & D Block
4	Sh. Ashok Sharma (In-charge) Ms. Sanjay Devi Dr. Rajesh Sharma Ms. Yogita Panjabi		D	Hostel to Block-A
5	Sh. S.S. Manaktala (In-charge) Sh. Ram Singh Dr. Rajesh Sharma Sh. Honey Agarwal Sh. Sandeep K. Dotiya Sh. Ashish K. Kulshrestha		Е	Hostels to B Block and Hostels to C Block
6	Dr. Bhuvnesh Bhardwaj (In-charge) Dr. Manish Srivastava Sh. Anil Jain Sh. Devendra Sharma Sh. Hemant Vashisth		F	Electrical & Electronics and Block B
7	Ms. Manju Vyas (In-charge) Ms. Shikha Maheshwari Ms. Richa Sharma Ms. Sarita Sh. Tovindra Kumar Sahu Sh. Sachin Gupta		G	Block -A



Self Assessment Report

8	Dr. Rajesh Bhatija (In-charge) Sh. Ravi Kumar Jangir Sh. Aashish Nagpal Sh. Mangi Lal Ms. Ritu Vyas Sh. Hanuman Pd.	н	Playground & field, Canteen and around
9	Ms. Sheela Soni (In-charge) Ms. Neha Singh Ms. Sonali Chadha Ms. Parul Tyagi	I	Area near Girls Hostel
10	Dr. Anita Jain (Incharge) All other library staff	J	Library – 1
11	Mr. Kamlesh Choudhary (In-charge) Ms. Monika Sharma Mr. Amit Mittal Mr. Jitesh Kumar Jain All Library-3 staff (block C)	к	Block C - Basement Floor
12	Dr. Rekha Mithal (In-charge) Ms. Barkha Srivastava Ms. Sarita Poonia # Sh. Dilip Parjapta Sh. Jitendra Gupta	L	Block C – Ground Floor
13	Dr. Seema Joshi (In-charge) Dr. R.K. Mangal Dr. S. K. Dixit Dr. Tripti Gupta Dr. Poonam Gupta	м	Block C – First Floor
14	Sh. Shiv Shankar Sharma (In-charge) Dr. S. K. Singh Mr. Vishal Sagtani Ms. Rekha Vijay Sh. Piyush Gautam Dr. Sunil Srivastava	N	Block C – Second Floor
15	Sh. Sunil Jangir (In-charge) Ms. Kusum Yadav Mr. Naveen Kumar Kedia Sh. Manoj Pathak	0	Block C – Third Floor
16.	Jitendra Sharma (In-charge) Raj Kumar Jain Ashish Sharma Devesh Gupta	-	Near Shiv Temple, Tea Stall, outside the JECRC main gate.
17.	Yogesh Dubey (In-charge) Shrikant Bansal Abhay Bhatt Man Mohan		Block D

Notwithstanding the above, it is expected from all teaching faculty and other staff members that if they come across any incident of harassment of the new comers they shall intervene immediately and try to prevent RAGGING. The matter may also be brought to the notice of the above.





Self Assessment Report

Notes:-

- I. Every faculty member should ensure proper handing over of the class to the next faculty member. He/ She should not leave the class without a proper supervision and presence of faculty member.
- The nearest HOD of the area should ensure one of the faculty members of the area is always present in verandas to maintain discipline.
- 3. All institute staff should invariably wear their I-cards.

The wardens of the hostels should ensure that all 1st semester students leave the hostels everyday by 8.25 AM positively and preferably in one group.

Anonymous random surveys have been planned in different zones. The proctors, mentors and others will also be meeting each section of 1st year classes at least once in a fortnight.

Anti-ragging Committee Session 2018-19

S.No	Name	Designation	Mobile No.
1.	Dr. U.K Pareek	Chief Proteter	09785506667
2.	Ms. Bhawana Sharma	Proctor	09214465405
3.	Mr. Anshul Mittal	Proctor	09772620462
4.	Ms. Shruti Kalra	Proctor	09414371413
5.	Dr. M.P Singh	Proctor	09414203639
6.	Dr. Anita Jain	Chief Librarian	09829230353
7.	Ms. Roopsi Singh	Warden Girls Hostel	08601436125
8.	Mr. Ravi Bhatnagar	Transport In charge	09024149459
9.	Sh. PK. Gupta	Chief Warden/C.A.O	09982682475

Dr. A. Williamson, Registrar 08209270915

Copy to -

- 1. Vice Chairman, Director, All concerned
- 2. All HOD, Librarian A & C Block.
- CAO/Chief Warden with a request to get the above notice circulated among all the staff members working under their control.



Self Assessment Report

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essage

ice Suptd. JECRC <os@jecrc.ac.in>

Sat, Aug 18, 2018 at 3:49

hodcse <hod.cse@jecrc.ac.in>, HoD IT <hod.it@jecrc.ac.in>, hodme <hod.me@jecrc.ac.in>, Hodee od.ee@jecrc.ac.in>, hodce <hod.ce@jecrc.ac.in>, hodchem <hod.chem@jecrc.ac.in>, hodmaths id.maths@jecrc.ac.in>, hodeh <hod.eh@jecrc.ac.in>, hodphy <hod.phy@jecrc.ac.in>, hodece <hod.ece@jecrc.ac.i "p.k. Gupta" <cao@jecrc.ac.in>, Registrar JECRC <registrar@jecrc.ac.in>, Principal JECRC incipal@jecrcmail.com>, Librarian JECRC <librarian@jecrc.ac.in>, "U.K. Pareek" <ukpareek.math@jecrc.ac.in>

ear Sir/Madam,

lostel night duty from 21.08.2018 to 10.09.2018 is being enclosed for information and needful.

egards mitabh Gupta

JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE

Circular No. 11 8.08.2018

CIRCULAR

ollowing faculty members will also perform the night duty from <u>8 PM to 9 AM</u> as per the date nentioned below. They will visit the hostel mess during this period and will take meal in th espective hostel. They will report to Chief Hostel Warden -

Date	Day	Girl's Hostel	Boy's Hostel
21.08.2018	Tuesday	Ms. Shikha Maheshwari, CSE	Mr. Anoop Kumar Mehta, CSE Mr. Hetram Sharma, Civil
22.08.2018	Wednesday	Ms. Nida Khanam, Civil	Mr. Bhoopesh Kumawat, ECE Mr. Manish Pal,EE
23.08.2018	Thursday	Ms. Sonali Chadha, EE	Mr. Satyendra Kumar , ME Mr. Brijesh Kumar Singh, IT
24.08.2018	Friday	Ms. Ruchida Barman, E&H	Mr. Akhil Maheshwari, Civil Mr. Sachin Gupta, CSE
25.08.2018	Saturday	Ms. Deepika Bansal, IT	Mr. Shailendra Srivastava, EE Mr. Jitendra Kumar Sharma, ECE
26.08.2018	Sunday	Dr. Rekha Mithal, Chemistry	Mr. Ravi Yadav, ME Mr. Narendra Sipani, Civil
27.08.2018	Monday	Ms. Palak Jindal, ME	Mr. Pradeep Sharma, CSE Mr. Nikhil Jain, ME

Imail accords com/mail/u/0/2ui=2&ik=33998498f2&isver=TKereZPtSMY.en.&cbl=gmail_fe_180822.12_p2&view=pt&q=night%20duty&qs=tru...



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28.08.2018	Tuesday	Ms. Geetika Gautam, CSE	Mr. Vikas Mishra, ECE Mr. Sunil Kumar Sharma, EE
29.08.2018	Wednesday	Dr. Vinita Mathur, ECE	Mr. Taj Bahadur Singh, ME Mr. Shashi Kant Singh, CSE
30.08.2018	Thursday	Dr. Sarita Poonia, Maths	Mr. Satya Prakash Saini, ME Mr. Prateek Kumar Sharma, Civi
31.08.2018	Friday	Ms. Yogita, ECE	Mr. Shailesh Arrawatia, CSE Mr. Ashish Boiradia, Civil
01.09.2018	Saturday	Ms. Richa Upadhyay, CSE	Mr. Pravin Kumar Sharma, CSE Dr. Sunil Kumar Srivastava, Maths
02.09.2018	Sunday	Ms. Rekha Vijay, Chemistry	Mr. Jitendra Gupta, ME Dr. Sanjay Gaur, CSE
03.09.2018	Monday	Ms. Shikha Srivastava, IT	Mr. Anil Jain, ECE Dr. Vishal Saxena, Maths
04.09.2018	Tuesday	Ms. Anima Sharma, CSE	Mr. Man Mohan Siddh, ME Mr. Sandeep Kumar Dotya, ECE
05.09.2018	Wednesday	Dr. Seema Joshi, Chemistry	Mr. Gajendra Sharma, CSE Mr. Tejendra Singh, ME
06.09.2018	Thursday	Ms. Parul Tyagi, ECE	Mr. Dayal Singh Rathore, ME Mr. Ashish Sharma, ECE
07.09.2018	Friday	Ms. Shweta Sharda, ECE	Dr. Mukul Kumar Sharma, E&H Mr. Nitin Chhabra,ME
08.09.2018	Saturday	Ms. Archana Vijayvergia, E&H	Mr. Shrikant Bansal, ME Mr. Honey Agarwal, ECE
09.09.2018	Sunday	Dr. Tripati Gupta, Maths	Mr. Ravi Kuamr Jangir, ME Mr. Veni Madhav Sharma, ECE
10.09.2018	Monday	Ms. Swati Vijay, IT	Mr. Yogesh Kumar Agarwal, Civil Mr. Devesh kumar, ME

All are required to submit their **report** in writing along with **Annexure A** to the Chief Hostel Warden next day. The CCL for the same shall be granted on the written recommendation of the CAO.

Copy to-

- 1. Vice -- Chairman
- 2. Director
- 3. Chief Hostel Warden
- 4. All Programme Coordinator/HoD's with a request to get the duty noted from all



Self Assessment Report

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Principal

ROLES & RESPONSIBILITIES CHART FOR NIGHT DUTY IN HOSTEL

<u>s. no.</u>	FROM	TO	LOCATION OF DUTY	REPORTING TO	SIGNATURE OF WARDEN
1.	8 PM	9 PM	Presence in the Mess	Warden	
2.	9 PM	10 PM	Presence in the Lawn by the Male faculty member & Quadrangles by the Female faculty member	Warden	
<u>3.</u>	10 PM	. 11 PM	Hostel rooms visit	Warden	The second
<u>4.</u>	11 PM	11.30 PM	Tea time		
<u>5.</u>	11.30 PM	12.30 PM	Hostel rooms visit.	Warden	
<u>6.</u>	12.30 AM		Rest		-
<u>Z.</u>	3 AM	4 AM	Round of hostel and ground.	Warden	-
8.	8 AM	9 AM	Tea & Breakfast		

Date: -

Signature of Faculty member





Self Assessment Report

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE REPORT ON NIGHT DUTY

Dear Sir

Our night duty was scheduled on 3 August 2018 (Friday) to avoid ragging in (if any) Boys Hostel-1 and Boys Hostel-II. We arrived at JECRC campus at 8 PM and reported to hostel warden Mr. Ashok Sharma. We stayed there overnight and visited both boys hostels BH-1 and BH-2 and nothing found suspicious. Also we talked to first year students, they don't have any issue till moment. They are enjoying their new phase of life. We instructed them to call/inform immediately to their respective hostel warden in case if they find anything uncomfortable.

Annexure -A

S. NO.	FROM	TO	LOCATION OF DUTY	REPORTING TO	SIGNATURE OF WARDEN
L	8 PM	9 PM	Presence in the Mess	Warden	Homa
2.	9 PM	10 PM	Presence in the Lawn by the Male faculty member & Quadrangles by the Female faculty member	Warden	-Hamy
<u>3.</u>	10 PM	11 PM	Hostel rooms visit	Warden	Jenny
4.	11 PM	11.30 PM	Tea time	-	-
5.	11.30 PM	12.30 PM	Hostel rooms visit.	Warden	tond
6.	12.30 AM		Rest	-	-
<u>7.</u>	3 AM	4 AM	Round of hostel and ground.	Warden	As man
<u>8.</u>	8 AM	9 AM	Tea & Breakfast	and the state	-

ROLES & RESPONSIBILITIES CHART FOR NIGHT DUTY IN HOSTEL

Date: -3/8/18

Signature of Faculty member

1. Lalit Kumar Sharma

2. Piyush Gautam



Self Assessment Report



JECRC Mail - Fwd: Vigilance Duty of Faculty members in CSE Department

Anurakt Williamson Registrar <registrar@jecrc.ac.in>

Fwd: Vigilance Duty of Faculty members in CSE Department 1 message

Principal JECRC <principal@jecrc.ac.in> To: Registrar JECRC <registrar@jecrc.ac.in>

Wed, Aug 8, 2018 at 2:37 PM

From: HoD CS <hod.cse@jecrc.ac.in> Date: Wed, Aug 8, 2018 at 12:50 PM Subject: Vigilance Duty of Faculty members in CSE Department To: Geet Kalaniq <geetkalani.cse@jecrc.ac.in>, Amit Mithal <amiltmithal.cse@jecrc.ac.in>, Pradeep Sharma <pradeepsharma.it@jecrc.ac.in>, "Dr.Sanjay Gaur" <sanjaygaur.cse@jecrc.ac.in>, Ashish Ameria <ashishameria.cse@jecrc.ac.in>, Gajendra Sharma <gajendrasharma.cse@jecrc.ac.in> Cc: Manju Vyas <manjuvyas.cse@jecrc.ac.in>, Principal JECRC <principal@jecrc.ac.in>

Dear All,

Following faculty members are assigned vigilance duty around main gate and around the local shop areas. They must take round every day and ensure that no students are found sitting there.

 Mr. Geet Kalani 	Between 12::00-1:00 pm
Mr. Amit Mithal	Between 12::00-1:00 pm
3) Mr. Pradeep Sharma	Between 3:00-500 pm
Dr. Sanjay Gaur	Between 3:00-500 pm
5) Mr. Ashish ameria	Between 10- 11AM
6) Mr Gajendra Sharma	Between 9-10 AM

Any act of indiscipline found must be reported immediately.

