NATIONAL BOARD OF ACCREDITATION

Compliance Report (Tier – I/Tier – II) <u>PART- A: Institutional Information</u> (To be filled only once for all the programs under consideration)

A1. Name and Address of the College:- Jaipur Engineering College & Research Centre

City: - Jaipur	State: - Rajasthan
Pin Code: - 302022	
Phone No (including STD Code):- 0141-2770232	Fax - 0141-2770803
A2.Year of Establishment:- 2000	

A3. First Approval Letter No.: F. No 765-66-01/NDEG/ET/2000 Date:13.07.2000

A4. Head of the Institution:-

Name - Prof. Vinay Kumar Chandna	Designation- Principal
Nature of appointment:- Regular	Phone No0141-2770120
Email ID- principal@jecrcmail.com	Mobile No- 9891406784
Fax No 0141-2770803	

including STD Code

A5. Name and address of the affiliating University:- Rajasthan Technical University

City:	Kota	Pin code324010
State:-	Rajasthan	Email - vcofficertu@yahoo.co.in
Website	www.rtu.ac.in	Mobile No 0744-2473015(Dean Academic)
Phone No.	07442473001	
including ST	D Code	

A6. Type of Institution:-

Deemed University

Institution of the National Importance University	Autonomous
University	Any Other (Affiliated College) Yes

A7. Ownership Status:-

Central Government	Trust
State Government	Society
Government Aided	Self Financing Yes
Section 25 Company	
Any Other	

A8. Students Admissions (institute level considering all UG Program)

Item	CAY 2020-21	CAYm1 2019-20	CAYm2 2018-19	Total
Sanctioned Intake	990	990	990	2970
Number of Students admitted (Corresponding to Sanctioned Intake)	980	901	842	2723
% of Students admitted over last three assessment years (Total admitted/Sanctioned Intake)	98.98	91.01	85.05	91.68

A9. Details of the students actually admitted through Lateral Entry/Separate Division

Item	CAY 2020-21	CAYm1 2019-20	CAYm2 2018-19	Total
Number of Students admitted through Lateral Entry	55	18	40	113
Number of Students admitted through separate Division	NIL	NIL	NIL	NIL
Total Number of Students admitted in the Second Year	55	18	40	113

A10. Provide separate Information for each of the program(s) for which compliance is to be submitted:-

Name of the Depart ment	Name of the Program being offered	Name of the Program to be Considere d	Year of Start	Incre ase in Intak e, If any	No. of Seats increase d	Total No. of Seats	Year of Increase	AICTE Approval	Accredita tion Status
ECE	B.E.	B.E.	2000	-	-	60	-	13.07.2000	-

	B.E.	B.E.		Yes	30	90	2004	25.06.2004	No
	B.E.	B.E.		Yes	30	120	2008	22.07.2008	No
	B. Tech.	B. Tech.		No	_	120	2009 (NBA Accreditati on)	22.07.2008	Yes
	B. Tech.	B. Tech.		Yes	60	180	2011	01.09.2011	Yes
	B. Tech.	B. Tech.		Yes	60	240	2012	10.05.2012	No
	B. Tech.	B. Tech.		No	_	240	2018 (NBA Accreditati on)	04.04.2018	Yes
	B. Tech.	B. Tech.		Yes (-)	-60	180	2020	31.07.2020	Yes
ME	B.E.	B.E.	2003	-	-	60	-	12.05.2003	-
	B. Tech.	B. Tech.		Yes	30	90	2009	23.08.2009	No
	B. Tech.	B. Tech.		Yes	90	180	2012	10.05.2012	No
	B. Tech.	B. Tech.		No	_	180	2018 (NBA Accreditati on)	04.04.2018	Yes
	B. Tech.	B. Tech.		Yes (-)	-60	120	2020	31.07.2020	Yes

Write applicable One:

*Granted Provisional accreditation for two/three years for the period (Specify period) - \mathbf{Yes}

*Granted accreditation for 5 / 6 Years for the period (Specify period)

*Not accredited (Specify visit dates, year)

*Withdrawn (Specify visit dates, year)

*Not eligible for accreditation

*Eligible but not applied

Part B- Program Information

B1. Name of the Program: Mechanical Engineering

B2. Faculty Information and Contributions

Please provide the list of faculty in the department according to the below format as Appendix I

S. No	Name	Pan No	Qualif ication	Area of Specialization	Designat ion	Date of Joinin g	Date on which Design ated as Profess or/Asso ciate Profess or	Curr ently Asso ciate d (Y/N)	Nature of Associati on (Regular/ Contract/ Adjunct)	If contra ctual mentio n Full time or Part time	Date of Leavin g (in case Curre ntly Associ ated is "No")
1	Dr. Mahendra Pratap Singh	AOPPS 5028F	M.Tech/P h.D	Mechanical Engineering	Professor	19-Aug- 16		Y	Regular		NO ⁽¹⁾
2	Dr. Fauzia Siddiqui	BHAPS 1199C	M.Tech/P h.D	Industrial	Professor	1-8-2018		Y	Regular		

				Engineering						
										NO
3	Dr. Bhuvnesh Bhardwaj	AONPB 5285K	Phd	Manufacturing Systems Engineering	Associate Professor	14-Jul-15		Y	Regular	NO
4	Dr. Manish Shrivastava	ARUPS 7035A	M.Tech/P hd (MBA)	Manufacturing Systems Engineering	Associate Professor	21-Jul-14	1-9-2018	Y	Regular	NO
5	Dr. Rishi Pareek	AYAPP 6684K	M.Tech/P h.D	Mechanical Engineering	Associate Professor	7-8-2018		Y	Regular	NO
6	Dr. Manmohan Siddh	BNPPS2 864D	Ph.D	Production Engineering	Associate Professor	2-Jan-17		Y	Regular	NO
7	Mr. Manish Jain	AANPJ 7357E	M.Tech	Manufacturing Systems	Assistant Professor	7-Aug-01		Y	Regular	

				Engineering					
									NO
8	Mr. Lalit Kumar Sharma	BQSPS 3044K	M.Tech	Manufacturing Systems Engineering	Assistant Professor	13-Aug- 07	Y	Regular	NO
9	Mr. Rajendra Kumar Gupta	AGVPG 7205J	M.Tech	Manufacturing Systems Engineering	Assistant Professor	17/Sep/0 7	Y	Regular	NO
10	Mr. Kuldeep Sharma	BKOPS 5002H	M.Tech	Manufacturing Systems Engineering	Assistant Professor	25-Aug- 06	Y	Regular	NO
11	Mr. Aashish Nagpal	AUYPN 8399M	M.Tech	Manufacturing Systems Engineering	Assistant Professor	16-Aug- 10	Y	Regular	NO
12	Mr. Dayal Singh Rathore	ARZPR 1164L	M. Tech	Production Engineering	Assistant Professor	23-Jul-12	Y	Regular	

									NO
13	Mr. Hukam Chand Nagar	AXAPC 7807L	M.Tech	Thermal Engineering	Assistant Professor	23-Jul-12	Y	Regular	NO
14	Mr. Akhil Vijay	AHJPV 3272D	M.Tech	Production Engineering	Assistant Professor	24-Jul-12	Y	Regular	NO
15	Mr. Abhishek Kumar	BVBPK 2936A	M.Tech	Manufacturing Systems Engineering	Assistant Professor	10-Aug- 13	Y	Regular	NO
16	Mr. Satyendra Kumar	BSKPK 2741R	M.Tech	Machine Design	Assistant Professor	16-Jul-14	Y	Regular	NO
17	Mr. Satyaprakas h Saini	BJQPS8 962K	M.Tech	Metallurgical and material Engineering	Assistant Professor	20-Jan- 16	Y	Regular	NO

18	Mr. Shrikant Bansal	AZWPB 3081B	M.Tech	Industrial Engineering	Assistant Professor	1-Aug-16	Y	Regular	NO
19	Mr. Tej bahadur Singh	CMQPS 7636J	M.Tech	Mechanical Engineering	Assistant Professor	2-Jan-17	Y	Regular	NO
20	Mrs. Preeti P.Bodkhe	ATVPB 1700A	M.Tech	Heat and Power Engineering	Assistant Professor	3-Jan-17	Y	Regular	NO
21	Mrs. Palak Jindal	AMHP N6656J	M.Tech	Production & Industrial Engineering	Assistant Professor	4-Jan-17	Y	Regular	NO
22	Mr. Hemant Bansal	APGPB 2872J	M.Tech	Production Engineering	Assistant Professor	2-Jan-17	Y	Regular	NO
23	Mr. Akhilesh	CPSPP3 593N	M.Tech	Industrial and Management	Assistant Professor	3-Jan-17	Y	Regular	

	Paliwal			Engineering					
									NO
24	Mr. Yogesh Dubey	AVGPD 6643R	M.Tech	Manufacturing Systems Engineering	Assistant Professor	8-Feb-17	Y	Regular	NO
25	Mr. Utpal Chakarvarti	AAHPC 5325R	M.Tech	Industrial Engineering	Assistant Professor	16-Feb- 17	Y	Regular	NO
26	Mr. Ravi Yadav	CFUPR 3176R	M.Tech	Prodution Engineering	Assistant Professor	27-7- 2012	Y	Regular	NO
27	Mr.Nitin Chhabra	AUEPC 0203F	M.Tech	Production Engineering	Assistant Professor	31/01/20 14	Y	Regular	NO
28	Mr.Dilip Prajapati	AZBPP 5053C	M.Tech	Production Engineering	Assistant Professor	06-10-13	Y	Regular	NO
29	Mr.Jitendra Gupta	BEDPG 1771G	M.Tech	Production Engineering	Assistant Professor	3/25/201	Y	Regular	NO

B.2.1. Student Faculty Ratio (No of Faculty as per the sanctioned intakes):-

(To be calculated at Department Level) No. of UG Programs in the Department (n): 1 No. of PG Programs in the Department (m): NA No. of Students in UG 2nd Year = 86 No. of Students in UG 3rd Year = 114 No. of Students in UG 4th Year = 188 No. of Students in PG 1st Year = NA No. of Students in PG 2nd Year = NA

Student Faculty Ratio (SFR) = S / F

Year	CAY 2020-21	CAY 2019-20	CAY 2018-19		
u1.1	86	114	138		
u1.2	114	138	131		
u1.3	138	131	138		
UG1	338	379	407		
u2.1	0	0	50		
u2.2	0	50	57		
U2.3	50	57	56		
UG2	50	107	163		
Total No. of Students in the Department (S)	388	486	570		
No. of Faculty in the Department (F)	26	28	33		
Student Faculty Ratio (SFR)	14.92	17.35	17.27		
Average SFR		16.51			

B 2.2. Faculty Details of the Department (UG+PG):

			CAYm1		CAYM 2020-21			
			2019-20					
S.No.	Designation	With PhD.		Without	Wi	Without PhD		
		Regular	Contractual	PnD.	Regular	Contractual		
1	Professor	2	0	0	2	0	0	
2	Associate Professor	4	0	0	4	0	0	
3	Assistant Professor	0	0	27	0	0	23	
4	Total number of Faculty in the Department (UG+PG)	6	0	27	6	0	23	

B2.3. Faculty Cadre Proportion

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 20:1

Student-Faculty ratio based on No. of students (N) as per B2.1

F2: Number of Associate Professors required =2/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on No. of students (N) as per B2.1F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on No. of students (N) as per B2.1

	Professors		Associate Pr	ofessors	Assistant Professors		
	Required		Required		Required		
Year	F1	Available	F2	Available	F3	Available	
CAY 2020-21	2.1	2	4.3	4	12.9	20	
CAY 2019-20	2.7	2	5.4	4	16.2	24	
CAY 2018-19	3.16	2	6.3	3	19	31	
Average Numbers	2.65	2	5.33	3.66	16.03	25	

	Details of the participation(Faculty development /training						
Name of the faculty	[2010.20]	activities/STTPs)	[2017 10]				
Dr. M.D. Sin ah	[2019-20]	[2018-19]	[2017-18]				
Dr. M.P. Singn	6	1	4				
Dr. Bhuvnesh Bhardwaj	3	1	2				
Mr. Manish Jain	-	<u>l</u>	l				
Mr. Lalit Kumar Sharma	2	3	5				
Mr. Rajendra Kumar Gupta	1	1	1				
Mr. Kuldeep Sharma	2	2	1				
Mr. Aashish Nagpal	2	1	1				
Mr. Nikhil Jain	-	0	3				
Mr. Dayal Singh Rathore	1	1	1				
Mr. Hukam Chand Nagar	2	1	1				
Mr. Akhil Vijay	8	2	2				
Mr. Ravi Yadav	4	2	2				
Mr. Abhishek Kumar	1	1	2				
Mr. Satyendra Kumar	2	1	1				
Dr. Manish Shrivastava	1	1	2				
Dr. Fauzia Siddiqui	5	1	-				
Dr. Devesh Kumar	-	1	-				
Dr. Rishi Pareek	2	1	-				
Mr. Tejendra Singh	-	1	2				
Mr. Tej Bahadur Singh	4	2	2				
Mr. Yogesh Dubey	3	1	1				
Mrs. Palak Jindal	2	1	1				
Mr. Gaurav Jain	-	1	1				
Mr. Shrikant Bansal	1	2	2				
Mr. Hemant Bansal	1	2	2				
Dr. Manmohan Siddh	2	1	1				
Mr. Akhilesh Paliwal	1	1	1				
Mrs. Priti Bodkhe	1	1	1				
Mr. Shashank Shekhar	-	1	2				
Mr. Satyaprakash Saini	1	1	1				
Mr. Rohit Goyal	-	1	-				
Mr. Ravindra Kumar	-	1	-				

B2.4. Faculty as participants in Faculty development/training activities/STTPs

B2.5. Research and Development

		Academic Research						
	Number of a	quality publication in	Ph.D. guide	d/Ph.D. awarded				
	refereed/SC	I Journals, citations	during the a	ssessment period				
Name of the faculty	,Books/Boo	k chapter etc.	while worki	ng in the institute				
	As	After evaluation	As	After evaluation				
	provided	(till the date of	provided	(till the date of				
	in SAR	compliance report)	in SAR	compliance report)				
Dr. M. P. Singh	8	10						
Dr. Fauzia Siddiqui		7						
Dr. Bhuvnesh Bhardwaj	7	13	Award					
Dr. Devesh Kumar		2		Award				
Dr. Manish Shrivastava								
Dr. Rishi Pareek		3						
Dr. Man Mohan Siddh	3	1		Award				
Mr. Manish Jain	1							
Mr. Lalit Kumar Sharma		1						
Mr. Rajendra Kumar Gupta	1	1						
Mr. Kuldeep Sharma	1							
Mr. Aashish Nagpal								
Mr. Nikhil Jain		1						
Mr. Dayal Singh Rathore								
Mr. Hukam Chand Nagar								
Mr. Akhil Viay		1						
Mr. Abhishek Kumar		1						
Mr. Satyendra Kumar	3	3						
Mr. Satyaprakash Saini								
Mr. Gaurav Jain		1						
Mr. Shrikant Bansal								
Mrs. Preeti Bordke								
Mrs. Palak Jindal								
Mr. Hemant Bansal								
Mr. Akhilesh Paliwal								
Mr. Yogesh Dubey		2						
Mr. Utpal Chakarvati								
Mr. Tejendra Singh								
Mr. Shashank Shekhar Singh								
Mr. Tei Bahadur Singh		1						
Mr. Rohit Goval								
Mr. Ravi Yaday								
Mr. Ravindra Kumar								
Mr. Neeraj Saini								
Mr. Nitin chhabra	1							
Mr.Dilip kumar Prajapati								
Mr. Veerendra Kumar								
Mr.Dilip kumar Prajapati Mr. Veerendra Kumar	1							

B2.6. Sponsored Research/Consultancy

Name of the Faculty	Project Title	Project Type Research/ Consultancy	Funding Agency	Amount	Duration
Dr M.P.SINGH	"Rural Technologies Business Incubations"	Research	Department of Science and Technology (DST), Rajasthan	2400000/-	3 YEAR

(B) Details as provided in the SAR previously

(II) Details after evaluation (till the date of Compliance Report)

Name of the Faculty	*Project Title	Project Type Research/ Consultancy	Funding Agency	Amount	Duration
Mr. Manish Jain	Scientific Convention Enhancing learning for students of rural Rajasthan	Research	Stem India Demonstration Dissemination Popularization , DST	2569000/-	1YEAR

*(Applied)

B.3. Students' Performance

Student Intake Table

Item (information to be provided cumulatively for all the shifts with explicit heading, wherever applicable)	CAY 2020-21	CAYm1 2019-20	CAYm2 2018-19	CAYm3 2017-18
Sanctioned intake of the program (N)	120	180	180	180
Total number of students admitted in first year minus number of students migrated to other programs/institutions, plus no. of students migrated to this program (N1)	60	76	122	125+50 = 175
Number of Students admitted in 2 nd Year in the same batch via lateral entry (N2)		10	05	15
Separate division students, if applicable (N3)	NIL	NIL	NIL	NIL
Total number of students admitted in the program $(N1 + N2 + N3)$	60	86	127	190

Academic Performance Table

Year of entry	N1 + N2 + N3 (As defined	Number of students who have successfully graduated					
	above)	I Year	II Year	III Year	IV Year		
CAY(2020-21)	60						
CAYm1(2019-20)	86	62					
CAYm2(2018-19)	127	79	90				
CAYm3(2017-18)	190	58	108	129			
CAYm4 (LYG)(2016-17)	188	67	103	109	113		
CAYm5 (LYGm1)(2015-16)	196	59	106	117	121		
CAYm6 (LYGm2)(2014-15)	213	58	132	142	142		

B3.1 Success rate without backlog in stipulated period

SI= (Number of students who graduated from the program without backlog in the stipulated period of course duration)/(Number of students admitted in the first year of that batch and admitted in 2^{nd} year via lateral entry and separate division, if applicable)

Item	Latest Year of Graduation, LYG	Latest Year of Graduation minus 1, LYGm1	Latest Year of Graduation minus 2, LYGm2
Number of students admitted in the corresponding First Year + admitted in 2^{nd} year via lateral entry and separate division, if applicable	184+4*=188	186+10*=196	208+5*=213
Number of students who have graduated without backlog in the stipulated period	71	65	66
Success Index (SI)	0.39	0.34	0.32
Average Success Index		0.35	

*left/not registered in university exam

https://jecrcfoundation.com/jf-data/NBA/ME/2014-15-to-19-20-Pass-Table-B3.pdf

B3.2. Success rate with backlog in stipulated period of study

SI= (Number of students who graduated from the program with backlog in the stipulated period of course duration)/(Number of students admitted in the first year of that batch and admitted in 2^{nd} year via lateral entry and separate division, if applicable)

Item	LYG (CAYm4)	LYGm1 (CAYm5)	LYG (CAYm6)
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if applicable	184+4*=188	186+10*=196	208+5*=213
Number of students who have graduated with backlog in the stipulated period	ItemLYG (CAYm4)er of students admitted : corresponding First + admitted in 2 nd year eral entry and separate n, if applicable184+4*=188er of students who have ted with backlog in the ted period113ss Index (SI)0.60	121	142
Success Index (SI)	0.60	0.62	0.67
Average Success Index		0.63	

*left/not registered in university exam

https://jecrcfoundation.com/jf-data/NBA/ME/2014-15-to-19-20-Fail-Table-B3.2.pdf

B3.3 First Year Academic Performance

Academic Performance = (Mean of 1^{st} 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)

Academic performance	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)
Mean of CGPA or Mean Percentage of all successful students (X)	5.78	5.87	6.72
Total no. of successful students (Y)	74	121	125
Total no. of students appeared in the examination (Z)	74	121	125
$API = x^* (Y/Z)$	5.78	5.87	6.72
Average $API = (AP1 + AP2 + AP3)/3$		6.12	

Successful students are those who are permitted to proceed to the second year.

B3.4. Academic Performance in Second Year

 $API = (Mean of 2^{nd} Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year /10) x (number of successful students/number of students appeared in the examination)$

Successful students are those who are per	ermitted to proceed to the Third	l year.
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Academic Performance	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)
Mean of CGPA of Mean Percentage of all successful students (X)	6.85	5.65	6.25
Total no. of successful students (Y)	110	180	186
Total no. of students appeared in the examination (Z)	110	180	186
$API = x^* (Y/Z)$	6.85	5.65	6.25
Average $API = (AP1 = AP2 + AP3)/3$		6.25	

https://jecrcfoundation.com/jf-data/NBA/ME/NBA-4.4-Performance-2-yr-Table-B3.4.pdf

B3.5. Academic Performance in Third Year

 $API = (Mean of 3^{rd} Year Grade Point Average of all successful Students on a 10 point scale) or(Mean of the percentage of marks of all successful students in Third Year /10) x (number of successful students/number of students appeared in the examination)$

Academic Performance	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)
Mean of CGPA or Mean Percentage of all successful students (X)	6.63	6.33	6.38
Total no. of successful students (Y)	180	185	189
Total no. of students appeared in the examination (Z)	180	185	189
$\mathbf{API} = \mathbf{x}^* (\mathbf{Y}/\mathbf{Z})$	6.63	6.33	6.38
Average $API = (AP1 = AP2 + AP3)/3$		6.45	

Successful students are those who are permitted to proceed to the final year.

https://jecrcfoundation.com/jf-data/NBA/ME/NBA-4.3-Performance-3-yr-Table%20B3.5.pdf

B3.6. Placement, Higher Studies and Entrepreneurship

Item	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)
Total No. of Final Year Students (N)	185	189	209
No. of students placed in companies or Government Sector (x)	125	91	93
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT	0	2	2
No. of students turned entrepreneur in engineering/technology (z)	0	0	2
x+ y + z =	125	93	97
Placement Index : $(x + y + z)/N$	0.68	0.49	0.46
Average placement = $(P1 + P2 + P3)/3$		0.54	

PART C. Criterion wise Compliance Status

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Criterio	n-1 Vision, Mission	and Programme Ed	lucational Objectives
<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION)
1.5	Establish consistency of PEOs with Mission of the Department	Justification of mapping is not clear.	 Department has prepared PEOs and Mission mapping format and circulated to the Faculty members, industry experts, alumni etc. Faculty members, industry experts, alumni etc. did the mapping and submitted to department for finalization. Analysis of the mapping submitted by the stake holders is carried out and based on below mentioned criteria mapping is finalized. Average Mapping Level of Relationship given by stakeholders m<0.5 0 No 0.5≤ m≤1 1 Low 1< m≤2 2 Medium 2< m≤3 3 High

S. No.	Resource Person	Feedback Link
1	Faculty Member	https://jecrcfoundation.com/jf-data/NBA/ME/Faculty-Feedback.pdf
2	Industry Expert	https://jecrcfoundation.com/jf-data/NBA/ME/Industry-Feedback.pdf
3	Alumni	https://jecrcfoundation.com/jf-data/NBA/ME/Alumni-Feedback.pdf

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		Document Tools Window Help	5.8% _		Find												
~	9.14			₩ ₩	Find												
		S# Name	M1-PFO1	M1-PEO	M1-PEO3	M1-PFO4	M1_PEO5	M2_PEO1	M2-PEO2	M2_PEO3	M2_PEO4	M2-PEO5	M3-PEO1	M3-PEO2	M3-PEO3	M3-PFO4	M3-PEOS
		1 Manish Jain	2	3	2	2	3	2	1	2	2	3	2	2	3	3	2
		2 Lalit Kumar Sharma	2	2	2	3	3	2	2	3	2	3	2	2	2	2	2
		3 Rajendra Kumar Gupta	3	3	1	2	3	1	2	3	3	2	2	1	3	3	3
		4 Kuldeep Sharma	3	3	3	3	2	1	1	2	2	3	2	1	3	2	2
		5 Aashish Nagpal	3	3	2	2	3	2	1	2	3	3	1	1	3	3	2
		6 Nikhil Jain	3	3	2	3	3	1	1	3	3	3	1	1	3	2	2
		7 Dayal Singh Rathore	2	2	2	2	3	1	1	3	3	3	2	2	2	3	3
		8 Hukam Chand Nagar	3	3	1	3	2	1	1	2	3	3	1	1	3	3	2
		9 Akhil Vijay	3	3	3	3	3	2	2	3	3	2	1	2	2	2	3
		10 Ravindra Singh Yadav	2	2	1	3	3	1	1	2	3	2	2	2	3	2	3
		11 Pavan Gupta	2	2	2	3	2	1	1	3	2	3	1	2	2	3	3
		12 Abhishek Kumar	2	2	1	3	3	2	2	2	3	3	2	2	2	2	3
		13 Satyendra Kumar	3	2	2	2	2	2	2	2	3	2	1	2	3	3	3
		14 Sandeep Yadav	3	3	2	3	3	1	2	3	1	3	2	1	2	3	3
		15 Bharat Sharma	3	2	2	2	3	2	1	2	3	2	2	1	2	3	3
		16 Vipin Goyal	2	2	2	2	3	1	2	3	3	2	1	1	3	2	2
		17 Dr. Manish Shrivastava	2	3	2	2	3	1	1	3	3	2	2	1	3	3	3
		18 Rishi Kumar	3	3	1	2	3	2	1	2	3	3	1	2	3	3	2
		19 Veerendra Kumar	2	2	1	2	3	1	2	2	3	3	2	1	2	2	2
		20 Bluviesi Blaidwaj 21 Md Inzamam III Hague	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		22 Nikita Agagyal	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2
		22 Teiendra Singh	3	2	1	2	2	1	1	2	3	3	1	2	2	3	2
		24 Satvaprakash Saini	2	2	1	3	3	3	1	3	2	3	1	1	2	2	2
		25 Ananya Chattree	3	2	1	2	2	2	2	2	3	3	2	1	3	3	2
		26 Devesh Saran Pandey	3	3	1	2	2	2	2	3	3	2	2	1	2	3	2
		27 Dr. M. S. Sodhi	2	3	2	2	3	1	2	3	2	2	2	1	2	2	3
		28 Prem Singh	2	2	3	3	3	1	2	3	2	2	2	2	3	2	2
		29 Vikas Tiwari	3	3	2	2	3	1	2	3	3	2	2	1	2	3	2
		30 Dr. Shiv Ranjan Kumar	2	3	1	3	2	2	1	2	3	2	1	2	3	3	2
		31 Gourav Jain	3	3	3	2	3	2	1	2	3	2	1	1	2	2	3
		32 Shashank Shekher Singh	2	2	2	2	3	2	1	2	3	3	1	2	3	2	3
		33 Shrikant Bansal	2	2	2	3	3	2	2	3	2	3	2	1	3	3	2
		34 Dr. M. P. Singh	3	3	1	2	2	1	1	2	3	3	1	2	2	2	3
		35 Utpal Chakrabarty	3	2	2	2	3	2	1	2	2	3	1	1	2	2	3
			2.54	2.49	1.771	2.4	2.74	1.57	1.43	2.43	2.69	2.54	1.54	1.46	2.51	2.51	2.46
			2-3	2-3	1-2	2-3	2-3	1-2	1-2	2-3	2-3	2-3	1-2	1-2	2-3	2-3	2-3
			H	H	Μ	Н	H	M	Μ	H	H	H	M	M	Н	H	H

Jaipur Engineering College and Research Centre, Jaipur Department of Mechanical Engineering Mapping of PEOs and Mission Evaluation Form

Mission PEOs	To impart highest quality technical knowledge to the learners to make them globally competitive mechanical engineers.	To provide the learners ethical guidelines along with excellent academic environment for a long productive career.	To promote indus institute linkage.		
 To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges. 	M	м	м		
 To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems. 	н.	м	м		
 To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues. 	м	М	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 professional career. 	Μ.	М	н		
 To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge. 	н	н	Μ		

Name & Signature of (Faculty Member/Alumni/Industry Person) MA はいい つみに

4

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Designation & Organization (In case of Industry Person) / Passing Year (In case of Alumni)

D3-Industry Feedback.pdf - Adobe Reader <u>File E</u>dit <u>V</u>iew <u>D</u>ocument <u>T</u>ools <u>W</u>indow <u>H</u>elp

5# Name	Company	Email	Mobile	MI-PEOI	MI-PEO2	MI-PEO3	MI-PEO4	MI-PEOS	M2-PEOI	M2-PEO2	M2-PEO3	M2-PEO4	M2-PEOS	MB-PEOI	M3-PEO2	MB-PEO3	M3-PEO	MB-PE
1 Aman Goyal	ACCENTURE	amangoyal.2mech17@gmail.com	8561068278	3	3	1	3	3	1	1	3	2	3	1	1	3	2	3
2 Aniket Kumar	PINNACLE	b2aniket007@gmail.com	8302465264	3	3	2	3	2	1	3	2	3	3	3	1	3	3	2
3 Anshul Chaudhary	PINNECLE	anshularyan 18@gmail.com	9672720528	2	2	2	3	3	1	1	2	2	3	1	2	2	3	3
4 Anuj Bhandari	MAHINDRA AND MAHINDRA	anujbhandari94@gmail.com	9461384962	2	2	1	3	2	1	2	2	2	2	1	2	2	2	2
5 Anupesh Narayan	ACCENTURE	anupesh@gmail.com	9785277350	3	1	2	3	3	1	1	2	2	3	2	1	2	2	2
6 Anurag Agrawal	GVKI	agrawalanurag1993@gmail.com	9799989438	2	3	1	3	2	1	2	2	3	2	3	2	3	3	2
7 Arjun Sharma	ACCENTURE	arj7733@gmail.com	9782699773	3	3	3	3	3	2	2	2	3	2	1	2	3	2	2
8 Arvind Didel	PINNACLE	arvinddidelkp@gmail.com	9782250021	2	3	1	3	3	2	1	2	2	2	1	1	3	3	3
9 Ashesh Bansal	ACCENTURE	bansalashesh@gmail.com	9166454765	2	2	1	2	2	1	3	2	3	3	1	1	3	3	2
10 Atul Kumar Upadhyay	MINDIT	atul3877@gmail.com	7728909503	2	3	2	2	3	1	1	3	3	3	2	2	2	3	3
11 Aviral Jakar	ACCENTURE	aviraljakar@gmail.com	9782938400	3	2	1	2	3	2	1	3	3	2	1	2	3	2	3
12 Bhanu Prakash Aggarwal	ACCENTURE	bhanuagarwal59@gmail.com	8233779048	3	3	3	3	3	1	3	3	3	2	3	2	2	3	2
13 Deep Umesh Dwivedi	TCS, DUBAI ROBOTICS	deepumeshdwivedi.mech15@gmail.com	7597177316	3	3	1	3	2	1	2	3	3	3	3	2	1	3	3
14 Deepak Singh Kushwah	TCS	deepak14061994@gmail.com	7737294340	2	3	1	3	3	1	2	2	2	3	2	1	3	3	3
15 Diwanshu Wadhwani	PHONE SUPPORT	diwanshu14@gmail.com	8560022572	2	3	2	2	3	1	3	2	3	2	1	1	2	3	2
10 Garvit Gupta	PINNACLE	guptagarvit015@gmail.com	7737734819	2	3	2	2	2	2	1	1	2	3	1	1	2	2	2
17 Gaurav Khandelwal	GVKI	gaurav.khandelwal246@gmail.com	7737181584	3	3	2	2	2	1	1	2	2	3	1	2	2	3	3
18 Gyan Prakash	FEV	gyan6001@gmail.com	9166043297	2	2	2	3	3	2	2	2	3	3	2	2	2	3	3
19 Harshita Garg	ACCENTURE	harshitagarg309@gmail.com	8290109247	2	3	2	2	2	1	2	3	2	2	2	1	3	3	3
20 Irphan Khan Pathan	MINDIT	2515pathan@gmail.com	7877771934	3	3	1	3	3	3	2	3	3	2	1	2	2	3	3
21 Jai Singh	TCS	usingh55555@gmail.com	9461705782	3	3	1	2	3	3	3	2	3	3	3	1	2	3	2
22 Kartikeya Jain	GVKLFACE	kartikeyajain2016@gmail.com	9799322260	3	2	2	2	3	1	2	3	3	2	1	2	3	2	2
23 Kunal Sharma	ACCENTURE	ks.kuna194@gmail.com	8058751779	3	3	1	2	2	2	3	3	3	2	2	2	1	3	3
24 Mayank Mittal	ACCENTURE	mayankmtt19@gmail.com	8003339743	2	3	1	3	2	2	1	2	3	3	2	1	3	3	2
25 Mohit Bansal	TCS	mbmohit6012@gmail.com	9549000825	2	3	2	1	3	2	1	2	3	2	1	2	2	2	2
26 Mragank Ohja	PINNACLE	mragank.ojha@gmail.com	9680719268	2	2	1	3	2	2	2	3	3	2	1	1	2	3	3
27 Mukesh Kumar	CAPITAL VIA	mukeshroy820@gmail.com	7740830804	2	3	3	2	3	2	1	2	2	2	1	2	2	3	2
28 Narottam Sain	ASSITANT ENGINEER, SHRI CEMENT, BEAWAR	narottamsain@gmail.com	8561094107	2	3	2	3	3	3	2	2	3	2	3	2	3	3	2
29 Naveen Kumar Gupta	TCS	naveengupta045@gmail.com	\$562830666	2	3	1	2	3	1	2	2	3	3	2	2	2	1	3
30 Nikhilesh Sharma	TCS OFF CAMPUS	nikhileshdsa2010@gmail.com	9784616437	3	3	2	3	3	2	1	2	3	2	2	1	3	3	2
31 Prashant Jain	FACE, TATA MOTOR	pshtjain19@gmail.com	8290903683	3	3	2	2	2	2	3	3	3	2	1	2	2	2	3
32 Raj Kumar Bhadu	ACCENTURE	rajbhadull@gmail.com	8107343711	2	3	2	3	3	1	1	2	3	3	2	3	3	3	2
33 Rakesh	PINNACLE	rakeshiyani123@gmail.com	9828164636	3	3	1	2	3	1	2	2	3	2	1	1	3	2	2
34 Rifatullah Khan	MINDIT	krifatullah@gmail.com	9024095770	2	2	1	3	3	1	1	3	2	2	2	2	2	1	3
35 Rohan Jain	MINDIT	jain.rohan951@gmail.com	9460472287	2	3	2	2	3	2	1	2	2	3	2	1	3	2	3
36 Ronak Jain	PINNACLE	ronakjain9988@gmail.com	9462700843	2	3	1	2	2	1	1	3	2	2	1	2	2	2	3
37 Rounak runwal	ACCENTURE	runwalisrounak@gmail.com	7742974810	3	3	1	2	2	1	2	3	2	3	1	1	2	2	3
38 Sandeep Kumar	PRICISION DESING ENGINEERING	kumar8888sandeep@gmail.com	9461536515	2	3	1	3	3	3	2	3	3	2	1	2	3	3	2
39 Sandeep Kumar Mali	FACE, PRICISION DESING ENGINEER	sainisandeep959@gmail.com	8502967736	2	2	1	2	2	2	3	2	3	3	2	1	2	3	3
40 Sanjay Kumar Sarraf	PRICISION DESING ENGINEERING	sanjay.sanju.bansal@gmail.com	9887309305	3	1	1	2	3	2	1	2	3	2	2	1	3	3	2
41 Sanwar Lal Gurjar	MINDIT	sanwarlall 36@gmail.com	9983679021	3	2	1	2	2	1	2	3	2	3	2	2	3	3	2
42 Saurabh Maheshwari	ACCENTURE	saurabhmaheshwari77@gmail.com	8233860200	2	2	2	3	2	1	3	2	3	3	2	1	2	3	3
43 Sawan Agarwal	PINNACLE	sawan agarwalme@gmail.com	9462747750	3	2	3	3	3	3	1	2	2	3	2	2	3	3	2
14 Shikhar Saraswat	ACCENTURE	shikharsaraswat1994@gmail.com	8890161028	2	3	3	2	3	1	3	3	3	3	3	1	3	2	3
+> Snuoham Agarwai	105	sasnuonami 8@gmaii com	7891042657	3	3	2	2	3	2	1	2	3	3	1	1	2	2	3
46 Shubham Saxena	PINNACLE	shubhamsaxena004@gmail.com	9509944140	2	3	1	3	3	1	2	3	3	3	2	2	2	3	1
47 Suraj Bhat	PINNACLE	suraj.m.831@gmail.com	9887119602	3	1	2	3	3	3	3	3	3	2	1	2	3	3	3
48 Umesh Kumar Verma	MINDIT	umeshraj0894@gmail.com	9636898652	2	3	2	3	3	1	2	2	2	2	3	2	1	2	2
49 Venu Sethi	FACE, TELEPERFORMANCES	venu.setm@gmail.com	9549503999	2	2	3	3	3	2	3	2	2	2	2	2	3	3	2
Visnal Jain	ACCENTURE	visnjn20@gmail.com	9030013651	2	3	1	2	3	2	1	3	2	2	1	2	3	3	2
				2.42	2.62	1.64	2.5	2.66	1.6	1.84	2.38	2.62	2.48	1.7	1.6	2.42	2.6	2.40
			2-3	2-3	1-2	2-3	2-3	1-2	1-2	2-3	2-3	2-3	1-2	1-2	2-3	2-3	2-3	
				н	н	M	н	н	M	M	н	н	н	M	M	н	н	н

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Feedback from Industry Person on Mapping of Department PEOs with Department Missions

Name of the Industry Person *

Sawan Agarwal

Affiliation (e.g. Manager-Infosys) *

PINNACLE

Email ID *

sawan.agarwalme@gmail.com

Mobile Number *

9462747750

How strongly departmental mission M1 is related to PEOs? M1: To impart quality technical knowledge to the learners to make them globally competitive mechanical engineers. *

	High	Medium	Low
PE01: To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges.	۲	0	0
PEO2: To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.	0	۲	0
PEO3: To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.	۲	0	0
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 professional career.	۲	0	0
PE05: To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	۲	0	0

How strongly departmental mission M2 is related to PEOs? M2: To provide the learners ethical guidelines along with excellent academic environment for a long productive career. *

	High	Medium	Low
PE01: To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges.	۲	0	0
PEO2: To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.	0	0	۲
PEO3: To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.	0	۲	0
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 professional career.	0	۲	0
PEO5: To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	۲	0	0

How strongly departmental mission N	13 is related to PEOs? M	3: To promote industry-institute rel	ationship. *
	High	Medium	Low
PEO1: To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges.	0	۲	0
PEO2: To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.	0	۲	0
PEO3: To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.	۲	0	0
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 professional career.	۲	0	0
PEO5: To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	0	۲	0

This form was created inside of JECRC.

Google Forms

S#	Name I	Batch	Email	Mobile	MI-PEOI	M1-PEO2	M1-PEO3	MI-PEO4	MI-PEOS	M2-PEOI	M2-PEO2	M2-PEO3	M2-PEO4	M2-PEOS	MB-PEO1	MB-PEO2	MB-PEO3	M3-PEO4	MB-PEC
1	Amit Kumar	2015	amitkumar080892@gmail.com	9024414472	2	3	2	3	2	1	2	3	2	2	1	1	3	2	3
2	Ankit Khandelwal	2015	ankitkhandelwal1292@gmail.com	9829735379	2	3	2	2	3	2	3	2	1	2	1	1	3	1	2
3	Ankit Kumar Dixit	2015	ankitkdixit94@gmail.com	8946953568	3	2	2	3	3	2	3	2	3	2	3	2	3	3	2
4	Ankur Mantri	2015	ankurmantri2708@gmail.com	8824497658	2	3	2	2	3	2	2	3	2	3	1	2	2	3	2
5	Arihant Kumar Jain	2015	arihant.jain2492@gmail.com	7877855572	2	3	1	3	2	2	3	3	2	3	2	2	3	2	1
6	Ashok Kumar	2015	ashokc.aiesec@gmail.com	9166647762	2	3	3	3	3	1	3	3	3	2	2	1	2	2	2
7	Chandra Prakash Sharma	2015	chandraprakashsharma.mech15@gmail.com	7737639810	2	2	1	2	1	1	1	3	3	3	1	2	3	3	3
8	Daudayal	2015	daudayal94@gmail.com	7877107806	3	3	1	3	2	2	2	3	2	3	1	1	3	2	2
9	Deepak Sharma	2015	deepaks9052@gmail.com	9413779052	3	3	2	3	3	1	1	3	2	2	2	2	3	2	3
10	Devparshva Zabakh	2015	parshva005@gmail.com	9461006333	3	3	3	2	3	1	3	2	3	3	3	1	3	3	2
11	Himanshu Joshi	2015	himanshujoshi9796@gmail.com	9782697996	2	3	2	2	3	2	3	2	3	1	2	2	2	3	2
12	Ishan Chawla	2015	ishanchawla.mech15@gmail.com	9461685667	3	3	3	3	2	1	3	2	3	3	3	1	2	3	2
13	Kaushal Kaushik	2015	kaushikkaushal222@gmail.com	8947846615	2	2	1	3	3	1	1	3	2	3	2	2	2	3	3
14	Manish Kumar Mudgal	2015	manishkamudgal91@gmail.com	8058005454	2	3	2	2	2	1	2	3	3	2	1	2	2	2	3
15	Navneet Arora	2015	navneet3922@hotmail.com	7597875326	3	3	2	3	2	2	1	3	2	3	1	1	2	3	3
16	Neeraj Khoriya	2015	nkhoriya@gmail.com	9024529585	2	2	1	3	3	2	2	3	3	3	3	2	2	3	3
17	Prashant Sharma	2015	prashant31191@gmail.com	9782974076	2	2	2	2	3	3	1	3	3	3	3	2	2	3	2
18	Rahul Bansal	2015	rahulbansal1293@gmail.com	8385831092	3	3	3	3	1	3	3	2	3	2	1	1	3	3	2
19	Rahul Dhakar	2015	rahuldhakar223@gmail.com	7737757691	3	3	1	2	2	3	1	3	3	3	3	1	2	3	2
20	Rajeev Kumar Yadav	2015	kumar211293@gmail.com	9782414630	2	3	1	2	3	1	1	3	3	3	2	2	3	2	2
21	Rijwan Khan	2015	rijwan khan mev@gmail.com	7891162708	2	2	1	3	3	3	3	2	2	3	3	1	2	3	2
22	Ritesh Sharma	2015	rs300133@gmail.com	9413918257	3	2	1	2	3	1	2	3	2	3	3	2	2	2	3
23	Sagar Venna	2015	sgrvnn90@gmail.com	9782274141	2	3	2	3	2	1	1	2	3	2	1	1	2	2	2
24	Satnam Singh	2015	singh.satnam763@gmail.com	9413500763	3	3	1	2	3	2	3	3	3	2	2	1	2	3	2
25	Shikhar Misri	2015	misri.shikhar@gmail.com	7891233971	3	3	1	3	3	1	2	3	3	3	1	2	2	3	2
26	Shubham Kumar Sharma	2015	ssshubham76@gmail.com	9694391128	2	2	1	3	3	1	1	3	2	2	2	1	2	2	2
27	Shubham Singhania	2015	shubhamsinghania07@gmail.com	9982288872	2	3	1	3	2	3	2	3	3	3	1	2	3	3	2
28	Sonu Agarwal	2015	sonu.agarwal1992@gmail.com	9460509110	2	2	1	2	3	2	1	3	3	2	1	2	3	3	2
29	Abhishek Kumar Soni	2016	abhishekomsoni@gmail.com	9660464046	2	3	1	2	3	1	1	3	2	2	1	1	3	1	2
30	Akash Yadav	2016	raoakkii@gmail.com	9001188668	2	3	1	3	2	2	2	3	3	3	3	2	3	3	2
31	Akshya Yadav	2016	akshayyadav.yadavl@gmail.com	9529296670	2	3	3	3	2	1	1	3	3	2	3	1	3	2	3
32	Aman Choudhary	2016	aman7025@gmail.com	8696155695	2	3	1	2	3	2	2	2	2	3	2	2	2	2	3
33	Ankit Bhardwaj	2016	bhardwajankit42@gmail.com	9462575946	2	2	2	3	3	1	2	2	3	2	1	1	2	3	3
34	Ankit Kumar Sharma	2016	ankitkumarsharma.mech16@gmail.com	8824753422	2	2	3	2	3	2	3	3	3	2	2	1	2	3	3
35	Ankur Teotia	2016	ankuteotiajecrc@gmail.com	9460903402	2	3	2	2	2	1	1	2	2	2	1	2	3	2	2
36	Anuj Jain	2016	anujjain27993@gmail.com	9950982074	2	3	1	2	2	2	1	2	3	2	3	2	3	3	2
37	Ashish Kumar Sharma	2016	ak.sharma793542@gmail.com	8386034899	3	3	1	2	2	1	1	3	2	3	1	2	3	3	3
38	Ayush Paliwal	2016	paliwal.ayush007@gmail.com	7737322993	2	3	3	2	3	1	3	3	3	2	3	2	2	3	2
39	Ayush Pant	2016	ayushpant22sep@gmail.com	9460182580	2	2	1	3	3	1	1	2	3	2	1	1	2	2	2
40	Chitrang Goyal	2016	goyalchitrang085@gmail.com	9782196196	3	3	1	2	3	2	1	3	3	3	2	2	2	2	3
41	Deepak Chaudhary	2016	deepakchaudhary321994@gmail.com	9636213195	2	3	1	3	3	1	1	2	3	3	1	1	3	2	2
42	Deepak Kumar	2016	dk120195@gmail.com	8502930382	3	2	1	2	3	1	2	3	2	2	3	2	3	3	1
43	Deepak Totlani	2016	deepaktotlani170@gmail.com	7737409979	2	2	2	3	3	1	1	3	3	2	1	1	3	3	2
44	Deepesh Gandhi	2016	deerocks12@gmail.com	7737574777	3	3	3	2	2	2	3	3	2	2	1	2	3	3	3
45	Devesh Singh	2016	deveshsingh mech 16@gmail.com	9694506914	2	2	1	2	3	1	1	2	2	2	2	2	2	3	2
46	Divvanshu Chourasia	2016	divvanshuchourasia@gmail.com	9462472426	3	3	2	3	2	1	2	2	3	3	1	1	2	2	3
47	Ganesh Nagal	2016	ganesh nagal 10@gmail.com	7221853015	2	3	1	2	3	1	1	3	2	2	1	2	3	3	3
48	Gauray Kumar Gunta	2016	gauraukamargunta216@gmail.com	8104100934	3	3	2	3	2	3	1	2	3	3	3	2	2	3	2
49	Himanshu Chonra	2016	chonrab555@gmail.com	7597743232	3	3	-	3	3	1	3	3	3	3	3	1	3	3	2
42	Himanshu Jain	2016	himanshu jajn860@gmail.com	9982680220	1	3	2	2	2		3	1	2	2	2	1	3	2	3
51	Hitach Kumar Khate	2010	hitachkhatai05@muail.com	9530001040	2	2	2	2	2	1	1	2	2	2	1	1	2	2	
21	rmesn Kumar Knam	2010	muesukuaura 3@gmaii.com	2020001308	-	2	4	2	2	-	4	2	4	-	1	1	,	2	-

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52 Kalal Pankajkumar Chhaganlal	2016	pankajkalal69@yahoo.com	9558998763	3	1	2	3	3	2	1	2	3	2	1	1	3	3	3
53 Khushboo Singh	2016	skhushboo193@gmail.com	9413086007	2	3	1	2	2	1	2	2	2	3	2	2	3	3	3
54 Manish Singh	2016	manishsingh220/93@yahoo.in	8/64338032	2	5	2	3	3	2	1	5	3	3	1	1	3	2	2
55 Mohit Sam	2016	mksam994@gmail.com	966/602896	3	3	1	3	2	3	2	3	2	2	2	2	2	3	2
56 Mirinal Pratap Singh	2016	mnnaipratapsingn@gmail.com	9930836399	1	2	1	3	3	1	1	3	3	3	1	2	3	3	2
57 Neeraj Kumar	2016	neerajkumar 15@nve.m	9783202380	2	,	2	2	1	1	,	,	2	3	1	2	,	2	2
58 Nuknii Nama	2016	hikhii.nama51@gmail.com	8383096773	3	3	1	3	3	3	1	3	3	2	1	1	2	2	2
59 Nikniesh Krisni Sharma	2016	krisnna 987876@gmail.com	894/9/6330	2	3	1	2	3	2	1	2	3	2	1	1	3	3	,
60 Nitesh Paliwai	2016	hteshpaliwal95@gmail.com	7702010122	2	,	2	3	3	2	1	- 2	3	2	2	2	- 2	2	3
61 Prasnant Snanna	2016	snarma.prasnant+8@gmail.com	7793019133	3	3	1	3	3	2	1	2	2	3	1	2	3	3	2
62 Praveen Kumar Gupta	2016	eng.praveenkrgupta@gmail.com	8824873807	2	2	1	2	2	3	2	2	2	2	3	1	2	3	2
63 Praveen Kumar Sharma	2016	snamapk29@gmail.com	9602063449	2	,	1	3	3	2	2	3	3	2	2	1	3	2	4
64 Pritish Chandnok	2010	pritishenandnok1410@gmail.com	9100040434	2	,	2	2	3	- 2	1	3	3	2	2	- 4	4	3	,
66 Panninghani Hanna Sunil Kuman	2010	ragnavojnas r2@gman.com	940805293	2	,	2	,	2	-	1	2	2	,		1	2	2	
67 Pere Debach	2010	ransinghanneena@gman.com	0680786610	2		1	2	2	-	2	2	2	2	2	2	2	2	
67 Ravi Flakash	2010	raviprakasio550@gmail.com	9030780012	2	1	2	2	2	1	2	2	2	2	2	2	2	,	,
60 Panit Mahadamari	2010	ronani Sauga yanoo.com	9024133340	2	,	2	,	2	1	4	2	,	,	2	- 4	4	,	,
20 Sauch Kaneshwari	2016	ronitmaneshwan5151@yanoo.com	0660850284	2	,	2	2	3	2	4		2	2	1	-	3	3	3
70 Sauraon Kumar Dansai	2016	sauroansalaon@gmail.com	9000839384	3	,	1	3	3	,	3	,	3	1	2	1	2	3	2
71 Sharwan Kumar Jain 22 Shashi Panjan Tiumuu	2016	sksk5021@gmail.com	0166277478	2	,	2	2	3	1	2	3	3	3	1	2	2	3	,
72 Shashi Kanjan Tiwary	2016	snaniii.kumaroo@gmail.com	91002/7478	2	3	1	2	2	2	1	2	2	2	2	2	3	2	د
75 Shivam Joshi	2016	ssnivamkjosni 125@gmail.com	7790886951	2	2	3	3	3	2	2	3	1	2	3	1	3	2	3
74 Shubham Kumar Sharma	2016	shubham sharma / 5519@gmail.com	8/69540009	,	,	3	3	3	-	3	2	2	2	1	1	,	2	2
75 Siddharth Singh	2016	siddharth0315@gmail.com	7791099485	2	2	2	3	3	1	1	3	2	2	1	3	3	2	,
76 Sumit Kumar	2016	sumit.kumar15990@gmail.com	988/145695	2	2	1	2	3	1	2	2	2	2	1	1	2	3	2
77 Sumit Kumar Gupta	2016	kumargupta04@gmail.com	9461307444	,	,	2	,	2	2	1	3	,	3	2	2	2	2	•
78 Sunii Gira	2016	sumigura i@gmail.com	8963026409	,		,	,	2	1	1	- 4	,	,	,	- 4	,	2	3
79 Sunii Kumar Gupta	2016	sumikumargupta561@gmail.com	8383897843	2	,	2	2	2	1			3	2	2	1	,	2	2
80 Sunii Kumar Morwal	2016	sunil ultratech@gmail.com	9667470397	2	2	1	2	2	2	2	3	2	2	2	2	3	,	2
81 Sushii Kumar	2016	susniiverma/95@gmail.com	2001045515	,	2	1	2	3	3	2	2	2	2	2	- 4	2	3	,
82 Tarun Chaturvedi	2016	e+evil.lucky@gmail.com	/891943313	,	2	1	,	2	1	,	2	2	2	2		,	2	,
85 Uttam Kumar	2016	choudharyuttam94@gmail.com	9782559648	2	,	2	3	3	1	1	- 4	2	,	1	1	,	2	3
84 Valonav Snama	2016	valonavsnaima994@gmail.com	9010737191	,	2	2	2	2	2	1	2	2	,	1	2	2	2	2
85 Vijay Bnamonani	2016	vijayonamonani2@gmail.com	8/644038/6	2	2	2	2	2	4	1	2	2	2	1	2	2	2	2
87 William Circle Package	2010	vijayy950@gmail.com	9829303141	2	2	1	2	3	2	2	2	2	2	2		2	2	2
87 Vijayraj Singh Kathore	2010	vijayraj radiore19@gmail.com	9402700399	2	1	1	2	3	2	2	2	2	2	2	1	2	3	3
88 Vikash Kumar Singh 90 Wingd Spini	2016	vikasnaditya12545@gmail.com	9602650926	2	1	2	3	2		1	2	2	2	2	2	2	3	2
00 Vichal Kaul	2010	hudgapur94@gmail.com	9100353942	2	-	2	2	2			2		2		1	2		
01 Wichal Sharaya	2010	zichalchanna 571003@muail.com	0782665314	2	2	-	2		2	1	2	2	3	-	2	-	3	2
92 Vishal Sharma	2010	visialsialitas/1995@gnail.com	8947860091	2	3	2	2	2	2	2	2	3	3	1 i	2	2	3	-
93 Vithal Garani	2016	visianocks205@gman.com	8946908057	2	3	2	3	2	1	2	3	3	3	1	1	2	2	3
94 Abbicak Bhardmai	2010	abbisekbbaudumi1006@mmail.com	7991329096	3	2	2	2	3	2	3	3	2	2	-	-		3	
95 Abhichek Surami	2017	aumies@email.com	8560087745	3	3	2	3	3	1	2	3	3	3	1	2	3	3	2
96 Adito Singh Rajamat	2017	aditrarajamat005@mail.com	7792977123	3	2	1	3	2	2	2	2	2	2	1	2	2	2	2
97 Alcarch Agamal	2017	akanshagamal0704@gmail.com	8385061291	3	3	1	2	3	1	1	2	3	3	2	1		3	
98 Alshat Timon	2017	akanshagarwaro ro-aginan.com	7727884775	2	2	-	2	3			2	2	2	1	2	3	3	3
90 Alchar Bhardanai	2017	akshar, san@yaloo.m	7742516864	2	2	2		2				3	2		1	2	3	2
100 Akshay Genta	2017	akshavamta9520@amril.com	8233410220	2	2	2	2	2	3	2	3	2	2	1	1	2	2	1
101 Alchay Kumar Comi	2017	akshaygupta7520@gmail.com	7665220026	2	2	1	2	2	1	2	2	2	2	1	1	2	2	2
101 Ansnay Kumar Soni	2017	ansitaysom /80@gmail.com	003230930	2	3	1	2	2	-	1	2	3	2	1	-	2	3	2
102 Aman Gupta	2017	ag 100 100 100 (agmail.com	0468608208	2	2	1	2	2	2	2	2	2	2	1	-	2	2	2
105 Millian Vyas	2017	vyas.amani /@gmaii.com	7408098208	2	,	-	2	4	-4	4	4	4	2	1	-	- 4	4	4

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	10	4 Amit Mo	di	2017	amitkumarmodi007@gmail.com	9636199279	2	2	1	3	3	2	3	3	2	2	1	1	3	3	2	
	10	5 Ankit Bl	lardwaj	2017	bhardwaj.yash9@gmail.com	7597859188	3	2	2	3	3	1	2	3	3	2	2	2	2	2	2	
	10	6 Anshum	an Sisodia	2017	anshuman.sisodia.9@gmail.com	9684173983	3	3	2	2	3	2	3	3	3	2	2	2	3	3	3	
	10	7 Anuj Tiv	vari	2017	anujtiwari0607@gmail.com	9509506414	2	2	3	2	3	2	3	2	2	2	2	1	2	2	2	
	10	8 Amin V	ijay	2017	amimofficial16@gmail.com	9672637601	3	3	1	3	3	2	1	3	3	3	1	1	3	3	3	
	10	9 Arun Ya	dav	2017	arunkumar.yadav32@gmail.com	9509328333	2	2	2	2	2	2	2	2	2	2	1	2	2	1	2	
	11	0 Ashutosh	n Kumar	2017	ashutosh.bodyguard@gmail.com	8233027040	3	3	2	2	3	1	1	2	2	2	1	2	3	2	3	
	11	l Asutosh	Jain	2017	ashutoshjain95@gmail.com	9587140483	3	3	3	2	3	1	2	2	2	3	2	1	3	2	2	
	11	2 Ayan Du	itta	2017	ayan.dutta16@gmail.com	9694809353	2	2	2	3	3	1	1	2	2	2	1	1	3	2	3	
	11	3 Ayush G	arg	2017	garg.ayush08071994@gmail.com	9982087331	3	2	2	3	2	2	1	2	3	2	1	2	3	2	2	
	11	4 Ayush M	larotiya	2017	ayushmarotiya@gmail.com	8560006869	2	3	1	2	3	3	1	3	2	2	1	1	3	3	2	
	11	5 Bhanu Pi	ratap Singh	2017	bhanupsingh.1993@gmail.com	9660668381	3	3	2	1	3	1	3	3	2	2	1	2	2	3	2	
	11	6 Chetan F	rajapati	2017	prajapatichetan000@gmail.com	7737123752	2	2	3	3	3	2	2	3	3	2	2	2	1	3	3	
	11	7 Deepans	hu Sharma	2017	deepanshusharma2112@gmail.com	8875038622	3	3	1	3	2	1	1	2	3	3	1	3	2	2	2	
	11	8 Devesh I	Chandelwal	2017	deveshkachwal@gmail.com	8058232448	2	3	3	2	3	1	1	3	2	3	1	2	2	3	2	
	11	9 Dheeraj	Agarwal	2017	dimpy090895@gmail.com	8290268057	2	2	2	2	2	1	2	3	2	2	2	1	3	3	2	
	12	0 Dushyan	t Pareek	2017	dushyantpareek95@gmail.com	8890049267	3	3	2	2	3	3	2	3	3	3	2	1	2	3	3	
	12	1 Eshan Sv	wami	2017	eshan16swami@gmail.com	7597068898	2	3	1	2	3	2	1	3	2	3	1	2	2	2	3	
	12	2 Gajendra	Kumar Teli	2017	gk72834@gmail.com	7665747896	3	2	1	3	3	1	1	3	3	3	3	1	3	3	3	
	12	3 Garvit D	adhich	2017	dadhichgarvit@gmail.com	7597648866	2	2	1	3	3	2	1	2	2	3	3	1	3	3	2	
	12	4 Garvit Ja	in	2017	jaingarvit1996@gmail.com	7665997841	3	3	2	3	3	3	3	3	3	2	3	2	2	3	3	
	12	5 Gauray (imta	2017	sauravent472@email.com	8890280374	2	2	1	2	3	3	2	2	3	3	3	1	2	2	2	
	12	6 Gamar 9	ahu .	2017	gunan reprint 200 gunan com	9784082601	2	3	2	3	3	1	1	3	3	2	2	1	-	3	2	
	12	7 Haush A.		2017	hard a much and a much and a much a m	9322506164	2	2		2	2		2	2	2	2	-		2	2	2	
	12	7 Harsh Ag	garwai ulhan Anna	2017	harshagarwainew@gmail.com	8235390104	2	2		2	2		2	2	2	2				2	2	
	12	D Titer des	lunan Arya Kaman Cain	2017	harsharya515@gmail.com	7742101744	2	2		2	1	2	2	2	2	2	-	2		2	2	
	12	Jitencira	Kumar Sain	2017	njitendrasan1996@gmail.com	7/42101/44	3	2	1	2	1	3	3	2	3	2	2	4	4	2	4	
	10	Neshav (ooyai	2017	kesnavgoyario2@gmail.com	7308213993	3	2	2	2	2	2	2	2	2	2	2	2		2	2	
	13	1 Manan C	noudnary	2017	Jain manan So@yanoo.com	8963086223	2	2	2	2	2	1	2	,	2	2	2	2		2	2	
	15	2 Manish A	-urora	2017	aroramanish880@gmail.com	8903810255		2	1	2	-		-		3	2	1	4		,	2	
	13	5 Mindul A	lgrawal r	2017	mindul4434@gmail.com	/891300303	2	3	,	3	,	1	2	,	2	2	2	-	,	,	2	
	13	1 Namit M	lisra	2017	namit.94@gmail.com	//9302/668	3	2	1	2	,	1	2	3	2	2	1	1	3	2	2	
	13	Parth Mi	ttal	2017	parth230994@gmail.com	9982382294	3	3	2	2	3	2	2	3	2	2	1	2	2	3	3	
	13	5 Pawan K	umar	2017	shuklapawan935@gmail.com	8696014481	3	2	1	3	2	3	1	3	2	2	3	1	3	3	2	
	13	7 Pradeep	Kumar Attal	2017	pradeepattal01@gmail.com	9509966247	2	3	3	3	3	2	3	2	2	2	3	1	3	3	2	
	13	8 Pramod I	Kumar	2017	pramodyadav15121995@gmail.com	8947015039	3	3	2	2	3	2	1	3	3	3	3	2	2	2	2	
	13	9 Raghven	dra Singh	2017	raghvendrasingh1995@gmail.com	8290448888	2	3	3	3	2	2	1	2	3	3	1	2	3	3	2	
	14	0 Rajehano	ler Jain	2017	jainraja.raja@gmail.com	9782877619	3	2	1	3	2	2	3	3	2	3	3	1	3	2	2	
	14	Rakshit	Trivedi	2017	mastertrivedi@gmail.com	9950107214	2	3	1	2	3	1	2	2	3	2	2	1	2	3	2	
	14	2 Ramnik	Kaul	2017	259nishu@gmail.com	9782081114	2	2	2	2	3	1	1	3	3	3	1	2	3	3	3	
	14	3 Rishabh	Gupta	2017	rishabitstar@gmail.com	9166706065	2	3	3	3	3	1	1	2	3	2	1	1	2	3	3	
	14	4 Rishil G	ipta	2017	rishilgupta95@gmail.com	7597721747	3	3	2	3	3	2	1	3	1	3	1	1	3	2	3	
	14	5 Rohan K	apoor	2017	rkp0910@gmail.com	8952920031	1	2	1	2	3	1	1	2	3	3	1	2	3	3	3	
	14	6 Rohit M	ehta	2017	rohitmehta355@gmail.com	9587462499	3	3	3	2	3	3	2	2	3	2	1	1	3	3	3	
	14	7 Shubhan	a Gupta	2017	shubhaml194@gmail.com	7793813237	2	3	1	3	3	3	1	3	3	3	2	2	2	2	1	
	14	8 Sourabh	Gupta	2017	sourabhjuly25@gmail.com	7792827556	2	3	2	2	3	1	2	3	3	2	1	1	2	3	2	
	14	9 Sudhir K	umar	2017	sudhirroys@gmail.com	8559883095	3	3	3	3	2	1	3	3	3	3	2	1	2	3	3	
	15	0 Tarun Ki	umar Vyas	2017	tarunvyas123@gmail.com	9667712205	3	3	2	3	3	2	2	2	3	2	2	2	1	1	2	
	15	l Vipin Ya	adav	2017	yaday.vipin03@gmail.com	8302228704	2	3	1	3	3	1	1	3	3	3	1	2	2	3	2	
						1	2.42	2.65	1.74	2.53	2.64	1.69	1.77	2.57	2.56	2.48	1.74	1.52	2.52	2.59	2.4	
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		K																		1 🔞 1		2/18/20

Feedback from Alumni on Mapping of Department PEOs with Department Mission

Name of the Alumni *

Rishabh Gupta

Passing Year *

2017

Email ID *

rishabitstar@gmail.com

Mobile Number *

9166706065

How strongly departmental mission M1 is related to PEOs? M1: To impart quality technical knowledge to the learners to make them globally competitive mechanical engineers. *

	High	Medium	Low
PE01: To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges.	0	۲	0
PEO2: To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.	۲	0	0
PEO3: To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.	۲	0	0
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 professional career.	۲	0	0
PEO5: To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	۲	0	0

How strongly departmental mission M2 is related to PEOs? M2: To provide the learners ethical guidelines along with excellent academic environment for a long productive career. *

	High	Medium	Low
PEO1: To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges.	0	0	۲
PEO2: To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.	0	0	۲
PEO3: To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.	0	۲	0
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 professional career.	۲	0	0
PE05: To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	0	۲	0

Criterion	-2 Program Curriculu	ım and Teaching- Learni	ing Process	
G N-	CDITEDIA	OBSERVATION MADE	COMPLIAN	CE STATUS
S. NO	CRITERIA	BY NBA	(ACTION TAKEN)	BY INSTITUTION)
2.1.1	2.1.1 State the process to identify extent of compliance of the University Curriculum for attaining the Program Specific Outcomes & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if	Gaps are not identified systematically and relevant& contemporary industry topics are not covered.	Gaps are identif Department regularly from industry e placement cell, alu feedbacks have b discussed. In discussion, depar contemporary industr included in syllabus RTU for necessary a identified the depar various topics to de through various sta included in the acader Based on the delive issues through various	Tied systematically. collects the feedback experts, employers, mini etc. Collected een analyzed and timent has identified y topics that may be and communicated to ction. Based on gaps timent has included liver to the students ikeholders and also nic calendar. ery of contemporary us means , feedback
	any		analyzed.	its relevance is also
			Feedback	Website link
				https://jecrcfound
			Industry experts/ employers	ent-recruiters https://docs.google .com/forms/d/e/1F AIpQLSe1r06mFE rIvLA94qt- Dtla07R12rDgiV7 oWfhIUT_k6PctW g/viewform
			Alumni	https://jecrcfounda tion.com/alumni https://forms.gle/h p5ei1GT7x8k314 VA
			Department has sen curriculum gaps to aff	t a letter related to filiated university.