Thanks and regards

Dr. Bhavna Sharma

Head, Department of Computer Science & Engineering Jaipur Engineering College & Research Centre Address: JECRC Campus, via Sitapura, Tonk Road, Jaipur-302022, Rajasthan, India

Warm Regards Dr. Vinay Kumar Chandna, B.E., M.E. Ph.D. (Electrical) SM IEEE, LM ISTE, LMCSI Principal, Jaipur Engineering College and Research Centre (Jaipur), Tonk Road, Jaipur Past Treasurer PES Delhi Chapter, Chair IEEE Education Society, 98914 06784 (M)





Self Assessment Report

JECRC

Notice No-

Date - 31.07.2017

ANTI RAGGING ORGANISATION

Sh. O.P. Jain Chair Sh. P.K. Tiwari Chief Prof. U. K. Pareek Chief

Chairman Chief Mentor Chief Proctor

A. Anti-ragging committee -

The team of staff members specified for a particular zone shall meet and devise an action plan to take regular rounds of zones and shall maintain complete vigilance for the prevention of ragging in the areas under heir control. They will maintain regular report of their observations. Ragging incidents if any, shall be reported immediately to the under mentioned for further action at their following mobile numbers-

Prof. U.K. Pareek	Chief Proctor	9785506667
Sh. P.K. Gupta	C.A.O	9982682475
Prof. M. P. Singh	Proctor	9414203639

S.No.	Name	Zone	Control Area
1	Sh. Mukesh Agarwal Sh. Amit Mithal Sh. Gajendra Sharma Sh. Udbhav Bhatnagar- Sh. Pradeep Sharma Sh. Vikas Sharma	A	Police station to college main gate Reporting time 8.00 AM
2	Ms. Neelam Chaplot Sh. Prahlad Sharma Ms. Geetika Gautam Sh. Ashish Ameria Sh. Arihant Jain	В	Main gate to cycle stand and porch
3	Dr. Manish Srivastava Sh. Kuldeep Sharma Sh. Rajendra Gupta Sh. Lalit Sharma Sh. Narendra Singh	С	Canteen and Workshops (D and E Block)
4	Sh. P.K. Gupta Sh. Ashok Sharma Ms. Raj Pareek_ Dr. Rajesh Sharma	D	Hostel to Block-A



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5	Sh. S.S. Manaktala- Proctor	E	Hostels to B Block and
	Sh. Ram Singh		Hostels to C Block
	Ms. Poonam Gupta		
	Dr. Rajesh Sharma	1	
	Sh. Honey Agarwal		
	Sh. Sandeep K. Dotiya		
	Sh. Ashish K. Kulshrestha		
6	Sh. Shruti Kalra-Proctor	F	Electrical, Electronics and Mechanical
	Dr. Bhuvnesh Bhardwaj		
	Dr. Manish Srivastava		
	Ms. Shikha Gaur-		
	Sh. Anil Jain		
	Sh. Devendra Sharma		
	Sh. Veni Madhay Sharma		
	Sh. Hemant Vashisth		
	Sh. Vishwas Verma		
	Sh. Vishwas Verma	-	
7	Sh. R.S. Agarwal, Mentor	G	Block -A
	Sh. R.P. Jain		
	Dr. Anita Jain		
	Ms. Shikha Maheshwari		
	Ms. Manju Vyas	1 T A -	
in ante	Ms. Richa Sharma		the second s
	Ms. Sarita		
	Sh. Tovindra Kr. Sahu		
	Sh. Aizaj Khan		
	Sh. Sachin Gupta		
	Shi Sachin Gupta		
8	Dr. Rajesh Sharma	Н	Play ground & field, Canteen and
	Dr. S.K. Dixit, Mentor		around
	Sh. Ravi Kumar Jangir		
	Sh. Aashish Nagpal	· · · ·	
	Sh. Mangi Lal		
	Ms. Ritu Vyas		
	Sh. Hanuman Pd.		
9	Ms. Raj Pareek, Mentor	I	Area near Girls Hostel
and the	Ms. Sheela Soni		
- ° •	Ms. Suman Devi	1.2.2	
	Ms. Neha Singh		
	Ms. Sonali Chadha		
	Ms. Vinita Mathur		
	Ms. Parul Tyagi		
10	Dr. Anita Jain	J	Library – 1
	All other library staff		
11	Mr. Kamlesh Choudhary	K	Block C - Level - 1
	Ms. Monika Sharma		
	Mr. Amit Mittal	1.5	 Align and Align Align
	Mr. Jitesh Kumar Jain		
	Mr. Rohit Singhal		
	All Library-3 staff (block C)	F - 1	
12	Dr. Rekha Mithal	L	Block C - Level – 2
12	Prof. K.K. Agarwal	L	DIOCK C - Level - 2
	Ms. Barkha Srivastava		
	Ms. Sarita Poonia	1.1	
	Sh. Dilip Parjapta		

	Sh. Jitendra Gupta		
13	Dr. Seema Joshi- Proctor Dr. R.K. Mangal Dr. S. K. Dixit Dr. Tripti Gupta Dr. Poonam Gupta Ms. Yogita Panjabi	М	Block C - Level – 3
14	Sh. Shiv Shankar Sharma Sh. Manoj Pathak Dr. S. K. Singh Mr. Vishal Sagtani Ms. Rekha Vijay Sh. Piyush Gautam Dr. Sunil Srivastava	N	Block C - Level – 4
15	Sh. Sunil Jangir Ms. Kusum Yadav Mr. Naveen Kumar Kedia Ms. Pallavi Singh	0	Block C - Level-5
16	Sh. P.K. Gupta Sh. Manish Jain Sh. R.S. Agarwal & staff Sh. R.P. Jain & staff Dr. Umesh K. Pareek Sh. Ashok Patni Sh. Ramesh Rawat	P	College & other areas, General assistance to the Principal
17.	Rajesh Kumar Bathija Raj Kumar Jain Ashish Sharma Devesh Gupta	200	Near Shiv Tample, Tea Stall, outside the JECRC main gate.
18.	Atul Kulshrestha Ashok Singh Chundawat Rahul Kumar Malee Shailendra Srivastava	-	Block D

* Names in bold letters are the incharges of their respective zones.





Self Assessment Report

Notwithstanding the above, it is expected from all teaching faculty and other staff members that if they come across any incident of harassment of the new comers they shall intervene immediately and try to prevent RAGGING. The matter may also be brought to the notice of the above.

Notes:-

- Every faculty member should ensure proper handing over of the class to the next faculty member. He/She should not leave the class without a proper supervision and presence of faculty member.
- The nearest HOD of the area should ensure one of the faculty members of the area is always present in varandas to maintain discipline.
- 3. All institute staff should invariably wear their I-cards.

The wardens of the hostels should ensure that all the I semester students leave the hostels everyday by 8.25 AM positively and preferably in one group.

Anonymous random surveys have been planned where proctors and mentors and also other subject experts will be meeting each section of the I year classes atleast once in a fortnight. The random survey will be carried out in any of the randomly selected regular classes, so that the students are not aware of the forthcoming surveys.

S.No	Name	Designation	Mobile No.
L.	Dr. U.K Pareek	Chief Protcter	09785506667
	Ms. Neelam Chaplot	Proctor	09414396960
3.	Mr. Anshul Mittal	Proctor	09772620462
4.	Ms. Shruti Kalra	Proctor	09414371413
5.	Dr. M.P Singh	Proctor	09414203639
6.	Dr. Anita Jain	Chief Librarian	09829230353
7,	Ms. Raj Pareek	Warden Girls Hostel	09982682911
8.	Mr. Ravi Bhatnagar	Transport Incharge	09024149459
9.	Sh. PK Gupta	Chief Warden/C.A.O	09982682475

B. Anti-ragging Committee Session 2017-18

Sh. R.S. Agarwal, Registrar 09460117479

Copy to -

- 1. Vice Chairman, Director, All concerned
- 2. All HoD, Librarian A & C Block.
- CAO/Chief Warden with a request to get the above notice circulated among all the staff members working under their control.



Self Assessment Report

Jaipur Engineering College and Research Centre

Anti Ragging Committee Session 2016-17

S.No	Name	Designation	Mobile No.
1.	Prof. Mukt Bihari	Chief Proctor	09982682915
2.	Aizaz Khan	Assistant Registrar	09982682906
3.	Dr. U.K Pareek	Dean 1st Year	09785506667
4.	S.S Manaktala	Proctor	09828089494
5.	Shiv Shankar Sharma	Proctor	09929860331
6.	Sh. Manish Jain	Proctor	09214699647
7.	Dr. Seema Joshi	Proctor	09251039861
8.	Ms. Shruti Kalra	Proctor	09414371413
9,	Dr. Anita Jain	Chief Librarian	09829230353
10.	Ms. Raj Pareek	Warden Girls Hostel	09982682911
11.	Sh. R.P. Jain	Office Supdt. & Transport Incharge	09636079550
12	Sh. PK Gupta	Chief Warden	09982682475

Please contact above members with regarding to above mentioned subject.

Registra

and Re

Note: All Notice Board including Hostel Notice Board.



Self Assessment Report

ANTI-RAGGING COMMITTEES FOR THE ACADEMIC YEAR 2016-2017

S.No.	Name of Member	Designation	Contact No.
1.	Prof. Mukt Bihari	Member	9982682915
2.	Shri O.P. Jain	Member	9413335550
3.	Ms. Shruti Kalra	Member	9414371413
4.	Shri P.K. Gupta	Member	9982682475
5.	Shri Manish Jain	Member	9214699647
6.	Ms. Raj Pareek	Member	9828118064
7.	Ms. Anita Jain	Member	9829230353
8.	Shri R.P. Jain	Member	9636079550



Self Assessment Report

JECRC

ANTI RAGGING ORGANISATION

Sh. O.P. JainChairmanSh. P.K. TiwariChief MentorProf. Mukt BihariChief Proctor

A. Anti-ragging committee -

The team of staff members specified for a particular zone shall meet and devise an action plan to take regular rounds of zones and shall maintain complete vigilance for the prevention of ragging in the areas under heir control. They will maintain regular report of their observations. Ragging incidents if any, shall be reported immediately to the under mentioned for further action at their following mobile numbers-

Prof. Mukt Bihari	Chief Proctor	9982682915
Sh. P.K. Gupta	C.A.O	9982682475
Prof. U.K. Pareek	Proctor	9785506667

S.No.	Name	Zone	Control Area
1	Sh. Manish Jain – Proetor Sh. Mukesh Agarwal Sh. Amit Mithal Sh. Gajendra Sharma Sh. Udbhav Bhatnagar Sh. Pradeep Sharma Sh. Vikas Sharma	A	Police station to college main gate Reporting time 8.00 AM
2	Ms. Neelam Chaplot Sh. Prahlad Sharma Ms. Geetika Gautam Sh. Anshul Mittal Sh. Arihant Jain	В	Main gate to cycle stand and porch
3	Prof. Gobind Raj Sh. Kuldeep Sharma Sh. Rajendra Gupta Sh. Lalit Sharma Sh. Narendra Singh	C	Canteen and Workshops (D and E Block)
4	Sh. P.K. Gupta Sh. Ashok Sharma Ms. Raj Pareek Dr. Rajesh Sharma	D	Hostel to Block-A





Self Assessment Report

Notice No. 11. Date. 28 107/16

5	Sh. S.S. Manaktala- Proctor Sh. Ram Singh Ms. Poonam Gupta Dr. Rajesh Sharma Sh. Honey Agarwal Sh. Sandeep K. Dotiya Sh. Ashish K. Kulshrestha	E	Hostels to B Block and Hostels to C Block
6	Sh. Shruti Kalra-Proctor Prof. R. Gobind Raj Prof. R.O. Rustagi Ms. Shikha Gaur Sh. Anil Jain Sh. Devendra Sharma Sh. Veni Madhav Sharma Sh. Hemant Vashisth Sh. Vishwas Verma	F	Electrical, Electronics and Mechanical
7	Sh. R.S. Agarwal, Mentor Sh. R.P. Jain Dr. Anita Jain Ms. Shikha Maheshwari Ms. Manju Vyas Ms. Richa Sharma Ms. Anima Sharma Sh. Tovindra Kr. Sahu Sh. Aizaj Khan Sh. Sachin Gupta Sh. ABL Mathur	G	Block -A
8	Dr. Rajesh Sharma Dr. S.K. Dixit, Mentor Sh. Ravi Kumar Jangir Sh. Aashish Nagpal Sh. Mangi Lal Ms. Ritu Vyas Sh. Hanuman Pd.	Н	Play ground & field, Canteen and around
9	Ms. Raj Pareek, Mentor Ms. Sheela Soni Ms. Suman Devi Ms. Neha Singh Ms. Sonali Chadha Ms. Vinita Mathur Ms. Parul Tyagi	1	Area near Girls Hostel
10	Dr. Anita Jain All other library staff	L	Library – 1
11	Ms. Anjana Poonia Prof. S.K. Sur Prof. S.K. Saxena Sh. Kartik Chawala Sh. Sumit Saini All Library-3 staff (block C)	К	Block C - Level – 1
12	Dr. Rekha Mithal Prof. M.L. Rawat Prof. K.K. Agarwal Ms. Barkha Srivastava	L	Block C - Level - 2

	Ms. Sarita Poonia Sh. Rajendra Sen Sh. Dilip Parjapta Sh. Jitendra Gupta Sh. Mount Malik		
13	Dr. Seema Joshi- Proctor Dr. R.K. Mangal Dr. Urmila Gupta Ms. Priyanka Verma Dr. Poonam Hariyani Sh.Shivani Agrawal	M	Block C - Level - 3
14	Sh. Shiv Shankar Sharma Sh. Manoj Pathak Dr. Ankush Dr. Savita Sangwan Ms. Rekha Vijay Sh. Piyush Gautam Sh. Kanishk Jain Sh. Neha Jain	N	Block C - Level - 4
15	Sh. Sunil Jangir Ms. Kusum Yadav Sh. Swati Vijay Ms. Neha Jain	0	Block C - Level-5
16	Sh. P.K. Gupta Sh. Manish Jain Sh. R.S. Agarwal & staff Sh. R.P. Jain & staff Dr. Umesh K. Pareek Sh. Ashok Patni Sh. Ramesh Rawat	Р	College & other areas, General assistance to the Principal
17.	Rajesh Kumar Bathiya Raj Kumar Jain Ashish Sharma Devesh Gupta	•	Near Shiv Tample, outside the JECRC main gate.
18.	Atul Kulshrestha Ashok Singh Chundawat Rahul Kumar Malee Shailendra Srivastava	•	Block D

* Names in bold letters are the incharges of their respective zones.



Self Assessment Report

Page 472

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ction to be taken to curb ragging during the session 2015-16

Inbox x

Principal JECRC

2:31 PM (37 minutes ago)

to vc, Arpit, opjain, pktiwari, cao, hod.cse, hodece, HoD, Hodee, hodme, hodce, suchintyasur.ce, ranjeetpandey.., jyotithanvi.ma., hodmaths, hodeh, hodchem, hodphy, ruchimathur.ma., rekhamithal.ch., Saritapoonia.m., rajendrasen.ch., me, librarian, jyotithanvi 28

Jaipur Engineering College & Research Centre

From : Principal Office	To : All Programme Coordinators
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Noting Reference No. JECRC/01/2015-16/09

22/07/2015

Sub.: Action to be taken to curb ragging during the session 2015-16

As you are aware that II,III and IV year classes are already started and the I year classes are commencing from August 6, 2015. Therefore you along with your colleagues are requested to make it convenient to attend the meeting in the auditorium on Wednesday the 29th of July, 2015 at 3:15 PM. You are also requested to come prepare with the following agenda items –

ACTION TO BE TAKEN TO CURB RAGGING SESSION 2015-2016

1. Notice explaining as to what constitutes ragging are to be put up on the Notice Board.

- 2. Notice for prohibition & prevention of ragging is to be displayed.
- Declarations from student & parents are to be obtained.

4. Meetings with Hostel Wardens, student representatives, parents/guardian, faculty & district administration are to be held.

5. Multi color posters of big size for promotion of law and nature of punishment for involvement in ragging is to be displayed at conspicuous places.

6. Vulnerable position in the campus are to be identified.



Self Assessment Report

Induction programme is to be planned.

8. Printed leaflet to be handed over to the students containing contact Nos of persons to be informed in case of ragging takes place and also informing about the calendar of events, including induction.

List of contact nos to be displayed inside each bus.

Joint sensitization programme of freshers and seniors to be planned and organized.

 Letters to the parents of first year completing students are to be sent informing about the law regarding ragging and punishments.

12. Monitoring cell is to be formed.

13. Individual meeting with the freshers for psychological counseling is to be planned/held.

14. Anonymous random survey across 1st year batch freshers every fortnightly is to be planned for the first 3 months of the session.

15. Meeting with faculty and non-teaching staff to be held to apprise them of about their responsibility towards curbing the menace of ragging.

16. Anti ragging committee and Anti ragging squad, to be formed and information about their constitution to be given to the Central Monitoring Committee.

17. An appropriate committee to monitor, promote and regulate healthy interaction between freshers and senior students, to be formed institution wise.

 Posters informing that the burden of proof shall be on the preparator of ragging and not on the victim to be displayed.

19. Posters acknowledging non-involvement of seniors in the past to be displayed.

 Seminar/Meeting with district authorities to promote the feeling of ragging free campus to be planned and held.

21. Admission brochure to contain the directions of Hon'ble Supreme Court and the UGC.

22. Hostel Wardens to obtain declarations from the students and their parents duly signed & verified.

23. Websites of the institutions to contain the directions of the Supreme Court and UGC regarding ragging.

24. Tight security in the campus to be planned and executed.

25. Advertisement for admission to clearly mention that ragging is totally banned in the Institution.

26. The school leaving certificate/TC/MC and character certificate shall contain, report about the behavioural pattern of the students.

27. Hostel wardens to have mobile phones to be accessible at all hours.

28. For the initial period of 3 months, from the date of start of the college, hostellers should not be allowed to move out from the hostel between 8.30 pm to 5.00 am.

29. Disciplinary committees to be formed.

30. Audio-visual aids, counseling session, workshops, Painting, design competitions may be organized.

31. Services of Shri P.K. Tiwari, Senior Advisor and retired Director General Police should be utilized to make the students understand the repercussions of their involvement in



Self Assessment Report

ragging. For this purpose, class wise programmes may be chalked out in consultation with Shri P.K. Tiwari, Senior Advisor, and thereafter, action may be taken accordingly.
32. Each & Every HOD to hold meetings with their Department and impress upon the faculty and staff that, curbing the menace of ragging, was the duty of each Individual being a member of the Institute.

PRINCIPAL

Copy to -

Vice Chairman 1.

- 2. Director
- 3. Sr. Advisors
- 4. All Programme Coordinators
- 5. Chief Hostel Warden, CAO, Librarian
- 6. Registrar, OS As discussed, submit the report on Monday i.e. on July 27, 2015



Self Assessment Report



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Dear Students,

- 1 We welcome and congratulate you for seeking admission in this college. It is a fact that in this transitional phase you have left your school life and probably homely environment and would be entering into a new phase. Therefore, we would be more than willing to help you solving problems/difficulties, if any faced by you as a fresher and would extend all the necessary help.
- To overcome the menace of ragging, college, administration has already made plans for FRESHERS' inducationa and orientation, which promote efficient and effective means of integrating. These planse will be communicated to you by the office shortly.
- Besides, we all would ensure that ugly scar of ragging is obliterated from the face of all educational institutions. Here, we would like to inform you that you may turn up to the following persons in case of any help/guidance in the most unlikely event of the so-called ragging.

S.No.	Name	Designation	Mobile Number
1.	Dr. UK Pareek	Chief Proctor	9785506667
2.	Ms. Ruchi Mathur	Proctor	9828159024
3.	Mr. Anshul Mittal	Proctor	9772620462
4.	Ms. Shruti Kalra	Proctor	9414371413
5.	Dr. M. P. Singh	Proctor	9414203639
6.	Dr. Anita Jain	Chief Librarian	9829230353
7.	Ms. Sanjay Raghav	Warden Girls Hostel	9982603534
8.	Mr. Ravi Bhatnagar	Transport Incharge	9024149459
9.	Sh. PK Gupta	Chief Warden/CAO	9982682475
10.	Sh. Ashok Sharma	Warden Boys Hostel	9982682914

- You are instructed that you should desist form doing anything against your will even if required by the seniors and should not have any fear, as the institution cares for you and shall not tolerate any mischief against any student.
- You are requested not to hesitate in seeking any help and guidance and to report any incidents of harassment, teasing etc., either as victim or even as a witness.

May I add that your college has always been ragging-free. Wishing you a bright future in the college.

WOMEN CELL



Self Assessment Report

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE, (SHRI RAM KI NANGAL, VIA SITAPURA RIICO, OPP.EPIP GATE, TONK ROAD, JAIPUR-302022

Women Cell

In accordance with the directives from AICTE New Delhi and RTU Kota, the existing Women cell for safe and secure working environments for girls and Women at JECRC Campus is hereby re-constituted as follows with immediate effect.

enect	•	POST	MOBILE NO.
S.NO.	NAME	Chairperson	9413689436
1'	Dr. Seema Joshi	Secretary	9829230353
2	Dr. Anita Jain	Member	9414396960
3	Ms.Neelam Chaplot	Member	9772524494
4	Dr.Urmila Gupta	and the second state of th	9785506667
5	Dr.Umesh Pareek	Member	9982682911
6	Smt. Raj Pareek	Member	9462213444
7	Ms. Ritu Vyas	Member	ings with Women staff

The Chairperson is requested to convene frequent meetings with Women staff and girl students and communicate any complaints and action taken thereon to the Vice-Chairman, the Director, The Principal and also the Registrar for onward transmission to the RTU, if necessary.

The Chairperson may also communicate the essence of any meetings held with the Government agencies, NGOs etc.

Principal

2015-2010

10.1.4. Delegation of financial powers



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6

NATIONAL SOCIETY FOR ENGINEERING RESEARCH AND DEVELOPMENT, JAIPUR.

10-10-2015

Delegation of powers to the various authorities

The Chairman, JECRC Foundation, and the National Society for Engineering Research and Development, has directed me to convey the delegation of powers to the various authorities working in the NSERD promoted institutions. Our Esteemed Chairman is of the view that the College Principal and the Registrar should have adequate powers so that they are in a position to comply with the requirements of the regulatory and supervising bodies, and conduct day-to-day affairs in a positive and peaceful manner, under their own authority and signatures.

With a view to ensuring smooth and unambiguous functioning of the colleges, viz., Jaipur Engineering College And Research Centre, as also JECRC UDML College of Engineering, the delegated powers / authority are detailed hereunder:

Designated Authority	Powers delegated
a) Principal	i) As Head of the Institution, he shall exercise his authority for institution building. He will act as Competent Authority for all Faculty Members and Officer staff and be responsible for overall human resource management, their appointment, utilization, retrenchment, termination, disciplinary action, etc. He will exercise signing powers as Competent Authority.
	ii) He will act as superintendent and guide for all items of work related to AICTE, RTU (Affiliating University), UGC, MHRD, Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies.
	iii) Establish a climate in which faculty members and the students can develop self-discipline, and promote research.
	iv) To formulate the Budget and assess the infrastructural and other requirements well in advance and get the same approved from the Secretary, NSERD before execution.
	v) Impress amount of Rs. 1,00,000/- (Rs. One Lakh Only) is also delegated for routine exercise.
b) Registrar	a) He shall act Competent Authority for all office and sub-staff, and exercise signing powers as competent authority for their appointment, utilization, retrenchment, termination, disciplinary action, etc.
	b) He shall act as Compliance Officer to fulfill the regulatory guidelines etc. of AICTE, RTU (Affiliating University), UGC, MHRD, Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies. He shall act as



Self Assessment Report

Chairman: Overall Incharge of the College

Principal: responsible for faculty development and research activities; smooth functioning of the institute.

Program Coordinators / HODs: Are responsible for administration and academic activities of their program / departments.

Dean I Year: is responsible for administration and academic activities related to I year.

Dean II Shift: is responsible for administration and academic activities related to II shift.

Maintenance Incharge: is responsible for maintenance related issues in the campus.

T & P Officer: is responsible for Training and placement related activities in the Campus.

Registrar: Deals with admissions, registration and results of students and all other issues related to students and the Rajasthan Technical University.

Accounts: All issues related to student fees, budget and payment,

Establishment: Deals with all issues related to staff recruitment, increments, promotions, provident fund, grataity and salary bills etc.

Financial Power Deligation to the Program Coordinators/HODs - impress amount of Rs. 10,009/- is sanctioned to the all Program Coordinators/HODs and on submission of accout further amount is dispursed.

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Self Assessment Report

10.1.5. Transparency and availability of correct/unambiguous information in public Domain All Information's are available at College Website, Students Broachers, Liberty

All Information's are available at College Website, Students Broachers, Liberty etc.



Welcome to JECRC Foundation

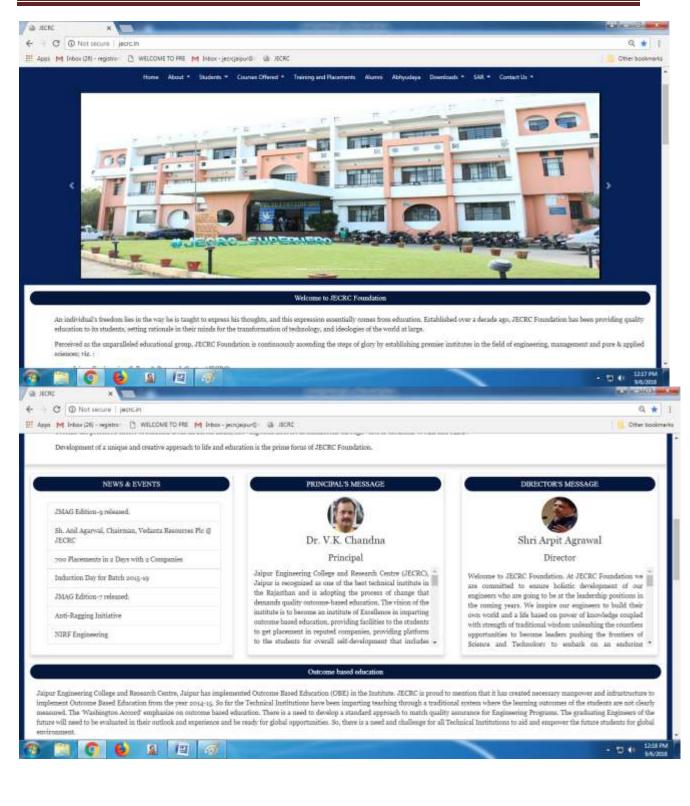


Self Assessment Report



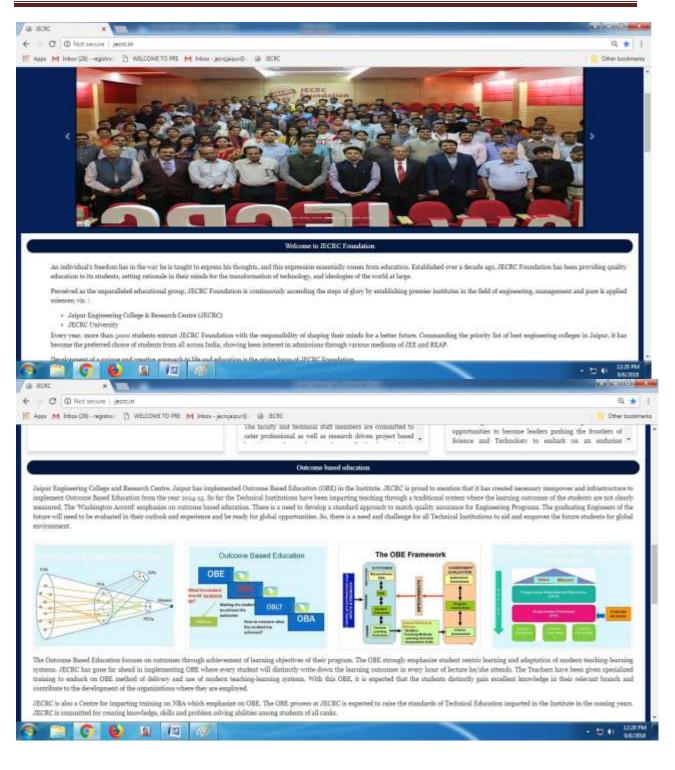


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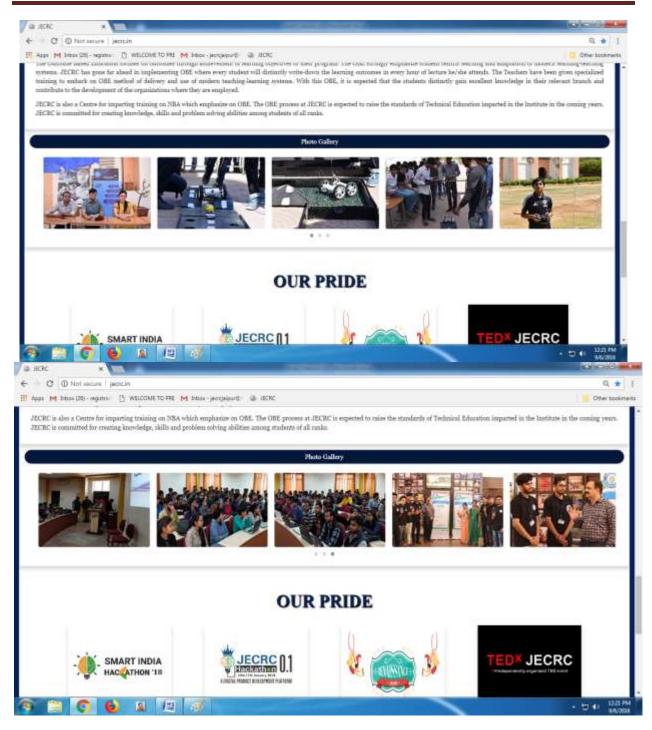