Delivery methods	Link
Add-on courses /	https://jecrcfoundation.com/jf-data/ADDON/Differentaspect2019-20.pdf
workshops	https://jecrcfoundation.com/jf-data/ADDON/3DPrinting2019-20.pdf
	https://jecrcfoundation.com/jf-data/ADDON/differentaspect2018-19.pdf
	https://jecrcfoundation.com/jf-data/ADDON/L3D2019-20.pdf
	https://jecrcfoundation.com/jf-data/ADDON/3Dprinting2018-19.pdf
	https://jecrcfoundation.com/jf-data/ADDON/automobileworkshop.pdf
Guest lectures by the industry person	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/Guest-Lectures- 2019-20.pdf
	https://www.jecrcfoundation.com/pdf/webinar/Webinar-ME.pdf
Industrial visit s	https://jecrcfoundation.com/jf-data/NBA/ME/Industrial-Visit/Industrial-Visits-2019- 20.pdf
Conferences	https://www.jecrcfoundation.com/pdf/confrence-reports/ME%202015-2020.pdf
Technical clubs/ activities	https://jecrcfoundation.com/jf- data/NBA/ME/MoonRider/Annual%20Report%202019-20.pdf https://jecrcfoundation.com/jf-data/NBA/ME/MoonRider/Annual-Report-2018-19.pdf



Ref. JECRC/2020/. REG 082

28 /07/2020

To,

The Dean Academic Affairs, Rajasthan Technical University, Kota.

Subject: Regarding Curriculum gap in the syllabus of B.Tech. Engineering Courses

Dear Sir,

As per information received from the programs/departments of Jaipur Engineering College and Research Centre, the following are the curriculum gaps in the syllabus for your information please -

S. No.	Program/ department	Subject	Topic
1		Digital System Design	Sequence Detectors, Hazards, Incompletely specified State Reduction
2		Computer Architecture	Layer Mechanisms of Interconnect network
3		Power Electronics	PEC Configurations for Battery Charger
4	Electronics &	Computer Network	Internet of Things
5	Communication	Information Theory and Coding	Probability Theory
6	Engineering	Introduction to MEMS	Manufacturing of components and simulation practice
7	_	Microcontrollers and Embedded System	Programming and Interfacing of Advanced Microcontrollers with IOT enabled Devices
8		Manufacturing Technology	Application of artificial intelligent in manufacturing
9		Manufacturing/CIM/CAD/PDD	Multi-jet 3 D modelling
10		Micro and Nano Manufacturing	Design Requirement of Micro turning Machines
11	Mechanical	FEM	Lower–Upper decomposition method, introduction and difference between FDM, FVM, BEM.
12	Engineering	Design of Machine Elements	Testing of different types of bearing
13		RAC & Automobile	Refrigeration accessories
14		Automobile Engineering /IC Engine	Challenges and opportunities of electric vehicles in India
15		Quality assurance	Industrial Internet of Things (IIoT) technology for quality assurance
16		PDL	Value engineering
		JECRC Foundation Www.jecrcfoundation.com it: 0141 2770120, 2	College and Research Centre lated to RTU Ram Ki Nangal, Jpp. EPIP Gate, Tonk Road, Jaipur 302 022 PROVIDENT OF COLLEGE STRATEGY Jaipur Engineering College R RELEAR

Jaipur Engineering college and research centre, Shri Ram ki Nangal, via Sitapura RHCO Jaipur- 302 022

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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE (JECRC)

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Your feedback will help in academic / innovative activities at	our institute(s)
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10/8/2020

JECRC Mail - Improvement in Syllabus



Hod Me <hod.me@jecrc.ac.in>

Improvement in Syllabus

Shefali<Shefali.cad@gmail.com> To:<hod.me@jecrc.ac.in> Tue, June 15, 2019 at 10:15 AM

Dear Sir,

Greetings from CADD Center

We would like to thank you for the courtesies extended by you and your team during our visit to your Institute last week, regarding training and placement of students in our company

We have inculcated the very best of modern technology and new developments in the field of automobile in our products, which has enabled us to become one of the leading automobile company in the world.

During our interaction with your students overall we found that they were well equipped in their respective fields and subjects, however, they were lacking in their knowledge about the latest updates which are happening in the world of automobile engineering.

Therefore before we complete the process of recruitment, we would suggest that you may initiate and complete the following two activities with your students so that they are better equipped to handle the latest updates in the industry.

The first first topic is Vehicle Mechanics.:

1. To apply the knowledge of Material science manufacturing and design to implement the various concepts of vehicle mechanics.

2. To apply the knowledge of 3D printing technology in design and development of prototypes.

Hope you would find our suggestions in the right spirit and try to inculcate these new aspects in the students curriculum.

We look forward to coming again to your Institute for completion of the recruitment process

Alumni Feedl	back Form					
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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE	Jaipur Engineering Shri Ram ki Nangal,	college and resea via Sitapura RIIC	orch centre, O Jaipur- 30	2 022.		
	Employer's Feed	back Form	Date			
Academic year:2.6	18-19				8-10-	2018
	Feedback	c rating range:				_
Excellent:(5) Very	Good:(4) Good:((3	3) Satisfactory:	(2) Needs	impro	vement:	(1)
and give you better employee Name of the Company/Institu Name of the evaluating person Email: Purcipal w Mobile number: 9814 Vision of Jaipur Engineering Centre To become a renowned centre of o work towards academic, profess enrichment of the lives of individua	is in the future. the: BSDV n with Designation: T monfactury BBCCHS g College and Researce putcome based learning, and socia als and communities.	Mission of Jaip Centre M. Focus on evi students to incul learning. M2. Identify, ba regional and glo platform to gain kn M3. Offer opportu industry. M4. Develop hun intellectually capa emerge in a range of	ur Engineeri aluation of lean cate research sed on inform bal needs, ar nowledge and s nities for intera nan potential n ble and imagi of professions.	ing Col rning our aptitude med per solutions action be to its fui inatively	lege and the local state of the	Research motivate ext based f Indian, provide emia and t so that ders can
	meters		* mich abre	200 810	en distri	-
Para		(5)	(4)	(3)	(2)	(1)
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Para Ability to demonstrate problem Ability to work in team	ı solving skills					
Para Ability to demonstrate problem Ability to work in team Ability to demonstrate leadersh Ability to demonstrate leadersh	n solving skills	ills				
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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE	Jaipur Engincering Shri Ram ki Nangal,	college and research via Sitapura RIICO Ja	centre, ipur- 302 02	2.
	Employer's Feed	oack Form	Date:	26-11-19
Academic year: 2 2 8=-19	All and a star of the second			
	Feedback	rating range:	and play and	

Dear Employer,

Many graduates of our institute are already serving in your organization. We would be grateful if you can spare some of your valuable time to fill up this feedback form. It will help us to improve the Institute further and give you better employees in the future. .

Name of the Company/Institute: Prim	e Visian	automission	Selution
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Name of the evaluating person with Designation: Bhawani Sugh (Instructor) Email: bhawani, pras @ gmail. com

Mobile number: &7 40006 995

emerge in a range of professions

Farameters	(5)	(4)	(3)	(2)	(1)
Ability to demonstrate problem solving skills		~		(-)	(1)
Ability to work in team					
Ability to demonstrate leadership and organization skills		1			
Ability to demonstrate professional ethics	V				
Ability to learn	~				
Ability to promote for social activity					-
ow could our programs be further improved? What specific contrichment?	omments do	you hav	e regardi	ing the cu	rriculu
Iow could our programs be further improved? What specific connichment?	omments do	you hav	e regardi	ing the cu	urriculu a.c.l.a.,
Iow could our programs be further improved? What specific con nrichment? Student Con use IsT in A ny Suggestions: Burgide Courses / guest lee hr	TV L.K «c.m.I	you hav	e regardi	ing the cu	urricul u.c./a.

Gap identified and Action Taken (2019-20)

	Subjects	Gap		Propos			Releva
	5	1		ed plan		Action	nce to
			Topics	-		taken	PO/PS
						tuken	0
			Multi-jet 3 D	Guest	27/08/2	Guest	2 PO3 P
			modelling	Lecture	019	Lecture	04 PO5
							PO1 PO
	Manufacturing		Manufacturing	~	00/00/2	~	2.PO3.P
	technology/		Through CAD:	Guest	06/09/2	Guest	O4,PO5,
	Computer Integrated		Robust	Lecture	019	Lecture	PO11,P
	Manufacturing	Modern	Manufacturing				O12
1	/Computer Aided	industrial					PO1,PO
	Design/Product	production	Denseitien en 2 D	Industri	12/09/2	Industria	2,PO3,P
	design and	technologies	Deposition on 3-D	al Visit	019	l Visit	O4,PO5,
	development/ Micro		Substrates.				PO10
	and Nano						PO1,PO
	Manufacturing			W	6 1 202	W711-	2,PO3,P
			3-D Printing	works	0.1.202	worksn	04,P05,
				nop	0	ор	PO7,PO
							PO11
			Advance CNC				PO1 PO
			programming for	Industri	18/01/2	Industria	2.PO3.P
		Use of IoT	cutter/nose radius	al Visit	020	1 Visit	O4,PO5,
		technology for	compensation				PO11
		computer-	Application of				PO1,PO
		integrated	AutoCAD, CATIA,				2,PO3,P
		manufacturing	Solid works and	Guest	25/01/2	Guest	O4,PO5,
		systems in	ANSYS software	Lecture	020	Lecture	PO7,PO
		industry	in the				8,PO10,
		maastry	Industrias				POIT
	Computer Integrated		I U decomposition				PO1 PO
	Manufacturing /		mothed				2 PO3 P
	CAD/CAM/Design		inteniou,	Guest	09/10/2	Guest	04.PO5
2	of machine element/		introduction and	Lecture	019	Lecture	0 1,1 00
	FEM/ Mechatronics/		difference between				
	Machining &		FDM ,FVM, BEM,				
	Machine Tools		Use of the Internet				PO1,PO
			of Things (IoT) in				2,PO3,P
			the control and				04,P05,
			operation of	Guest	04/09/2	Guest	
			mechatronics	Lecture	019	Lecture	012
			systems especially				
			in a manufacturing				
			situation				
			Working of		17/01/2		PO1.PO
			advance machine	Industri	1//01/2	Industria	2,PO3,P
			tools	al Visit	020	I VISIT	O4,PO5,

							PO11
	Eluid Machanica/UT	Safety and modes of Gas Transportation	Transportation of Gas	Industri al Visit	03/10/2 019	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO6, PO7,PO 11
3	/PDL		Value engineering	Guest Lecture	30/5/20 20	Guest lecture	PO1,PO 2,PO3,P O4,PO7, PO8,PO 10,PO11
4	Design of Machine Elements	Design consideration and safety of machine elements	Design consideration during design of roller bearing and testing of different types of bearing	Guest Lecture	24/01/2 020	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO7,PO 8,PO10, PO11
			Challenges and opportunities of electric vehicles in India	Guest Lecture	13/02/2 020	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO10
			Application of artificial intelligent in manufacturing	Guest Lecture	20/6/20 20	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO10
5	Automobile Engg./IC Engine/ Manufacturing technology/ BAC	AutomobileElectric andEngg./IC Engine/hybrid vehiclesManufacturingtechnologies.technology/ RAC	Refrigeration accessories	Industri al Visit	30/1/20 20	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO10
			Recent Advancement in Automobile Engineering& Latest Safety systems in automobile	Guest Lecture	03/03/2 020	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO7,PO 8,PO10, PO11
6	Micro and Nano Manufacturing	Advanced machining technologies	Design Requirement of Micro turning	Industri al Visit	30/09/2 019	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO10,P O11
7	Product Development and	Sustainability i n design and m anufacturing	Sustainable manufacturing	Industri al Visit	16/01/2 020	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO7,PO 11,PO12
	Launching/Quality management		Quality through design: Robust design	Industri al Visit	17/02/2 020	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO8,PO 10,PO11

Criter	rion-2 Program	Curriculum and	Tea	eaching- Learning Process						
S. No	CRITERIA	OBSERVATIO MADE BY NI	N A	COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION)						
2.1.2	2.1.2 State the delivery details of the content beyond the syllabus for	Delivery topics beyo syllabus minimal a	of nd is nd	 The texperiod Delivishow 	topics beyond s riential learning very of number n below for var	syllabus are de and participat of topics bey ious academic	elivered through ive learning. yond syllabus is years.			
	the attainment of POs & PSOs	random.		Year No. of	2217-10	2010-13	28			
				Content bey feedbacks c departmental of session. These are the	ond syllabus i of stake hold academic calen modes of delive	s identified t lers and ind dar before the ery of topics b	through various cluded in the commencement eyond syllabus.			
				Delivery methods	Link					
				Add-on courses / worksho ps	https://jecrcfou data/ADDON/I https://jecrcfou data/ADDON/3 https://jecrcfou data/ADDON/a https://jecrcfou data/ADDON/I https://jecrcfou data/ADDON/3 https://jecrcfou data/ADDON/3	ndation.com/jf Differentaspec ndation.com/jf 3DPrinting201 ndation.com/jf lifferentaspect ndation.com/jf L3D2019-20.p ndation.com/jf 3Dprinting201 ndation.com/jf automobilewor	F- t2019-20.pdf F- <u>9-20.pdf</u> F- 2018-19.pdf F- <u>df</u> F- 8-19.pdf F- 8-19.pdf			
				Guest lectures by the industry person	https://jecrcfou data/NBA/ME/ 20/Guest-Lectu https://www.jec nar/Webinar-M	ndation.com/jf Guest-Lecture tres-2019-20.p crefoundation. IE.pdf	<u>F-</u> /2019- <u>df</u> com/pdf/webi			
				Industria	https://jecrcfou	ndation.com/jf	<u>f-</u>			

l visit s	data/NBA/ME/Industrial-Visit/Industrial- Visits-2019-20.pdf
Confere nces	https://www.jecrcfoundation.com/pdf/conf rence-reports/ME%202015-2020.pdf
Technic al clubs/ activities	https://jecrcfoundation.com/jf- data/NBA/ME/MoonRider/Annual%20Re port%202019-20.pdf https://jecrcfoundation.com/jf- data/NBA/ME/MoonRider/Annual-Report- 2018-19.pdf

Gap identified and Action Taken (2019-20)

	Subjects	Gap		Propos			Releva
			т :	ed plan		Action	nce to
			lopics			taken	PO/PS
							0
			Multi-jet 3 D modelling	Guest Lecture	27/08/2 019	Guest Lecture	PO1,PO 2,PO3,P O4,PO5
	Manufacturing technology/ Computer Integrated Manufacturing	Modern	Manufacturing Through CAD: Robust Manufacturing	Guest Lecture	06/09/2 019	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO11,P O12
1	/Computer Aided Design/Product design and development/ Micro	industrial production technologies	Deposition on 3-D Substrates.	Industri al Visit	12/09/2 019	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO10
	and Nano Manufacturing		3-D Printing	Works hop	6.1.202 0	Worksh op	PO1,PO 2,PO3,P O4,PO5, PO7,PO 8,PO10, PO11,
		Use of IoT technology for	Advance CNC programming for cutter/nose radius compensation	Industri al Visit	18/01/2 020	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO11
2	Computer Integrated Manufacturing / CAD/CAM/Design of machine element/ FEM/ Mechatronics/ Machining & Machine Tools	computer- integrated manufacturing systems in industry	Application of AutoCAD, CATIA, Solid works and ANSYS software in the Manufacturing Industries	Guest Lecture	25/01/2 020	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO7,PO 8,PO10, PO11
			LU decomposition method, introduction and difference between	Guest Lecture	09/10/2 019	Guest Lecture	PO1,PO 2,PO3,P O4,PO5

			FDM ,FVM, BEM,]		
			Use of the Internet of Things (IoT) in the control and operation of mechatronics systems especially in a manufacturing situation	Guest Lecture	04/09/2 019	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO11,P O12
			Working of advance machine tools	Industri al Visit	17/01/2 020	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO11
3	Fluid Mechanics/HT	Safety and modes of Gas Transportation	Transportation of Gas	Industri al Visit	03/10/2 019	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO6, PO7,PO 11
5	/PDL		Value engineering	Guest Lecture	30/5/20 20	Guest lecture	PO1,PO 2,PO3,P O4,PO7, PO8,PO 10,PO11
4	Design of Machine Elements	Design consideration and safety of machine elements	Design consideration during design of roller bearing and testing of different types of bearing	Guest Lecture	24/01/2 020	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO7,PO 8,PO10, PO11
			Challenges and opportunities of electric vehicles in India	Guest Lecture	13/02/2 020	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO10
			Application of artificial intelligent in manufacturing	Guest Lecture	20/6/20 20	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO10
5	Automobile Engg./IC Engine/ Manufacturing technology/ RAC	Electric and hybrid vehicles technologies.	Refrigeration accessories	Industri al Visit	30/1/20 20	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO10
			Recent Advancement in Automobile Engineering& Latest Safety systems in automobile	Guest Lecture	03/03/2 020	Guest Lecture	PO1,PO 2,PO3,P O4,PO5, PO7,PO 8,PO10, PO11
6	Micro and Nano Manufacturing	Advanced machining	Design Requirement of	Industri al Visit	30/09/2 019	Industria 1 Visit	PO1,PO 2,PO3,P

		technologies	Micro turning				O4,PO5, PO10,P O11
7	Product Development and	Sustainability i n design and m anufacturing	Sustainable manufacturing	Industri al Visit	16/01/2 020	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO7,PO 11,PO12
/	Launching/Quality management		Quality through design: Robust design	Industri al Visit	17/02/2 020	Industria 1 Visit	PO1,PO 2,PO3,P O4,PO5, PO8,PO 10,PO11

Criterion-2	2 Program Curric	ulum and Teaching	g- Learning Process
S. No	CRITERIA	OBSERVATION MADE BY NBA	COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION)
2.2.1	2.2.1Describe the Process followed to improve quality of Teaching Learning	Feedback process exists but no follow up action taken after analysis.	Institute regularly collect and analyse feedback from students and other stakeholders on various issues. After analysing the feedbacks corrective actions are taken. Action taken reports are shared with the stakeholders. Feedback forms, Mechanism and action taken reports are also available on the institute websites. https://jecrcfoundation.com/igac/feedback- forms https://www.jecrcfoundation.com/pdf/igac- feedback/1.4.2- Feedback%20Mechanism.pdf https://jecrcfoundation.com/igac/action- taken-report

List and link of feedback forms

S. No	Types of Feedbacks	Link Of Feedbacks
1	Student's Curriculum Feedback Form	https://forms.gle/zf81BNcSCnUtcc2J7
2	Students Feedback On Teaching Learning	https://forms.gle/bmeUV44GyKTkkzay7
3	Students Extra-Curricular Feedback Form	https://forms.gle/FdzxwxoZZEW99usv9
4	Parent's Feedback Form	https://forms.gle/RiwFvop6a5NHqpyG7
5	Student's Facility Feedback Form	https://forms.gle/GhxvQUNrRyGSUsBQA
6	Student's Hostel Facility Feedback Form	https://forms.gle/xeHNUd4dixmNuF2B9
7	Student's Feedback(Transport Facility) Form	https://forms.gle/Y8gAnoQmg9hoTbeJ8
8	General Feedback Form	https://forms.gle/fEwp5T1zbGS2xpvK7
9	Student's Course Outcome Feedback Form	https://forms.gle/GnxSy4NCVzotjtKBA
10	Student's Program Exit Feedback Form	https://forms.gle/kV4f2nXJvFqJEzaPA
11	Employee Feedback Form	https://forms.gle/fHumzaPAYSrkQBds8
12	Industrial Training Feedback Form	https://forms.gle/AhmpicDXssa3QWkr9

Students feedback - Teaching learning Final

To what extent the teacher discusses course outcomes and program outcomes in the class. 399 responses



To what extent the teacher encourages participation and discussion in class.

399 responses





399 responses



To what extent the teacher motivates students for participation in extracurricular activities 399 responses



To what extent the teacher provides mentoring for academic and non-academic matters

399 responses



To what extent faculties deliver online lecture and e-notes through Google Classroom.





To what extent the faculties provide the assignments and discussion related to problem solving approach.

399 responses



To what extent faculties provide notes/ppt /e-materials through online platform.

399 responses



To what extent grievances related issues are addressed.

399 responses



Student's Teaching learning Feedback forms received from students and summary as I	onows
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Parameters	Respons	es	Action taken
	≥60	<60	
To what extent the teacher discusses course outcomes and program outcomes in the class.	95.74%	4.26%	The students appreciate the efforts made by faculty members regarding the discussion of COs & POs. Few students required more discussion regarding the same. HOD advised to all faculty members to increase the frequency of discussion of COs &Pos in classroom.
To what extent the teacher encourages participation and discussion in class.	95.5	4.5	The faculty members encourage innovative participation of students to make active discussions in classroom teaching. HOD advised to all faculty members to increase the participation and discussion in class. Also increase the involvement of slow learners in discussion.
To what extent teacher maintains regularity and punctuality in class	96.74	3.26	The students appreciated the regularity and punctuality of faculty members in classroom. HoD advised to faculty members regarding regularity and punctuality in class.
To what extent the teacher motivates students for participation in extracurricular activities.	92.23	7.77	The students appreciate the efforts made by the faculty members. Also, faculty members are advised to motivate the students to make maximum involvement in extracurricular activities. Also, HoD insured the students that there will be no loss related to academic during the time period of the participation in extracurricular activities.
To what extent the teacher provides mentoring for academic and non-	95.0	5.0	The students appreciated the faculty members. HoD advised to mentors to increase the frequency of active mentoring sessions, especially for slow learners.
To what extent faculty members deliver online lecture and c-notes through google classroom	95.5	4.5	The students appreciate the efforts made by the faculty members. HoD advised the faculty members to upload advanced study materials like GATE, IES etc materials, lecture videos, lab experiments videos.
To what extent the faculties provide the assignments and discussion related to problem	96.24	3.76	Almost all faculties provide the quality assignment to the students. HOD advised to "faculty members to enhance the difficulty level of assignments by incorporate complex problems. Also
			Honge CD

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solving approach			provide last year GATE, IES etc questions in assignments for fast learners and provide extra discussion time for slow learners.
To what extent faculties provide notes/ppt /e- materials through online platform.	95.74	4.26	The students appreciate the efforts made by the faculty members. HoD advised the faculty members to upload advanced study materials, lecture videos, lab experiments videos/ NPTEL/ Swayam/ Swayam Prabha links to students.
To What extent grievances related issues are addressed	95.5	4.5	The students appreciate the efforts made by the department. Almost all the grievances are addressed. HOD instructed all faculty members to address all grievances related issues of students at time.

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Criterion-2	2 Program Curric	ulum and Teaching-	ing- Learning Process	
S No	CDITEDIA	OBSERVATION	COMPLIANCE STATUS	
5. NU	CRITERIA	MADE BY NBA	(ACTION TAKEN BY INSTITUTION)	
2.2.2 2	2.2.2 Quality of	Evaluation of	• The departmental moderation committee maintains	
iı	internal semester	internal	the quality of question papers in discussion with	
q	question papers,	examination	faculty members. All questions in the question paper	
a	assignments and	papers needs	are mapped with course outcomes and thus	
e	evaluation	greater attention.	identification of slow learner and fast learner is	
		Quality of question	carried out based on predefined targets.	
		papers and assignments, evaluation is not up to the mark.	 Grievance forms related to evaluation of answer script is provided to the students and necessary actions are taken within stipulated time to resolve any grievance. The question paper for each subject is divided into different sections as per RTU guidelines. While finalizing the question paper previous university exam papers, GATE, IES, PSU, other competitive exams question papers are taken into consideration. Faculty members also provide assignment/question bank having question of previous year question papers/GATE/PSU question paper to all students. All the necessary corrective measures are thus approved by IQAC. (https://jecrcfoundation.com/student-assessment-guidelines) https://www.jecrcfoundation.com/Student-Grievance-Mechanism 	





AMPEREMARK COLLEGE AND RESEARCH AMPEREMARK COLLEGE AND RESEARCH JECRC Campus, Shri Ram Ki Nangal, Via-Vatika		CE (a,	I CENT Jaipur	RE			
			MTT-II (SET- Academic Year: 2020-2021(C	A) DDD Semester)			
Cours		1:	B.Tech.	Date	:	21/11/2	:020
Seme	ster/	: S-A/B Time Duration : 1:30 ho		our			
Subje Subje	et & et Code	: DME-1 (5ME4-04) Max. Marks : 40					
			Course Outco	omes	-		
C03	1	Fo esti bendin	mate the stresses and strains induced in dif g.	ferent m/c element subjected	to to	rsion and	ł
CO4	1	To des	ign threaded fasteners.				
Q. No.	со		Questions				Mar
			PART- A: Attempt All Questi	ons (5x2 = 10Marks)			
1.	C03	Eluc	idate nipping in laminated spring?				2
2.	C03	Dem	ystify the utility of the center bolt and rebo	ound clip in a leaf springs?			2
3.	C03	Illun	inate the circumstances in which hollow s	hafts are preferred over solid :	shaf	ts?	2
4.	C04	Expl	icate winker bach formula in curved beam	•			2
5.	C04	Illust	rate three practical applications of curved	beam.			2
	C.S.P.		PART-B: Attempt ANY THREE Q	Duestions (3x5 = 15Marks)			
1.	C03	Com diam exter	pare the weight, strength and stiffness of eter as that of solid shaft. The inside dia nal diameter. Both of the shafts have the s	of a hollow shaft of the sar meter of the hollow shaft be ame material and length.	nc o	external 1/3 the	5
2.	C03	Desi Tota maxi Perm Take	esign a leaf spring for the following specifications: otal load=140kN; number of springs supported the load= 4; aximum number of leaves=10;span of spring=1000mm; ermissible deflection=80mm. ke young modulus E=200 kN/mm ² and allowable stress in spring material as 600MPa.		i00MPa.	5	
3.	C03	A sto mm locat the r	steel solid shaft transmitting 15 kW at 200 r.p.m. is supported on two bearings 750 n apart and has two gears keyed to it. The pinion having 30 teeth of 5 mm module is rade 100 mm to the left of the right hand bearing and delivers power horizontally to right. The gear having 100 teeth of 5 mm module is located 150 mm to the right of			ngs 750 odule is ntally to right of Jsing an	5



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			MTT - II Academic Year 2020-21 (ODD Se	mester)		-	
	Course	1.	B.Tech.	Date	1:1	2/12/2020	
Se	emester Section	1 1	III (SET –A)	Time Duration	:	1.5 Hour	
Su Sub	ibject &	sde :	Engineering Mechanics (3ME3-04)	Max. Marks		: 40	
	I		Course Outcomes				
COI	1	Students	will be able to describe fundamental laws of	forces, FBD, Trusse	es and	l virtual work.	
CO2		Students Inertia an	will be able to identify problem associated d lifting machines.	with Centre of grav	ity a	nd Moment o	
C03	Ris I	Students	will be able to understand the basic concept	of Friction with belt	and r	ope drive.	
C04		Students v and power	will be able to describe the laws of motion, r.	kinematics of rigid	bodie	s,work,energy	
Q. No.	co		Questions			Marks	
			PART- A: Attempt All Questions (5x2	= 10Marks)	-		
L	CO3	Describe	the term Coefficient of friction.			2	
2.	CO3	Hlustrate	the concept of limiting friction with the help of	neat diagram.		2	
3.	CO3	Different	iate between static and kinetic friction.			2	
4.	CO4	State the	projectile motion.			2	
5.	CO4	State D'a	lembert's principle.			2	
		-	•				
		1	PART-B: Attempt ANY THREE Questions (3	x5 = 15Marks)			





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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Jaipur

MTT-I

Academic Year-2020-21(ODD Semester)

Course	:	B.Tech.	Date	4	20/11/2020
Semester/ Section	:	V(A & B)	Time Duration	:	1.30 Hr
Subject& Subject Code		Heat Transfer(5ME4-02)	Max. Marks	:	40

	Course Outcomes					
COI	To understand the basic concept of mode of heat transfer.					
CO2	To apply non-dimensional numbers to evaluate and validate heat transfer parameters.					
C03	To analyze the complex problems of heat transfer with proper boundary conditions.					

Q. No.	со	Questions	M ar ks
	196	PART- A: Attempt All Questions (5x2 = 10Marks)	
I.	COI	Enumerate under what circumstances can one expect radiation heat transfer to be significant?	02
2.	COI	Discuss the driving force for (a) heat transfer (b) electric current flow and (c) fluid flow?	02
3.	CO2	How LMTD is differs from NTU method.	02
4.	CO2	Identify the mode of heat transfer in which heat transfer coefficient usually higher: natural convection or forced convection?	02
5.	COI	Enumerate the physical significance of the Nusselt number?	02
		PART-B: Attempt ANY THREE Question (3x5 = 15Marks)	
1.	CO2	In a counter flow heat exchanger, hot fluid enters at 60°C and cold fluid leaves at 30°C. Mass flow rate of the hot fluid is 1 kg/s and that of the cold fluid is 2 kg/s. Specific heat of the hot fluid is 10 kJ/kgK and that of the cold fluid is 5 kJ/kgK. The Log Mean Temperature Difference (LMTD) for the heat exchanger in °C is	05
2.	CO2	A designer chooses the values of fluid flow ranges and specific heats in such a manner that the heat capacities of the two fluids are equal. A hot fluid enters the counter flow heat exchanger at 100°C and leaves at 60°C. The cold fluid enters the heat exchanger at 40°C. The mean temperature difference between the two fluids is	05
3.	CO3	Consider a person whose exposed surface area is 1.9 m ² , emissivity is 0.85, and surface temperature is 30°C. Determine the rate of heat loss from that person by radiation in a	05

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JAIPUI AN	R ENGD D RESE	EERING ARCH C	OILLEGE	JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Jaipur		
	In		large r	oom whose walls are at a temperature of (a) 300 K and (b) 280 K	_	
4.	C	03	Establ	ished the expression for the effectiveness of parallel heat exchanger by NTU d.	05	
				PART-C: Attempt ANY THREE Questions (3x5 = 15Marks)		
1.	C	03	Crude The a Calcu 20°C.	coil at 22°C enters a 20-cm-diameter pipe with an average velocity of 20 cm/s. verage pipe wall temperature is 2°C. Crude oil properties are as given below. alate the rate of heat transfer and pipe length if the crude oil outlet temperature is	05	
			10	kg/m ³ W/m·K mPa-s kUkg-K 0 900 0.145 60.0 1.80		
			2.	2.0 890 0.145 20.0 1.90		
	2.	C03	A fu dom tem from [No	rnace is shaped like a long semi cylindrical duct of diameter $D = 5$ m. The base and the e of the furnace have emissivities of 0.5 and 0.9 and are maintained at uniform peratures of 350 and 1000 K, respectively. Determine the net rate of radiation heat transfer a the dome to the base surface per unit length during steady operation. te: Instead of 15 ft the value of D is 5m]	05	
	3.	CC	D3 A 20 kg of ef	double pipe parallel flow H.E. use oil ($cp = 1.88 \text{ kJ/kg.K}$) at an initial temperature of 5°C to heat water, flowing at 225kg/hr from 16°C to 44°C. The oil flow rate is 270 /hr. a) what is the heat transfer area required for an overall heat transfer coefficient 340 W/m2 .K. b) Determine the number of transfer unit (NTU). c) Calculate the fectiveness of the H.E.	0:	
	4.	. 0	O3 In fl	a counter-flow heat exchanger, the hot fluid is cooled from 110°C to 80°C by a cold uid which gets heated from 30°C to 60°C. LMTD for the heat exchanger is	0	
4. CO3 In a counter-flow heat exchanger, the hot fluid is cooled from 110°C to 80°C by a cold fluid which gets heated from 30°C to 60°C. LMTD for the heat exchanger is						

MTT-II

Academic Year-2020-21(ODD Semester)

Course	:	B.Tech.	Date	:	20/11/2020
Semester/ Section	:	V(A & B)	Time Duration	:	1.30 Hr
Subject& Subject Code	:	Heat Transfer(5ME4-02)	Max. Marks	:	40

Course Outcomes				
CO1	To understand the basic concept of mode of heat transfer.			
CO2	To apply non-dimensional numbers to evaluate and validate heat transfer parameters.			
CO3	To analyze the complex problems of heat transfer with proper boundary conditions.			
CO4	To discuss the concept of radiation and impact on the global environment.			