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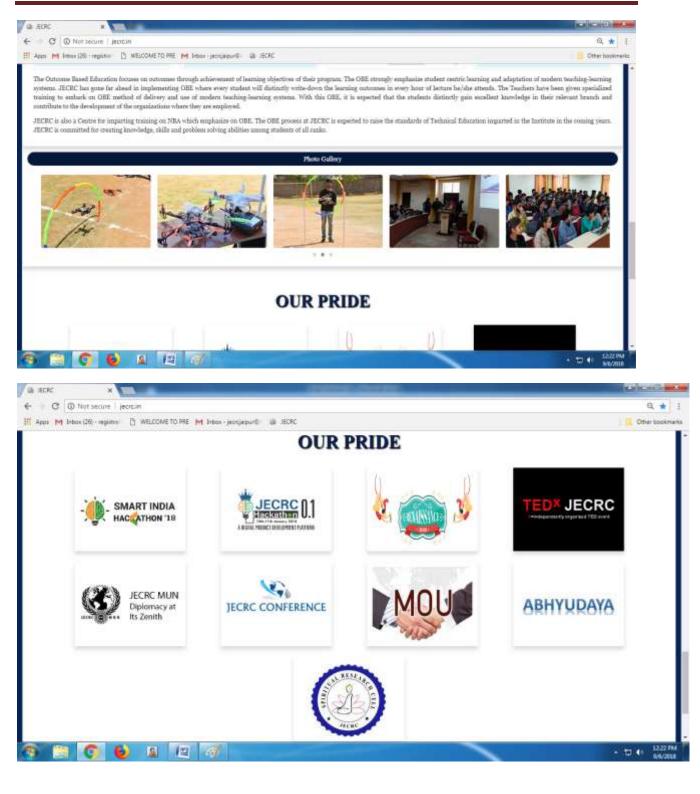


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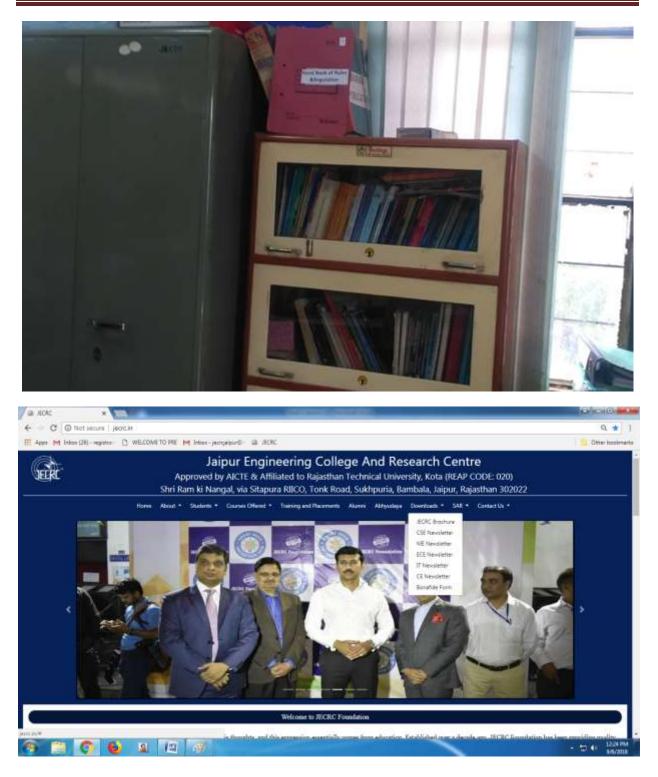


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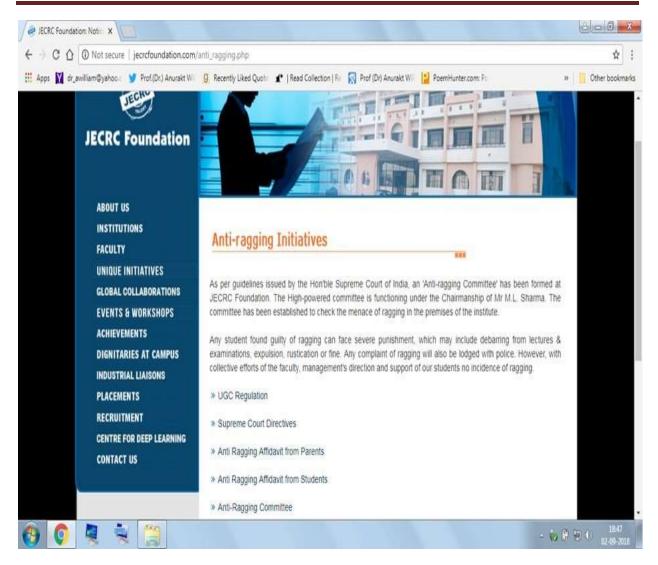


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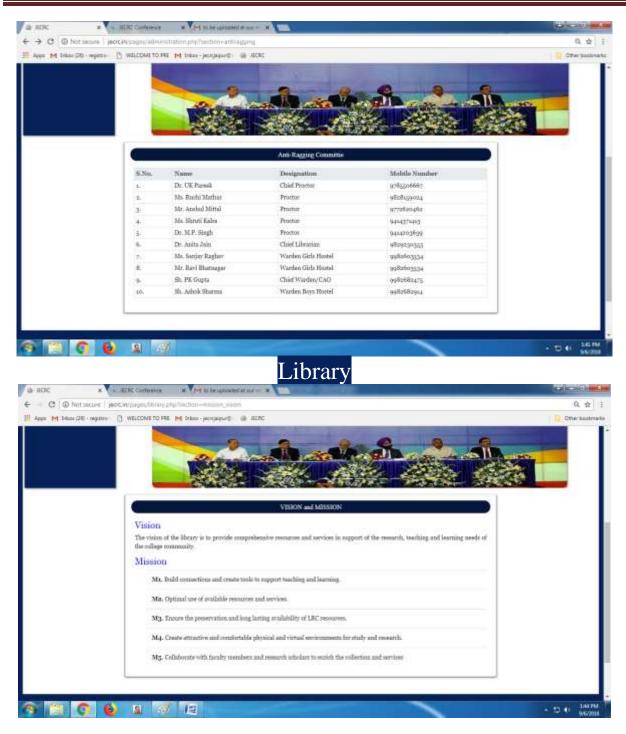


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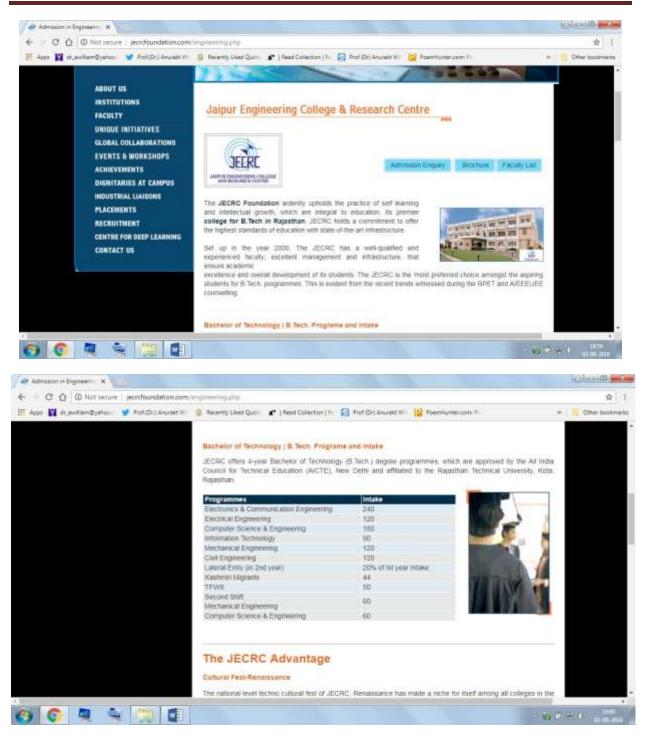


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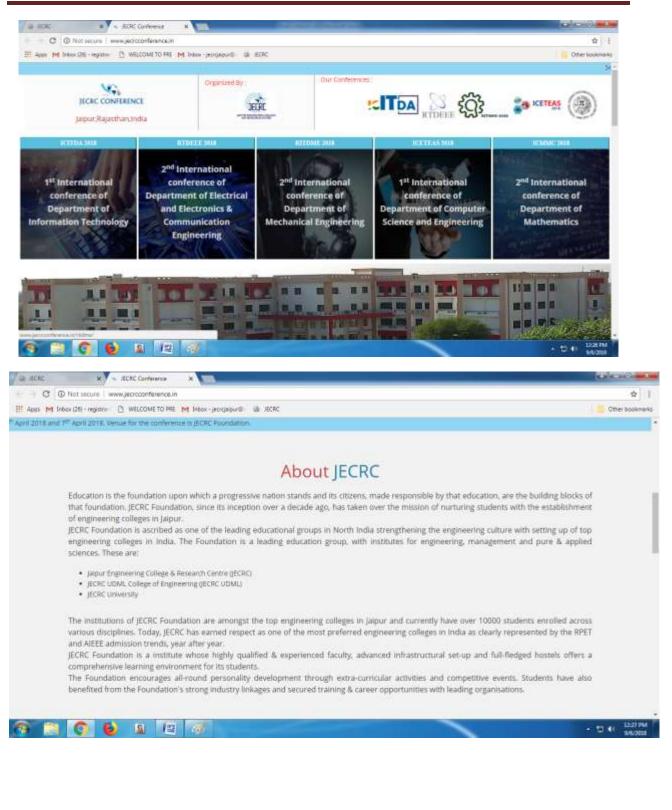


Self Assessment Report





Self Assessment Report





Self Assessment Report

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1			. The Conferences will field on 6 th April 2018 and 7 th April 2018.	a second	Contractor
	APPLICATIONS & SECURITY (ICCTEAL)	6.2018. February 18 ¹⁰	Road Jappin 302 022	Details	
	INTERNATIONAL CONTREMEX ON INFORMATION TECHNOLOGY AND DIGITAL APPLICATIONS BETTON	3018, April 6 ²¹ & 2018, April 7 ¹⁰	jBCRC Camput.Shri Ram ki Nangal, via Stapura RICO Torix Rinati, Jaipur-302 022	Verw Octobs	
	RECENT TECHNOLOGICAL DEVELOPMENTS IN ELECTRONICS & ELECTRON. ENSWEETING (RTOEED)	2018, April 6 ¹⁷ & 2018, April 7 ¹¹	jECRC Campus Shin Ram Ki Nangal, via Sitapura RICO Torw Roadi Jalpur 302 022	View Details	1
	RECENT INNOVATIONS & TECHNOLOGICAL DEVELOPMENT IN HECHANICAL ENGINEERING (RITOME)	2018. April 6 th 6 2018. April 7 th	(ECRC Campus Shit Ram Ki Nangal, via Stapura RKCO Toriv Roadi Jinpur 302 022	View Details	1
	INTERNATIONAL CONCREMENCE ON MATHEMATICAL MODELING AND COMPLETING ICOMPCT	3018. April 5 ¹⁹ 6 3018. April 5 ¹⁹ 6	jECRC Campus, Shn Ram ki Nangil, via Stapush RKCO Tonk Roadi Japus-302 022	Yme Ontaits	





College Broachers



Self Assessment Report

INFORMATION FOR THE NEW ENTRANTS

Vision of the Institute

To become a renowned centre of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.

Mission of the Institute

- Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.
- Identify, based on informed perception of Indian, regional and global needs, the areas
 of focus and provide platform to gain knowledge and solutions.
- Offer opportunities for interaction between academia and industry.
- Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders may emerge.

JECRC is a dream Institute for many aspirants where the ambiance is different from that of your school and provides platform to nurture overall development in education and extra-curricular activities. The management, faculty members, staff members and the students in the higher classes may expect you to behave like a grown-up and responsible citizen. During the tenure of your degree course, you have to take your own responsibility regarding required attendance in the college and participation in Co-curricular and Extra-curricular activities. If you are sincere towards studies and attend the theory, practical and tutorial classes regularly (the attendance should not be less than 75%) and take all the tests and examinations as per the requirement of the affiliating University, then not only your learning attribute will improve but also your performance to get your in the direction of higher studies/placements.

JECRC Institute promotes varied experiences and the outcome based teaching-learning provides the information about your learning outcomes. The information of different activities (acaemic and / or otherwise) is provided through the notices on the Notice Boards and also you have to be in constant touch with your mentor as assigned to you.



Self Assessment Report

Further, your efforts of getting more than 60% marks in aggregate without any back paper throughout will help you to access the platform to get placement in a reputed organization with higher salary package through campus interview selection process.

The institute will provide you the platform to groom yourself in various activities at leadership positions, also provide you the opportunity in the direction of lifelong learning, ethics, innovation, project management etc. along with technical knowledge.

To adapt yourself to the changed environment, you may consider the below mentioned points :

- Inculcate the habit of coming to the college well-in-time and attend the all the classes regularly.
- Wearing slippers are not allowed on the campus.
- 3. Wearing college identity card on the campus is compulsory
- If you are commuting to the campus through two wheelers, wearing good quality helmet is compulsory even for pillion.
- 5. You may approach your mentor/proctor/HOD for any queries/concerns.
- You should maintain the originality of your own personality and should not be unduly impressed or swayed by your friends in the College. You must know what is right/wrong for you.

I am sure, with these points of advice, you will smoothly sail through the transition period and emerge as an excellent professional.

PRINCIPAL





CONDUCT RULES AND GUIDELINES FOR STUDENTS

A. Discipline and wisdom are essential traits of a professional. Students of JECRC are expected to observe the highest standards of discipline.

- B. The following acts by a student shall be construed as indiscipline:
 - Misbheavior with teachers, employees of the college, colleagues, girls students, juniors, wardens, proctors and visitors and acting against decorum in college premises-classrooms, laboratories, playgrounds, any type of transportation and hostels.
 - 2. Ragging New Students.
 - Using insulting, abusive and indecent language in general and in the college premises and hostel, in particular.
 - Damaging college property including apparatus, books, fixtures and fittings, building, vehicles, fauna and flora in the college.
 - 5. Not attending class and not participating in curricular activities as per the University ordinances.
 - 6. Not appearing in class tests and examinations.
 - 7. Not paying attention to mentor advice and warning notices.
 - 8. Wearing poor, indecent and Provocative dresses.
 - 9. Coming late to the college and leaving early.
 - Leaving college premises or hostel without permission of the Principal, Teacher, mentor, warden etc, as the case may be.
 - 11. Not paying dues and fee in time.
 - Not following the college calendar and timing for co-curricular and extracurricular activities such as games and sports, cultural activities etc.
 - Forming clubs, association, society, forum or groups without the permission of appropriate authority such as Principal, Mentor, warden, proctor or other college authority.
 - Spreading unfounded rumors or canards, which may disrupt the college activities and disturb the college discipline.
 - 15. Using unfair means in test and examinations.
 - Causing injury to any person or participating in acts of hooliganism within and outside the college campus and in public places such as roads, bus stand, cinema halls, railway station, airport, factories, restaurants, dhabas, hotels etc.
 - 17. Indulge in any act, which may on investigation be confirmed as an act of indiscipline by the college or by Law.

C. Reporting of Acts of Indiscipline

The following will observe and report acts of indiscipline by the students to the Apex Disciplinary Committee consisting of the Senior Advisor, Principal, director HRD, one or more HODs and a member of the society or its nominee.

- Class/Subject teacher : Late coming, shortage of attendance, indiscipline, ragging and lack of attentiveness
 or concentration in classes, indecent clothing, poor performance in test and examinations and laboratory
 activities and workshops.
- 2. Mentor : General behaviour of student with teachers, colleagues, employees etc.
- Warden : Behaviour in hostels and default in paying dues.
 Librarian : Behaviour in library, damages to books, theft of books etc.
- Proctor: Late coming / early going, general behaviour in the campus with colleagues, teachers, employees etc. Discipline in the public place.
- 6. Any employee : Affected by an act of indiscipline.
- 7. Any Student : Affected by act of indiscipline.



Self Assessment Report

D. Anti-Ragging Measures

- a) All students shall follow the UGC/AICTE Regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009, State Government/RTU/College Authorities Guidelines etc. on the subject.
- b) Any violation of the guidelines would result in expulsion from the college besides the penal action as may be decided by the authorities in this regard.

E. Penalty for acts of Indiscipline

When an act of indiscipline has been reported to the Apex Discipline Committee (ADC) a sub-committee formed by ADC shall investigate the reported act of indiscipline thoroughly and submit a detailed report on the incident.

The ADC will then examine the report and take suitable action against the incumbent depending on the serverity of the act of indiscipline.

The following penalty may be imposed on a student.

- Warning and Reprimand
- 2. Fine
- 3. Warning and Fine
- Deduction of marks in DECA marks
- 5. Withholding permission to participate in an activity or examination
- Rustication from the College for a certain period
 Reporting to police if the act falls under penal law
- Removal from hostel

F. Some Specific Penalties

S. No.	Area of Indiscipline	PUNISHMENT (one or more)
1.	Class attendance less than 75%	Not allowed to appear in examinations
2.	Coming late to college	1. Warning 2. Deduction of discipline marks
3.	Damage to items and property	1. Recovery of cost 2. Appropriate fine
4.	Damage / Theft of Books	 Warning Recovery of double the cost of Book Fine of Rs. 250/-
5.	Misbehavior	1. Warning 2. Fine of Rs. 1000/- to 2000/-
6.	Indiscipline in Hostel	 Warning Fine of Rs. 1000/- to 2000/- Rustication from Hostel
7.	Unfair means in examinations	 Action as per university rules including Police case
8.	Hooliganism / Ragging	Warning Deduction of discipline marks S. Police case Fine that can go to even Rs. One Lakh S. Rustication from the college

Principal



Self Assessment Report



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

HOSTEL RULES AND REGULATIONS

1. General

- a) The hostel facility includes boarding and lodging and is meant for those students of JECRC Foundation who are not residents of Jaipur and are serious about their studies, can maintain proper discipline and decorum.
- b) Hostel facility may be provided to the students, who are of Jaipur only if spare capacity is available at the direction of administration.
- c) The rooms are double and triple scated with facilities such as cot, study table, chair and wardrobe. The students will have to bring their own mattress and pillow with linen.
- d) All residents of the hostel shall follow the hostel rules & regulations.
- e) Hostel room is allotted for the academic session i.e. beginning of session to 3 days after the last date of RTU exams.

2. Hostel Charges

- a) The annual hostel charges such as rent and boarding and other miscellaneous charges are decided by the College administration. Such charges are payable by the resident in two instalments. The first instalment is payable at the beginning of the session along with Rs. 5000/- as security deposit. The second instalment is payable as decided by the administration.
- b) If the dues are not paid timely, the membership for the hostel shall cease automatically and the student shall have to apply afresh for renewal /readmission.
- c) No refund shall be made by the college if a resident leaves the hostel before the expiry of the session, and the balance outstanding fee if any will be recoverable from the student.

3. Vacating the Hostel

- a) If a resident wishes to leave the hostel he/she will have to give one month's notice and will be allowed to leave only when the Principal and the Chief Warden/CAO give their permission. However, no claim for any refund of charges will be entertained.
- b) Further, if a resident is found or held guilty of indiscipline, ragging or any other such activity which is against the rules, norms and instructions of the institute, he/she shall be directed to leave the hostel by the Chief Warden/CAO. In such cases also there shall be no refund of any charges.
- c) Security charges of Rs. 5000/- will however be refunded after getting a no dues certificate from the Chief Warden/Warden.
- d) If a resident is found involved in ragging, his admission to the hostel and in the college will be cancelled and in view of Supreme Court's directives a case will be registered in the Police Station against him / her.

4. Mess Rules

- Residents shall take all their meals in the hostel mess. This includes breakfast funch, tea and dinner. Nonvegetarian meals or snacks including eggs shall neither be served nor be permitted.
- b) Residents will be served meals only during the prescribed timings as indicated below :

S.No.	Activites	Summer
1.	Breakfast	7.30 to 8.25 a.m.
2	Lunch	11.45 a.m. to 1.15 p.m.
3	Tea	5,30 to 6,00 p.m.
4	Dinner	8.00 to 9.00 p.m.



Self Assessment Report

- c) All residents shall be provided common menu.
- d) Residents shall not carry their meals wholly or in part, outside the mess. They shall not carry any utensil or other property of the mess outside the dining hall. In case of non-compliance, a fine of Rs. 50/- will be charged from the defaulters.
- e) Residents shall not interfere with cooking or other services and shall not handle mess equipment any time.
- Sick residents may be allowed to eat their meals in their rooms with the written permission of the warden.
- g) No outsider shall take breakfast, lunch, tea or dirner without prior written permission of the warden. If permitted, the host resident shall pay the charges in advance to the college through coupons available at college counter.
- h) Resident shall coperate with the mess employees and deal with them in a polite and courteous manner.
- i) Residents shall pay thier mess dues regularly as prescribed.
- Lodging and board facility may be made available during vacation provided atleast 60 of the residents stay in the hostel. No boarding charges will be refunded at any time once paid.
- k) Dress code All residents will enter the hostel dining hall in proper presentable dress at all times. Students shall not be allowed to enter in bathroom slippers, shorts and sleeping suits.

5. Entry in / Out of Hostel

- a) The following timing shall be observed for maintenance of discipline in Hostel and Institute Campus.
 - a. Opening of Hostel Gate
- 06.00 a.m. 09.30 p.m.
- b. Closing of Hostel Gate (Boys)
 c. Closing of Hostel Gate (Girls)
 - 07.30 p.m. (Summer), 6.00 p.m. (Winter)
- b) Residents shall not go outside their rooms between 10:00 and 6:00 a.m. without permission of the Chief Warden/Warden I/C except for attending institute's functions or authorised academic work in the institute. Attendance may be taken during these hours.
- c) Residents shall not leave station without obtaining prior written permission of the warden. They shall report to the warden immediately on return.
- d) Residents shall not invite any unauthorised person in their hostel. They shall deal only with the authorized vendors, washermen, cobblers etc. during the prescribed hours any pay them at prescribed rates.
- e) Visit of outside person (including parents) to residents of hostel will be restricted up to the "Visitors room" only. No hosteller shall take his/her guest to his room in any circumstances. In exceptional circumstances, parents may be allowed to stay for a day in the guest room, on prior approval of Principal/CAO/Chief Warden, on payment of the prescribed charges which are presently Rs. 250/- per bed per day. In no case shall the parent stay in the hosteller's room.
- f) No visitors or parents are allowed to enter the hostel rooms in any case.
- g) No resident shall stay in the hostel during college hours without a valid reason which must be informed to warden. It is clarified that illness or health reason will be taken as a valid reason, Free period, visitors from outside etc, will not be taken as a valid reason.
- No day-scholar is permitted to enter the hostel during college hours. Suitable action and fine will be imposed upon him/her if reported by the Chief Warden/CAO.
- No resident shall leave the college campus without making necessary entries in the register kept with the guard at the college gate/hostel gate. After return he/she enter the time of return in the register.

6. Use & Facilities

- a) A student who has opted for hostel shall reside only in the hostel and the room allotted to him/her.
- b) Residents shall be reponsible for all furniture, electrical and other fixtures in the their rooms. They shall not



Self Assessment Report

disfigure or paint of stick photos, posters etc on walls, doors and windows or otherwise damage them. Failing Which Damage Charges Shall be levied per room. Residents are expected to maintain perfect discipline and proper atmosphere.

- c) Proper use of water and electricity shall be ensured and lights shall be switched off and taps closed when not in use. Defaulters shall be punished @ Rs 100/- per day
- d) Proper permission (at least 1 day in advance) shall be taken in writing from warden for going to LG or home.
- e) Girls hostellers shall obtain a gate pass from the warden for going out of hostel/campus which shall be limited to 06 nos per month. First year girl hostellers are not allowed any outing in the first six months. However, to cater for any of their urgent legitimate requirements, a warden shall accompany/take them outside the campus once a fortnight, on Sunday for 3-4 hours.
- f) At the end of academic year or while leaving the institute, each resident shall handover the charge of his room with all furniture and fixture to hostel warden and pay the cost of all damages and shortage is detected in his her room. In case of non compliance a fine Rs. 250/- will be charged.
- g) Residents shall not use heaters or any other power appliance in their rooms.
- h) Use of alcoholic drinks or narcotic materials or gambling in any from is strictly prohibited in the hostel and institute premises. Defaulters shall be expelled from the hostel.
- Residents shall maintain decorum and dignity and shall not create any nuisance or disturbance for the neighbouring residents.
- Residents shall not organize any party assembly or activity in the hostel without the permission of the Principal.
- Residents shall not invite any speaker to address a hostel meeting without the permission of the Chief Warden/CAO/Principal.
- Residents shall not remove newspaper, magazine, furniture, radio, TV or games-material from the common rooms or mishandle or damage them.
- m) Residents shall cooperate with the Warden and fellow hostellers and obey warden's instructions on all matters concerning hostel/mess.

7. Problem Solving Committee

The residents would form a committee of three residents who would discuss the problems related to hostel every fortnight with the Chief Warden/CAO/Principal with facts and possible suggestions so that reasonable solutions could be found to their problems.

8. Rights of College Administration

- a) On matters not coverned by these rules, the discretion of Warden Administration shall be final and binding.
- b) The college administration has full right to deny accommodation to any or all students at anytime in the overall interest of the college.
- c) The college administration reserves the right to change the rules and regulation in the overall interest of the college.

I have read & Understood the above

(Signature of Student)

(Signature of Parents)

Chief Warden / CAO



Self Assessment Report

LIBRARY RULES

A. MEMBERSHIP

- 1. All the students of JECRC are members of the library.
- 2. Books will be issued only on presentation of the IDENTITY CARD.

B. WORKINGHOURS

- 1. The library will remain open from 8.15 to 8.00 pm. till further notice.
- 2. Issue and return services will be available between 8.30 am and 5.00 pm.

C. PROCEDURE

- 1. Always-bring your "IDENTITY CARD" while you are in the library.
- 2. Keep you bags, file, books and other materials outside the library in the space provided.
- Silence should be maintained while you are in the library. Please don't distrub the arrangement at your will.
- Books will be issued for 14 days. The book should be returned to the library by the DUE DATE otherwise a sum of Rs.1/- (Rupee one) per day per book will be charged as DUE OVER CHARGE.
- Once issued the book will not be re-issued on the same day. If there is a demand from any other student, the same book will be retained and will be issued to that student.
- 6. Members can ask for a title not available in the library but required for academics work.
- 7. To recall any books before the due date.
- REFERENCE BOOK'S DICTIONARIES, DIRECTORIES, PERIODICALS are not issuable. Members are expected to refer to the same in the library only.
- Any damage done to the <u>BOOK AND PERIODICAL replacement</u>, the double cost will be charged along with a fine. Any kind of MARKING, WRITING OF NAME, FOLDING OF PAGES" will be treated as CAUSING DAMAGE".
- The "RESERVE TEXT BOOK, REFERENCE BOOK" will be issued for reading room only on your identity care. If there is no reserve book please contact Librarian/Asstt. Librarian for help.
- At the end of the session, every student should return the library cards before proceeding, failing which no new eards will be issued and a fine will be charged.
- Students have to put their signature in the register available at the entrance of the library and show identity card. Without identity card, no entry will be allowed in the library.
- 13. Any student found not obeying the library rules and disturbing the library will be deprived of the library facility
- 14. Reader should observe strict silence inside the library.
- 15. User of mobile phone are not permitted in the library block.

CHIEF LIBRARIAN



Self Assessment Report

TRANSPORT RULES & REGULATIONS

- 1. Transport Fee for the entire session will be paid in advance at the beginning of the session.
- 2. Boarding in the bus will not be allowed without valid Identity card/Fee receipt for the current session.
- 3. Pickup time from every point is fixed and the bus will not wait at any pickup point.
- Pickup point and bus route would be decide by the college administration. Every one is required to board the bus from a designated point only.
- 5. Bus facility is not available on Sunday/Holidays/during Vacation.
- 6. The college administration is not liable to provide alternative transport arrangement :-
 - If a student is required to attend college during Sunday/Holiday/Vacation. Student will have to make his/her own arrangement to reach the college.
 - (ii) If a student misses the bus for any reason.
 - (iii) If the student is required to go to any other college for examination / other work.
- 7. The college management is not responsible for theft/loss of property during travel in bus.
- 8. In case of breakdown of the college bus, no charges towards alternative conveyance would be paid.
- 9. No one would be compensated for the distance covered by him/her for boarding the bus from designated point.
- 10. Ragging is strictly prohibited by law. Any student who is travelling in the college bus found indulging himself/hereself/directly/indirectly in disciplinary activities like theft case/ragging/fighting/quarrelling/use of abusive language/ misbehave with fellow students, juniors/seniors and also with staff members, disciplinary action shall be initiated against him/her as deemed necessary or may be handed over to police for legal proceedings according to nature of offence for which entire responsibility will lie with the concerned student.
- Every one is expected to maintain a proper discipline during the journey. Any loss or damage to college bus due to
 indisciplinary activities by a student during the journey will attract penalty as per rules.
- The boarding is entirely at risk of the student availing transport faculty. The college administration does not own any type of responsibility towards compensation of any nature whatsoever.
- 13. Anit-Ragging Measures
 - all students using the bus facility shall follow the UGC/AICTE regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009, state Government/RTU/College Authorities Guidelines etc. on the subject. The bus facility user student and his/her parent will have to submit separate undertakings in the form of affidavits, before making use of the bus facility.
 - b) Any violation of the gridlines would result in expulsion from the bus facility and/or college besides the penal action as may be decided by the authorities in this regard.