Q. No.	СО	Questions	Marks				
PART- A: Attempt All Questions (5x2 = 10Marks)							
1.	CO4	Under what circumstances can one expect radiation heat transfer to be significant? Solution: Radiation heat transfer becomes important at high temperatures (above 1000 K) and after collapse of materials, when some structures are in direct view with hot debris located below.	02				
2.	CO1	What is the driving force for (a) heat transfer (b) electric current flow and (c) fluid flow?Solution: The temperature difference is the driving force for heat transfer, just as the voltage difference is the driving force for electric current flow and pressure	02				

		difference is the driving force for fluid flow	
3.	CO3	How LMTD is differs from NTU method. Solution: The LMTD method is convenient for determining the overall heat transfer coefficient based on the measured inlet and outlet fluid temperatures. The ε -NTU method is more convenient for prediction of the outlet fluid temperatures if the heat transfer coefficient and the inlet temperatures are known.	02
4.	CO1	In which mode of heat transfer is the heat transfer coefficient usually higher: natural convection or forced convection? Solution: Typically heat transfer under forced convection conditions is higher than natural convection for the same fluid.	02
5.	CO2	What is the physical significance of the Nusselt number? How is it defined? Solution: Nusselt number is required to find 'h' which is convective heat transfer coefficient. The <i>physical</i> interpretation of Nusselt number is the enhancement of heat transfer due to convection over conduction alone. If Nu=1, then, than your fluid is stationary and all heat transfer is by conduction. With Nu>1, the fluid motion enhances heat transfer by advection . $Nu = \frac{Q_{conv}}{Q_{cond}} = \frac{h\Delta T}{k\frac{\Delta T}{L}} = \frac{hL}{k}$	02
		PART-B: Attempt ANY THREE Question (3x5 = 15Marks)	
1.	CO3	In a counter flow heat exchanger, hot fluid enters at 60°C and cold fluid leaves at 30°C. Mass flow rate of the hot fluid is 1 kg/s and that of the cold fluid is 2 kg/s. Specific heat of the hot fluid is 10 kJ/kgK and that of the cold fluid is 5 kJ/kgK. The Log Mean Temperature Difference (LMTD) for the heat exchanger in °C is Solution:	05

		Heat capacity of hot fluid = 1 × 10 = 10 kJ/k - s Heat capacity of cold fluid = 2 × 5 = 10 kJ/k - s Since heat capacity is same, so LMTD is difference of temperature at either end i.e. LMTD = 60° - 30° = 30° C 60°C - 30° = 30° C	
2.	CO3	A designer chooses the values of fluid flow ranges and specific heats in such a manner that the heat capacities of the two fluids are equal. A hot fluid enters the counter flow heat exchanger at 100°C and leaves at 60°C. The cold fluid enters the heat exchanger at 40°C. The mean temperature difference between the two fluids is Solution: tm = mean temperature difference between the two fluids for counter flow heat exchanger, tm = th1-tc2 = th2-tc1. tm = th2-tc1 = 60-40 = 20.	05
3.	CO4	Consider a person whose exposed surface area is 1.9 m ² , emissivity is 0.85, and surface temperature is 30°C. Determine the rate of heat loss from that person by radiation in a large room whose walls are at a temperature of (a) 300 K and (b) 280 K Solution: (a) $\dot{Q} = \varepsilon \sigma A \left(T_s^4 - T_w^4\right)$ $= 0.5 * 5.67 * 10^{-8} * 1.7 * (305^4 - 300^4) = 26.7 W$ (b) $\dot{Q} = \varepsilon \sigma A \left(T_s^4 - T_w^4\right)$ $= 0.5 * 5.67 * 10^{-8} * 1.7 * (305^4 - 280^4) = 120.83 W$	05
4.	CO3	Derive the expression for the effectiveness of heat exchanger by NTU method	05

Solution: If more than one of the inlet and outlet temperature of the heat exchanger is unknown, LMTD may be obtained by trial and errors solution. Another approach introduce the definition of heat exchanger effectiveness (C), which is a dimensionless with ranging between 0 to1. $\mathbf{E} = \frac{q_{act}}{q_{max}}$ Where, q_{max} is the maximum possible heat transfer for the exchanger. The maximum value could be attained if one of the fluids were to undergo a temperature change equal to the maximum temperature difference present in the exchanger, which is the difference in the entering temperatures for the hot and cold fluids. Let C = mCp $q_{act} = C_h (Th_i - Th_o) = Cc(Tc_o - Tc_i)$ The maximum possible heat transfer when the fluid of small C undergoes the maximum temperature difference available $q_{\max} = C_{\min} \left(Th_i - Tc_i \right)$ $q_{act} = \varepsilon C_{\min} (Th_i - Tc_i)$ For parallel flow H.E with combining the last three equations, we get two expressions for effectiveness $\epsilon = \frac{C_h (Th_i - Th_o)}{C_{\min} (Th_i - Tc_i)} = \frac{Cc(Tc_o - Tc_i)}{C_{\min} (Th_i - Tc_i)}$ $C_h = \frac{Th_i - Th_o}{Th_i - Tc_i}$ For $C_h < Cc$: $C_c = \frac{Tc_o - Tc_i}{Th_i - Tc_i}$ For $C_h > Cc$: Using the following equation, $\ln \frac{Th_o - Tc_o}{Th_i - Tc_i} = -UA(\frac{1}{C_h} + \frac{1}{Cc})$ We get

		$\frac{Th_o - Tc_o}{Th_i - Tc_i} = \exp\left[-\frac{UA}{C_h}\left(1 + \frac{C_h}{C_c}\right)\right]$	
		From energy balance,	
		$Tc_{o} = Tc_{i} + \frac{C_{h}}{Cc}(Th_{i} - Th_{o})$	
		By using the last two equations, we obtained	
		$C_{h} = \frac{1 - \exp[(-UA/C_{h})(1 + (C_{h}/Cc))]}{1 + (C_{h}/Cc)}$	
		and	
		$C_{c} = \frac{1 - \exp[(-UA/Cc)(1 + (Cc/C_{h})]]}{1 + (Cc/C_{h})}$	
		The last two equations may be written as $\epsilon = \frac{1 - \exp[(-UA/C_{\min})(1 + C_{\min}/C_{\max})]}{1 + C_{\min}/C_{\max}}$	
		The terms UA/Cmin is called the number of transfer units (NTU) since it is indicative of the size of the heat exchanger, i.e	
		$NTU = \frac{UA}{C}$	
		⊂ min	
		<u>PART-C: Attempt ANY THREE Questions (3x5 = 15Marks)</u>	
1.	CO4	A furnace is shaped like a long semi cylindrical duct of diameter $D = 5$ m. The base and the dome of the furnace have emissivities of 0.5 and 0.9 and are maintained at uniform temperatures of 350 and 1000 K, respectively. Determine the net rate of radiation heat transfer from the dome to the base surface per unit length during steady operation.	05
		[Note: Instead of 15 ft the value of D is 5m]	
		$D = 15 \text{ ft} \rightarrow 0$	
		Solution:	

		The base and the dome of a long semicylindrical duct are maintained at uniform temperatures. The net rate of radiation heat transfer from the dome to the base surface is to be determined. Assumptions 1 Steady operating conditions exist 2 The surfaces are opaque, diffuse, and gray. 3 Convection heat transfer is not considered. Properties The emissivities of surfaces are given to be $\varepsilon_1 = 0.5$ and $\varepsilon_2 = 0.9$. Analysis The view factor from the base to the dome is first determined from $F_{11} = 0$ (flat surface) $F_{11} + F_{12} = 1 \rightarrow F_{12} = 1$ (summation rule) The net rate of radiation heat transfer from dome to the base surface can be determined from $\dot{Q}_{21} = -\dot{Q}_{12} = -\frac{\sigma(T_1^4 - T_2^4)}{\frac{1-\varepsilon_1}{A_1\varepsilon_1} + \frac{1}{A_1F_{12}} + \frac{1-\varepsilon_2}{A_2\varepsilon_2}} = -\frac{(0.1714 \times 10^{-8} \text{ Btu/h.ft}^2 \cdot \text{R}^4)[(550 \text{ R})^4 - (1800 \text{ R})^4]}{(15 \text{ ft}^2)(1) + \left[\frac{\pi(15 \text{ ft})(1 \text{ ft})}{2}\right](0.9)}$ $= 1.311 \times 10^6 \text{ Btu/h}$ The positive sign indicates that the net heat transfer is from the dome to the base surface, as expected.	
3.	CO3	A double pipe parallel flow H.E. use oil (cp = 1.88 kJ/kg.K) at an initial temperature of 205°C to heat water, flowing at 225kg/hr from 16°C to 44°C. The oil flow rate is 270 kg/hr. a) what is the heat transfer area required for an overall heat transfer coefficient of 340 W/m2 .K. b) Determine the number of transfer unit (NTU). c) Calculate the effectiveness of the H.E. Solution: $ \begin{pmatrix} (mcp\Delta T)_{all} = (mcp\Delta T)_{water} \\ cp_{water} = 4.18kJ/kg.K \\ \therefore 270 \times 1.88 \times (205 - Th_o) = 225 \times 4.18 \times (44 - 16) \\ \Rightarrow Th_o = 153^{\circ}C \\ \therefore \Delta TLM = \frac{189 \cdot 109}{\ln \frac{189}{109}} = 145.4^{\circ}C \\ \frac{116}{\ln \frac{189}{109}} = 145.4^{\circ}C \\ D(mcp)_{water} = 225 \times 4.18 = 9.405 \times 10^5 J/hr.K, (mcp)_{all} = 270 \times 1.88 = 5.076 \times 10^5 J/hr.K \\ \therefore Cmin = 5.076 \times 10^5 J/hr.K = 141W/K \\ NTU = UA/C \min = 340 \times 0.148/141 = 0.36 \\ c) \epsilon = \frac{1 - \exp[(-UA/C\min)(1 + C\min/C\max)]}{1 + C\min/C\max} = 28\% $	05



JECRC, JAIPUR

Department of Mechanical Engineering

Assignment-I

Sub: - HT

Code: 5ME4-02

CO1 To understand the basic concept of mode of heat transfer.
CO2 To apply non-dimensional numbers to evaluate and validate heat transfer parameters
CO3 To analyze the complex problems of heat transfer with proper boundary conditions
CO4- To discuss the radiation phenomenon and impact on global environment

CO1

Q1- Derivation for cylindrical Cartesian Coordinates for heat conduction equation.

Q2-A 30 cm thick layer wall of 5 m \times 3 m size is made of red brick (K=0.3W/m-deg).It is covered on both sides by layers of plaster,2 cm thick (K=0.6 W/m-deg).the wall has a window

size of 1 m× 2 m. The window door is made of 12mm thick glass(K=1.2 W/m-deg). If the inner and outer surface temperatures are 15 and 40^{0} C ,make calculations for the rate of heat flow through the wall.

Q3-What is critical thickness of insulation? Explain its importance in heat transfer

Q4-Explain Newtons law of cooling

Q5-Derive General 3-Dimensoinal conduction equation for Cylindrical coordinates.

Q6-A 2 mm diameter wire with 0.8 mm thick layer of insulation (k=0.15 W/m-deg is used in a certain electric heating application. The insulated surface is exposed to atmosphere withh= 40 W/m2deg.What percentage change in heat transfer rate would occur if critical thickness of insulation is used? It may assume that the temperature difference between surface of wire and surrounding air remains unchanged?

Q7-Explain the modes of heat transfer with examples of conduction, convection, radiation.

Q8--Derive General 3-Dimensoinal conduction equation for Spherical coordinates.

Q9-A copper rod 0.5 cm diameter and 50 cm long protrudes from a wall maintained at a temperature of 500°C. The surrounding temperature is 30°C. Convective heat transfer coefficient is 40 W/m²K and thermal conductivity of material is 300 W/mK. Determine:

Total heat transfer rate from rod

Temperature of the rod at 20 cm from wall

Q10- Explain Fin with its different types.

PREVIOUS YEAR GATE/IES QUESTIONS

Q11-For a given heat flow and for the same thickness, the temperature drop across the material will be maximum for

(a) Copper (b) Steel (c) Glass-wool(d) Refractory brick

Q12-A steel ball of mass 1kg and specific heat 0.4 kJ/kg is at a temperature of 60°C. It is dropped into 1kg water at 20°C. The final steady state temperature of water is: [GATE-1998] (a) 23.5°C (b) 300°C (c) 35°C (d) 40°C

Q13-A steel ball of mass 1kg and specific heat 0.4 kJ/kg is at a temperature of 60°C. It is dropped into 1kg water at 20°C. The final steady state temperature of water is: [GATE-1998] (a) 23.5°C (b) 300°C (c) 35°C (d) 40°C

Q14-In descending order of magnitude, the thermal conductivity of

a. Pure iron, [GATE-2001]

b. Liquid water,

c. Saturated water vapour, and

d. Pure aluminium can be arranged as
Q15-A copper block and an air mass block having similar dimensions are subjected to symmetrical heat transfer from one face of each block. The other face of the block will be reaching to the same temperature at a rate: [IES-2006]

- (a) Faster in air block
- (b) Faster in copper block
- (c) Equal in air as well as copper block
- (d) Cannot be predicted with the given information

Q16-A plane wall is 25 cm thick with an area of 1 m2, and has a thermal conductivity of 0.5 W/mK. If a temperature difference of 60° C is imposed across it, what is the heat flow? [IES-2005]

(a) 120W (b) 140W (c) 160W (d) 180W

Q17-Which one of the following expresses the thermal diffusivity of a substance in terms of thermal conductivity (k), mass density (ρ) and specific heat (c)? [IES-2006]

(a) $k2 \rho c$ (b) $1/\rho kc$ (c) $k/\rho c$ (d) $\rho c/k2$

Q18-A furnace is made of a red brick wall of thickness 0.5 m and conductivity 0.7 W/mK. For the same heat loss and temperature drop, this can be replaced by a layer of diatomite earth of conductivity 0.14 W/mK and thickness [IES-1993]

(a) 0.05 m (b) 0.1 m (c) 0.2 m (d) 0.5 m

CO3/Q19-A stainless steel tube (ks = 19 W/mK) of 2 cm ID and 5 cm OD is insulated with 3 cm thick asbestos (ka = 0.2 W/mK). If the temperature difference between the innermost and outermost surfaces is 600°C, the heat transfer rate per unit length is: [GATE-2004]

(a) 0.94 W/m (b) 9.44 W/m (c) 944.72 W/m (d) 9447.21 W/m

CO3/Q20-A composite wall of a furnace has 3 layers of equal thickness having thermal conductivities in the ratio of 1:2:4. What will be the temperature drop ratio across the three respective layers? [IES-2009]

(a) 1:2:4 (b) 4:2:1 (c) 1:1:1 (d) log4:log2:log1

JECRC, JAIPUR

Department of Mechanical Engineering

Assignment-II

Sub: - HT

Code: 5ME4-02

CO1 To understand the basic concept of mode of heat transfer.

CO2 To apply non-dimensional numbers to evaluate and validate heat transfer parameters CO3 To analyze the complex problems of heat transfer with proper boundary conditions

CO1

Q1- Illustrate Fin efficiency and its effectiveness.

Q2- Explain the significance of Velocity and thermal boundary layers.

Q3-Explain Fin with its different types.

Q4-Derive an expression for general differential equation of fin.

Q5- A copper rod 0.5 cm diameter and 50 cm long protrudes from a wall maintained at a temperature of 500°C. The surrounding temperature is 30°C. Convective heat transfer coefficient is 40 W/m²K and thermal conductivity of material is 300 W/mK. Determine:

Total heat transfer rate from rod

Temperature of the rod at 20 cm from wall

CO2

Q6- Write empirical relation of flow over a flat plate for turbulent flow.

Q7-Explain Newton's law of cooling for convection.

CO3

Q8-Air at 20°C flows over a flat surface maintained at 80°C. Estimate the value of local heat transfer coefficient if the local heat flow at a point was measured as 1250 W/m². Proceed to calculate the temperature gradient at the surface and the temperature at a distance of 0.6mm from the surface. Take thermal conductivity of air as 0.028W/m-deg

Q9-Air at 2 bar pressure and 200oC temperature gets heated as it flows through 2.5cm diameter tube with a velocity of 10m/s. A constant heat flux condition is maintained at the wall and wall temperature is 20oC above the air temperature all along the length of the tube. Make calculations for the heat transfer per unit length of the tube. Also determine the increase in bulk temperature over a 3 meter length of the tube.

Q10-Explain Hydrodynamic Boundary Layer with appropriate diagram

GATE/IES QUESTIONS

CO1

Q11-A fin has 5mm diameter and 100 mm length. The thermal conductivity of fin material is 400 Wm-1K-1. One end of the fin is maintained at 130°C and its remaining surface is exposed to ambient air at 30°C. If the convective heat transfer coefficient is 40 Wm²K¹, the heat loss (in W)from the fin is: [GATE-2010]

(a) 0.08 (b) 5.0 (c) 7.0 (d) 7.8

Q12-From a metallic wall at 100°C, a metallic rod protrudes to the ambient air. The temperatures at the tip will be minimum when the rod is made of: [IES-1992]

(a) Aluminium (b) Steel (d) Copper (d) Silver

Q13-On heat transfer surface, fins are provided [IES-2010]

- (a) To increase temperature gradient so as to enhance heat transfer
- (b) To increase turbulence in flow for enhancing heat transfer
- (c) To increase surface are to promote the rate of heat transfer
- (d) To decrease the pressure drop of the fluid

Q14- Which one of the following is correct? [IES-2008] The effectiveness of a fin will be maximum in an environment with (a) Free convection (b) Forced convection

(c) Radiation (d) Convection and radiation

Q15- Fins are made as thin as possible to: [IES-2010]

- (a) Reduce the total weight
- (b) Accommodate more number of fins
- (c) Increase the width for the same profile area
- (d) Improve flow of coolant around the fin

CO2

Q16-Usually fins are provided to increase the rate of heat transfer. But fins also act as Insulation. Which one of the following non-dimensional numbers decides this factor? [IES-2007]

(a) Eckert number (b) Biot number

(c) Fourier number (d) Peclet number

Q17- Extended surfaces are used to increase the rate of heat transfer. When the convective heat transfer coefficient h = mk, the addition of extended surface will: [IES-2010]

(a) Increase the rate of heat transfer

(b) Decrease the rate of heat transfer

(c) Not increase the rate of heat transfer

(d) Increase the rate of heat transfer when the length of the fin is very large

Q18- The properties of mercury at 300 K are: density = 13529 kg/m3, specific heat at constant pressure = 0.1393 kJ/kg-K, dynamic viscosity = $0.1523 \times 10-2 \text{ N.s/m2}$ and thermal conductivity = 8.540 W/mK. The Prandtl number of the mercury at 300 K is: [GATE-2002] 0.0248 (b) 2.48 (c) 24.8 (d) 248

CO3

Q19- If velocity of water inside a smooth tube is doubled, and then turbulent flow heat transfer coefficient between the water and the tube will:

(a) Remain unchanged [GATE-1999]

(b) Increase to double its value

(c) Increase but will not reach double its value

(d) Increase to more than double its value

Q20- Air at 20°C blows over a hot plate of 50×60 cm made of carbon steel maintained at 220°C. The convective heat transfer coefficient is 25 W/m²K. What will be the heat loss from the plate? [IES-2009] 1500W (b) 2500 W (c) 2000 W (c)

1500W (b) 2500 W (c) 3000 W (d) 4000 W

Q21- Which one of the following non-dimensional numbers is used for transition from laminar to turbulent flow in free convection? [IES-2007]

(a) Reynolds number (b) Grashof number

(c) Peclet number (d) Rayleigh number

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Assignment-III

Code: 5ME4-02

CO1 To understand the basic concept of mode of heat transfer.

CO2 To apply non-dimensional numbers to evaluate and validate heat transfer parameters CO3 To analyze the complex problems of heat transfer with proper boundary conditions environment.

CO2

Q1- What is natural convection? Explain its different mechanism with suitable example.

Q2- Explain Biot Number with its significances.

Q3-What is grashof number and how it is useful in natural convective heat transfer?

Q4- What is vaporization? Discuss effects of various parameters on vaporization.

Q5-Discuss the physical significance of the Nusselt number?

Q6-Explain the non -dimensional parameters used in the analysis of forced convection

Q7-Air at 2 bar pressure and 200oC temperature gets heated as it flows through 2.5cm diameter tube with a velocity of 10m/s. A constant heat flux condition is maintained at the wall and wall temperature is 20°C above the air temperature all along the length of the tube. Make calculations for the heat transfer per unit length of the tube. Also determine the increase in bulk temperature over a 3 meter length of the tube.

Q8-Discuss the Boundary conditions

Q9-Engine oil at 60 °C flows over the upper surface of a 5-m-long flat plate whose

Temperature is 20° C with a velocity of 2 m/s shows in following fig. Determine the total drag force and the rate of heat transfer per unit width of the entire plate.

Q-10 Explain slip and no slip conditions

GATE/IES QUESTIONS

Q11-pipe and vertical flat plate for same height and fluid are equal. What is/are the possible reasons for this? [IES-2008]

1. Same height 2. Both vertical 3. Same fluid 4. Same fluid flow pattern

Select the correct answer using the code given below:

(a) 1 only (b) 1 and 2 (c) 3 and 4 (d) 4 only

Q12- Free convection flow depends on all of the following EXCEPT [IES-1992]

(a) Density (b) Coefficient of viscosity (c) Gravitational force (d) Velocity

Q13-The average Nusselt number in laminar natural convection from a vertical wall at 180°C with still air at 20°C is found to be 48. If the wall temperature becomes 30°C, all other parameters remaining same, the average Nusselt number will be: [IES-2002]

Sub: - HT

(a) 8 (b) 16 (c) 24 (d) 32

Q14-Consider the following statements: [IES-1997]If a surface is pock-marked with a number of cavities, then as compared to a smooth surface.

1. Radiation will increase 2. Nucleate boiling will increase3. Conduction will increase 4. Convection will increase

Of these statements:

(a) 1, 2 and 3 are correct (b) 1, 2 and 4 are correct(c) 1, 3 and 4 are correct (d) 2, 3 and 4 are correct Q15- The ratio of energy transferred by convection to that by conduction is called [IES-1992]

(a) Stanton number (b) Nusselt number(c) Biot number (d) Preclet number

Q16- When all the conditions are identical, in the case of flow through pipes with heat transfer, the velocity profiles will be identical for: [IES-1997]

(a) Liquid heating and liquid cooling (b) Gas heating and gas cooling(c) Liquid heating and gas cooling (d) Heating and cooling of any fluid

Q17- When a liquid flows through a tube with sub-cooled or saturated boiling, what is the process known? [IES-2009]

(a) Pool boiling (b) Bulk boiling(c) Convection boiling (d) Forced convection boiling

Q18-Drop wise condensation usually occurs on [IES-1992]

(a) Glazed surface (b) Smooth surface (c) Oily surface (d) Coated surface

Q19-When a liquid flows through a tube with sub-cooled or saturated boiling, what is the process known? [IES-2009]

(a) Pool boiling (b) Bulk boiling(c) Convection boiling (d) Forced convection boiling

Q20-For laminar flow over a flat plate, the local heat transfer coefficient 'hx'varies as x-1/2, where x is the distance from the leading edge (x = 0) of the plate. The ratio of the average coefficient 'ha' between the leading edge and some location 'A' at x = x on the plate to the local heat transfer coefficient 'hx' at A is: [IES-1999]

(a) 1 (b) 2 (c) 4 (d) 8

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Assignment-IV

Sub: - HT

Code: 5ME4-02

CO1 To understand the basic concept of mode of heat transfer.

CO2 To apply non-dimensional numbers to evaluate and validate heat transfer parameters CO3 To analyze the complex problems of heat transfer with proper boundary conditions environment.

CO3

Q1- Derive an derivation of LMTD for a parallel flow heat exchanger.

Q2- Sketch the temperature –length curves for a counter flow and parallel flow heat exchanger for the cases when i) Cc>Ch ii)Cc=Ch iii) Cc< Ch. A counter flow exchanger of surface area 8 m^2 is to be used to heat a process liquid by using a high temperature water available from another part of the plant. If the overall coefficient of heat transfer is 450W/m²K. Find the exit temperatures of the process liquid and water stream from the data given below:

Hot fluid (water)cold fluid (processliquid)Inlet temp(K)365300Mass flow rate kg/s1.03.0Specific heat KJ/KgK4.22.1

Q3-Differentiate between LMTD & NTU method.

Q4-In a counter flow heat exchanger, hot fluid enters at 60°C and cold fluid leaves at 30°C. Mass flow rate of the hot fluid is 1 kg/s and that of the cold fluid is 2 kg/s. Specific heat of the hot fluid is 10 kJ/kgK and that of the cold fluid is 5 kJ/kgK. The Log Mean Temperature Difference (LMTD) for the heat exchanger in °C.

Q5-A designer chooses the values of fluid flow ranges and specific heats in such a manner that the heat capacities of the two fluids are equal. A hot fluid enters the counter flow heat exchanger at 100°C and leaves at 60°C. The cold fluid enters the heat exchanger at 40°C. The mean temperature difference between the two fluids is

Q6-A double pipe parallel flow H.E. use oil (cp = 1.88 kJ/kg.K) at an initial temperature of 205° C to heat water, flowing at 225 kg/hr from 16° C to 44° C. The oil flow rate is 270 kg/hr. a) what is the heat transfer area required for an overall heat transfer coefficient of 340 W/m2.K. b) Determine the number of transfer unit (NTU). c) Calculate the effectiveness of the H.E.

h. HT

Q7-In a counter-flow heat exchanger, the hot fluid is cooled from 110°C to 80°C by a cold fluid which gets heated from 30°C to 60°C.Compute LMTD for the heat exchanger .

Q8-Established the expression for the effectiveness of counter flow heat exchanger by NTU method.

Q9-Hot water at 80°C enters the tube of two shell pass, eight tubes pass H.E at the rate 0.375 kg/s heating helium from 20°C. The overall heat transfer coefficient is 155 W/m2K and the exchanger area is 10 m2. If the water exits at 44°C, determine the exit temperature of the helium and its mass flow rate.

Q10-Classify Heat exchanger with examples.

GATE/IES QUESTIONS

Q11-In a counter flow heat exchanger, for the hot fluid the heat capacity = 2kJ/kg K, mass flow rate = 5 kg/s, inlet temperature = $150^{\circ}C$, outlet temperature = $100^{\circ}C$. For the cold fluid, heat capacity = 4 kJ/kg K, mass flow rate = 10 kg/s, inlet temperature = $20^{\circ}C$. Neglecting heat transfer to the surroundings, the outlet temperature of the cold fluid in °C is: [GATE-2003]

(a) 7.5 (b) 32.5 (c) 45.5 (d) 70.0

Q12- In a condenser, water enters at 30°C and flows at the rate 1500 kg/hr.The condensing steam is at a temperature of 120°C and cooling water leaves the condenser at 80°C. Specific heat of water is 4.187 kJ/kg K. If the overall heat transfer coefficient is 2000 W/m2K, then heat transfer

area is: [GATE-2004]

(a) 0.707 m2 (b) 7.07 m2 (c) 70.7 m2 (d) 141.4 m2

Q13- The logarithmic mean temperature difference (LMTD) of a counter flow heat exchanger is 20°C. The cold fluid enters at 20°C and the hot fluid enters at 100°C. Mass fl0w rate of the cold fluid is twice that of the hot fluid. Specific heat at constant pressure of the hot fluid is twice that of the cold fluid. The exit temperature of the cold fluid [GATE-2008]

(a) 40°C (b) is 60°C (c) is 80°C (d) Cannot be determined

Q14- In a counter flow heat exchanger, hot fluid enters at 60°C and cold fluid leaves at 30°C. Mass flow rate of the hot fluid is 1 kg/s and that of the cold fluid is 2 kg/s. Specific heat of the hot fluid is 10 kJ/kgK and that of the cold fluid is 5 kJ/kgK. The Log Mean Temperature Difference (LMTD) for the heat exchanger in °C is: [GATE-2007]

(a) 15 (b) 30 (c) 35 (d) 45

Q15- Hot oil is cooled from 80 to 50°C in an oil cooler which uses air as the coolant. The air temperature rises from 30 to 40°C. The designer uses a LMTD value of 26°C. The type of heat exchanger is: [GATE-2005]

(a) Parallel flow (b) Double pipe (c) Counter flow (d) Cross flow

Q16- For the same inlet and outlet temperatures of hot and cold fluids, the Log Mean Temperature Difference (LMTD) is: [GATE-2002]

(a) Greater for parallel flow heat exchanger than for counter flow heat exchanger.

(b) Greater for counter flow heat exchanger than for parallel flow heat exchanger.

(c) Same for both parallel and counter flow heat exchangers.

(d) Dependent on the properties of the fluids.

Q17- Air enters a counter flow heat exchanger at 70°C and leaves at 40°C. Water enters at 30°C and leaves at 50°C. The LMTD in degree C is: [GATE-2000] (a)5.65 (b) 4.43 (c) 19.52 (d) 20.17

Q18- Air can be best heated by steam in a heat exchanger of [IES-2006]

(a) Plate type

(b) Double pipe type with fins on steam side

(c)Double pipe type with fins on air side

(d) Shell and tube type

Q19- For a balanced counter-flow heat exchanger, the temperature profiles of the two fluids are: [IES-2010]

(a) Parallel and non-linear (b) Parallel and linear

(c) Linear but non-parallel (d) Divergent from one another

Q20- In a heat exchanger, the hot liquid enters with a temperature of 180°C and leaves at 160°C. The cooling fluid enters at 30°C and leaves at 110°C. The capacity ratio of the heat exchanger is: [IES-2010]

(a) 0.25 (b) 0.40 (c) 0.50 (d) 0.55

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Assignment-V

Sub: - HT

Code: 5ME1A

CO1 To understand the basic concept of mode of heat transfer. CO4To discuss the radiation phenomenon and impact on global environment

CO4

Q1- Explain plank distribution law

Q2- The sun emits maximum radiation at wavelength is $0.52 \mu m$. Assuming the sun emits to be a black body, calculate the surface temperature of the sun's surface at that temperature .Also determine the maximum monochromatic emissive power of the sun's surface.

Q3-A furnace is shaped like a long semi cylindrical duct of diameter D = 5 m. The base and the dome of the furnace have emissivities of 0.5 and 0.9 and are maintained at uniform temperatures of 350 and 1000 K, respectively. Determine the net rate of radiation heat transfer from the dome to the base surface per unit length during steady operation. [Note: Instead of 15 ft the value of D is 5m]



Q4-A gray body (ϵ =0.8) emits the same amount of heat as a black body at 1075 K. Find out the required temperature of the gray body.

If a black body at 1000 K and a gray body at 1250 K emit the same amount of radiation, what should be the emissivity of the gray body?

Q5-What is shape factor? Discuss the roll of it for thermal resistance, thermal conductivity and heat transfer

Q6- explain wave theory and max-well theory

Q7-Illustrate Stefan –Boltzmann law.

Q8-Eplain absorptivity, reflectivity, transmitivity.

Q9- Explain black body ,gray body, white body with example.

Q10- Consider a thin hollow cylinder of 8cm diameter and 10cm length. If the radiant shape factor of the circular surface of this cylinder is 0.172, make calculations for the shape factor of the curved surface of the cylinder with respect to itself.



GATE/IES QUESTIONS

CO4

- Q11-In radiative heat transfer, a gray surface is one [GATE-1997]
- (a) Which appears gray to the eye
- (b) Whose emissivity is independent of wavelength?
- (c) Which has reflectivity equal to zero.
- (d) Which appears equally bright from all directions
- Q12- The irradiation (in kW/m2) for the upper plate (plate 1) is: [GATE-2009] (a) 2.5 (b) 3.6 (c) 17.0 (d) 19.5

Q13-If plate 1 is also a diffuse and gray surface with an emissivity value of 0.8, the net radiation heat exchange (in kW/m2) between plate 1 and plate 2 is: [GATE-2009] (a) 17.0 (b) 19.5 (c) 23.0 (d) 31.7

Q14-The shape factors with themselves of two infinity long black body concentric cylinders with a diameter ratio of 3 are..... for the inner and..... for the outer. [GATE-1994]

(a) 0, 2/3 (b) 0, 1/3 (c) 1, 1/9 (d) 1, 1/3

Q15-What is the value of the view factor for two inclined flat plates having common edge of equal width, and with an angle of 20 degrees?[GATE-2002]

(a) 0.83 (b) 1.17 (c) 0.66 (d) 1.34

Q16-A solid cylinder (surface 2) is located at the centre of a hollow sphere (surface 1). The diameter of the sphere is 1 m, while the cylinder has a diameter and length of 0.5 m each. The radiation configuration factor F11 is: [GATE-2005]

(a) 0.375 (b) 0.625 (c) 0.75 (d) 1

Q17-Fraction of radiative energy leaving one surface that strikes the other surface is called [IES-2003]

(a) Radiative flux (b) Emissive power of the first surface

(c) View factor (d) Re-radiation flux

Q18- Which one of the following modes of heat transfer would take place predominantly, from boiler furnace to water wall? [IES-1993]

- (a) Convection (b) Conduction
- (c) Radiation (d) Conduction and convection

Q19- If the temperature of a solid state changes from 27°C to 627°C, then emissive power changes which rate [IES-1999; 2006]

(a) 6 : 1 (b) 9 : 1 (c) 27 : 1 (d) 81: 1

Q20-What is the basic equation of thermal radiation from which all other equations of radiation can be derived? [IES-2007]

(a) Stefan-Boltzmann equation (b) Planck's equation

(c) Wien's equation (d) Rayleigh-Jeans formula



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		(Affiliated to Rajasthan	Technical Univ	versity, Kota)		
		AWAR	D LIST (2019	-20)		[MTT-I]
	Class: II B. T	ech. IV Semester		Branch:	Mechanical Er	ngineering
Sub	oject & Code: 1	Theory of Machines [4ME4-07]			Faculty: Abh	ishek Kumar
S. No.	RTU Roll	Name of student	Marks CO1	Marks CO2	Target Achieved	Target Achieved CO2
	INO.		(MM 21)	(MM 19)	CO1 (Y/N)	(Y/N)
1		AAKASH GARG	12	13	N	Y
2		AARYANSH PANDEY	14	11	Y	N
3		AASIM ALI	16	9	Y	N
4		ABHISHEK HADA	10	15	N	Y
5		ABHISHEK JADON	13	12	Y	Y
6		ABHISHEK KUMAR	21	10	Y	N
7		ABHISHEK SHARMA	12	13	N	Y
8		ABHISHEK SHARMA	16	19	Y	Y
9		AJAY MEERWAL	20	8	Y	N
10		AKASH SINGHAL	13	12	Y	Y
11		AKSHAT CHATURVEDI	12	13	Ν	Y
12		AKSHAT JAIN	10	15	Ν	Y
13		AKSHAT MANGAL	10	10	Ν	N
14		AMAN KHAN	11	14	Ν	Y
15		AMBAR SHUKLA	20	8	Y	N
16		AMIT MAHUR	20	10	Y	N
17		ANIKET MAHESHWARI	12	13	N	Y
18		ANKUR SHARMA	13	12	Y	Y
19		ANURAG BARMAN	20	5	Y	N
20		ARUN BAJ SINGH NARUKA	AB	AB	Y	Y
21		ARVIND SINGH GORA	10	6	N	N
22		ARYAMAN KHADOLIYA	9	16	Ν	Y
23		ARYAN BAHETI	15	10	Y	N
24		ASHUTOSH BARWAL	14	11	Y	N
25		ASHUTOSH SINGH JAT	12	13	N	Y
26		ASHUTOSHYADAV	20	8	Y	N
27		ASIF ALI	10	8	N	N
28		BADAL SINGH SHEKHAWAT	19	9	Y	N

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Theory of Machines (GATE/IES)

Match List I with List II and select the correct answer

[IES-2002]

LISU	(kiner	natic pa	irs)		LISUI	(Pract	ical exa	mpie)		
A. Sli	iding pa	air		1. A	road roll	er rollir	ng over	the gro	und	
B. Re	evolute	pair		2. CI	rank sha	ft in a j	ournal b	bearing	in an eng	ine
C. R	olling p	air		3. Ba	all and s	ocket jo	pint	-	-	
D. Sp	herica	l pair		4. Pi	ston and	l cylind	er			
				5. N	ut and so	crew				
	Α	В	С	D		Α	В	С	D	
(a)	5	2	4	3	(b)	4	3	1	2	
(C)	5	3	4	2	(d)	4	2	1	3	

1. Ans. (d)

2. A round bar <u>A</u> passes through the cylindrical hole in B as shown in the given figure. Which one of the following statements is correct in this regard?

 (a) The two links shown form a kinematic pair.

- (b) The pair is completely constrained.
- (c) The pair has incomplete constraint.
- (d) The pair is successfully constrained.

2. Ans. (b)

3. Consider the following statements

- 1. A round bar in a round hole form a turning pair.
- 2. A square bar in a square hole forms a sliding pair.

3. A vertical shaft in a footstep bearing forms a successful constraint.

Of these statements

- (a) 1 and 2 are correct
- (c) 1 and 3 are correct (d) 1, 2 and 3 are correct
- (b) 2 and 3 are correct

3. Ans. (b)

• •

 Match List-I with List-II and select the correct answer using the codes given below the Lists:

List-I

- A. 4 links, 4 turning pairs
- B. 3 links, 3 turning pairs
- C. 5 links, 5 turning pairs
- D. Footstep bearing
- List-II
- Complete constraint
 Successful constraint
 - 3. Rigid frame
 - 4. Incomplete constraint



[IAS 1994; IES-2000]

[IES-1999]

Code: (a)	A 3	B 1	C 4	D 2	(b)	A 1	B 3	C 2	D 4		
(c) 4. Ans	3 . (d) 4	links an	∠ d4tur	4 ning pa	(u) irs satis	sfy the	o equatio	4 n L = ²	2 _(j + 2)	; It is ca	ise of
Comple in succ	ete con: æssful (straint. 3 constrai	links a nt and 5	nd 3 tur 5 links a	ning pa nd 5 tur	irs form ning pa	i rigid fr iirs prov	ame. Fo	2 oot step omplete	bearing constrai	results nt.
5. The corresp (a) com (b) inco (c) succ 5. Ans.	connec conding pletely cessfull (C)	tion betv to constra ly constr ly constr	ween th ined kin rained k rained ki	e piston ematic inematic inematic	pair c pair c pair	and	cylind (d) sin	er in a gle link	Recip	rocating	engine 94]
6. Mato	ch the it	ems in c	olumns	I and II	l					[GATE	-2006]
P. High Q. Low R. Quid S. Mob (a) P-2 (c) P-6 6. Ans.	Colum her kine kretur bility of a , Q-6, F , Q-2, F (d)	n I matic pa matic pa n mecha a linkage R-4, S-3 R-5, S-3	air air anism ?	(b) P-6 (d) P-2	Columr 1. Grut 2. Line 3. Eule 4. Plan 5. Shar 6. Surf , Q-2, R , Q-6, R	h II contact r's equa er ber ace con -4, S-1 -5, S-1	iuation ition tact				
7. The both hi	minimu gher an	im numb id lower	er of lin kinemat	nks in a tic pairs	single o s is	legree-	of-freed	tom plar	nar mech	nanism w [GATE-	/ith 2002]
(a) 2 7. Ans.	(C)		(u) 3			(C) 4			(u) 5		
8. Con 1. 2. 3. Which (a) 1, 2 8. Ans.	sider th The de A ball-a Oldhar of the s and 3 (a)	e follow egree of and-soci n's coup tatemen	ing state freedor ket joint bling me ts giver (b) 1 or	ements: m for lov has 3 c chanisn n above nly	wer kine legrees n has tv is/are c	ematic p of free vo prisn correct? (c) 2 ar	airs is a dom an natic pa nd 3	lways e d is a hi irs and t	qual to gher kin two revo (d) 3 or	[IES-20 one. ematic p olute pair	0 05] Dair S.
9. White 1. Cam 3. Slide Select Codes	ch of the and ro er-crank the corr	e followi oller mec c mechai rect ansv	ng are e hanism nism wer usir	example	s of for 2. Dooi 4. Auto odes giv	ced clos closing motive ven bel	sed king g mecha clutch c ow:	ematic p anism operating	oairs? g mecha	[IES-20 Inism	03]
(a) 1, 2 9. Ans.	and 4 (a)		(b) 1 ar	nd 3		(C) 2, 3	and 4		(d) 1, 2	, 3 and 4	ļ

Questions Bank

4ME4-07: THEORY OF MACHINES

CO1

Q1. In a pin jointed four bar mechanism ABCD. AB=300 mm, BC=CD=360 mm, and AD=600 mm. The angle BAD= 60° . The crank AB rotates uniformly at 100 rpm. Locate all the instantaneous centers and find the angular velocity of BC.

Q2. In a four bar chain ABCD, AD is fixed and is 150 mm long. The crank AB is 40 mm long and rotates at 120 rpm clockwise, while the link CD=80 mm oscillates about D. BC and AD are of equal length. Find the angular velocity of the link CD when angle $BAD=60^{\circ}$.

Q3. The crank of a slider crank mechanism rotates clockwise at a constant speed of 300 rpm. The crank is 150 mm and the connecting rod is 600 mm long. Determine: 1. Linear velocity and acceleration of the midpoint of the connecting rod, and 2. Angular velocity and angular acceleration of the connecting rod, at a crank angle of 45^{0} from the inner dead centre position.

Q4. Explain coriolis component.

Q5.Drive a relation for minimum frictional torque for flat pivotal bearing in case of

- a) Uniform pressure
- b) Uniform wear?

Q6. Explain friction and also give classification of friction.

Q7. Find out minimum effort required to move a body up on a rough inclined plane.

Q8. An effort of 1500 N is required to just move a certain body up an inclined plane of angle 12^{0} , force acting parallel to the plane. If the angle of inclination is increased to 15^{0} , then the effort required is 1720 N. find the weight of the body and the coefficient of friction.

Q9. Draw a labeled diagram of screw jack and also find out an expression for torque required to lift the load by a screw jack.

Q10.Drive a relation for minimum frictional torque for conical clutch in case of

- a) Uniform pressure
- b) Uniform wear?

Q11. What do you understand by a clutch and explain various types of clutches.

Q12. Determine the maximum, minimum and average pressure in plate clutch when the axial force is 4 KN. The inside radius of the contact surface is 50 mm and the outside radius is 100 mm. assume uniform wear.

Q13. An engine developing 45 KW at 100 rpm is fitted with a cone clutch built inside the flywheel. The cone has a face angle of 12.5° and a maximum mean diameter of 500 mm. the coefficient of friction is 0.2. the normal pressure on the clutch face is not to exceed 0.1 N/mm².

Determine: 1. The axial spring force necessary to engage the clutch,

2. The face width required.

Q14. What do you understand by centrifugal clutch, explain with diagram and find out an expression for torque transmitted by centrifugal clutch.

CO2

Q1. Derive a relation for braking torque for a differential band brake.

Q2. Derive a relation for braking torque required for a single shoe brake in all the three cases.

Q3. A band brake acts on the $3/4^{\text{th}}$ of circumference of a drum of 450 mm diameter which is keyed to the shaft. The band brake provides a braking torque of 225 N-m. one end of the band is attached to a fulcrum pin of the lever and the other end to a pin 100 mm from the fulcrum. If the operating force is applied at 500 mm from the fulcrum and the coefficient of friction is 0.25, find the operating force when the drum rotates in 1) anticlockwise direction 2) clockwise direction.

Q4. A car moving on level road at a speed of 50 km/hr has a wheel base of 2.8 meters, distance of C.G from ground level 600 mm, and the distance of C.G from rear wheel 1.2 meters. Find the distance travelled by the car before coming to rest when brakes are applied,

- 1) To the rear wheels
- 2) To the front wheels
- 3) To all the four wheels
- 4) The coefficient of friction is 0.6.

Q5. Explain dynamometer, how it is different from the brake and give classifications of the dynamometer.

CO3

Q1. Classify all types of gears with diagram?

Q2. Explain the terminology of gears with diagram?

Q3. Prove law of gearing?

Q4. Derive a relation for length of path of contact?

Q5. Derive a relation for velocity of sliding?

Q6. Explain tooth profile of gears?

Q7. Derive relation for minimum no of teeth's on wheel and pinion to avoid interference?

Q8. A pinion having 30 teeth's drives a gear having 80 teeth. The profile of the gear is involutes with 20 pressure angle, 12 mm module and 10 mm addendum. Find the length of the path of the contact, arc of the contact and contact ratio.

Q9. A pair of involutes spur gear with 16 pressure angle and pitch of the module is 6mm is in mesh. The no of teeth on pinion is 16 and its rotational speed is 240 rpm. When the gear ratio is 1.75, find in order that the interference is just avoided; 1.the addenda on pinion and gear wheel; 2. The length of path of contact; 3. The max velocity of sliding of teeth on either side of the pitch point.

Q10. Explain gyroscopic couple in brief?

Q11.Explain with diagram

- (a)plane of spinning
- (b) Plane of precision
- (c) Axis of active gyroscopic couple
- (d) Plane of active gyroscopic couple

Q12. Explain the effect of gyroscopic couple on an aero plane

Q13. Explain the effect of gyroscopic couple on a naval ship during steering?

Q14. The mass of the turbine rotor of the ship is 20 tones and has a radii of gyration of .60 m. its speed is 2000 r.p.m. the ship pitches 6 above and 6 below the horizontal position . a complete oscillation takes 30 sec and the motion is simple harmonic .determine the following:

1. Max gyroscopic couple

2. Max angular acceleration of the ship during pitching 3. the direction in bow will tend to turn when rising , if the rotation of the rotor is clockwise when looking from the left .

Q15. Explain the effect of gyroscopic couple on a naval ship during pitching ?

Q16. Derive a relation for effect of gyroscopic couple and centrifugal couple on a four wheeler ?

Q17. A four wheel trolley car of mass 2500 Kg runs on rails , which are 1.5 m apart and travel around a curve of 30 m radius at 24 Km/h . the rails are at the same level. Each wheel of the trolley 0.75 m in diameter and each of the two axles is driven by a motor running in the direction opposite to that of wheels at a speed of five times the speed of rotation of the wheels. The moment of inertia of each wheel with gear and wheels is 18 Kg-m2. Each motor with shaft and gear pinion has moment of inertia of 12Kg-m2. The centre of gravity of the car is 0.9 m above the rail level. Determine the vertical force exerted by each wheels on the rails taking into consideration the centrifugal and gyroscopic effects. State the centrifugal and gyroscopic effects on the trolley.

Q18. Explain the effect of gyroscopic couple on two wheeler taking a turn?

Q19. Find the angle of inclination with respect to the vertical of the two wheeler negotiating the turn. given : combined mass of the vehicle with its rider 250 Kg-m2 ; moment of inertia of the engine flywheel 0.3 Kg-m2 ; moment of inertias of each road wheels 1 Kg-m2 ; speed of engine

flywheel 5 times that of road wheels and in the same direction ; height of the centre of gravity of the rider with vehicle 0.6 m; two wheeler speed 90 Km/h; wheel radius 300 mm; radius of the turn 50m.

CO4

Q1. Draw a cam and follower arrangement. classify followers with their applications.

Q2. Draw displacement, velocity and acceleration diagram for a motion with uniform velocity.

Q3. A cam is to give the following motion to a knife edge follower:

1. Outstroke during 120° of the cam rotation; 2. Dwell for the next 30° of cam rotation; 3.Return stroke during next 60° of cam rotation, and 4.Dwell for the remaining 150° of the cam rotation. The stroke of the follower is 50 mm and the minimum radius of the cam is 50 mm. The follower moves with uniform acceleration and uniform retardation during both the outstroke and return strokes. Draw the profile of the cam when the axis of the follower passes through the axis of the cam shaft.

Q4. Draw displacement, velocity and acceleration diagram for a motion with uniform acceleration and uniform retardation.

Q5.A cam is to give the following motion to a knife edge follower:

1. Outstroke during 60° of the cam rotation; 2. Dwell for the next 30° cam rotation;

3.Return stroke during next 60° of cam rotation, and 4.Dwell for the remaining 210° of the cam rotation.

The stroke of the follower is 40 mm and the minimum radius of the cam is 50 mm. The follower oves with uniform velocity during both the outstroke and return strokes. Draw the profile of the cam when the axis of the follower passes through the axis of the cam shaft.

Q6. Draw displacement, velocity and acceleration diagram for a motion with cycloidal motion.

Q7. A cam is to give the following motion to a knife edge follower:

1. Outstroke during 90° of the cam rotation; 2. Dwell for the next 30° of cam rotation; 3.Return stroke during next 60° of cam rotation, and 4.Dwell for the remaining 180° of the cam rotation. The stroke of the follower is 40 mm and the minimum radius of the cam is 50 mm. The follower moves with simple harmonic motion during both the outstroke and return strokes. Draw the profile of the cam when the axis of the follower passes through the axis of the cam shaft.

Q8. Draw displacement, velocity and acceleration diagram for a motion with simple harmonic motion.

Q9.Explain balancing with its advantages and disadvantages?

Q10. Classify types of balancing explain them with neat diagram?

Q11. Four masses m1, m2, m3 and m4 are 200Kg, 300Kg, 240Kg and 260Kg respectively. The corresponding radii of rotation are .2m, .15m, .25m and .3m respectively and the angles between

successive masses are 45,75, and 135. Find the position and magnitude of their balance masses required, if its radius of rotation is .2m.

Q12. A shaft carries four masses A, B, C and D of magnitude 200 Kg , 300 Kg , 400 Kg and 200Kg respectively and revolving at radii 80 mm,70 mm, 60 mm and 80 mm in planes measured from A at 300 mm, 400mm and 700mm. the angles between the cranks measured anticlockwise are A to B 45, B to C 70, and C to D 120. The balancing masses are to be placed in planes X and Y. the distance between the planes A and X is 100 mm, between X and Y is 400 mm and between Y and D is 200 mm. if the balancing masses revolve at a radius of 100 mm, find their magnitude and angular positions.

Q13. A, B, C, and D are four masses carried by a rotating shaft at radii 100, 125,200 and 150mm respectively. The planes in which the masses revolve are spaced 600 mm apart and the masses of B, C and D are 10Kg, 5Kg, 5Kg and 4Kg respectively. Find the required mass of A and the relative angular setting of the four masses so that the shaft can be in complete balance.

Q14. Explain balancing of reciprocating masses?

Q15. Drive a relation for primary unbalanced force of reciprocating masses

Q16.Derive a relation for secondary unbalanced force of reciprocating masses?

Q17. Explain "swaying couple" and "hammer blow"?

Q18.The three crank of three cylinder locomotive are all on the same axle and are set at 120. The pitch of the cylinder is 1 meter and the stroke of the each piston is .6m. The reciprocating masses are 300 Kg for inside cylinder and 260 Kg for each outside cylinder and the planes of the rotation of the balance masses are .8 from the inside crank.

If 40% of the reciprocating parts are to be balanced, find:

1. The magnitude and the position of the balancing masses required at a radius of .6 m;

2. The hammer blow per wheel when the axle makes 6 r.p.s

EXAN	IINATION	ANSWER I	300I	<u> </u>	. depy-d
(To be filled in by t	he candidates)	The second	Fort	he use of Ex	aminer
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Signature of Candidate Ankus	at and	end 2	8.	16+18	734-)
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Criterio	n-2 Program Cur	riculum and Teachi	ing- Learning Process
		OBSERVATION	COMPLIANCE STATUS (ACTION TAKEN
S. NO	CRITERIA	MADE BY NBA	BY INSTITUTION)
2.2.3	2.2.3. Quality	Rubrics is	To ensure the quality and monitoring of projects,
	of student	established but	department analyse continuous evaluation and
	projects	not followed for	progress through Project assessment Committee.
		evaluation and	The committee comprises of senior faculty
		monitoring of	members in the department. Based on the rubrics
		projects and	student projects are evaluated and continuous
		projects quality	monitoring is done by the concerned faculty
		is not good.	mentor of the project.
			• Progress report presentation followed by viva-
			voce has been carried out twice in a semester in
			front of Project assessment committee for
			review of the progress and suggestions
			thereafter.
			• A presentation followed by viva voce is also
			carried out at the end of semester also in front
			of the external examiner and other students.
			• Some students apply their project ideas for
			patent.
			• All the students are motivated to write a
			research paper on their project and present the
			same during the national conference of the
			department organized every year. A due credit
			is also given to the student for the same.
			External experts from industry and eminent
			for expert comments
			All the generation the form of conference
			• All the papers in the form of conference
			and also unloaded on wahaita as link given
			below
			• All the project titles are mapped with all the
			• An me project miles are mapped with an me Program outcomes (POs) and Program specific
			outcomes (PSOs) for evaluation of POs and
			PSOs attainment as per rubric
			https://www.jecrcfoundation.com/mechanical-
			engineering/projects
			https://jecrcfoundation.com/jf-
			data/NBA/ME/Project/Project-2018-19.pdf
			https://jecrcfoundation.com/jf-
			data/NBA/ME/Project/Project-2019-20.pdf

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER , JAIPUR							
			DEPARTMENT OF	MECHANICAL ENGINEER	RING		
			B. Tech	VIII Sem Section A			
			Projec	t Session 2018-19		1	
S. No	I	Π	Ш	IV	Title of project	Project Guide	
I-A	Mohsin Khan	Rawat Sandeep	Manish Rajoriya	Tushar Gupta	Designing of an All Terrain Vehicle	Mr. Kuldeep Sharma	
II-A	Hemant singh Chauhan	Arjun singh deora	Abhijeet	Abhishek Saini	R C PLANE	Mr. Tejendra Singh	
III-A	Mayank sharma	Jay kant joshi	Kashish jain	Aman sharma	Solar Powered Hacksaw	Dr. M.P. Singh	
IV-A	Harshil Pandit	Bhanu prakash gupta	Mihir panchal	Abhishek singh	Go Kart Design	Dr. Rishi Pareek	
V-A	Ashish Prajapat	Akash saini	Arpit Khandelwal	Kaptan singh	Pneumatic Bumper with Air Bag	Mr. Bhuvnesh Bharadwaj	
VI-A	Gaurav Kumar Gupta	Harish Sharma	Jitendra Mohan Sharma	Hemant Singh Sisodiya	Rocker Boggie	Mr. Lalit Kumar Sharma	
VII-A	Mohit Agrawal	Alankar singh	Anang Patidar	Madhusudan Saini	Electric Car	Mr. Kuldeep Sharma	
VIII-A	Chandra prakash fulwani	Bhuvnesh Kumar Yadav	Hemant Mahala	Akashay kumar	GO-KART Transmission	Dr. Rishi Pareek	
IX-A	Devesh lala	Anirudh singh chouhan	Devendra pratap yadav	Ashutosh Dadhich	GO-KART Fabrication	Dr. Rishi Pareek	
X-A	Abhishek Kumar	Parul Yadav	Amit Goyal	Giriraj Yadav	Fabrication of ATV	Mr. Kuldeep Sharma	
XI-A	Aditya jain	Pranjal srivastav			Transmission of an ATV	Mr. Kuldeep Sharma	

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			JAIPUR	ENGINEERING COLLEGE	AND RESEARCH CENTRE , JAIPUR	
				DEPARTMENT OF MEC	HANICAL ENGINEERING	
				B. Tech VIII S	Sem Section C	
				Project Ses	sion 2018-19	
S. No	I	Π	Ш	IV	Title of project	Project Guide
I-C	VIKAS JAIN	VIKAS KHANDELWAL	Jaideep mahendra	AJAY JADAM	GO KART Calculation	Mr Aashish Nagpal
II-C	PURU PRADHUMN SEN	DHRUV RAJ PUROHIT	DIVYANK RATHI	NEERAJ YADAV	Gearless tramsmission using elbow mechanism	Dr. Bhuvnesh Bharadwaj
III-C	MANISH SAIN	KAUSHAL PRASAD LODHI	ALOK PATEL	MANISH KUMAR	ATV Suspension System	Mr. Kuldeep sharma
IV-C	Yogesh Pandey	Aditya Agrawal	Aayush Kr Agrawal	Nikhil Dhakad	Physical And Mechanical Behaviour of Banana And Carbon fibre Hybrid	Mr. Tejendra singh
V-C	Pratyush Bhardwaj	Prince Kumar Sharma	Neeraj Parashar	Saurabh Singh Rajput	Spider Leg Mechanism	Mr. Tejendra singh
VI-C	Manish Jain	Aditya Kumar Jha	Sudhanshu Ranian	Nitin Khanna	Multipurpose Wheel Chair Convertible to Bed	Dr. Bhuvnesh Bharadwaj
VII-C	Krishan Kant Gupta	Jitendra Nath	Lavish Nankani	Zishan Ahmad	Quadcoter	Mr Tej Bahadur
VIII-C	Suraj Prajapati	Vikram Dangi	Neeraj Meena	Sunil Kumar Hawas	Tradel Driven Drill Press	Mr. Akhilesh Paliwal
IX-C	Piyush Pursnani	Pawan Kumar Suthar	Aditya Upadhyay	Anuj Tiwari	Advance Digital Cutting & Notching Machine	Mr. Akhilesh Paliwal
XI-C	Abhishek Parashar	Arpit Kumar Jain	Jatin Kaushik	Navin Kumar	Effect of Waste Vegetable Oil on Machining Of Hastelly C22	Mr. Nikhil Jain
XII-C	HARSH MANTRI	NAMAN VIJAYVARGIYA	DEEPAK JUDANI	SHUBHAM PRAJAPATI	Go KART DESIGN	Mr. Aashish Nagpal
XIII-C	DEEPAK CHOUDHARY	SHUBHAM WADHWA	ADITYA AGARWAL	GOVIND SAINI	GO KART Manufacturing	Mr. Aashish Nagpal

				DEPARTMENT OF	MECHANICAL ENGINEERING	
				B. Tech '	VIII Sem Section B	
				Project	Session 2018-19	
S. No	Ι	I	Ш	N	Title of project	Project Guide
I-B	Pankaj Maharishi	Tarun Chechi	Parikshit Pareek	Yadunandan Gautam	Blood Donation App Designing	Dr. Manish Srivastava
II-B	Sourabh Gupta	Shubham Sinha	Avins Naveen Anand	Md. Shahbaz Akhter	Fabrication of Control Line Aeromodel	Mr. Satyendra Kumar
III-B	Mohit Sharma	Nikhil Gupta	Piyush Gupta	Rahul Shama	Automatic Motor Bike Stand Slider	Mr. Aashish Nagpal
IV-B	Kuldeep Soni	Umang Kapoor	Raghunandan Shama	Vibhav Khandelwal	Fabrication of Hybrid Cycle	DR. Bhuvnesh Bhardwaj
V-B	Mohit Nagpal	Himanshu Bansal	Pankaj Dayma	Ram Sukhwal	Designing & Manufacturing of GO Green Self Cool Bottle	DR. Bhuvnesh Bhardwaj
VI-B	Rajat Shrivastav	Yash Sharma	Ashutosh Derashri	Himank Dave	Heat Recovery System in Vapour Compression Refrigeration System	Dr. M.P.Singh
VII-B	Yagyesh Sharma	Mohit Chandani (A)	Niyoshuddin Sheikh		Night Vision Through Solar Plate	Dr. Bhuvnesh Bharadwaj
		1	1			

Jaipur Engineering College and Research Centre, Jaipur Department of Mechanical Engineering

Date: - 07/09/2019

Notice

It is informed to all B.Tech VII semester students that they have to present their Minor / Major project Title in form of PPT as per below given format and schedule. It will be decided at the time of presentation whether the title chosen is feasible to continue as project or not. Presence of respective project supervisor is mandatory at the time of presentation.

Presentation schedule

Section	Date	Venue
А	16-09-2019	BT-07
в	17-09-2019	BT-07
с	18-09-2019	BT-07

Presentation content:

Title Novelty Project outcome Approximate budget Time schedule

Note : No group is allowed without project registration form duly signed by respective project supervisor

Mr. Akhilesh Paliwal (Project Coordinator)

Dr. Bhuvnesh Bharadwaj (Project Coordinator)

Rishi Pareek

(Project Coordinator)

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4. * #	Rott No.	Tram Members	Title of project	Project Guide	Use fullness of the project (3)	Safety (2)	Ethics & Communicatio (2)	n Project Management (3)	Total (10)	Relevance with PO'5	Remarks
A-1	47-A 9-A	KOMAL KUMAR AM'T KUMAR TINKAR	DUAL SIDE WATER PUMPING SYSTEM BY USING SCOTCH YOKE MECHANISM	Mr. Abhishek Kumur	2	1	2	2	7	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-2	51-A 13-A 36-A 13-A	MOHO ASIF KHAN ANSHUMAN PACHOLI MANISH KHATRI ARCHIT MISHRA	PROTOTYPE OF ABRASIVE JET MACHINE FOR METAL CUTTING PURPOSE	Mr. Srikant Bansal	2	1	2	2	7	PO1, PO2, PO3, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-3	16-A 17-A 6-A 25-A 12-A	ARPIT CHOUDHARY ARPIT KASLIWAL AJAY SHARMA CHIRAG TALWAR ANKUR MITTAL DURDSDRY JADA	KINETIC ENERGY RECOVERY SYSTEM	Mr. Abhishek Kumar	2	1	1	2	6	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO11, PO12	ACCEPT
44	11-A 18-A 19-A 20-A	ADRIESTICK //AMP ANKIT KUMAWAT ASHOK KUMAR SAINI ASHUTOSH MEWARA AUGUSTIN JOY MARKER AUGUSTIN JOY MARKER	MULTI DIRECTIONAL WIND MILL (HYBRID)	Mr. Tej Bahadur	2	1	2	1	6	PO1, PO2, PO3, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-5	23-A 8-A 10-A 42-A	AHARAT KHANDELWAL AKASH AGRAWAL ANIL KUMAR SAINI JASWANT SINGH GEHLOT	SANITARY WARE DESIGNING WITH FFF TECHNOLOGY	Mrs. Priti Bodkhe	1	2	1	2	6	PO1, PO2, PO3, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-6	40-A 24-A	HIMANSHU SHARMA CHIRAG MAHESHWARI	IMPLEMENTATION OF AUTOMATION AND ALLN WORKSHOP	Mr Kuldeep Sharms	2	1	2	1	6	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-7	39-A 41-A 45-A 37-A 1-A	HIMANSHU MAHIPAL HIMANSHU SINGHAL KEVAL NAGAR HIMANSHU JAIN ABHISHEK GUPTA	DESIGN AND FABRICATION OF PAPER SIBLEDOER	Dr. Fauria Säklique	2	1	2	2	7	PO1, PO2, PO3, PO6, PO6, PO9, PO11, PO12	ACCEPT
A-8	3-A 57-A 5-A 32-A	ABHISHEK RAJPUT MANISH SHARMA ADITYA SANADHYA DINESH SUTHAR	DRYLIN OR LINEAR BALL BEARING TESTING AND FIND THE LEAST TORRENCE	Mr. Akhilesh Paliwal	1	2	1	2	6	P01, P02, P03, P05, P06, P08, P09, P011, P012	ACCEPT
A-9	51-A 55-A 53-A 52-A 58-A	LALIT PAREEK MANISH GANGWAR LOKESH KUMAR DUBEY LOKESH DHYAWANA MEENA MAYUR SEN	SCLATR VEGITABLE DRYER	Mrs. Priti Bodkhe	2	2	1	2	7	POI, PO2, PO3, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-10	77-A 60-A 64-A 49-A	RAHUL KHANOELWAL 1 MOHAMMED SAQUIB KHAN NEEL RAJ KAUSHIK LAKSHY ZAVERI	DESIGN, FABRICATION AND TESTING OF HIGH EFFICIENCY DOMESTIC GAS BURNER	Dr. Rishi Pareek	2	1	2	2	7	PO1, PO2, PO3, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-11	81-B 67-A 68-A 70-A 76-B	RISHABH DUTT SHARMA PANKAJ JANGID PANKAJ KUMAR CHAHAR POONAM KUMARI RAJAT GUPTA	INBULT HYDRAULIC VEHICLE LIFTING JACK	Mr. Kuldeep Sharma	2	1	1	2	6	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO11, PO12	ACCEPT
A-12	54-A 1 82-B 5 26-A 0 71-A 5 124-B 4	LOVEKESH GUPTA ROHIT GEHLOT DARSHAN BAID PRASIT JAIN AMAN MAHESHWARI	DESIGN, FABRICATION AND TESTING OF LOW COST SOLAR STILL	Dr. Rashi Parock	2	1	2	2	7	POI, PO2, PO3, PO6, PO8, PO9, POI1 PO12	ACCEP
A-13	29-A (33-A (11-A (36-A) 105-B 5	DEVANSH SHARMA DIVIK MATHUR DHEERA) VERMA HIMANSHU CHHAPARWAL SUBHAM AGARWAL	ADJUSTABLE SHELVES AND FOLDING BAR REFRIGERATOR	Mr. Kuldeep Shanna	2	2	I	2	7	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO11, PO12	ACCEP
114	30-A	LAKSHYARAJ SINGH RATHORE DM PRAKASH VIKASH KUMAR HIMANSHU JAIN NEMAL SHAMS	FUSED DEPOSITION MODELING (FDM) FILAMENT TEST AND FABRICATION OF 9 MODELS BY 3D PRINTING	Mr. Aashash Nagpul	2	1	1	2	6	PO1, PO2, PO3, PO6, PO8, PO9, PO11 PO12	ACCEP
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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE (JECRC) JAIPUR

MECHANICAL ENGINEERING DEPARTMENT

MINOR / MOJOR PROJECT REGISTRATION FORM 20. 2.02.9

I. Team members:

Roll No.	Name of student	Signature		
47-A	KUHAL KUMAR	Kardha		
61-A1	ndu. Asit khan	Mar		
9A	ANH KUMAR TINKAR	other		
·				
		1		

2. Title of project

cotch yoke - Mechanism for dual water rump cycle }

3. Type of Project: Fabrication/Design/Experimental/Theoritical/Industrial/Industrial case study/IndustrialSurvey/IndustrialManagement/Productivity/Robotics/Software and Other (specify)

4. Date of commencement: 6/08/12

- 5. Planned Duration: 7 months
- 6. Brief Summary of Project: (attach extra sheet if required)

Volumetric Officiency y Nuti geotenyake Mechanis -10

7. Expected benefits: efficience (1) Increase

8. Name of supervisor: ABhiShek KUHAR

I agree to be supervisor of the projects

(Signature of the Supervisor)

Project coordinator

Jaipur Engineering college & Research Centre JEIRL **Department of Mechanical Engineering Project Progress Report** AND TO ME AND TO CALL Group No: A - 8 from No. Project Title: Drylin & linear Ball bearing testings find the lease daterance on 30 printer. Year: 19-20 Member's Name Lalit Parcek IGE3CMEDS Aditya Sanadhya. Dinesh Suthar Manish Sharma IGETCHEDOS 4 1613CH 1061 e of Guide: Mr. Akhilesh Paliwal Signature of Student Signature of Guide Work Done Date Sr.Nt Sitting and y Literature Survey Studied ware than 6 16 Aug मूली ख शामा Research Papers. 2019 Problem Definition and Objectives Hit Cales Indentify the pom un the Quer sitte मनीय शामा oxiting system . og sept 2 2019 that tartes Overall Methodology Chart · Understandig Cociectys 20 oct मनीघ शामा Identification 2019 mspection Hotel And Material Availiability and Procurement (mfg. project)/Identification of design matinal (vechosee) 1 Nev 2013 Holit Couch 50% project complition 3. D Printer classis taken by 3 top 2020 All students stady for for y John foreck Infacture TCH Diren Sulla the boutypathe serve Testing/ Data Interpretation/Results and conclusion Jolis losak Students completed Projut and 3ATTA 12 74 W Davent Setting Finding final Conclusion Thesis Report Writing 70+ Project Report Jone sofla zist Jolid Posete 31 ATHUNTICH Own yallys 12/03/2020 15- AL 2125 Some charges need.