14. In case of any emergency, contact transport incharge.

Date

Signature of Parent/Guardian

Signature of Student



Self Assessment Report



Dear Students,

- 1 We welcome and congratulate you for seeking admission in this college. It is a fact that in this transitional phase you have left your school life and probably homely environment and would be entering into a new phase. Therefore, we would be more than willing to help you solving problems/difficulties, if any faced by you as a fresher and would extend all the necessary help.
- To overcome the menace of ragging, college, administration has already made plans for FRESHERS' inducationa and orientation, which promote efficient and effective means of integrating. These planse will be communicated to you by the office shortly.
- Besides, we all would ensure that ugly scar of ragging is obliterated from the face of all educational institutions. Here, we would like to inform you that you may turn up to the following persons in case of any help/guidance in the most unlikely event of the so-called ragging.

S.No.	Name	Designation	Mobile Number
1.	Dr. UK Pareek	Chief Proctor	9785506667
2.	Ms. Ruchi Mathur	Proctor	98281590XX
3.	Mr. Anshul Mittal	Proctor	9772620462
4.	Ms. Shruti Kalra	Proctor	9414371413
5.	Dr. M. P. Singh	Proctor	9414203639
6.	Dr. Anita Jain	Chief Librarian	9829230353
7.	Ms. Sanjay Raghav	Warden Girls Hostel	9982603534
8.	Mr. Ravi Bhatnagar	Transport Incharge	9024149459
9.	Sh. PK Gupta	Chief Warden/CAO	9982682475
10.	Sh. Ashok Sharma	Warden Boys Hostel	9982682914

4. You are instructed that you should desist form doing anything against your will even if required by the seniors and should not have any fear, as the institution cares for you and shall not tolerate any mischief against any student.

 You are requested not to hesitate in seeking any help and guidance and to report any incidents of harassment, teasing etc., either as victim or even as a witness.

May I add that your college has always been ragging-free.

Wishing you a bright future in the college.

Principal

10.2. Budget Allocation, Utilization, and Public Accounting at Institute level Summary of current financial year's budget and actual expenditure incurred (for the institutionexclusively) in the three previous financial years.



Self Assessment Report

BUDGET AND EXPENDITURE

Other then R&D

S.No.	Year	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	2016-17	96,48,900	80,47,282	50,65,769	30,94,911
2	2017-18	1,70,65,541	1,53,70,784	81,79,279	73,91,115
3	2018-19 (Proposed)	2,05,05,170			

Training & Placement Budget for students : As per audited statement from accounts.

R&D Budget of institute for students

S.No.	Year	Budget	Total Expenditure	Expenditure by the Institute	(in IN) Fund generated from other sources
1	2015-16	2,50,000	2,50,000	2,50,000	0
2	2016-17	5,00,000	4,97,600	4,97,600	0
3	2017-18	10,00,000	10,03,100	10,03,100	0
3	2018-19 (Proposed)	20,00,000			

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Self Assessment Report

Non Recurring Budget of the institute

S.No.	Year	Budget	Total Expenditure	Expenditure by the Institute	(in IN Fund generated from other sources
1	2016-17	79,00,000 √	73,88,210	73,88,210	0
2	2017-18	81,00,000 🗸	68,92,020	68,92,020	0
3	2018-19 (Proposed)	85,00,000			



Self Assessment Report

Budget and Expenditure (year wise summary)

Year 2016-17

(In INR)

S.No.	Branch/Section	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Computer Science & Engineering	2148200	1570026	1233095	336931
2	Electrical Engineering	121500	55386	25734	29652
3	Civil Engineering	24000	23813	13813	10000
4	Electronics & Communication Engineering	813200	481715	156698	360950
5	InformationTechnology	119000	105027	1711	104450
6	Mechanical Engineering	407300	308069	105500	- 278900
7	First Year	537100	545024	43439	501585
8	Alumni Annual budget	352500	337478	337478	0
9	JECRC MUN	411000	372331	95000	277331
10	Soch	87000	86000	33000	53000
11	Zarurat	350000	317500	215000	102500
12	Aashayein	125000	105116	95736	9380
13	Suhasini	18000	15350	3900	11450
14	Library	700000	477100	477100	0
15	Sports	150000	125263	77063	48200
16	Student Development Cell	557100	523114	523114	o
17	Other Activities at College level	2728000	2598970	1628388	970582
	Total	96,48,900	80,47,282	50,65,769	30,94,911

Difference of Total Expenditure: Expenditure by the institute and Fund generated from other sources is the seed money for the upcoming events.

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Year 2017-18

S.No.	Branch/Section	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Computer Science & Engineering	3469800	3052595	2187173	865422
2	Electrical Engineering	343725	241134	42585	198549
3	Civil Engineering	1548000	1503364	15408	1487956
4	Electronics & Communication Engineering	2952900	2654761	1644598	1103670
5	Information Technology	645700	450022	133924	361500
6	Mechanical Engineering	1502770	1338669	828870	570500
7	First Year	404860	264987	47987	217000
8	Alumni Annual Budget	143500	147006	147006	0
9	JECRC MUN	403786	375144	101813	273331
10	Soch	60500	59000	13500	45500
11	Zarurat	332500	286300	168050	118250
12	Aashayein	189500	180900	180900	0
13	Suhasini	24000 '	21500	9000	12500
14	Library	700000	634300	634300	0
15	Sports	150000	130659	75659	55000
16	Student Development Cell	619000	578315	578315	o
16	Other Activities at College level	3575000	3452128	1370191	ל 2081933
	Total	1,70,65,541	1,53,70,784	81,79,279	73,91,115

Difference of Total Expenditure: Expenditure by the institute and Fund generated from other sources is the seed money for the upcoming events.

Jaipur Engineering College & Research Center.



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Proposed Year 2018-19

S.No.	Branch/Section	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Computer Science & Engineering	7550000			Jources
2	Electrical Engineering	692950			
3	Civil Engineering	177720			
4	Electronics & Communication Engineering	1965000	3		
5	Information Technology	950000	×		
6	Mechanical Engineering	1372000			
7	First Year	424000		×	
8	Alumni Annual Budget	200000			
9	JECRC MUN	421000			
10	Soch	70000			
11	Zarurat	350000			
12	· Aashayein	145000			
13	Suhasini	42500			
14	Library	1000000	· · · ·		
15	Sports	180000			
16	Student Development Cell	675000			
17	Other Activities at College level	4290000			
	Total	2,05,05,170			

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PRINCIPAL Jaipur Engineering College & Proverth Content Topic Topic Topic 7 - 303 905 33



Self Assessment Report

10.3. Program Specific Budget Allocation, Utilization

Computer Science & Engineering

Year 2016-17

(In INR)

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	84400	80129	6100	74029
2	Co-Curricular Activity	288800	267902	5000	262902
3	Consumable Items	1275000	842943	842943	202902
4	Non Consumable Items	500000	379052	379052	0
	Total	21,48,200	15,70,026	12,33,095	3,36,931

Year 2017-18

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	1401800	1135742	270800	864942
2	Co-Curricular Activity	18000	17355	16875	the second se
3	Consumable Items	1500000	1351209		480
4	Non Consumable Items	550000		1351209	0
			548289	548289	0
	Total	34,69,800	30,52,595	21,87,173	8,65,422

Proposed for Year 2018-19

S.No.	Activity	Proposed Budget	Total Expenditure	Expenditure by the Institute	100000000000000000000000000000000000000
1	Curricular Activity	2300000			sources
2	Co-Curricular Activity	200000	14		
3	Consumable Items	1550000	Construction and the second second		
4	Non Consumable Items	3500000			
-	Total	75,50,000	+		

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PRINCIPAL Jaipur Engineering College & Research Contest Tonk Rost, Johan - 303 905



Self Assessment Report

Information Technology

Year 2016-17

(In INR)

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	19000	14210	1711	13550
2	Co-Curricular Activity	100000	90817	0	90900
100	Total	1,19,000	1,05,027	1,711	1,04,450

Year 2017-18

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	605700	418937	133924	330500
2	Co-Curricular Activity	40000	31085	× 0	31000
	Total	6,45,700	4,50,022	1,33,924	3,61,500

Proposed Year 2018-19

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	950000			
2	Co-Curricular Activity	0			
12	Total	9,50,000			

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Consumable and non consumable items are taken care with the Computer Science & Engineering budget.

PRINCIPAL Jaipur Engineering College & Pescarch Conton Tonk Road, Johns - 303 905



Self Assessment Report

Electrical Engineering

Year 2016-17

(In INR)

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	56500	50452	20800	29652
2	Co-Curricular Activity	0	0	0	0
3	Consumable Items	15000	4934	4934	0
4	Non Consumable Items	50000	0	0	0
	Total	1,21,500	55,386	25,734	29,652

Year 2017-18

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	276525	238094	41745	196349
2	Co-Curricular Activity	2200	2200	0	2200
3	Consumable Items	15000	840	840	0
4	Non Consumable Items	50000	0	0	0
	Total	3,43,725	2,41,134	42,585	1,98,549

Proposed Year 2018-19

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	685000			
2	Co-Curricular Activity	0			
3	Consumable Items	7950			
4	Non Consumable Items	0			
	Total	6,92,950			

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PRINCIPAL Jaipur Engineering College & Research Conner Tonk Road, Johnr - 303 905



Self Assessment Report

Mechanical Engineering

Year 2016-17

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(In INR)

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	218500	131500	3500	202000
2	Co-Curricular Activity	78800	74569	0	76900
3	Consumable Items	110000	102000	102000	70900
4	Non consumable items		102000	102000	0
	Total	4,07,300	3,08,069	1,05,500	2,78,900

Year 2017-18

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	583500	450000	4000	495000
2	Co-Curricular Activity	71000	63799	4000	
3	Consumable Items	123270		0	75500
4	Non consumable Items	725000	93270	93270	0
			731600	731600	0
	Total	15,02,770	13,38,669	8,28,870	5,70,500

Proposed Year 2018-19

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other
1	Curricular Activity	315000			sources
2	Co-Curricular Activity	120000			
3	Consumable Items	187000			
4	Non Consumable items	750000			
	Total	13,72,000			

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PRINCIPAL Jaipur Engineering College & Research Control Tonk Road, 1970, 2003 905



Self Assessment Report

Civil Engineering

Year 2016-17

(In INR)

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	15000	15000	5000	10000
2	Co-Curricular Activity	0	0	0	0
3	Consumable Items	9000	8813	8813	0
4	Non Consumable Items	0	0	0	0
	Total	24,000	23,813	13,813	10.000

Year 2017-18

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	82000	81081	0	81081
2	Co-Curricular Activity	0	0	0	0
3	Consumable Items	16000	15408	15408	0
4	Non Consumable	1450000	1406875	0	1406875
	Total	15,48,000	15,03,364	15,408	14.87,956

Proposed Year 2018-19

S,No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	100000			adarees
2	Co-Curricular Activity	0			
3	Consumable Items	77720			
4	Non Consumable Items	0	-		
	Total	1,77,720			

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PRINCIPAL Jaipur Engineering College & Research (José Coast 1 den 300 905



Self Assessment Report

Electronics & Communication Engineering

Year 2016-17

(In INR)

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	303200	325017	0	360950
2	Co-Curricular Activity	0	0	0	0
3	Consumable Items	10000	2463	2463	0
4	Non consumable Items	500000	154235	154235	0
	Total	8,13,200	4,81,715	1,56,698	3,60,950

Year 2017-18

.

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	1327900	1010163	0	1103670
2	Co-Curricular Activity	0	0	0	0
3	Consumable Items	25000	11648	11648	0
4	Non consumable Items	1600000	1632950	1632950	0
	Total	29,52,900	26,54,761	16,44,598	11,03,670

Proposed Year 2018-19

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	1340000			- Antel Grand
2	Co-Curricular Activity	0			
3	Consumable Items	25000			
4	Non consumable Items	600000			
	Total	19,65,000			

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PRINCIPAL Jaipur Eactionais Recordin Court Toole Road, 11 Jan - 303 905



Self Assessment Report

I Year

Year 2016-17

(In INR)

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	286000	303800	0	303800
2	Co-Curricular Activity	26100	25873	2323	23550
3	Consumable Items	141000	139689	28349	111340
4	Non Consumable Items	84000	75662	12767	62895
	Total	5,37,100	5,45,024	43,439	5,01,585

Year 2017-18

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Curricular Activity	288660	173750	0	173750
2 .	Co-Curricular Activity	40400	44800	1550	43250
3	Consumable Items	73000	45547	45547	43230
4	Non Consumable Items	2800	890	890	0
	Total	404860	264987	47987	217000

Proposed Year 2018-19

S.No.	Activity	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1 a.	Curricular Activity	323000			sources
2	Co-Curricular Activity	10000			
3	Consumable Items	81000	Contraction of the second		
4	Non Consumable Items	10000	500		
	Total	4,24,000			1

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TRINCIPAL Jaipur Engineerin - College & Rosearch Conten Tonk Road, Jaipur - 303 905



Self Assessment Report

Utilization of allocated funds

Budget and Expenditure - Non Recurring

Year 2016-17

(In INR)

S.No.	Branch/Section	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Deepawali Gifts to the staff members	1000000	917520	917520	0
2	Tent and others	200000	200000	200000	0
3	Printing (Banner, Posters, Brochures etc.)	1200000	1183321	1183321	0
4	Civil Maintenance	5500000	5087369	5087369	0
	Total	79,00,000	73,88,210	73,88,210	0

Year 2017-18

S.No.	Branch/Section	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Deepawali Gifts to the staff members	1000000	1000000	1000000	0
2	Tent and others	1000000	940000	940000	0
3	Printing (Banner, Posters, Brochures etc.)	1100000	1147973	1147973	0
4	Civil Maintenance	5000000	3804047	3804047	0
1	Total	81,00,000	68,92,020 🗸	68,92,020	0

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PRINCIPAL Jaipur Engineering College & Research Center Tonit Road, Jaipur - 303 905

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Self Assessment Report

Proposed 2018-19

S.No.	Branch/Section	Budget	Total Expenditure	Expenditure by the Institute	Fund generated from other sources
1	Deepawali Gifts to the staff members	1000000			
2	Tent and others	1000000			
3	Printing (Banner, Posters, Brochures etc.)	1500000			
4	Civil Maintenance	5000000			
5	Total	85,00,000			

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PRINCIPAL Jaipur Engineering College & Research Contra Tonk Road Chicar - 303 905