Jaipur Engineering College and Research Centre, Jaipur Department of Mechanical Engineering

Date: - 7/11/2019

Notice

This is informing to all B.Tech VII semester students that they have to present their minor project presentation for final internal assessment and Submit your synopsis in spiral binding duly signed by your guide at given schedule.

Presentation schedule

Group Number	Date	Venue	
Al to Al4	3-12-2019	BT-07	211
B1 to B 13	4-12-2019	BT-07	
C1 to C15	5-12-2019	BT-07	

Every group should prepare synopsis of your concerned project which includes following points:

- 1. Contents
- 2. Literature review (at least 8 research/review papers of recent previous years)
- 3. Problem definition and objective. (Times new Roman, 12 font size with 1.5 line spacing and Justify)
- 4. Cost estimation of project in proper format.

NOTE: Submit synopsis in spiral binding.

Mr. Akhilesh Paliwal (Project Coordinator) (Section A)

Dr. Bhuvnesh Bharadwaj (Project Coordinator) (Section B)

Dr. Rishi Pareek (Project Coordinator) (Section C)







Section A: Inventor Details

1. INVENTOR DETAILS

a. First Inventor

Name: Dr. Rishi Pareek Mobile No.: 7340340111 Email: rishi.pareek@outlook.com Nationality: Indian Address: JECRC Foundation, Jaipur

b. Second Inventor

Name: Mohammed Saguib Khan Mobile No.: 7073907831 Email: mohammedsaquibkhan@gmail.com Nationality: Indian Address: JECRC Foundation, Jaipur

c. Third Inventor

Name: <u>RishabhDutt</u> Sharma	Mobile No.: 9462511671	
Email: <u>rishabhdsharma@gmail.com</u>	Nationality: Indian	
Address: JECRC Foundation, Jaipur		

d. Fourth Inventor

Name: Neelraj Kaushik Mobile No.: 9079793800 Email: neilkaushik193@gmail.com Nationality: Indian Address: JECRC Foundation, Jaipur

e. Fifth Inventor

Name: LakshyZaveri Mobile No.: 9783008890 Email: lakshyzaveri98@gmail.com Nationality: Indian Address: JECRC Foundation, Jaipur

2. IP support services you wish for us to fulfill (Please specify the services needed in the space provided for one of multiple choices or simply write SELECT in block letters next to the service

needed):-

- Patentability Search ______ SELECT
- Provisional Patent Application
 SELECT
- Non-Provisional PatentApplication ______
- o Trademark _____
- o Copyright _____

MS Received from RITDME-2018 held on 6-7 April, 2018 at JECRC, Jaipur

ANALYSIS AND CHARACTERISTICS OF BLENDED WING BODY AIRCRAFT

Anirudh Jain*, Mudit Garg and Lalit Kumar Sharma

Department of Mechanical Engineering, Jaipur Engineering College and Research Centre,

Jaipur-302022, Rajasthan, India

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Received on: 10.Apr.2018

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ABSTRACT

This paper puts forward a design idea for blended wing body (BWB). The study will focus on the aerodynamic characteristics such as Mach number and pressure variation over the body with the help of mechanical software tools, from these results we can find the aerodynamic efficiency(lift force to drag force ratio) so that we can compare the performance characteristics with conventional aircraft. Because aerodynamic design is carried out under the constraints of BWB design requirements, the design configuration fulfils the demands for interior layout and provides a solid foundation for continuous work.

Keywords: Blended Wing Body, Solidworks, Flow Simulation

INTRODUCTION TO CONCEPT OF BWB

A Blended wing body (BWB or *Hybrid Wing Body*, HWB) is a fixed-wing aircraft having no clear dividing line between the wings and the main body of the craft. The form is composed of distinct wing and body structures, though the wings are smoothly blended into the body, unlike a flying wing which has no distinct fuselage. A BWB design may or may not be tailless.

Blended Wing Body (BWB) aircrafts differ from usual commercial designs (tube and wings (TAW)) in the idea that the main body of the aircraft could (and should) help in the lift effort of the whole structure. This design derived from the flying wing appeared as an answer to NASA's 1988's prerogative to propose a new revolutionary long range transport aircraft [3]. This concent with more extensive Furthermore, due to the intuitive position of the engines on this configuration (over the fuselage), this design should allow for less noise propagation in consideration to the ground observer, making this aircraft more suitable for incity airports.

LITERATURE REVIEW

LI Peifeng, ZHANG Binqian, CHEN Yingchun, YUAN Changsheng, LIN Yu (2011) extrapolate Aerodynamics Design Methodology for Blended Wing Body Transport aiming design methodology to design 300-passenger BWB configuration which concludes BWB configuration achieves high lift to drag ratio (improvement is 2) and pitch trim at cruise condition, fulfils positive zero lift pitching moment and static stability design requirements, and has IST. Journal of Mechanical Engineering, Vol. 10 No. 1-2, (January - December 2019), p.p. 21-24 ISV 0976-7371 © Intellectuals Society for Socio-Techno Welfare

MS Received from RITDME-2018 held on 6-7 April, 2018 at JECRC, Jaipur

RECENT ADVANCEMENT IN DIAMOND COATED CUTTING TOOLS

Bharat Agarwal*, Javed Khan, and Abhishek Kumar

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Accepted on : 29.Mar.2019

ABSTRACT

Diamond coating tools have been increasingly used for machining advanced materials and cutting tools applications. A technology named Chemical Vapor Deposition (CVD) is developed to produce diamond coatings which consist of nano-diamond crystals embedded into a hard amorphous diamond-like carbon matrix. It can be classified into nanocrystalline diamond (NCD) and microcrystalline diamond (MCD). This paper considers analysis of the properties and performance of the diamond coated tools such as cutting performance, cutting edge, cutting force wear performance, residual stresses, etc.

Keywords: Chemical Vapor Deposition (CVD), Nanocrystalline diamond (NCD), microcrystalline diamond, Diamond coated tools.

1. LITERATURE REVIEW

The study done by Maneesh Chandran, ET. Al. reports us about the wear performance of diamond coated WC-Co cutting tools with a CrN interlayer by machining Al-Si Alloys. They studied the wear performance by using turning tests and impact tests. After combining the studies of turning and impact tests, they concluded that diamond coatings on WC-10%Co tools with a CrN interlayer are better tools for machining of Al-Si alloys and other high impact applications.

Ravikumar Dumpala. Et. Al. studied about the wear

The study did by both Jamal Sheikh-Ahmad and Parikshit Chipalkati reports us about the effect of cutting edge geometry on Thermal Stresses and Failure of Diamond Coated tools. Finite element analysis and simulation of thermally induced residual stresses was conducted using a transient thermo-mechanical coupled solver. It was found that the above propertiesdepends on the nose radii, cutting edge and film thickness.

Ramasubramanian Kannan, Et.Al. studied about the nanocrystalline diamond coated tool performance in machining of LM6 Aluminium alloy. They showed the

Criterion-2 Program Curriculum and Teaching- Learning Process			
NCOMPLIANCE STATUS (ACTION TAKEN)ABY INSTITUTION)			
ry 1. Department has two Industry supported laboratories viz. Automobile research laboratory (Equipment worth rupees 50 Lakh is provided by the Baba Automobile Pvt. Limited) and Machine design laboratory (related software are provided by CADD centre, Jaipur). (https://jecrcfoundation.com/jecrc-foundation-mou-with-industry) is 2. Various training and activities are carried out through these laboratories for skill enhancement for students. 3. These laboratories are also utilized by the students during their project work and for analysis purpose for writing research papers. 4. Students also visit various industries after the end of fourth and Sixth semester for mandatory industrial training of forty five days is also serving as industry institute interaction. 5. Various industries do visit for campus recruitment for mechanical engineering students and also provide feedbacks to the department on various issues. 6. Some of the industrial visits and technical talks are the outcome of industry -institute relationship and are included as content beyond syllabus for knowledge enhancement. In the academic year 2018-19 and 2019-20, department has carried out below mentioned industrial visits. 7. Department signed MOU with Bharatiya Skill University for training on advanced machines. 8. Department collects the feedback from the students and necessary actions are taken. 9. Skill enhancement of the students is also			

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carried out three mandatory for a	ough FACE academy and it is all pre final year students.
Feedback	Link
Industrial visit	https://jecrcfoundation.co m/jf- data/NBA/ME/Industrial- Visit/Industrial-Visits- 2019-20.pdf
Expert lectures	https://jecrcfoundation.co m/jf-data/NBA/ME/Guest- Lecture/2019-20/Guest- Lectures-2019-20.pdf

Memorandum of Understanding

Returners

Baba Automobile Pvt. Uzl., Jaipur

And

ECRC Foundation, Jaipur

This Memorandees of Understanding (MOU) sets the terms and understanding between Ratus Automobile Pert. Ltd. and BERE Foundation for previous of Automobile Context eff Strephene at BERE College, Juliper Rej.

This MOU will be applicable to arrange the facilities to stadaws of B.Tech and Diploma Mechanical, Electrical, Automobile (All year) to participate in Antomobile Training/Internable

The above goals will be accomplished by undertaking the following activitie

- That Baba Automobile Per, Ltd. will arrange all the facilities to conclue automobile training for all statistics of Ellich & Diplems. Mechanical, Electrical (AI year) students. Details of engines which will be autilable for training are as follows to maniform in training forms.
 That all apparture, engines, tools, skall be avanged by Sube Automobile is the premises of JECRC College to provide in depth knowledge of above engines.

- That the training duration will be throughout the year is per time table provided by head of department (acc) immprctive of the time.
 That the lab space and cabin spece for Automobile facultion will be provided by SIGCE College.
 That an ISO consider eartificate or any other study restread will be provided by Bio Automobile on the completion of training.
 Maintenace cost of all completents will be bear by Rake substance.
- 3. Speec Sanday and holiday will be utilized for training on mutual concert.



List of 2-wheeler traines

2-Wheeler Engines	4- Wheeler Engines
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3. Hero Solendor Engine.	30. Bejaj Platina.
A LML Freedom 150 of engine.	31. Tvs Sport Engine.
5. Tvs Asserbe Empired.	32. Tvo Vistor Engine
5. Honda Activa Astomatic CVT Engine	13. Honida tinicare Degine.
7. Science English	34 Automatic CVI Engine

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6. TATA SAVARY DIFFERENCE INCOME.	1.3. Hyundar Car Great Engine
Y MANNESS SCORPECTION LINE ME	1.4. Shenke Can Engine.
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 MENCEDES BENZ CAR for Procedual & Overtreading:

List of Teol, Machines, Accessories.

FOUR- WHEELER CAR SECTION (Rs. 11 - Lakhs)

MERCEDES BENZ Working car for Practical or Scanning Purpose. (Rs. 8 -lakhs)
 TATA SAFARI / SEDAN Car for Practical Session. (3 lakhs)

FOUR- WHEELER ENGINE SECTION (Rs. 14 Lakhs)

- 3. AUDI- V-6 Twin Turbocharged Diesel Engine (2.5 lakhs)
- 4. AUDI- V-6 Twin Turbocharged Petrol Engine. (2.5 lakhs)
- 5. MERCEDES Engine (3 lakhs)
- 6. BMW Automatic Transmission (1.5 lakhs)
- 7. Maruti Suzuki 4- Cylinder Diesel Engine. (1 -lakh)
- 8. Tata Safari Diesel Engine (1 lakh)
- 9. Tata Indigo Diesel Engine. (75,000)
- 10. Honda City Diesel Engine. (75,000)
- 11 Skoda Car Engine. (1 lakh)

FOUR- WHEELER TRANSMISSION SECTION. (5 -lakh)

12. Front Wheel Drive AUDI Automatic transmission. (1.5 lakhs)

- 13. Rear Wheel Drive MERCEDES Automatic Transmission. (1.5 lakhs)
- 14. Maruti Suzuki 5 Speed Manual Transmission. (1 -lakh)

15.Honda Rear Wheel Drive Manual transmission. (1 -lakh)

FOUR- WHEELER STEERING SYSTEM SECTION . (2 -lakh)

- 16. Manual Steering Sytem with Rack Pinion Arrangement. (45,000)
- 17. power Steering system with Rack Pinion Arrangement. (45,000)
- 18. Maruti Suzuki cars ELECTRIC Steering System (55,000)
- 19. Toyota cars ELECTRIC Steering System (55,000)

FOUR- WHEELER DIFFERENTIAL SYSTEM SECTION .(4 lakhs)

- 20. Maruti Suzuki Rear Wheel Drive Differential System. (45,000)
- 21. Tata Cars front Wheel Drive Differential System. (55,000)
- 22. MERCEDES BENZ INDEPENDENT Limited Slip Advanced Differential. (1.5 lakhs)
- 23 .Electric Vehicle Differential system with Electric Motors. (1.5 lakhs)

FOUR- WHEELER BRAKING & SUSPENSION SYSTEM SECTION.(4 lakhs)

- 24. Front Wheel DUAL DISK Braking System (40,000)
- 25. Rear Wheel DRUM Braking System (40,000)
- 26. MERCEDES BENZ Brake Vacuum Booster (70,000)
- 27. MERCEDES BENZ ABS (Anti Braking System Unit) (1.5 lakhs)
- 28. AUDI E-B-D (Equal Braking Distribution) System. (1 lakh)

FOUR- WHEELER AIR BAG & OTHER AUXILIARIES SYSTEM SECTION. (4.15 Lakhs)

- 29. MERCEDES BENZ Steering Air Bag System (1-lakh)
- 30. MERCEDES BENZ Side Windows Air Bag System (50,000)
- 31. Car Engine Self Starter Motor for Engine Starting (35000)
- 32. Car Engine Alternator System for Battery Charging.(35000)
- 35. Air Filter Units.(10,000)
- 36. Carburetor Systems.(10.000)
- 37. Fuel Injector Systems. (75000)
- 38. and Some Other Auxiliaries systems. (1 lakh)

TWO - WHEELER CAR SECTION (6.7 Lakhs)

- 39 .BAJAJ Pulsar-220 CC Engine (30,000)
- 40. TVS Apache 180 CC Engine. (30,000)
- 41. LML Freedom 125 CC Engine. (30,000)
- 42. HONDA Eterno Engine. (30,000)
- 43. TVS Victor 150 CC Engine. (30,000)
- 44. HONDA Activa 110 CC Engine (30,000)
- 45. HONDA Shine 125 CC Engine (30,000)
- 46. BAJAJ Discover 150 CC Engine (30,000)
- 47. TVS MAX 100 2 Stroke. (30,000)
- 48. Rajdoot 2 stroke. (30,000)
- 50. START BIKE FOR PRACTICAL SESSION (30,000)
- 51.START SCOOTY FOR PRACTICAL SESSION (30,000)
- 52. ELECTRIC WORKING 2-Wheeler for Electric Vehicle Development Training. (30,000)
- 53. Wiring System. (40,000)
- 54. Suspension System. (20,000)
- 55. Carburetion Systems. (20,000)
- 56. FI Systems. (20,000)
- 57. Sensors Systems. (60,000)
- 58. Self-starting and Charging System. (20,000)
- 59. Tuning of 2- wheelers. (40,000)
- 60. and Other all Systems of 2- wheeler. (60,000)

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- The duration of late installation Shell be maximum 30 days after signing 8000.
- 2 Security account 5 lakks related to jetry college at the Tool of NOLI without any deprecision.
- 20% Assault of total fee received by celtride students shall be after of JECRC & will be transferred to JECRC aic at the end of month and rest 80% shale will be all bate Astronoble.

They MOU is at will easy be modified by matted concert of earliering officials from takes Automobile and ECRE. This MOU shall become effection upon signature by the automotion officials from Babe automobile and JRORC and will remain in effect for research order and can be further extended by mutual concerts.

by the absence of matual agreement by the authorized efficials from Babe Automobile and RERE, the MOO shall end other province of training.

Regainments.

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- Space for Engines
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 Suirable Forstance for Engliser.
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 Light Facility
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Contact Information:

Baha Associable Pri. Lil. Mr. Nimosh Baha Director Postap Nagar, Julper, Rojecthan Contast: +00-879/8809020

Br. V. H. Changer Pr. V. H. Changer Contact L 4231406.754

Dance Televin

Counter Sugres By Marthal Kertik Mohat (Training Head)

Mr. Junkister

Counter Served By Maria Ter-(helested 2 MAL)

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) entered on 30th Oct.-2017. By and Between

CADD Centre Training Services Pvt. Ltd. Chennai, having its local office at No. 106-107 Mahima Majesty, Ram Gali No. 6, Raja Park Jaipur. (hereinafter referred as "CADD Centre" for the sake of brevity) and represented by its Centre head, – Mr. Rajeev Bhargava which expression shall mean and include its successors in office and assigns.

And

Principal, JECRC Tonk Road, Jaipur, Rajasthan, (herein after referred as "JECRC" represented by its Dr. Vinay Kumar Chandna (Principal), which expression shall mean and include its successors in office and assigns.

Objective of the program:

In today's world, CAD-CAM has become an indispensable skill required to make every professional employable and productive in the work place. The objective of the training program is:

- To train the students of JECRC Jaipur at their college campus for CAD and 3D printing by "CADD CENTRE"
- To train the students of JECRC Jaipur on the concepts and soft tools of CAD CAM, as per the industrial / corporate requirements.
- To facilitate them to excel in their workplace.
- To bridge the skill gap between the individuals and the industry.

Course Fees and Training Program Detail:-

As per annexure 1

COURSEWARE

CADD Centre's Curriculum & Product development (CPD) team develops the courseware. Each book is conceived, prepared and printed after a thorough research on industry specific courses. The team consists of engineers, industry, experts who are involved in the development of courseware. The course material is developed specially

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for instructor-lead training as well as self-study material. The CPD team reviews the curriculum and updates as needed. Every student who enrolls for a course is provided with a reference manual which is of World Class Standards, comprehensive in coverage and with a nice layout that pleases the eyes!

SUBJECTS: THEORY

PRACTICALS / LAB

PROJECT BASED ASSESMENT:

Students are encouraged to work on their own projects during the training program. Projectbased learning helps students to learn the subject and understand to meet the international standards. Project-based learning encourages students to use information, ideas, skill, to answer real-world questions and solve them. Projects will be assessed by the instructor.

The advantages of project-based learning:

- Provides real-world orientation.
- > Encourages higher-order thinking skills.
- Allows the instructor to be a facilitator of learning.
- Provides for ongoing student self-assessment.

CADD Centre through its Raja Park, Jaipur Shall Provide

- The proprietary and internationally acclaimed CADD Centre course material to each Student.
- Provide qualified trainers for the course.
- Periodical assessments of students for their further improvement.
- Certificate of Completion will provided to every student who will successfully complete the training program.
- CADD Centre will provide "Certificate of Association" between CADD Centre with JECRC Jaipur.
- Permit JECRC Jaipur to use CADD Centre logo as the Skill Development Partner.

V. Que 3

JURISDICTION All matters, queries, disputes, or differences, whatsoever, arising between the parties touching the construction, meaning, operation or effect of this Memorandum of Understanding or out of or relating to this Memorandum of Understanding or breach thereof shall settled through arbitration in accordance with the relevant Arbitration Act in force at such time. The Arbitration award shall be binding on both parties.

This Memorandum of Understanding shall come into effect from 30th Oct. 2017. for: MULTI CAD SOLUTION (CADD CENTRE). For: JECRC, Jaipur

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Name: Dr. Vinay Kumar Chandna Designation: Principal Date: 30th Oct. 2017

Name: Mr. RAJEEV BHARGAVA Designation: Centre Head Date: 30th Oct. 2017





MEMORANDUM OF UNDERSTANDING Between LIVEWIRE (A division of CADD CENTRE TRAINING SERVICES) (By Its Raja Park, Jaipur Centre)

And

JECRC Foundation, JAIPUR



V.PS 18

PRINCIPAL JeipurEngineering College & Research Centre Fonk Road, Jelpur-302022



BHARTIYA SKILL DEVELOPMENT UNIVERSITY, JAIPUR

SCHOOL OF MANUFACTURING SKILLS

JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE JAIPUR (JECRC) represented by its B. V. K. Charle

WHEREAS:

- A) The BSDU is engaged in providing skills training in various faculties based on Swiss Dual System of Skills Training. The BSDU awards certificates, diplomas, advance diplomas and B. Voc. Degrees to students after 10+2 schooling. It also awards M. Voc. And Ph.D. Degrees to the Candidates. BSDU has a flexible program and students can enter/exit at any time. The whole curriculum has been aligned to UGC/AICTE/NSDC/Sector councils.
- B) The JECRC is an engineering college approved by AICTE & affiliated to Rajasthan Technical University, Kota focused on undergraduate and graduate programs, and research.
- C) Both the institutions intend to cooperate and focus their efforts on cooperation within areas of Training, Education, Research and Development.
- D) Both the institutions being legal entities in themselves desire to sign this MOU for advancing their mutual interests.

NOW THEREFORE, IN COSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, BOTH THE INSTITUTIONS HERE AGREE AS FOLLOWS:

CLAUSE 1

CO-OPERATION

- Both the institutions are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operation within the institutions and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- The co-operation between BSDU and JECRC will facilitate effective utilization of the intellectual capabilities of the both Parties providing significant inputs to them in developing suitable teaching/ training systems, keeping in mind the needs of each other.
- 3. The general terms of co-operation shall be governed by this MOU. Both shall cooperate with each and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties, Along with the Definitive Documents. This MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

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MEMORANDUM OF UNDERSTANDING GETTING ASSOCIATED FOR INTELLECTUAL PROPERTY ACTIVITIES WITH JECRCCOLLEGE

This Memorandum of Understanding (MoU) is made on this Tuesday, the 24th day of December 2019 by and between

JECRC College having its main campus address asPlot No. IS-2036 to IS-2039 Ramchandrapura Industrial Area Jaipur, Sitapura, Vidhani, Rajasthan 303905(hereinafter referred to as 'JECRCCollege', which expression shall include their subsidiaries, branch offices, associations, administrator, legal heirs, group institutions, etc.).

AND

Verispire Inc., a California, (USA) registered companythrough its Indian entity Verispire Technologies pvt. Ltd. (herein after referred to as 'Verispire') having its offices at C-25, Second Floor, Sector 8, Noida, Uttar Pradesh 201301, which expression shall include their subsidiaries, branch offices, associations, administrator, legal heirs, etc.

BACKGROUND: 1.

- Verispire is an intellectual property consulting company engaged in creating valuable 1.1. business assets for our clients by safeguarding their intellectual property. We provide the best in class and wide array of intellectual property consulting services to our clients worldwide.
- 1.2. JECRC College has its campus in Jaipur, the capital city of Rajasthan and the famous tourist and business city in north-western India. The 32-acre JU campus combines unique classical architecture and thoughtful layout and landscaping to create a perfect learning ecosystem. JECRC College is driven by the spirit of innovation-led research. This is spelt out in infrastructure as well as practices.
- 1.3. Verispire also conducts hands-on workshops, lecture series and seminars to educate and train the in-house personnel of companies, educational institutions, government and semigovernment bodies towards aspects of creation, management and commercialization of IP.
- 1.4. Whereas, JECRC COLLEGE is desirous of getting associated with Verispire for Developing Innovation and Research initiatives or streamlining existing IP process, if any with the following primary objectives:

1.4.1. Facilitate in developing IPCurate Labs with all the activities mentioned in the proposal and mutually agreed (Annexure A) Facilitate patent searching, drafting and patent filing.

- 1,4.2.
- 1.4.3. Facilitate in patent prosecution cycle 1.4.4.
- Provide complete IP management 1.4.5.
- Encourage creativity and innovation. 1.4.6.
 - Provide other IP filings (Trademark, Design, Copyright, etc), the time taken to do each task mentioned clearly in Annexure C

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 Batch: II Year [3B]
 30-09-2019



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		2020	30.01.2020	SPA FLOW Technology Private Linnied, Jaipur	JANUARY-2020-Report-SPX-Flow.pdf	-
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Batch: II Year [3B]

30-09-2019





Impact/Learning Experience of the student from the Training/ Internship

1	79	res	por	ises

Good
Very good
I have learned auto cad 2d and 3d
Excellent
To understand the degree system
Learnt about designing
Basic Knowledge of AutoCAD and Python
It was a great experience about intelligent machines and concept of wind energy and wind turbines
In this training if learned about CARLA software and fusion 360. I also learned about different safety measures used in automotive industry. also how to make decision trees for automatically vehicles.

Level of opportunity given for you to work on real time problem or practical problem or on the day to day activities of the organization.





Crite 3.1 E	rion-3 Course stablish the co	Outcomes and Program Our rrelation between the cours	utcomes ses and the POs & PSOs							
S. No	CRITERIA	OBSERVATION MADE BY NBA	COMPLIANCE	STATUS (ACTION TAI	KEN BY INSTITUTION)					
3.1. 2	3.1.2 CO- PO/PSOs matrices of courses selected in 3.1.1 (six matrices)	CO-PO/PSO matrices show lack of understanding. On the other hand in the attainment tables of PO, some PO against different subjects has no weightage.	1. Workshops and FDP on OF university in association with NB2. Department has provided a simembers for preparing relations POs/PSOs. After that department below mentioned criteria. $Pos/PSOs.$ After that department below mentioned criteria. $Average mapping (m)$ $m < 0.5$ $0.5 \le m \le 1$ $1 < m \le 2$ $2 < m \le 3$ 3. Each faculty member maintain relationship between CO-PO-PSC internal question paper mapped w to weak students, information above members.4. Weightage of knowledge of members.5. IQAC ensures the knowledge a students information above to weak students information above	E are conducted for fa A and through NITTTR, neet containing COs of a hip of CO-PO/PSO matr calculated average mapp Value given 0 1 2 3 ns a course file that inc 0, evaluation of COs, ider vith COs, solution of ques out student's performance OBE is also included bout OBE to faculty men	culty members by Rajasthan Te Chandigarh. all subjects and POs/PSOs to all ices and ask them to map COs v ing and assign final mapping accor Level of Relationship No Low Medium High cludes vision, mission, course out stification of slow learner and fast stion paper with step marking, assi etc., reflects the understanding of in the yearly appraisal form of abers through interactions	chnical faculty with all rding to tcomes, learner, gnment `faculty faculty				
3.1. 3	3.1.3 Program level Course PO/PSOs matrix of	Almost all CO-PO/ PSO matrices, programme level course-PO/PSO matrices show lack of understanding.	 1.Workshops and FDP on OBE and Rajasthan Technical universi 2. Department has provided a simembers for preparing relations POs/PSOs. After that department below mentioned criteria. 	Workshops and FDP on OBE are conducted for faculty members through NITTTR ,Chandigarh d Rajasthan Technical university in association with NBA Department has provided a sheet containing COs of all subjects and POs/PSOs to all faculty embers for preparing relationship of CO-PO/PSO matrices and ask them to map COs with all Ds/PSOs. After that department calculated average mapping and assign final mapping according to low mentioned criteria.						
	ALL									

courses including		Average mapping (m)	Value given	Level of Relationship	
first year		m< 0.5	0	No	4
courses		$0.5 \le m \le 1$	1	Low	1
		$1 < m \leq 2$	2	Medium	
		$2 < m \leq 3$	3	High	
	3. 4. 5. (<u>https://</u>	Each faculty member mai relationship between CO- learner, internal question marking, assignment to reflects the understanding Weightage of knowledge members IQAC ensures the knowle jecrcfoundation.com/jff/m	ntains a course file that PO-PSO, evaluation of paper mapped with 0 weak students, inform of faculty members of OBE is also incluce dge about OBE to facu e/CO-PO%20Mapping	includes vision ,mission, course o COs ,identification of slow learner COs, solution of question paper v nation about student's performa led in the yearly appraisal form o lty members through interactions .pdf)	utcomes, r and fast with step nce etc., f faculty

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4	SUBJEC	T CODE	subject name							\mathbf{C}	0									
5		CO-1 To identify the main elements in Computer Integrated Manufacturing Systems.																		
6	8M	E1A	Computer Integrated	CO-2	To apply	the knowl	edge of Co	mputer A	ided Proce	ss Planning	g (CAPP),	features,	Group Tecl	hnology at	nd data ex	change in				
7			manufacturing bystems	CO-3	To analyz	the proc	ess produc	ct models	with CAM	tools and (CNC mac	hines with	Collaborati	ve Engine	ering.					
8			FACULTY NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2			
10		DR MP ST	NGH	3	3	3	0	2	1	0	0	2	3	3	3	0	1			=
11		DR.FAUZ	IA SIDDIQUI	2	2	3	1	2	0	0	1	2	3	2	3	0	1			
12		DR. BHUV	NESH BHARDWAJ	3	2	3	1	2	1	1	1	2	3	2	3	0	1			
13		DR. MAN	ISH SHRIVASTVA	2	3	2	0	2	1	0	0	2	2	3	3	0	0			
14		MR.KULD	EEP SHARMA	3	3	3	0	2	1	1	1	2	2	2	3	0	0			
15		DR.RISHI	PAREEK	2	3	2	1	1	0	0	1	2	2	3	2	0	1			
16		DR.MANI	MOHAN SIDDH	2	2	2	0	2	1	0	0	2	3	2	2	0	1			_
17		MR.LALI	I KUMAR SHARMA	2	2	2	0	2	0	1	1	2	2	3	3	0	1			_
18		MR. RAJE	NDRA KUMAR GAUPTA	3	3	3	1	1	1	0	1	2	2	2	3	0	0			
19		MR. TOGE	ANT DANGAI	2	2	3	0	2	1	1	1	2	3	2	2	0	1			_
20	_	MR AKH	II VIIAY	3	2	3	1	2	1	0	1	2	3	2	3	0	1			
22	5	MR. AAS	HISH NAGPAL	3	2	3	0	1	0	0	0	2	3	2	2	1	1			
23	Ö	MS. PRITI	P BODKE	2	2	3	0	2	0	0	1	2	3	2	2	0	1			
24		MS. PALA	AK JINDAL	3	2	2	0	1	1	0	0	2	3	2	3	1	0			
25		MR. AKH	ILESH PALIWAL	3	2	3	0	2	0	1	1	3	2	3	2	1	0			
26		MR. ABH	ISHEK KUMAR	2	2	2	0	1	1	1	0	3	3	2	3	0	1			
27		MR. SATE	EYNDRA KUMAR	2	2	3	1	2	1		1	2	3	2	3		1			
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29		MR. SHRI	KANT BANSAL	3	2	3	0	1	0	0	1	3	2	2	2	0	1			_
21		MR. GOUL	KAV JAIN	2	2	2	1	2	1	1	1	2	3	2	3	0	1			
32		MR TAIF	NDFRA SINGH	3	2	3	1	2	1	0	1	2	2	3	2	0	1			
33		MR. TAJE	NDERA SINGH	2	2	3	0	2	1	0	1	2	3	2	3	0	0			
34		MR. SHAS	SHANK S SINGH	3	2	3	0	1	1	1	0	2	2	2	3	1	1			
35				2.56	2.28	2.72	0.36	1.6	0.68	0.33333	0.6	2.2	2.6	2.24	2.6	0.20833	0.72			
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38		DR.FAUZ	IA SIDDIQUI	2	3	3	2	3	2	0	1	2	3	2	3	0	3			
39		DR. BHUV	NESH BHARDWAJ	2	2	3	2	3	2	0	1	1	3	2	3	0	2			
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39		DR. BRUVNESH BRAKDWAJ	2	2	2	2	3	2	0	0	2	3	1	3	0	2			
40		MR KULDEEP SHARMA	2	2	2	2	2	2	0	1	2	3	2	2	0	3			
41		DR RISHI PAREEK	3	2	3	1	2	1	0	0	2	2	2	3	1	2			
43		DR MANMOHAN SIDDH	3	3	3	2	3	2	1	0	1	3	1	2	1	3			
44		MR LAUT KUMAR SHARMA	3	2	2	2	2	1	0	1	1	3	2	2	0	3			
45		MR RAJENDRA KUMAR GAUPTA	3	3	3	1	3	1	0	0	2	2	1	3	1	2			
46		MR. YOGESH DUBEY	3	3	2	2	2	2	0	1	2	2	2	3	0	3			
47		MR. HEMANT BANSAL	3	3	2	1	2	2	0	0	1	2	2	2	0	3			
48	0	MR. AKHIL VIJAY	3	3	3	2	3	2	0	1	2	3	2	3	0	3			
49	ğ	MR. AASHISH NAGPAL	3	3	3	2	3	2	0	0	1	3	2	2	0	3			
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51		MS. PALAK JINDAL	3	2	2	1	2	2	0	1	2	3	1	2	0	3			
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59		MR. TAJENDERA SINGH	3	2	2	2	3	1	0	1	1	3	1	3	0	2			
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60		MR. TAJENDERA SINGH	3	3	3	1	2	2	1	1	2	2	2	3	0	3		
61		MR. SHASHANK S SINGH	2	2	2	1	3	2	0	1	1	3	1	2	0	3		
62			2.72	2.64	2.56	1.64	2.56	1.72	0.29167	0.6	1.6	2.6	1.68	2.64	0.29167	2.76		
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64		DR.MP SINGH	3	2	3	1	3	0	0	0	2	3	3	3	0	3		
65		DR.FAUZIA SIDDIQUI	2	2	3	2	3	0	0	0	1	3	3	3	0	3		
66		DR. BHUVNESH BHARDWAJ	2	3	2	2	2	1	0	1	1	2	3	3	1	2		
67		DR. MANISH SHRIVASTVA	3	3	3	1	3	0	0	0	2	3	3	3	0	3		
68		MR.KULDEEP SHARMA	3	3	2	2	3	1	1	0	2	3	3	3	1	3		
69		DR.RISHI PAREEK	2	2	3	1	2	0	0	1	1	3	3	3	1	3		
70		DR.MANMOHAN SIDDH	3	3	3	1	3	0	0	1	1	2	3	3	0	3		
71		MR.LALIT KUMAR SHARMA	3	3	2	2	3	1	0	0	2	3	3	3	1	2		
72		MR. RAJENDRA KUMAR GUPTA	2	3	3	1	2	1	1	0	1	2	2	3	0	3		
73		MR. YOGESH DUBEY	3	3	3	2	3	1	0	1	2	3	3	2	1	2		
74		MR. HEMANT BANSAL	3	3	2	2	3	0	1	1	1	2	3	3	0	2		
75	2	MR. AKHIL VIJAY	3	3	3	2	3	1	0	1	2	3	3	3	0	3		
76	8	MR. AASHISH NAGPAL	3	3	2	1	3	0	0	0	2	3	3	2	0	3		
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80		MR. ABHISHEK KUMAR	2	3	2	1	2	0	0	1	2	2	2	2	1	3		
81		MR. SATEYNDRA KUMAR	3	3	3	2	3	1	1	1	2	3	3	3	0	3		
82		MR. KAVI JADAV	2	2	2	2	2	1	1	0	1	2	2	2	1	2		
83		MR. SHRIKANI BANSAL	2	2	2	2	2	1	1	1	2	2	2	2	1	2		
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88		MR SHASHANK S SINGH	3	3	3	1	3	0	1	1	2	2	2	3	0	3		
89			2.68	2.72	2.64	1.6	2.72	0.52	0.33333	0.56	1.6	2.6	2.72	2.72	0.33333	2.68		
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ц.	Dr Jayakrish Senior Research Scientistic	nan M 4 NPTEL 11TM	Dr San	neer Sahasrabuddhe	גדוו
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NBA Awareness Webinar

on Outcome Based Education and Accreditation Participation Certificate



This is to certify that Prof./ Dr./ Mr./ Ms. Lalit Kumar Sharma From JECRC Jaipur

has attended the NBA Awareness Webinar on "Outcome Based Education and Accreditation" on 4th December 2020, jointly organized by NBA and Rajasthan Technical University Kota for the Engineering Colleges in Rajasthan.

Prof. V. K. Chandna (Principal, JECRC Jaipur) Nodal Officer NBA Awareness Webinar RTU Kota



S.NO.	CRITERIA	OBSERVATION	
	3.2Attainment	MADE BY NBA	
	of Course		COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION)
	Outcomes		
	3.2.1 Describe		• Faculty members provide assignment, question bank having question of previous
	the assessment		year question papers/GATE/PSU etc. to all students. In assignment, each question
	processes used		is mapped to one or more CO.
	to gather the	Assignments are	• In addition to this, if obtained marks by the student in any $CO < 60\%$ in midterm
321	data upon	only given to	examination, then the student is considered weak in that particular CO and
5.2.1	which the	weaker students	additional assignment based on that particular CO is given to that student.
	evaluation of	weaker stadents.	
	Course		
	Outcome is		
	based		
322	322 Record	Attainment process	PO attainment – Direct attainment + Indirect attainment
5.2.2	the attainment	has not been	• To attainment – Direct attainment + indirect attainment
	of Course	adequately	• Direct attainment = 80 % weightage of end semester examination (ESE) + 20%
	Outcomes of	implemented. PO	weightage of Mid-term examination (MTE) = $0.8x + 0.2y$
	all courses	attainment is	x = ESE, y = MTE
	with respect to	calculated only on	 Indirect attainment – Surveys from stakeholders, placement data, participation of
	set attainment	the basis of internal	students in curricular and co-curricular activities
	levels	test marks and not	
		on end semester	• CO attainment = $0.8x + 0.2y$
		examination marks.	Where $x =$ end semester examination (ESE)
			y = Mid-term examination (MTE)
			• Direct attainment and indirect attainment are mapped with PO attainment through rubrics as given in table.

CO ATTAINMENT FOR YEAR 2018-19

	CO ATTAINME	ENT FOR YEAI	R 2018-19		
		Course	ESE	MTE	TOTAL
SUBJECT CODE	SUBJECT NAME	Outcomes	X	У	(0.8x+0.2y)
		CO-1	51.89	43.87	50.29
8ME1A	Computer Integrated	CO-2	51.89	66.77	54.87
	Manufacturing Systems	CO-3	51.89	55.74	52.66
		CO-1	58.69	45.76	56.10
8ME2A	Laws for Engineers	CO-2	58.69	56.69	58.29
		CO-3	58.69	62.94	59.54
		CO-1	52.17	64.66	54.67
	D. C. Million	СО-2	52.17	59.00	53.54
8ME3A	Power Generation	CO-3	52.17	63.66	54.47
		CO-4	52.17	63.66	54.47
		CO-1	98.52	76.24	94.06
	Product Development and	CO-2	98.52	54.20	89.66
8ME4.1A	Launching	CO-3	98.52	62.80	91.38
		CO-4	98.52	55.47	89.91
		CO-1	94.59	91.00	93.88
8ME5A	CAM Lab	CO-2	94.59	93.00	94.28
		CO-1	67.03	94.59	72.54
8ME6A	CAD Lab	CO-2	67.03	94.59	72.54
	Industrial Engineering Lab	CO-1	79.78	69.31	77.69
8ME7A	- II	CO-2	79.78	68.08	77.44
		CO-1	61.41	100.00	69.13
		CO-2	61.41	100.00	69.13
8MEPR	Project-2	CO-3	61.41	100.00	69.13
		CO-4	61.41	100.00	69.13
		CO-1	76.63	60.32	73.37
8MESM	Seminar	CO-2	76.63	59.84	73.27
		CO-3	76.63	61.12	73.53
		CO-1	43.09	85.29	51.53
7ME1A	Finite Element Methods	CO-2	43.09	83.23	51.11
		CO-3	43.09	81.12	50.69
		CO-1	39.90	66.65	45.25
	Refrigeration & Air-	CO-2	39.90	58.36	43.59
/MEZA	conditioning	CO-3	39.90	73.24	46.57
		CO-4	39.90	67.58	45.44
		CO-1	52.29	46.87	51.21
	Turkomoshires	CO-2	52.29	64.77	54.79
/ME4A	1 urbomacnines	CO-3	52.29	52.74	52.38
		CO-4	52.29	52.16	52.26
		CO-1	59.57	77.94	63.24
7 8.417.5 A	Operations Management	CO-2	59.57	41.17	55.89
/ME5A	Operations Management	CO-3	59.57	22.02	52.06
		CO-4	59.57	20.00	51.66
	Manager 1 Ma	CO-1	54.63	43.87	52.48
7ME6.1A	Micro and Nano	CO-2	54.63	<u>6</u> 6.77	57.06
	wanuraciuring	CO-3	54.63	55.74	54.85

		CO-4	54.63	52.15	54.13
	Thermal Engineering Lab-	CO-1	98.94	96.00	98.35
7ME7A	II	CO-2	98.94	95.00	98.15
		CO-1	81.89	79.52	81.42
7ME8A	FEM Lab	CO-2	81.59	64.87	78.25
		CO-1	85.25	78.46	83.89
7METR	Practical Training &	CO-2	85.25	72.29	82.66
	industrial visit	CO-3	85.25	77.56	83.71
		CO-1	100.00	100.00	100.00
7MEDD	Durain et 1	CO-2	100.00	100.00	100.00
/WIEFK	Project-1	CO-3	100.00	100.00	100.00
		CO-4	100.00	100.00	100.00
		CO-1	49.50	65.00	52.60
AME 1 A	Design of Machine	CO-2	49.50	67.50	53.10
OMEIA	Elements - II	CO-3	49.50	60.23	51.65
		CO-4	49.50	63.33	52.27
		CO-1	57.02	84.15	62.45
(ME) A	Newer Machining Methods	CO-2	57.02	81.46	61.91
OWIEZA	Newer Machining Methods	CO-3	57.02	83.95	62.41
		CO-4	57.02	84.16	62.45
		CO-1	40.53	42.64	40.95
	Witnestion Engineering	CO-2	40.53	37.84	39.99
6MIE4A	vibration Engineering	CO-3	40.53	53.24	43.07
		CO-4	40.53	35.27	39.48
		CO-1	26.49	78.40	36.87
6ME5A	Steam Engineering	CO-2	26.49	79.43	37.08
		CO-3	26.49	84.62	38.11
		CO-1	24.86	85.94	37.08
<i>(</i> MEC 2A	Maintananaa Managamant	CO-2	24.86	85.94	37.08
OIVIE0.5A	Maintenance Management	CO-3	24.86	85.94	37.08
		CO-4	24.86	85.94	37.08
6ME7A	Machine Design Sessional	CO-1	68.20	79.00	70.36
UNIE/A	-II	CO-2	68.20	82.00	70.96
6ME8A	Industrial Engineering Lab-	CO-1	55.45	92.60	62.88
UNILOA	Ι	CO-2	55.45	93.40	63.04
6MF10A	Vibration Engineering Lab	CO-1	48.20	68.50	52.26
OWIETOA	Vibration Englicering Lab	CO-2	48.20	69.80	52.52
		CO-1	36.21	67.85	42.54
5ME1A	Heat Transfer	CO-2	36.21	68.25	42.62
SMER		CO-3	36.21	66.00	42.17
		CO-4	36.21	69.28	42.82
		CO-1	34.78	74.73	42.77
5ME2A	Dynamics of Machines	CO-2	34.78	76.52	43.13
		CO-3	34.78	73.49	42.52
		CO-4	34.78	72.82	42.39
		CO-1	30.48	62.03	36.79
		CO-2	30.48	51.98	34.78
5ME4A	Quality Assurance &	CO-3	30.48	68.09	38.00
	Kenaonny	CO-4	30.48	68.00	37.98
		CO-5	30.48	66.09	37.60
5ME5A	Sociology and Economics	<u> </u>	62.49	65.76	63.14

	for Engineers	CO-2	62.49	72.67	64.53
	-	CO-3	62.49	62.94	62.58
		CO-1	31.51	48.26	34.86
		CO-2	31.51	51.36	35.48
5ME6.2A	Automobile Engg.	CO-3	31.51	50.84	35.38
		CO-4	31.51	52.76	35.76
		CO-1	78.20	77.00	77.96
5ME/A	Heat Transfer Lab	CO-2	76.00	81.00	77.00
5 1/110 A	Dynamics of Mashings Lab	CO-1	84.78	80.00	83.82
SWILOA	Dynamics of Machines Lab	CO-2	84.78	77.00	83.22
5ME0A	Production Engineering	CO-1	92.40	82.67	90.45
SWIL9A	Lab	CO-2	92.40	89.94	91.91
5ME10A	Professional Ethics and	CO-1	99.46	94.00	98.37
SWILTUA	Disaster Management	CO-2	99.46	98.00	99.17
		CO-1	32.12	64.24	38.54
4MF4-06	Manufacturing Processes	CO-2	32.12	67.64	39.22
4141174-00	manufacturing 1 1000305	CO-3	32.12	67.42	39.18
		CO-4	32.12	57.50	37.20
		CO-1	93.90	52.87	85.69
		CO-2	93.90	50.10	85.14
4ME4-07	Theory of machines	CO-3	93.90	49.93	85.11
		CO-4	93.90	53.76	85.87
		CO-5	93.90	51.35	85.39
4MF4-23	Production practice lab	CO-1	92.10	67.20	87.12
40124-25	Troduction practice lab	CO-2	94.50	69.00	89.40
		CO-1	72.00	78.00	73.20
4ME4-24	Theory of machines Lab	CO-2	75.00	73.00	74.60
		CO-3	74.00	76.00	74.40
		CO-1	57.95	51.69	56.70
3ME3-04	ENG. MECH.	CO-2	57.95	59.64	58.29
		CO-3	57.95	53.59	57.08
		CO-4	57.95	56.17	57.59
		CO-1	58.62	62.89	59.47
3MF/_06	Materials Science and	CO-2	58.62	53.59	57.61
5141124-00	Engineering	CO-3	58.62	30.80	53.06
		CO-4	58.62	40.81	55.06
3MF/-21	Machine drawing practice	CO-1	95.40	85.00	93.32
51411/7-41		CO-2	94.50	80.00	91.60
		CO-1	71.00	73.00	71.40
3ME4-22	Materials Testing Lab		71.00	70.00	70.80
		<u>CO-2</u>	/1.00	/0.00	04.15
3ME4-23	Basic Mechanical		93.25	91.13	94.15
	Drogromming using	CO-2	93.23	91.13	71.00
3ME4-24	MATI AB		68.20	84.40	71.00
		<u> </u>	65.00	04.40	/1.44
3ME7-30	Industrial Training		65.00	05.00	00.00
		CO-2	65.00	79.00	67.80

			PO1	
	Parameters	Target	Attainment	Rubrics
ICT	Placement	3	2.1	≥70% students placed then Target achieved Else = Pro rata
INDIRE	Co-curriculer activities	2	2	≥80% students placed then Target achieved Else = Pro rata
	Course Exit survey	3	2.6	Pro rata
	Student Exit survey	3	2.7	Pro rata
	Alumni survey	3	2.7	Pro rata
		2.8	2.42	

INDIRECT ATTAINMENT TOOL (POs/PSOs)

<u>S.</u>	CRITERIA	OBSERVATION MADE	<u>COMPLIANCE STATUS (ACTION TAKEN BY</u>
<u>No</u>		<u>BY NBA</u>	<u>INSTITUTION)</u>
3.3. 2	3.3.2 Provide results of evaluation of each PO & PSO	PO/PSO attainment: for all subjects PO attainment was not calculated using ESE marks	 The PO/PSO attainment has been carried out by considering direct and indirect attainment tool. Direct attainment is carried out using internal examination result and end semester examination Indirect assessment is carried out through Placements, Students co/extracurricular achievements awards, course exit survey, program exit survey from students and Alumni feedback. PO attainment = Direct attainment + Indirect attainment Direct attainment = 80 % weightage of end semester examination (ESE) + 20% weightage of Mid-term examination (MTE) = 0.8x + 0.2y x= ESE, y=MTE Indirect attainment = Surveys from stakeholders, placement data, participation of students in curricular and co-curricular activities Direct assessment and indirect assessment are mapped with PO assessment through rubrics as given in table.

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4	CODE	Computer	CO.1	CO ATTAINMENT(%)	CO ATTAINMEN	P01	1039494	1559136	0 519712	1039424	PO6 0 519712	PO7	PO8 0 0 519712	1039424	P010	1039424	P012	PS01	PSO2 0 519712	
6	8ME1A	Integrated Manufacturing	CO-2	55.7152	0.557152	1.671456	1.671456	1.671456	1.114304	1.671456	1.114304		0 0.557152	1.114304	1.671456	1.114304	1.671456	5 0	1.671456	
7		Systems	CO-3 CO-1	53.7904 57.5536	0.537304	1.613712 0.575536	1.613712 0.575536	1.613712 0.575536	1.075808	1.613712 1.151072	0.537904 0.575536	0.57553	0 0.537904	1.075808	1.613712	1.613712 0.575536	1.613712	2 0.575536	1.613712 0.575536	
э	8ME2A	Laws for Engineers	CO-2	53.4624	0.594624	0.594624	1.189248	0.594624	0.594624	1.189248	1.189248	0.59462	4 0.594624	0.594624	1.189248	1.189248	1.783872	1.189248	0.594624	
10 11			CO-3 CO-1	60.3824 55.3616	0.603824 0.553616	0.603824	1.811472 1.107232	1.207648 1.660848	0.603824	0.603824	1.207648	0.60382	4 0.603824 2 0	0.603824	0.603824	1.207648	1.207648	0.603824 0 0	0.603824	
12 13	8ME3A	Power Generation	CO-2 CO-3	54.536 55.3616	0.54536	1.63608 1.660848	1.03072	1.09072	1.09072	1.09072	0	1.10723	0 0 2 0	1.107232	1.09072	1.09072	1.107232	2 0	0	
14 15			CO-4 CO-1	55.4416 31.0144	0.554416 0.910144	1.663248	0 2.730432	1.108832	0	0	1.108832	1.10883	2 1.108832 8 0.910144	. <u> </u>		0.910144	2.730432	2 0	0	
16 17	8ME4.1A	Development and Launching	CO-2 CO-3	87.488 88.864	0.87488	2.62464 2.66532	2.62464	2.62464	1.74976	0	0	1.7497	6 0.8886 4	0.87488	1.74976	1.74976	2.62464	4 1.74976 2 1.77728	1.74976	
18 19	8ME54	CAMIS	CO-4 CO-1	87.6912 93.99567568	0.876912 0.939956757	1.753824 2.81987027	0.876912	0.876912	1.753824 2.81987027	0 2.81987027	1.753824 2.81987027	1.75382 1.87991351	4 0.939956757	1.753824	1.753824	1.753824	2.630736	5 <u>1.753824</u> 7 0	1.753824 2.81987027	
20		our cub	CO-2	34.27567568 72.1724	0.342756757	2.82827027	1.885513514	1.885513514	2.82827027	2.82827027	2.82827027	1.88551351	4 0.342756757 4 0.721724	1.885513514	2.82827027	1.885513514	2.82827021	7 0 3 1.443448	2.82827027	
22	SMEGA	CAD Lab	CO-2	72.2476	0.722476	2.167428	1.444352	2.167428	0.722476	2.167428	1.444352	0.72247	6 0.722476	0	1.444352	0.722476	1.444352	1.444352	1.444352	
23	8ME7A	Engineering Lab -	CO-1	78.6736	0.786736	2.360208	2.360208	0	1.573472	0	1.573472		0 1.573472	2.360208	0	1.573472	2.360208	s o	0	
24			CO-2	68.808	0.68808	2.356704	2.06424	2.356704	1.37616	1.37616	1.37616	1.3761	6 1.37616	2.06424	2.06424	2.06424	2.356104	1 2.06424	2.06424	
26 27	8MEPR	Project-2	CO-2 CO-3	68.368 68.568	0.68968	2.06904	2.06304	2.06304 1.37136	1.37936 0.68568	1.37936 0.68568	1.37936	1.3793	6 0.68968 6 1.37136	2.06904	2.06904	1.37936 0.68568	2.06304	2.06304 2.05704	0 2.05704	
28 29			CO-4 CO-1	68.648 74.7152	0.68648	2.05944 2.241456	2.05944 2.241456	2.05944 1.494304	2.05944	2.05944 2.241456	1.37296	1.3729 2.24145	6 1.37296 6 1.494304	2.241456	2.241456	2.05944	2.05944 1.494304	1 2.05944 1.494304	1.37296 2.241456	
30 31	8MESM	Seminar	CO-2 CO-3	74.4384	0.744384 0.747632	2.233152	2.233152	2.233152 2.242836	2.233152	2.233152	1.488768	1.48876	8 2.233152 4 2.242836	2.233152	1.488768	1.488768	2.242836	3 2.233152 5 1.495264	2.233152	
32 33		Finite Element	CO-1 CO-2	51.04448511 51.31528511	0.510444851 0.513152851	1.531334553 1.539458553	1.531334553 1.539458553	1.531334553 1.539458553	1.020889702	1.531334553	0.510444851	0.5131528	0 0.510444851	0	0.510444851	1.020889702	0.51044485	1 1.020889702	1.020883702	
34	IMEIA	Methods	CO-3	50.66328511	0.506632851	1.520078553	1.520078553	1.520078553	1.520078553	1.520078553	0.506632851	1.01338570	2 1.013385702	0.506632851	1.520078553	1.013385702	1.013385702	2 1.013385702	1.013385702	
35			CO-1	45.864	0.45864	1.37592	1.37592	1.37592	0.91728	0	0.91728	0.9172	8 0.45864		0.45864		0.45864	• 0	0.91728	
36	7ME2A	Refrigeration &	CO-2	44 2176	0 442176	1326528	1326528	0 884352	1326528	0 442176	0 442176	0.88435	2 0.442176		0 442176	0 442176	0 442176		0.884352	
27		Air-conditioning	CO.2	47 1504	0.474504	1444750	1 444 700	1414750	0.942160	0.949400	0.94240	0.47450	0.474504	ľ .	0.474504	1 4 4 4 7 10	0.94240		0.949450	
38			CO-4	41.1504 46.0928	0.460328	1.382784	1.382784	1.362764	1.382784	0.921856	0.343168	0.41150	4 0.411564 8 0.921856	0.460928	0.921856	1.362764	0.921856	5 0	0.343168	
40	7ME3A	Operations Research	CO-2 CO-3	46.0923 47.1342	0.4603120	1.442763	1.442769	0.480923	0.480323	0.480323	0			0.4603120	0.4603120	0	0.361846	5 0 5 0	0	
42			CO-4	43.8323	0.438323	1.314969	1.314969	0.876646	0.876646	0.438323	0		0 0	0.438323	0.438323	o o	0.876646	5 0	0	
43	714547	Turk and the	CO-1	52.7712	0.527712	1.583136	1.583136	1.055424	1.055424	0.527712	1.055424	1.05542	4 0.527712	0.527712	1.055424	1.583136	1.055424	1.055424	1.055424	
45	IMLAA	Turbomacinites	CO-2	53,7104	0.537104	1.611312	1.611312	1.611312	1.611312	0.537104	1.074208	1.07420	8 0.537104	0.537104	1.611312	1.074208	1.611312	0.537104	1.074208	
46			CO-4	53.5776	0.535776	1.607328	1.607328	1.607328	1.607328	0.535776	1.071552	0.53577	6 0.535776	1.071552	1.071552	0.535776	1.607328	3 0.535776	0.535776	
48	TMESA	Operations Management	CO-2	51,256	0.51256	1.53768	1.53768	1.02512	1.02512	0.51256	0.51256	1.0251	2 0.51256	0.51256	0.51210	0.51210	1.02512	1.02512	1.02512	
43 50			CO-4	51.176	0.51176	1.53528	1.02352	1.53528	1.02272	0.51136	1.02272	0.5113	6 0.51136	1.53408	0.51176	1.02352	1.53528	3 1.02272	1.02352	
51 52	7ME6.1A	Micro and Nano	CO-1 CO-2	54.1632 57.3072	0.541632 0.579072	1.624896	1.083264	0.541632 0.579072	1.083264 1.158144	1.624896 1.737216	1.083264	1.08326	4 0 4 0	0.541632	1.083264	0.541632	1.624896	5 1.083264 5 1.158144	0	
53 1	C	D MAPPING	WITH	PO-PSO (20)	18-19 C	O MAPPING	WITH PO-F	0.559894 PSO (2019-3	20 Shee	1679479 et4 🖓	1119648	K3611 1		0.559834	8446011	N 0 55 92 7 0	1679473	skaett t	1 0	
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139 140			CO-4 CO-5	78.33	0.7833	1.4	1.4	0.7	1.4	0	0.7	0	7 0	0	0	0	0.7	0	0		
141 142	AME A OF	Fluid Mechanics	CO-1 CO-2	52.12 38.33	0.5212	1.5636	1.0424	0.5212	0.7666	0	0		0 0.3833	0	0	0.3833	0.5212	0	0		
143 144	4ME4-05	Machines	CO-3 CO-4	48.27 59.28	0.4827	1.4481 1.7784	0.3654	0.4827	1.4481 1.1856	0	0.4827	0.965	4 0.3654 6 1.1856	0	1.4481 1.7784	1.4481 1.7784	1.4481 1.7784	0	0		
145 146		Monufacturing	CO-1 CO-2	38.54 33.22	0.3854	1.1562	0.7844	0.3854	0.3854	0.3922	0.3854	0.385	4 0 2 0	0	0.7708	0.3854	1.1562 0.7844	1.1562	0		
147	4ME4-06	Processes	CO-3	39.18	0.3918	1.1754	0.3918	0.7836	0	0.3918	0.3918	0.391	8 0	0	0.3918	0	1.1754	1.1754	0		-1
148			CO-4 CO-1	37.2	0.372	1.116	0.372	0.372	1.7138	0	0.372	0.74	4 0 0 0	0	0.372	1.7138	0.744	1.116	0		
150	4ME4-07	Theory of machines	CO-2 CO-3	85.14 85.11	0.8514	2.5542 2.5533	2.5533	2.5533	1.7028	0	0.8514		0 0	0	0	0.8511	2.5542	2.5542 2.5533	0		
152			CO-4 CO-5	85.39	0.8539	2.5617	2.5761	1.7078	1.7078	0.8539	1.7078	0.853	9 0.8539	0	0	0.8539	1.7078	2.5761 2.5617	0		
154	4ME3-21	Digital Electropics Inh	CO-1 CO-2	73.28 71.58	0.7328	2.1984 2.1474	0.7328	0	2.1984 2.1474	0	0		0 0 0 0	0	0	0	2.1984 2.1474	0	0		
156		Electronics rab	CO-3	70.27	0.7027	9 7700	10460	0.9994	0.9994			0.900	0 9004	10440	0.9324		9 7700	0	0		
158	4ME4-22	Fluid Mechanics lab	CO-2	88.67	0.8867	2.6601	1.7734	0.8867	0.8867	0	0.8867	0.886	7 0.8867	1.7734	0.8867	0	2.6601	0	0		
153	4ME4-23	Production practice lab	CO-1	87.12	0.8712	2.6136	0	0.8712	0	0	0.8712	0.871	2 0	1.7424	0	0.8712	1.7424	2.6136	0.8712		
161	4ME4-24	Theory of	CO-1 CO-2	73.2	0.732	2.196	2.196	1.464	1.464	0	0.034	0.00		0.732	0.732	1.464	2.196	2.196	0.034		
163		machines Lab	CO-3	74.4	0.744	2.232	2.232	1.488	0.744	1.488	1.488	0.74	4 0.744	0.744	0.744	1.488	1.488	2.232	0		-
164		Advance	C01	56.7	0.567	1.701	0.567	0	0	0	0		0 0	0.567	0.567	0	0.567	0	0		-1
165	3ME2-01	Engineering Mathematics-I	CO-2	58.29	0.5829	1.7487	0.5829	0	0	0	0			0.5829	0.5829	0	0.5829	0	0		-
167			CO-4	57.59	0.5108	1.1124	0.5106			0			0 0	0.5108	0.5106		0.5108		0		
168			CO-1	78.7496	0.787496	0.787496	2.362488	1.574992	2.362488	1.574992	2.362488	2.36248	8 2.362488	1.574992	1.574992	2.362488	2.362488	0.787496	2.362488		-
170	3ME1-03	MEFA	CO-3	78.2532	0.762532	2.347536	2.347536	1.565064	1.565064	2.347536	2.347596	1.56506	4 1.565064	2.347536	1.565064	2.347536	1.565064	2.347596	2.347536		
171 172			CO-4 CO-1	81.1268 56.7	0.811268	2.433804	2.433804 1.134	1.622536	1.622536	1.622536	1.622536	1.62253	6 2.433804 4 0.567	1.622536	1.622536	2.433804	1.622536	0.811268	2.433804		
173 174	3ME3-04	ENG, MECH.	CO-2 CO-3	58.29 57.08	0.5829	1.7487 1.7124	1.7487 1.1416	1.7487	0.5829	0.5829	0.5829	1.165	8 0.5829 6 0.5708	0.5829	1.7487 1.7124	1.1658 1.1416	1.1658	1.1658 1.1416	1.1658		
175			CO-4 CO-1	57.53	0.5759	1.7277	1.1518	1.7277 0.6178	0.5753	0	0.5753	1.151	8 0.5753 6 0.6178	0.5759	1.7277 0.6178	1.1518	1.1518	1.1518	1.1518		-1
177	3ME4-05	Engineering Thermodynamics	CO-2	60.34	0.6034	1.8102	1.8102	1.2068	1.2068	0	0.6034	0.603	4 0.6034	0	0.6034	0	1.8102	1.2068	0		
179			CO-3 CO-1	53.66	0.5968	1.7304	1.7841	0.5947	1.1336	1.7841	1.1336	1.193	1 1.1894	1.1894	1.7841	1.1894	1.1894	1.1336	0		
181	3ME4-06	Materials Science and Engineering	00-2	53.06	0.5206	1,1200	1 5 940	1.0640	1.1200	1.022	1.1203	1.120	0 1.022	1.022	1.0640	15940	1.022	15040			
182			CO-4	55.06 52.44	0.5506	1.6518	1.1012	1.1012	1.1012	1.1012	1.6518	1.101	2 1.6518	1.1012	1.6518	1.1012	1.0612	1.6518	0		
184	3ME4-07	Mechanics of Solids	CO-2	53.32	0.5332	1.5996	1.0664	1.0664	1.0664	0	0			0	0	0	1.5996	1.5336	0		
100	2ME4-04	Machine drawing			0.52	1.50	1.50	1.50	1.04								1.04	1.50			
186 187	3mc4-21	practice	CO-1 CO-2	93.32 91.6	0.9332	2.7996 2.748	1.8664 1.832	0.9332	0.9332 2.748	0 2.748	0.9332		0 0 0 0	1.8664	1.8664 1.832	0	2.7996 2.748	1.8664 2.748	1.8664 2.748		_
188	3ME4-22	Materials Testing	CO-1	71.4	0.714	2.142	2.142	0	1.428	2.142	0	1.42	8 2.142	0	0	0	2.142	2.142	1.428		
189		De sie Marsharinel	CO-2	70.8	0.708	1.416	2.124	0	2.124	0	2.124	1.41	6 1.416	0	0	0	1.416	2.124	2.124		-1
130	3ME4-23	Engineering Lab	CO-1 CO-2	34.15	0.3415	2.8245	2.0245	2.8245	1.883	0.3415	0.3415	1.00	3 0.3415	0.3415	1.883	1.883	2.0245	2.8245	0.3415		
192 193	3ME4-24	Programming using MATLAB	CO-1	71	0.71	2.13	2.13	1.42	2.13	2.13	0.71		0 0.71	0	1.42	1.42	2.13	2.13	0		
134	3ME7-30	Industrial Training	CO-1	68.6	0.686	2,058	2,058	1,379	1,379	1372	2,058	2.05	8 2.058	2,058	2,058	2 058	2.058	2,058	1.379		
195			CO-2	67.8	0.678	1.356	2.034	2.034	1.356	2.034	1.356	1.35	6 1.356	1.356	1.356	1.356	2.034	1.356	2.034		
						1.7496026	1.3782059	1.1348884	1.108156	0.7628186	0.9242947	0.753721	0.612933	0.7394676	0.9728639	0.8382116	1.4301727	1.0770165	0.6649134		
196 197																					
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		LUIAI	TAINMENT	(105/1305)						
	PO1									
	Parameters	ameters Target Attainmen Rubrics								
E	Placement	3	2.1	270% students placed then Target achieved Fise = Pro rate						
INDIREC	Co-curriculer activities	2	2	≥80% students placed then Target achieved Else = Pro rata						
	Course Exit survey	3	2.6	Pro rata						
	Student Exit survey	3	2.7	Pro rata						
	Alumni survey	3	2.7	Pro rata						
		2.8	2.42							
	PO2									
	Parameters									

			PO2	
	Parameters	Target	Attainment	Rubrics
E	Placement	3	2.1	≥70% students placed then Target achieved
NDIREC	Co-curriculer activities	2	2	≥80% students placed then Target achieved Else = Pro rata
-	Course Exit survey	3	2.4	Pro rata
	Student Exit survey	3	2.6	Pro rata
	Alumni survey	3	2.55	Pro rata
		2.8	2.33	