Self Assessment Report

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CONTENT BEYOND SYLLABUS

(1) By the Industries

S. No.	Training	SPOC	Starting date	Last date	No. of Students	Fee collected (Rs.)
1	Linux - Red Hat-I	ECE/CS	17.01.18	26.01.18	173 (CS-119, IT-21, EE-4, ECE-29)	34600
2	Linux - Red Hat-II	ECE/CS	19.02.2018	28.02.2018	62 (40-CS, 8- EC,14-IT)	12400
3	Customer Relationship Management - Sales force	IT	17.01.18	22.3.2018	111 (CS-74, IT- 33, EE-01, ECE-03)	444000
4	Apps & Ideas	ECE,ME	07.09.17	15.02.18	17 (EC-6, CS-8, IT-1, ME-2)	51000
5	Robotics - SakRobotics	ECE	19.01.18	22.01.18	66 (EC-11, I yr -55)	99000
6	Embedded System- Techienest-Slot I	ECE	22.01.18	15.3.2018	35- EC	175000
7	Embedded System- Techienest- Slot 2	ECE	8.2.2018	5.4.2018	21-EC	105000
8	AutoCAD	CE	12.3.2018	16,4,2018	16-CE	56000
9	AutoCAD, Solidworks and Ansys Software- CADD centre	ME	29.1.2018	21.4.2018	38-ME	296000
10	Machine learning and IOT-Forsk	CS	01.02.18	22.3.2018	27 (CS-9,IT- 9,EC-8, EE-1)	132300
11	Core JAVA and Android	EE	9.2.2018	21.4.2018	42-EE	126000
12	Expert Lectures - Engineers Academy	Expert Lectu	res in each branch, .	Junuary-March	2018	Free
		1			Total Rs.	15,31,800

(2) By the Faculty Members

S. No.	Training	SPOC	Starting date	Last date	No. of Students	Fee collected
1	Python	IT	17.01.18	15.02.18	334IT	Free
2	Organization of student developer (OSD)	IT	18.01.18	20.03.18	11-IT	Free
3	C, C++	CSE	22.01.18		22-CS	Free

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Self Assessment Report

S.No.	Topic	Agency	Amount (Rs.)	Remarks
1	Rural Technology Business Incubation (RTBI)	DST Rajasthan	30,00,000	F.No. 15(2)DST/ EDP-SDP/2016- 17/Part 1/3432 dt 25.01.18
2	Validation and scientific basis of meditation and omnics and their role as therapeutic targets	DST CSRI	42,56,400	File No. SR/CSRI/131/2012

RESEARCH GRANTS

V. Our

PRINCIPAL Jeipur Engliserin (College & Reference College Turk Barry, John - 303 905



PROPOSED FDP/WORKSHOP/SEMINAR 2018-19

1. By the RTU Kota

S. No.	Topie	Agency	Amount (Rs.)	Remarks
1	Mathematical Modelling and optimization of industrial problems	TEQIP III – RTU (ATU)	2,00,000	No. RTU/TEQIP- III/F(56)/2017- 18/114-22 dt 23.02.18
2	Smart India Hackathon and Innovation & Startup competition	TEQIP III – RTU (ATU)	Budget yet to finalize by the RTU. Our request for Rs. 10 Lacs send to RTU	No. RTU/IEQIP- III/F (56)/2017- 18/1272-81 dt 25.04.18
3	MOOCs and Digital Content Development	TEQIP III – RTU (ATU)	2,00,000	RTU/TEQUIP- III/F(56)/2017- 18/284-292 dt 30.04.18
4	Business Entrepreneurship Development (BED Lab)	TEQIP III – RTU (ATU)	4,77,500	Activity during 18-22 Dec. 18
5	Art of Innovative & Impactful Teaching	TEQIP III - RTU (ATU)	4,77,500	Activity during 25-29 Sep 18
6	Emerging trends in optical fiber and photonics for future communication systems	TEQIP III – RTU (ATU)	4,77,500	Activity during Aug 28 – 1 Sep 18
7	Renewable Energy Management and techniques for a sustainable future	TEQIP III – RTU (ATU)	4,77,500	Activity during 12-16 Nov 18

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Self Assessment Report

PROPOSAL SENT TO THE GOVERNMENT AGENCIES FOR DIFFERENT ACTIVITIES

S. No.	Date of submission	Funding agency	Project	Funding amount (R5.)	Remarks
1	22/12/2016	of Sci. & Tech., New Delhi	Quantitative and Qualitative Assessment of Drivers and Barriers to Green Manufacturing in the state of Rajasthan	46,38,700	Not approved
2 -	10/01/2018		Third International Congress on Information and Communication Technology (ICICT)-2018 at UK London	12,10,000	
3	29/11/2017	AICTE, New Delhi	Grant for conference ICETEAS-2018	5,00,000	
4	30/11/2017	AICTE, New Delhi	TA grant for ICICT-2018 UK London - Dr. V.K. Chandna	2,20,000	
5	30/11/2017	AICTE, New Delhi	TA grant for ICICT-2018 UK London – Dr. V.S. Rathore	2,20,000	

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Self Assessment Report

	2014-15	2015-16	2016-17
Total number of consultancy projects	18	10	22
Total number of client organizations	02	02	- 15
Amount	3,90,750.00	2,62,630.00	2,30,401.00

CONSULTANCY

V.OW PRENCIPAL. Jaipus Englishmich College & Research Count Tonk floor, 2014 - 302 905

ii. TEQIP Activities by RTU Kota

S.No.	Activity	Date	Budget Amount	Reference No.
1	Smart India Hackathon and Innovation & Startup competition	Dec. 2018	Yet to finalize by the RTU Committee	No. RTU/TEQIP- III/F (56)/2017- 18/1272-81 dt 25.04.18
2	MOOCs and Digital Content Development	20-21 Dec 2019	Rs. 2,00,000	RTU/TEQUIP- III/F(56)/2017- 18/284-292 dt 30.04.18

V. Our

The audited statements



Self Assessment Report

2014-2015

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE JAIPUR

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Sr. No.	Items	Budgeted	Actual Expenses
100		201-	4-15
1	Infrastructure Built Up.	8,00,00,000	7,52,10,320
2	Library	4,00,000	3,91,210
3	Laboratory Equipments	20,00,000	21,40,919
4	Laboratory Consumables	4,50,000	4,63,736
5	Teaching and Non Teaching Staff Salary	10,00,00,000	10,00,16,936
6	Maintenance and Spares	90,00,000	94,48,551
7	R&D	2,50,000	68,200
8	Training & Travel	5,00,000	6,05,514
		19,26,00,000	18,83,45,386

Account Officer

		-	



Self Assessment Report

	Items	Budgeted	Actual Expenses
I	Infrastructure Built Up.	201	-16
2	[Ubrary	8,00,00,000	6,34,63,541
3	Laboratory Equipments	4,00,000	3,43,271
4	Laboratory Consumables	4,00,000	4,49,982
5	Teaching and Non Teaching and Mon	1,25,000	1,34,005
6	Maintenance and S	11,00,00,000	
7	Tale o	65,00,000	
-		2,50,000	
	Training & Travel	15,00,000	
	the second s	19,91,75,000	
6	Teaching and Non Teaching Staff Salary Maintenance and Spares R & D Training & Travel	11,00,00,000 65,00,000 2,50,000	11,71,12,336 68,52,453 2,88,050 17,00,810

Audered statement from Accounts

Sr. No.	Items	Budgeted	Actual Expenses
		2016-	-2017
1	Infrastructure Built Up	10,00,00,000.00	9,67,79,760.00
2	Library	2,00,000.00	1,95,808.00
3	Laboratory Equipments	0.00	0.00
4	Laboratory Consumables	1,50,000.00	1,54,970.00
5	Teaching & Non Teaching Staff Salary	13,00,00,000.00	13,37,26,913.00
б	Maintenance & Spares	50,00,000.00	50,87,369.00
. 7	R&D	0.00	0.00
8	Training & Travel	15,00,000.00	- 14,97,872.00
	Total	23,68,50,000.00	23,74,42,692.00

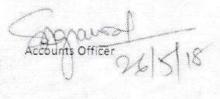
OLS: Accounts Officer 18



Self Assessment Report

Audited statement of Accounts

Sr. No.	Items	Budgeted	Actual Expenses
		2017	-2018
1	Infrastructure Built Up	12,00,00,000.00	11,85,85,024.00
2	Library	2,00,000.00	3,51,024.00
3	Laboratory Equipments	0.00	0.00
4	Laboratory Consumables	1,50,000.00	4,16,767.00
5	Teaching & Non Teaching Staff Salary	13,00,00,000.00	13;87,01,705.00
6	Maintenance & Spares	50,00,000.00	38,04,047.00
7	R&D	0.00	0.00
8	Training & Travel	15,00,000.00	23,26,635.09
	Total	25,68,50,000.00	26,41,85,202.09



10.4. Library and Internet



Self Assessment Report

710 014141-Application Celiciency Report 2.17- 244-60 A

Application Statist Submitted Apolloation Suc-Status: Payment Received .

- 12

Report Generalised on 5-2070/contr.

Type	Available	Re- public	Deficiency
Internet Bandwidth	001	-48	No
Printers	52	29	NO
A1 size Color Printers	1	0	No
Lagal Application S/W	28	20	No
Legal System S/W	8	3.4	No
PCs to Student ratio	808	680	NG

Library Facilities

Туре	Available	Raquired	Deficiency
Volumes	1 25684	24500 7.	No
Titles	4838	4660	No
National Journals	37	36	No
Library Management Software	1	1 .	Nσ
Reading Room Capacity	165	150	-No
MultiMediaPC	15	10	No

Instructional Area-Common Facilities

Туре	Actual Room Area (Sq. m.)	Expected Room Area (Sq	Deficiency
Computer Center	1 181	150	No
Library & Reading Room	609	400	No

Land Area Details

Type	Actual Room Area (Acres)	Expected Room Area	Deticlency
Total Area of Land	10.54	2.6	No
Maximum number of Pieces	1.1	1200	No
Maimum per Piece of Area	10.54	2.5	No

ENGINEERING AND TECHNOLOGY / Existing Programme

Тура	Level	Actual Room Aren (Sig.	Expected Room Arts (89- m.)	Deficiency
Class Rootti-	GRADUATE	4434	3366	No
Additional Workshop/Labe	UG/PG	800	200	No
Workshups	UG/PG:	4.0.0	200	No
Orawing Halas	UG/PG	140	132	No
Seminar Hail	UGPO	544	098	No
Laboratories-All	UG/PG	4525	3168	No

XX- No Rooms Available / Insufficient Data DIGA- Dota Not Available / Insufficient Data Blank Field-Data Not Enternet "Listontones required and Aduati Number includes Total Auroper of Laboratories, Research Laboratories, and Additional WS/Labs for US and PG opuraes, as applicable

20-02-2017 Date of Signature

***right - All the Dates in the Report are in ddl

Printed By: AICTENELP)

Seal of Institute a forma

Lact Name & signature of Director /Principal

Fage 4 of 5

Self Assessment Report

1 0 11 10 0 =

Tyme	Aduat Ream Area (Sq. m.)	Expected Books Area (So)	Deficiency
evera Carnitten Floom	66	78	
Birls Sommon Roam	86	28	1940
Calegatia	100	180	NO NO
Statiliners Store	15	1.10	Nice State
First ald gum Silck Reiom	38	10	his

Computational Fricilities

Туре	Available	Required	Deficiency
Internet Bandwidth	6.5	45	
Printers	61	56	Np
A1 size Oblor Printers	1	0	No
Least Appacation S/W	25	20	No
Legal System S/W	9	3	No .*
PCs to Student ratio	090	550	No

Library Facilities

Туре	Available	Required	Deficiency
Volumes 2	23568	23000	
Tipes	4572	4490	No
National Awartats	.40	36	No
Library Management Software	1.	1 1	No
Reading Room Capacity	165	150	
VluttiMediaPC	15	10	No

Instructional Area-Common Facilities

Туре	Actual Room Area (5q. m.)	Expected Room Area (Sq.	Deficiency
Computer Center	161	160	CONTRACTOR AND
Library & Reading Room	609	400	No

Land Area Detalls

Туре	Actual Room Area (Acres)	Expected Room Area	Deficiency
Total Area of Land	10.54	2.6	
Maximum number of Pieces	1		No
Maximum per Piece of Area	10.54	2	No
the second s	1.1.010/2	1.2.5	Net

ENGINEEBING AND TECHNOLOGY / Existing Programme

Туре	Lovel	Actual Room Area (3q.	Expected Room Area (Sq	Deficiency
Class Room- Tutonal Room	GRADUATE	5121	3267	No
VVorkshops.	UG/PG	467	2000	
Orawing Halls	UG/Per	140	200 -	No
Seminar Hall	UG/PG	412	102	No
Leboratories.At	UG/FIG	4525	398	No
	1 a and a	1 4222	3960	No

सहायक लेखानिकारी খাম বাস্য ভিয়াচনী পিনালিৰ মানিকাৰা

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Self Assessment Report

The Principal JECRC, Jaipur

Sub: Budget proposal for the year 2018-2019

Dear Sir,

It is stated that the following expenditure is proposed to be made with regards to purchases of library books for the session 2018-2019

Library Books Journals / E-resources News Papers & Periodicals Computer (05) for Multimedia Library Total Amount 5,00,000 2,50,000 1,00,000 <u>1,50,000</u> **10,00,000**

Principal





Self Assessment Report

The Principal JECRC, Jaipur

Sub: Budget proposal for the year 2017-2018

Dear Sir,

It is stated that the following expenditure is proposed to be made with regards to purchases of library books for the session 2017-2018

	Amount
Library Books	3,50,000
Journals / E-resources	2,50,000
News Papers & Periodicals	1,00,000
Total	7,00,000

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Self Assessment Report

The Principal JECRC, Jaipur

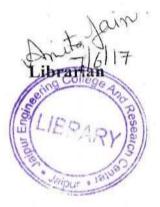
Sub: Budget proposal for the year 2016-2017

Dear Sir,

• It is stated that the following expenditure is proposed to be made with regards to purchases of library books for the session 2016-2017 -

	Amount
Library Books	4,50,000
Journals / E-resources	1,50,000
News Papers & Periodicals	1,00,000
Total	7,00,000

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Self Assessment Report

The Principal JECRC, Jaipur

Sub: Budget proposal for the year 2015-2016

Dear Sir,

It is stated that the following expenditure is proposed to be made with regards to purchases of library books for the session 2015-2016

1943 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 -	Amount
Library Books	4,50,000
Journals / E-resources	1,50,000
News Papers & Periodicals	1,00,000
Total	7,00,000

Principal





Self Assessment Report

S.No	Journals	Period	Cheques/DD in Favour of	Subscribed Rate	Periodicity
	Indian Jour. Of Computer Scicence & Information Technology	1 Yr.	Global Research Pub, New Delhi-	3500/-	Half Yearly
1	Indian Jour. Of Control Science & Engineering	1 Yr.	Global Research Pub. New Delhi-	3500/-	Half Yearly
m	Indian Jour. Of Civil Mechanical Engineering	1 Yr.	Global Research Pub. New Delhi-	-/005£	Half Yearly
+	Indian Jour. Of Engg. & Manufacturing Science	1 Wr.	Global Research Pub. New Delhi-	3500/-	Half Yearly
1.0	IEEMA Journals	3 Yr.	IEEMA Journals, Mumbai	2400/-	Monthly
6	University News	2 Yr.	Association of India Uiversity New Delhi	1700/-	Weekly
+	Digit	1 Yr.	Nine Dot, Nine interactive Pvt. Ltd. Mumbai.	1899/-	Monthly
-	Electronics for You	2 Yr.	Efy Enterprises Pvt. Ltd. New Delhi	1150/-	Monthly
	Linux for You	2 Yr.	Efy Enterprises Pvt. Ltd. New Delhi	2300/-	Monthly
10	Electronics Bazar	2 Yr.	Efy Enterprises Pvt. Ltd. New Delhi	-/00/-	Monthly
	Corporate India	2 Yr.	Corporate India Pub. Pvt. Ltd. Mumbai	2160/-	Fort-Nightly
12	Emerging Global Technology and Trends	1 Yr.	DELNET New Delhi	3540/-	Half Yearly
[2]	Indian Jour. Of Engg & Material Science	1 Yr.	NISCAIR, New Delhi	1600/-	Bio-Monthly
2	Indian Jour. Of Chemical Technology	I Yr.	NISCAIR, New Delhi	1600/-	Bia-Monthly
1	Indian Jour. Of Bio - Chemistry & Bio-Physics	I'Yr.	NISCAIR, New Delhi	-/0061	Bio-Monthly
5	Indian Jour. Of Science and Industrial Research	I Yr.	NISCAIR, New Delhi	3600/-	Monthly
17	Indian Jour. Chemistry Sec-A	1 Yr.	NISCAIR, New Delhi	4600/-	Monthly
13	Indian Jour. Of Pure & Applied Physics	IYr.	NISCAIR, New Delhi	3200/-	Monthly
	Annual of Library & Information Science Syuchters.	I Yr.	NISCAIR, New Delhi	1200/-	Quarterly



				1
	Name of Journals	Period	Cheque/D.D. in Favour of.	Subscritt ed Rafe
	Indian jour. Of Engg. & Material Science	1 Year	NISCAR New Dath	1600
_	Indian Jour. Of Chemical Technology	1 Year	NISCAR New Dath	1600/
	Indian Jour. Of Bio Chemistry & Bio Physics	1 Year	NISCAIR New Dathi	-/0061
- Art. 1	Indian Jour. Of Scientific and Industrial Research	1 Year	NISCAIR New Delhi	-/0091
-	Indian Jour. Of Chemistry Sec.A	1 Year	NISCAIR New Delhi	4600/-
-	Indian Jour. Of Pure & Applied Physics	1 Year	NISCAIR New Delhi	3200/-
51	Annual of Library & Information Studies	1 Yr.	NISCAIR New Delhi	1200/-
21	Jour. On Electrical Engg.	1 Year	Subscription Centre Abmadahad	2200/-
21	Jour. On Electronics Engg.	1 Year	Subscription Centre Ahmadahad	2209/
201	Jour. On Mechanical Engg.	1 Year	Subscription Centre Ahmadahad	2200/
-91	Jour. On Civil Engg.	1 Year	Subscription Centre Ahmadahad	2200/
.91	Jour. On Wireless Communication Networks	1 Year	Subscription Centre Ahmadahad	2200/
91	Jour. Of Cloud Computing	1 Year	Subscription Centre, Ahmadahad	2200/
201	Power Engineer Journals	1 Year	Indian Journals.com New Delhi	-/006
C	Indian Jour. Of Computer Science & Information Technology (V)	1 Year	Global Research Pub. New Delhi	3500/
= I	hidian Jour. Of Control Science & Engineering	1 Year	Global Research Pub. New Delhi	3500/-
201	Indian Jour. Of Civil Mechanical Engg.	1 Year	Global Research Pub. New Delhi	-/005E
-	Indian Jour. of Adv. Of Fuzzy System	1 Year	Global Research Pub. New Delhi	3500/-
- 24-1	Indian Jour. Of Engg & Manufacturing Science	1 Year	Global Research Pub. New Delhi	3500/-
	Int. Jour. Of Computer Science & Engg. Technology 201	1 Year	Subscription Centre, Ahmadabad	3500/-
- E I	Int. Jour. Of Advance in Software Engg.	1 Year	Subscription Centre, Ahmadabad	-/0058
120	Int. Jour. Of Electrical Engg. & Electronics System Research	1 Year	Subscription Centre, Ahmadabad	-/005E
100	Int. Jour. Of Mechanical Automobile Engg. & Research	1 Year	Subscription Centre. Ahmadabad	3500/-
	Int. Jour. Of VLSI Design	1 Year	Subscription Centre. Ahmadahad	-/0002
100	Int. Jour. Of Civil & Building Engineering	1 Year	Subscription Centre. Ahmadahad	3500/-
1000	0.64	1 Yr.	Nine Dot nine Interactive Pvt. Ltd. Mumbai	1609/-
22.1	Granthalaya Vigyan	INr.	Sempadak Granthalaya Vigayan Jaipur	375/-





10.4.1. Quality of learning resources Relevance of available learning resources including e-resources Accessibility to students Support to students for self-learning activities

CENTRAL LIBRARY BOOKS ISSUE DETAILS Books Circulation (Issue) Details-2017-2018

Month	"A" Block Library Issue	"C" Block Library
July-2017	1578	Issue
August-2017	2892	113
September-2017	3071	1042
October-2017		1163
November-2017	1845	603
December-2017	2693	966
the second s	1431	600
January-2018	1635	507
February-2018	1863	579
March-2018	838	
April-2018	1745	223
May-2018		585
June-2018	1026	478
Total	20617	6859
Average Per Month Books Issued	1718	571





Self Assessment Report

Month	"A" Block Library Issue	"C" Block Library Issue
July-2016	840	72
August-2016	2571	98
September-2016	1806	458
October-2016	1738	469
November-2016	1822	669
December-2016	893	240
January-2017	2547	987
February-2017	2022	630
March-2017	937	237
April-2017	1389	401
May-2017	814	290
June-2017	10	
Total	17389	4651
Average Per Month Books Issued	1449	387

CENTRAL LIBRARY BOOKS ISSUE DETAILS Books Circulation (Issue) Details-2016-2017





Self Assessment Report

Month	"A" Block Library Issue	"C" Block Library Issue
July-2015	1438	57
August-2015	2916	145
September-2015	2713	1005
October-2015	2015 2269	
November-2015	2063	493
December-2015	2041	952
January-2016	2054	568
February-2016	2679	1062
March-2016	1784	595 .
April-2016	1553	384
May-2016	1634	597
June-2016	762	322
Total	23906	6830
Average Per Month Books Issued	1992	569

CENTRAL LIBRARY BOOKS ISSUE DETAILS Books Circulation (Issue) Details-2015-2016





Self Assessment Report

	No of	No of Titles		No. of Volume	
2015-2016	Required	Available	Required	Available	
016-2017	4400	4572	23000	23588	
017-2018	4850	4836	24500	25694	
	10.0	6071	24500	33908 Including 'e' Books	
				Jaipur Englin And Rese	
				3	



Self Assessment Report

Tovindra K	umar Sahu <tovir al. Bhavna, Rhi</tovir 	ndra@jecrc.ac.in>	May 17
printage	of a contrast with	Hold, Hold, Vijay, Dr.Manish, EE, Hold, Hold, Hold, Hold, Hold, Hold, Hold, Hold, Kamleett	
English	Esperanto	Translate message	*

Dear Sir/Madam,

Please find ebooks detail in JECRC:

E Books

ee annan

S.No.	Department	No OTH 1
1	CSE	No. Of Ebooks
2.	IT	2851
3.	11	1677
	ECE	1419
4.	Civil	635
5.	ME	469
6.	EE	- STORE &
7.	Phy	554
		500
	Total	8105

Login Detail:

ftp://192.168.100.6

User Name : ebooks

Password : ebooks

•

Thanks & Regards

Tovindra Kumar Sahu Senior Lab Isstructor, Jalpur Englowering College & Rosearch Center, Jalpur

P +91-141-2770232 Ext. 209, 211 M 09083186878, 09214066878

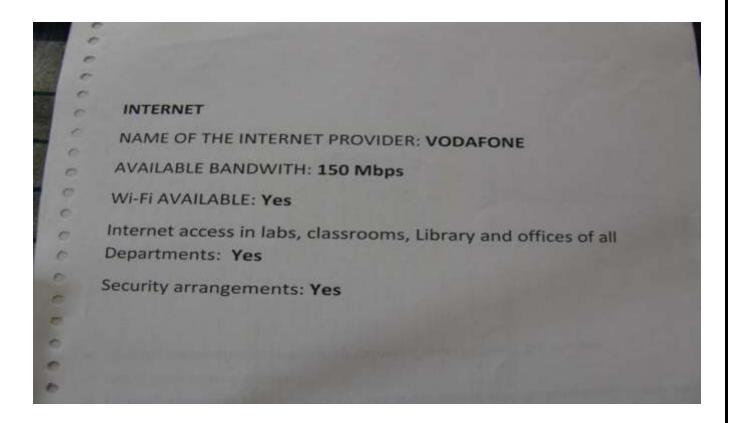
10.4.2. Internet

Name of the Internet provider: VODAFONE Available bandwidth: 150Mbps



Self Assessment Report

Wi Fi availability:YESInternet access in labs, classrooms, library and offices of all Departments:YESSecurity arrangements:Yes





3737

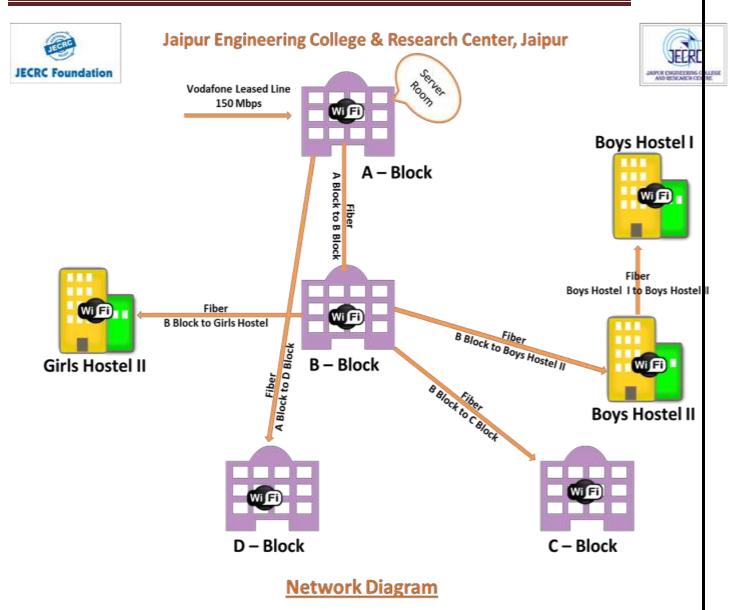
	12. FACILITIES AND	AMENITIES	
leading Status of Activities Amount in Docs'	Last 365 days		
mentry Name of Alternation of the second sec	Qts/Capacity	Purchased Nation this Year	Torrai Value
me of the Central Facility	2000	<u>9</u>	As Ter Dalama Theat
ent cooleis serage casestri	2000	10	An Per Statute Street
or Purfeet capacity Links (325 K.V.A.	(B)	As Per Paterne Sheri
ermor SettW)	462	0	An Per Halance Sheet
a mathiption senting cap.)	3	90	As Per Infance Start
n of eniz	3	0	As Per Delance Start
in System no of units a ceptus Nen Interfacable)	3	0	As Pet Halance Sheet

Computer Peripharals Network	09	Purchased value this year	Total value
Computers for office purpose only	26	0	AS PER BALANCE SHEET
	705	0	AS FER BALANCE SHEET
Desixop/laptop computers This chemisislave computers	e	0	AS PER BALANCE SHEET
	5	0	
iervers hinters	35	0	AS PER BALANCE SHEET
2010/07	2	Ø	AS PER BALANCE SHEET
amerza No. of units	0	0	AS PER BALANCE SHEET
ther Peripheral devices	0	0	AS PER BALANCE SHEET
ternet Connection(speed mbps)	105	0	AS PER BALANCE SHEET
stem Softwates	8	0	AS PER BALANCE SHEET
miceton Softwares	28	0	As Per Ballance Short
struters networked so far	\$65	0	AS PER BALANCE SHEET

14. CAMPES SELECTION DETAIL	Offer Annual(Lach)	Placed This yes
Name & Address of Company	3.50	28
Accenture Services Pet Ltd. Building No. 1A & 1B, Raheja Mind Space, Hitech City, Madhapur, Hyderahad, Telangana 500086	2.40	192
PINNACLE INFOTECH	5.00	2
Case Code	3.50	15
TCS	0.50	12
Astata Inforty stem	4.25	3
New gets Selfanze	3.00	18
Matrix connec	2.20	2
In Gaut Protect	1.50	2-
a little Ter		
in Charm	2.30	12



Self Assessment Report





Self Assessment Report

Declaration

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA, in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: 11/9/18 Place: Jaipm

Rot JECR C/REG /2018-19/ 181

11.000

Date: 11/09/2018

Signature & Name Head of the Institution with seal



Jaipur Engineering College and Research Centre Approved to AUCTE & Affiliated to RTU JECRC Campus, Shri Ram Ki Nengel, Via Sitapura RIICO, Opp. EPIP Gate, Tonk Road, Jaipur 302 022 1: 0141 2770120; 2770232 m into@jecrcmail.com

ANNEXURE I:

(A) PROGRAM OUTCOMES (POs)

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and Electronics & Communication Engineering specialization to the solution of complex electronics and communication engineering problems.

Problem analysis: Identify, formulate, research literature, and analyze complex Electronics &PO2 Communication Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex Electronics & Communication Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of electronics and communication engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern electronic engineering and IT tools including prediction and modelling to complex Electronics & Communication Engineering activities with an understanding of the limitations.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Electronics & Communication Engineering practice.

Environment and sustainability: Understand the impact of the professional Electronics &PO7 Communication Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Electronics & Communication Engineering practice.
- **PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



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PO10 Communication: Communicate effectively on complex Electronics & Communication Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

- Project management and finance: Demonstrate knowledge and understanding of the Electronics &
 PO11 Communication Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of Electronics & Communication Engineering changes.

(B) PROGRAM SPECIFIC OUTCOMES (PSOs)

- **PSO1** Ability to apply the concepts of Embedded Systems and its applications.
- **PSO2** Ability to apply Field Programmable Gate Array based applications.