Criterion- 4 Student's Performance									
<u>S. No</u>	CRITERIA	MADE BY NBA	COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION)						
4.2.1	4.2.1		0.45						
	Success		0.4						
	rate		0.4						
	without	Low success rate	0.35						
	backlogs in		0.3						
	any		0.25						
	Semester/ye		0.25			· · · · · · · · · · · · · · · · · · ·			
	ar of study		0.2						
	Without		0.15						
	Backlog								
	means no		0.1						
	compartme		0.05						
	nt or					· · · ·			
	failures in		0	LYGm2 (2017-18) LYGm1 (2018-19		LYG (2019-20)			
	any		Success Index (SI)	0.32	0.34	0.39			
	semester/								
	year of		https://jecrcfoundation.com/jf-data/NBA/ME/2014-15-to-19-20-Pass-Table-B3.pdf						
	study								

Item	Latest Year of Graduation minus 2, LYGm2	Latest Year of Graduation minus 1, LYGm1	Latest Year of Graduation, LYG	
Number of students admitted in the corresponding First Year + admitted in 2^{nd} year via lateral entry and separate division, if applicable	208+5*=213	186+10*=196	184+4*=188	
Number of students who have graduated without backlog in the stipulated period	66	65	71	
Success Index (SI)	0.32	0.34	0.39	
Average Success Index	0.35			

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION)				
4.2.2	4.2.2 Success rate with backlog in	Needs improvement	0.68				
	stipulated period		0.66 -	_			
	(actual duration of the program)		0.64 -				
			0.62 -	_			
			0.6 -	_			
			0.58 -				
			0.56 -	LYGm2 (2017-18)	LYGm1 (2018-19)	LYG (2019-20)	
			Success Index (SI)	0.67	0.62	0.6	
			https://jecrcfoundati	on.com/jf-data/NB/	A/ME/2014-15-to-19-20	0-Fail-Table-B3.2.pdf	1
Item	LYG (CAYm6)	LYGm1 (CAYm5)	LYG (CAYm4)				
---	-------------	---------------	-------------				
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if applicable	208+5*=213	186+10*=196	184+4*=188				
Number of students who have graduated with backlog in the stipulated period	142	121	113				
Success Index (SI)	0.67	0.62	0.60				
Average Success Index		0.63					



Academic Performance	CAYm3 (2017-18)	CAYm2 (2018-19)	CAYm1 (2019-20)
Mean of CGPA or Mean Percentage of all successful students (X)	6.38	6.33	6.63
Total no. of successful students (Y)	189	185	180
Total no. of students appeared in the examination (Z)	189	185	180
$\mathbf{API} = \mathbf{x}^* (\mathbf{Y}/\mathbf{Z})$	6.38	6.33	6.63
Average $API = (AP1 = AP2 + AP3)/3$		6.45	

<u>S. No</u>	CRITERIA	OBSERVATIO <u>N MADE BY</u> <u>NBA</u>	COMPLIANCE STA	TUS (ACTION TA	AKEN BY INSTIT	<u>UTION)</u>
4.4	Academic	Needs	7			
	Performance	improvement				
	in Second		6			
	Year		0			
			5 -			
			4 -			
			3 -			
			2 -			
			1 -			
			0 -			
			Academic Performance Index	6 25	5 65	CAY m1 (2019-20)
				0.25	5.05	0.05
			https://jecrcfoundation.com/jf- B3.4.pdf	-data/NBA/ME/NB	A-4.4-Performance	-2-yr-Table-

Academic Performance	CAYm3 (2017-18)	CAYm2 (2018-19)	CAYm1 (2019-20)
Mean of CGPA of Mean Percentage of all successful students (X)	6.25	5.65	6.85
Total no. of successful students (Y)	186	180	110
Total no. of students appeared in the examination (Z)	186	180	110
$API = x^* (Y/Z)$	6.25	5.65	6.85
Average $API = (AP1 = AP2 + AP3)/3$		6.25	<u> </u>

<u>S. No</u>	CRITERIA	OBSERVATIO <u>N MADE BY</u> <u>NBA</u>	COMPLIANCE ST	<u>FATUS (ACTIO</u>	ON TAKEN BY II	NSTITUTION)
4.5	Placement,	Needs				
	Higher	improvement	0.8			
	studies and	1	0.7			
	Entrepreneur		0.7			
	ship		0.6			
			0.5 —			
			0.4 —			
			0.3 —	_		
			0.2 —			
			0.1 —		_	
			0			
			Placement Index	CAYm3 (2017-18)	CAYm2 (2018-19)	CAYm1 (2019-20)
		htt	0 Placement Index ps://jecrcfoundation.com	CAYm3 (2017-18) 0.46 /placement-stats	CAYm2 (2018-19) 0.49	-

Item	CAYm3 (2017-18)	CAYm2 (2018-19)	CAYm1 (2019-20)
Total No. of Final Year Students (N)	209	189	185
No. of students placed in companies or Government Sector (x)	93	91	125
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT	2	2	0
No. of students turned entrepreneur in engineering/technology (z)	2	0	0
x+ y + z =	97	93	125
Placement Index : $(x + y + z)/N$	0.46	0.49	0.68
Average placement = $(P1 + P2 + P3)/3$		0.54	

Criterio	Criterion-5 Faculty Information and Contributions					
<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	COMPLIANC	<u>E STATUS</u> INSTITU	<u>5 (ACTIO</u> J <u>TION)</u>	N TAKEN BY
5.1	Student- Faculty Ratio (SFR)	Average SFR= 19.90	YearCA (20)SFR17.Average SFR	Ym2 18-19) 27	CAYm1 (2019-20) 17.05 16.41) CAY (2020-21) 14.92
5.2	Faculty Cadre Proportion	Needs improvement.	Year Cadre Ratio	CAYm2 (2018-19) 25	CAYm1 (2019-20) 25) CAY (2020-21) 25
5.3	Faculty qualification	Qualification needs enhancement	2020-21TotalFaculty=29Ph.DM.Tech623•Two facdegree d•Two facprogram	2019-20YTotal=30Ph.DM723culty memberluring 2018-aculty menme during 2	2 Faculty T = 1.Tech 3 7 ers completion 19 & 2019 nbers enno 2018-19 &	018-19TotalFaculty36M.Tech2929eted their Ph. D9-20.rolled in PhD2019-20.
5.5	Innovations by the Faculty in Teaching and Learning	Innovation in teaching- learning is not appreciable and not available on institute website.	 Department online reso learning prod Department the teachin Website. e-resources Lectures notes Lab Videos Swayam link NPTEL Virtual lab 	encourages burces for cess. also provide g- learnin Link of e https://je udent-co https://je df/swaya https://je df/nptl/N https://je df/virtua on%200f	use of IC effective e all inforr g proces e-resource crcfounda <u>rner/notes</u> crcfounda <u>um/Swaya</u> crcfounda <u>um/Swaya</u> crcfounda <u>lpTEL-M</u> crcfounda	T enabled tools, teaching and mation regarding as on institute es ation.com/st videos ation.com/p m-ME.pdf ation.com/p (E.pdf ation.com/p (620expressi rest.pdf

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मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

अभिषद् की अनुशंसा पर मन मोहन सिद्ध

को

विद्या वाचस्पति

की उपाधि प्रदान करता है। णोधप्रबंध णीर्षक एन एम्पिरिकल स्टडी ऑफ एग्रि-फ्रेश फूड सप्लाई चैन क्वालिटी (ए एफ एस सी क्यु) इन सेलेक्ट इण्डियन इंडस्टीज आज भारतीय गणराज्य के अन्तर्गत जयपुर में यह उपाधि दी गई है। दिनांक २९ दिसम्बर, २०१८

Malaviya National Institute of Technology Jaipur

upon the recommendation of the Senate confers on

Man Mohan Siddh

the degree of **Doctor of Philosophy**

Thesis title in An Empirical Study of Agri-fresh Food Supply Chain Quality (AFSCQ) in Select Indian Industries Given this day at Jaipur in the Republic of India The 29th December, 2018



Chairman Senate Chairperson Board of Governors



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Receipt No.: BR	36131	Batch: JUNE 2019	Date: 16/06/2019
lame: Yogesh Dubey		Father Name: Go	pesh Dubey
Program: Ph.D in Engineering		Admission No.: 19PHEN016	Uni. Roll No.: 19PHEN016
S.No.	Account Head		Amount
1	ANNUAL ACADEMIC FEE		30000.000
Currency: INR			Total 30000.000
Total In Words:	INR Thirty Thousand and 2	Zero only	
Instrument Nur	mber: JU/2019/1293	Instrument Date: 15/06/2019	
Instrument's Ba	ank Name: HDFC		
Parent Phone	No.: 9549041790		
Next Due Date	r:		Sudar
Particulars: Fe :30	ees Submitted By: Yogesh Dubey-19Ph 0000.00	EN016 Received By: Yogesh Joshi Sponsorship Amount, Payme	ant Mode: Online ANNUAL ROADEMIC FEE
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<u>S. No</u>	CRITERIA	Observatio <u>n MADE BY</u> <u>NBA</u>	<u>COMPLIANCE STATUS (ACTION TAKEN BY</u> <u>INSTITUTION)</u>
5.6	Faculty as participants in Faculty development/trainin g activities/STTPs	Needs improvement	Faculty members participated in different Faculty development programme/STTPs etc. Link is attached for your kind consideration.

Name of			Duration (from –	
teacher who	Depart	Title of the to) (DD-MM-		
attended	ment	program	YYYY)	LINK
Dr M.P Singh	Mechani cal	WhatsApp Outcome Based Education Faculty Development Program	24/03/2020- 14/04/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/MP1.pdf
Dr M.P Singh	Mechani cal	Inculcating Universal Human Values in Technical Education	03/05/2020- 07/05/2020	http://jecrcfoundation.com/jf- <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/MP2.pdf</u>
Dr M.P Singh	Mechani cal	Hands On Practice on 3D Printing Technology	27/08/2019- 31/08/2019	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/MP3.pdf</u>
Dr M.P Singh	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/MP4.pdf
Dr M.P Singh	Mechani cal	WORKSHOP ON EXAM REFORMS	09/12/2019- 11/12/2019	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/MP5.pdf
Dr M.P Singh	Mechani cal	Advance Material Research	15/06/2020- 19/06/2020	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/MP6.pdf</u>
Dr Fauzia Siddiqui	Mechani cal	WhatsApp Outcome Based Education Faculty Development Program	24/03/2020- 14/04/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/FS1.pdf
Dr Fauzia Siddiqui	Mechani cal	Corrosion and its Control	02/06/2020- 04/06/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/FS2.pdf
Dr Fauzia Siddiqui	Mechani cal	Design, Thinking , Innovation & IPR	09/13/2019- 13/12/2019	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/FS3.pdf
Dr Fauzia Siddiqui	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/FS4.pdf</u>
Dr Fauzia Siddiqui	Mechani cal	Teachers Training Workshop	24/02/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP-

				Certificate/2019-20/FS5.pdf
Dr Bhuvnesh Bhardwaj	Mechani cal	WhatsApp Outcome Based Education Faculty Development Program	24/03/2020- 14/04/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/BB1.pdf
Dr Bhuvnesh Bhardwaj	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/BB2.pdf</u>
Dr Bhuvnesh Bhardwaj	Mechani cal	Advance Material Research	15/06/2020- 19/06/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/BB3.pdf
Dr Manish Shrivastava	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/MS.pdf
Mr Kuldeep Sharma	Mechani cal	WhatsApp Outcome Based Education Faculty Development Program	24/03/2020- 14/04/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/KS1.pdf
Mr Kuldeep Sharma	Mechani cal	Advance Material Research	15/06/2020- 19/06/2020	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/KS2.pdf</u>
Mr Satyendra Kumar	Mechani cal	Welding for Additive Manufacturing	10/06/2020- 15/06/2020	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/SK1.pdf</u>
Mr Satyendra Kumar	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/SK2.pdf
Ms Priti P Bodkhe	Mechani cal	Renewable Energy Utilization	26/05/2020- 30/05/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/PB1.pdf
Mr Tej Bahadur Singh	Mechani cal	Palagarism,Reseac h, Ethics & Patent (PREP)	25/06/2020- 27/062020	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/TB1.pdf</u>
Mr Tej Bahadur Singh	Mechani cal	Additive Manufacturing with Interdisiplinary Applications	29/06/2020- 03/07/2020	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/TB2.pdf</u>
Mr Tej Bahadur Singh	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/TB3.pdf</u>
Mr Tej Bahadur Singh	Mechani cal	CAD- CAM and Advanced Manufacturing	02/03/2020- 07/03/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/TB4.pdf
Mr Yogesh Dubey	Mechani cal	Emerging Trends in Mechanical Engineering	08/06/2020- 12/06/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/YD1.pdf
Mr Yogesh Dubey	Mechani cal	Palagarism,Reseac h, Ethics & Patent (PREP)	25/06/2020- 27/062020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/YD2.pdf
Mr Yogesh Dubey	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/YD3.pdf</u>

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Mr Lalit kr	Mechani	Advanced	02/03/2020-	data/NBA/ME/FDP-
Sharma	cal	Manufacturing	07/03/2020	Certificate/2019-20/LKS2.pd
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Dr Rishi	Mechani		01/06/2020-	data/NBA/ME/FDP-
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Pareek	cal	Manufacturing	20	Certificate/2019-20/RP2.pdf
		6	-	http://iecrcfoundation.com/if
Mr Akhilash	Machani	IOT in	06/01/2020/10/01/20	data/NBA/ME/FDP-
Daliwal	cal	Manufacturing	20	Certificate/2019-20/AP1 pdf
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				<u>http://jecrcioundation.com/ji</u>
Mr Hemant	Mechani	IOT in	06/01/2020/10/01/20	data/NBA/ME/FDP-
Bansal	cal	Manufacturing	20	Certificate/2019-20/HB1.pdf
		Welding for		http://jecrcfoundation.com/jf
Mr Ravi	Mechani	Additive	10/06/2020-	data/NBA/ME/FDP-
Yadav	cal	Manufacturing	15/06/2020	Certificate/2019-20/RY1.pdf
		Recent Advances		http://jecrcfoundation.com/jf
Mr Ravi	Mechani	in Material	23/05/2020-	data/NBA/ME/FDP-
Yadav	cal	Characterization	28/05/2020	Certificate/2019-20/RY2.pdf
				http://jecrcfoundation.com/jf
Mr Ravi	Mechani	IOT in	06/01/2020/10/01/20	data/NBA/ME/FDP-
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MR Hukum	Mechani	Classification using	24/25/2020	<u>data/NDA/ME/FDP-</u>
Chand	cal	MATLAB	24/25/2020	Certificate/2019-20/HCN1.pc
				http://jecrctoundation.com/jf
MR Hukum	Mechani	IOT in	06/01/2020/10/01/20	data/NBA/ME/FDP-
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Mr Nitin	Mechani	Advance Material	15/06/2020-	data/NBA/ME/FDP-
Chabbara	cal	Research	19/06/2020	Certificate/2019-20/NC1.pdf
		Outcome Base		http://jecrcfoundation.com/jf
Mr Nitin	Mechani	Education &	25/05/2020-	data/NBA/ME/FDP-
Chabbara	cal	Accreditation	29/05/2020	Certificate/2019-20/NC2.pdf
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	1	Emerging Trends		nttp://jecrctoundation.com/jf
Mr Nitin	Mechani	in Mechanical	08/06/2020-	data/NBA/ME/FDP-
Chabbara	cal	Engineering	12/06/2020	Certificate/2019-20/NC5.pdf
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Ms Palak Jindal	Mechani cal	Advance Material Research	15/06/2020- 19/06/2020	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/PJ2.pdf</u>
Mr Akhil vijay	Mechani cal	Academic leadership,Teachin g & learning Methods,Research plan,Patents etc	08/06/2020- 15/06/2020	http://jecrcfoundation.com/jf data/NBA/ME/FDP- Certificate/2019-20/AV1.pdf
Mr Akhil vijay	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/AV2.pd</u>
Mr Akhil vijay	Mechani cal	REJUVENATION OF BODY,MIND & SOUL	15/06/2020- 19/06/2020	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/AV3.pd</u>
Mr Akhil vijay	Mechani cal	Mechanical Behaviour of advance material & its scope for Engineering Application	10/06/2020- 14/06/2020	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/AV4.pd</u>
Mr Akhil vijay	Mechani cal	Advances in power switching converters for RES & FT for E- vehicles	01/06/2020- 05/06/2020	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/AV5.pd</u>
Mr Akhil vijay	Mechani cal	Advance Material Research	15/06/2020- 19/06/2020	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/AV6.pd</u>
Mr Akhil vijay	Mechani cal	Artificial Intellenge	22/05/2020- 26/05/2020	http://jecrcfoundation.com/jf <u>data/NBA/ME/FDP-</u> Certificate/2019-20/AV7.pd
Mr Akhil vijay	Mechani cal	Environmental Sustainability and Green Energy	29/06/2020- 03/07/2020	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/AV8.pd</u>
Mr Dayal S Rathore	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	http://jecrcfoundation.com/jf <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/DSR1.pc</u>
Mr Jitendra Gupta	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	http://jecrcfoundation.com/jf data/NBA/ME/FDP- Certificate/2019-20/JG1.pdf
Mr Rajendra Gupta	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	http://jecrcfoundation.com/jf <u>data/NBA/ME/FDP-</u> <u>Certificate/2019-20/RKG1.pc</u>
Mr Ashish Nagpal	Mechani cal	IOT in Manufacturing	06/01/2020/10/01/20 20	http://jecrcfoundation.com/jf data/NBA/ME/FDP- Certificate/2019-20/AN1.pd
Mr Ashish Nagpal	Mechani cal	Advance Material Research	15/06/2020- 19/06/2020	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2019-20/AN2.pdf
Dr Manmohan Siddh	Mechani cal	Application of renewable energy systems-Recent trends and Future aspects	22/06/2020- 27/06/2020	<u>http://jecrcfoundation.com/jf</u> <u>data/NBA/ME/FDP-</u> Certificate/2019-20/MM1.pd

		Emerging Trends		http://jecrcfoundation.com/jf-
Dr Manmohan	Mechani	in Mechanical	8/06/2020-	data/NBA/ME/FDP-
Siddh	cal	Engineering	12/06/2020	Certificate/2019-20/MM2.pdf
				http://jecrcfoundation.com/jf-
Mr Abhishek	Mechani	IOT in	06/01/2020/10/01/20	data/NBA/ME/FDP-
Kumar	cal	Manufacturing	20	Certificate/2019-20/AK1.pdf
				http://jecrcfoundation.com/jf-
Mr Satya	Mechani	IOT in	06/01/2020/10/01/20	data/NBA/ME/FDP-
Prakash Saini	cal	Manufacturing	20	Certificate/2019-20/SPS1.pdf
		Bio energy :		http://jecrcfoundation.com/jf-
Mr Srikant	Mechani	Technologies and	18/05/2020-	data/NBA/ME/FDP-
Bansal	cal	Transitions	22/05/2020	Certificate/2019-20/SB1.pdf

Session -2018-19									
Teachers undergoing online/ face-to-face Faculty Development Programmes (FDP). (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)									
Name of	Name of Duration (from –								
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Mr Hemant	Mechani	Teaching Methodology	03/07/2018- 05/07/2018	data/NBA/ME/FDP-					
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Mr Akhil Vijav	Mechani cal	Teaching Methodology	03/07/2018- 05/07/2018	<u>data/NBA/ME/FDP-</u> Certificate/2018-19/av1.pdf					
Mr Shrikant Bansal	Mechani cal	Teaching Methodology	03/07/2018- 05/07/2018	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2018-19/sb1.pdf					
Ms Palak Jindal	Mechani cal	Teaching Methodology	03/07/2018- 05/07/2018	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2018-19/pj1.pdf					
Mr Kuldeep Sharma	Mechani cal	Teaching Methodology	03/07/2018- 05/07/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2018-19/ks1.pdf</u>					
Mr Tej Bahadur Singh	Mechani cal	Teaching Methodology	03/07/2018- 05/07/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2018-19/tb1.pdf</u>					
Mr Ravi Yadav	Mechani cal	Teaching Methodology	03/07/2018- 05/07/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2018-19/ry1.pdf</u>					
Dr M P Singh	Mechani cal	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2018-19/mp1.pdf					
Dr Fauzia Siddqui	Mechani cal	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- <u>Certificate/2018-19/fs1.pdf</u>					
Dr Manish Shrivastava	Mechani cal	Optimization Techniques with	10/12/2018- 14/12/2018	http://jecrcfoundation.com/jf- data/NBA/ME/FDP-					

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		methods in		
		Engineering for	13/05/2019-	http://iecrcfoundation.com/if-
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Mr Lalit Kr	Mechani	Industries and		$\frac{\text{uata/NBA/WE/FDF-}}{\text{uata/NBA/WE/FDF-}}$
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		Recent advances in	20/06/2010	http://jecrcfoundation.com/jf-
Mr Lalit Kr	Mechani	MechanicalEngine	20/06/2019-	data/NBA/ME/FDP-
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		Engineering	10/12/2018-	http://jecrcfoundation.com/if-
Mr Satvandra	Machani	Applications	14/12/2018	data/NBA/MF/FDP-
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Mr Srikort	Machani	Applications	14/12/2018	data/NRA/MF/FDP-
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Mr Abhishek	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
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Mr Daval	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
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		Engineering	14/12/2018	<u>http://jecicioundation.com/ji-</u>
Mrs Priti	Mechani	Applications	1., 12, 2010	data/NBA/ME/FDP-
Bodkhe	cal	through ICT		Certificate/2018-19/pb1.pdf
		Optimization		
		Techniques with	10/12/2018	
		Engineering	10/12/2018-	http://jecrcfoundation.com/jf-
Mr Rajendra	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
Kr Gupta	cal	through ICT		Certificate/2018-19/rkg1.pdf
		Optimization		
		Techniques with	10/10/0010	
		Engineering	10/12/2018-	http://jecrcfoundation.com/jf-
Mr Akhilesh	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
Paliwal	cal	through ICT		Certificate/2018-19/ap1.pdf
1 411 // 41		Ontimization		<u></u>
		Techniques with		
		Engineering	10/12/2018-	http://jecrcfoundation.com/jf-
Mr Vogesh	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
Duboy	col	through ICT		Certificate/2018-19/vd1 pdf
Dubey	Cal	Ontimization		Certificate/2018-17/yd1.pdf
		Techniques with		
		En ain a anima	10/12/2018-	http://jecrcfoundation.com/if-
		Engineering	14/12/2018	data/NBA/ME/EDD
Mr Hukum	Mechani	Applications		$\frac{\text{data/NDA/ME/PDF}}{\text{Contificate/2018, 10/hom 1, milf}}$
Chand Nagar	cal	through ICT		Certificate/2018-19/hcn1.pdf
		Optimization		
		Techniques with	10/12/2018-	http://jagrafoundation.com/if
		Engineering	14/12/2018	
Mr Nitin	Mechani	Applications	11,12,2010	data/NBA/ME/FDP-
Chabbra	cal	through ICT		Certificate/2018-19/nc1.pdf
		Optimization		
		Techniques with	10/12/2018	
		Engineering	10/12/2010-	http://jecrctoundation.com/jf-
Mr Dilip	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
Prajapati	cal	through ICT		Certificate/2018-19/dp1.pdf
	1	Optimization		
		Techniques with	10/10/2010	
		Engineering	10/12/2018-	http://jecrcfoundation.com/jf-
Mr Jitendra	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
Gupta	cal	through ICT		Certificate/2018-19/ig1.ndf
		Ontimization		
		Techniques with		
		Fngineering	10/12/2018-	http://jecrcfoundation.com/if-
Mr Ravi	Mechani	Applications	14/12/2018	data/NBA/ME/FDP-
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Mr Tej babadur Singh	Mechani	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> Certificate/2018-19/tb2 pdf
bulludur biligir	cui	Ontimization		
Mr Shashank Shekhar Singh	Mechani cal	Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2018-19/sss1.pdf</u>
Mr Gaurav Jain	Mechani cal	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2018-19/gj1.pdf</u>
Mr Ravindra Kumar	Mechani cal	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2018-19/rk1.pdf</u>
Devesh kumar	Mechani cal	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2018-19/dk1.pdf
Ravi kr jangid	Mechani cal	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	<u>http://jecrcfoundation.com/jf-</u> <u>data/NBA/ME/FDP-</u> <u>Certificate/2018-19/rj1.pdf</u>
Rohit Goyal	Mechani cal	Optimization Techniques with Engineering Applications through ICT	10/12/2018- 14/12/2018	http://jecrcfoundation.com/jf- data/NBA/ME/FDP- Certificate/2018-19/rg1.pdf

<u>S. No</u>	CRITERIA	Observation MADE BY NBA	<u>COMPLIANCE STATUS (ACTION TAKEN BY</u> <u>INSTITUTION)</u>
5.7.1	5.7.1 Academic Research	Number of quality publications are fewer, students are yet to be awarded PhD	 Faculty members published research papers in reputed journals (SCI, SCOPUS, UGC approved journals etc.) Also, two faculty members completed their Ph. D degree during 2018-19 & 2019-20. Two faculty members enrolled in PhD programme during 201-19 & 2019-20. (https://jecrefoundation.com/mechanical-engineering/publication)

List of Publications (2018-2020)

S.No.	Title of paper	Name of Author/s	Name of the Journal	Year of Publica tion	ISSN Numbe r	LINK
1	Investigation of Mechanical Properties in Silicon Carbide Fiber Composite	Dr Bhuvnesh Bhardwaj	Manufacturing Engineering, Lecture notes on Multidisciplinary Industrial Engineering, Springer	2019- 2020	978- 981-15- 4619- 8_29	https://doi.org/10.1007/978-981-15-4619-8_29
2	Identification of Drivers and barriers of sustainable manufacturing :Optimization Methods in Engineering	Dr M P Singh	Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore	2019- 2020	978- 981-15- 4549-8	https://doi.org/10.1007/978-981-15-4550-4_14
3	An ISM Approach to Performance Indicators of sustainable Manufacturing through MICMAC analysis in Indian Manufacturing Industry: Optimization Methods in Engineering	Dr M P Singh	Lecture Notes on Multidisciplinary industrial Engineering. Springer, Singapore	2019- 2020	978- 981-15- 4549-8	https://doi.org/10.1007/978-981-15-4550-4_1
4	Ranking of Drivers of Sustainable Manufacturing	Dr M P Singh	International Journal of Recent Technology and Engineering	2019- 2020	2277- 3878	https://www.researchgate.net/publication/339202079_E6077018520
5	Dry sliding wear behaviour of Al 7075/Al2O3/B4C composites using mathematical modelling and statistical analysis	Dr Bhuvnesh Bhardwaj	Material Research Express, IOP Publishing Ltd	2019- 2020	2053- 1591	https://iopscience.iop.org/article/10.1088/2053-1591/ab546a/meta
6	Resin based restorative dental materials: characteristics and future perspectives	Dr Bhuvnesh Bhardwaj	Japanese Dental Science review, Elseveir	2019- 2020	1882- 7616	https://doi.org/10.1016/j.jdsr.2019.09.004

7	Effect of Tool Rotation of Surface Roughness During Electro Discharge Machining of Hastelloy C-276	Dr Bhuvnesh Bhardwaj	Manufacturing Engineering, Lecture notes on Multidisciplinary Industrial Engineering,Springe r	2019- 2020	978- 981-15- 4619- 8_18	https://doi.org/10.1007/978-981-15-4619-8_18
8	Effect of Tool Rotation on Metal Removal Rate During Electro Discharge Machining of Hastelloy C-276	Dr Bhuvnesh Bhardwaj	Manufacturing Engineering, Lecture notes on Multidisciplinary Industrial Engineering, Springer	2019- 2020	978- 981-15- 4619- 8_12	https://doi.org/10.1007/978-981-15-4619-8_12
9	Air Erosion Behavior of SiC - Filled Carbon Fiber -Epoxy Composites	Dr Bhuvnesh Bhardwaj	Manufacturing Engineering, Lecture notes on Multidisciplinary Industrial Engineering, Springer	2019- 2020	978- 981-15- 4619- 8_30	https://doi.org/10.1007/978-981-15-4619-8_30
10	Performance obstacles in sustainable manufacturing - model building and validations	Dr M P Singh	Journal of advances in Management research, EMERALD Publishing	2019- 2020	0972- 7981	https://doi.org/10.1108/JAMR-03-2020-0031
11	Multiresponse Optimization of EDM Machining Parameters Using Taguchi Methodolgy with grey relational analysis	Dr Bhuvnesh Bhardwaj	Optimization Methods in Engineering, Lecture notes on Multidisciplinary Industrial Engineering,Springe r	2019- 2020	978- 981-15- 4550- 2_21	https://doi.org/10.1007/978-981-15-4550-4_21
12	Fast Responsive Soft Bio mimetic robotic Actuator	Mr Rohit Goyal	Materials Today Proceedings,Elseveir	2019- 2020	2214- 7853	https://doi.org/10.1016/j.matpr.2019.05.009

13	Noise reduction of deep groove ball bearing (6205) by process optimization-An Experimental	Dr M P Singh	P International Journal of Engineering and Advanced technology		2249- 8958	https://www.ijeat.org/wp- content/uploads/papers/v8i5/E7112068519.pdf
14	Modelling based experimental investigation on polymerization shrinkage and micro-hardness of nano alumina filled resin based dental material	Dr Bhuvnesh Bhardwaj	Journal of the Mechanical Behavior of Biomedical Materials, Elseveir	2018- 2019	1751- 6161	https://doi.org/10.1016/j.jmbbm.2019.06.026
15	Study of Sliding Wear behavior of alumina oxide filled fiber composite using design of experiment	Dr Bhuvnesh Bhardwaj	Advances in Industrial and production Engineering, Lecture Notes in Mechanical engineering, Springer Nature Singapore	2018- 2019	978- 981-13- 6412-9	https://doi.org/10.1007/978-981-13-6412-9_68
16	Barriers analysis for sustainable manufacturing implementation in Indian manufacturing industries using interpretive structural modelling	Dr M P Singh	International Journal of Advanced Research in Engineering and Technology	2018- 2019	0976- 6480	https://ssrn.com/abstract=3527447
17	Case study on quality control tools for bearing industries	Dr M P Singh	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Case-Study-on-quality-control- tools-for-Bearing-industries.pdf
18	Chargers(EVSE) and their stations with business model for India	Dr Fauzia Siddiqui	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/ELECTRIC-VEHICLE- CHARGERS-EVSE-AND-THEIR-STATIONS-WITH-BUSINESS- MODEL-FOR-INDIA.pdf
19	Identification of micro variables for supply management practices in context of flexible system in Indiana gas industry	Dr Fauzia Siddiqui	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.researchgate.net/publication/316892856_Micro_Variable s_Identification_for_SUPPLY_Chain_Management_Practices_in_Co ntext_of_Flexible_System_in_Indian_Gas_Industry

20	Roadmap for future :Vision 2030 and its impact on Saudi Arabis's Energy sector	Dr Fauzia Siddiqui	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Roadmap-for-future-Vision- 2030-and-its-Impact-on-Saudi-Arabias-Energy-Sector.pdf
21	The Pathway to Zero waste : Case study of Saudia Arabia's Solid waste Management Techniques	Dr Fauzia Siddiqui	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/The-Pathway-to-Zero-Waste- Case-Study-of-Saudii-Arabias-Solid-Waste-Management- Techniques.pdf
22	Review on Process Parameter of EDM & micro EDM	Dr Bhuvnesh Bhardwaj	International Journal of Scientific &Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Review-on-Process-Parameter-of- EDM-micro-EDM.pdf
23	Al 6351 T6 as a Brake Rotor Material	Dr Rishi Pareek	International Journal of Scientific &Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Al-6351-T6-as-a-Brake-Rotor- Material.pdf
24	Comparative analysis of ethanol fuel production from sweet sorghum and sugarcane.	Dr Rishi Pareek	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Comparative-analysis-of-ethanol- fuel-production-from-sweet-sorghum-and-sugarcane.pdf
25	Production of Biogas from Cow Manure by Adding Various Additives	Dr Rishi Pareek	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Production-of-Biogas-from-Cow- Manure-by-Adding-Various-Additives.pdf
26	Ergonomics Blueprint of EOT Crane Cabins : A case study from steel plant within India	Mr Abhishek Kumar	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/onlineResearchPaperViewer.aspx?Ergonomic- Blueprint-of-EOT-Crane-Cabins-A-Case-Study-from-Steel-Plant- within-India.pdf
27	Taguchi Method Approach for Multi Factor Optimization of S1 Tool Steel in Electrochemical Machining	Mr Yogesh Dubey	International Journal of Research and Analytical Reviews	2018- 2019	2348- 1269	https://www.researchgate.net/publication/342246824_Taguchi_Metho d_Approach_for_Multi_Factor_ Optimization_of_S1_Tool_Steel_in_Electrochemical_Machining
28	Ergonomics Blueprint of EOT Crane Cabins : A case study from steel plant within India	Mr Yogesh Dubey	International Journal of Scientific & Engineering	2018- 2019	2229- 5518	https://www.ijser.org/onlineResearchPaperViewer.aspx?Ergonomic- Blueprint-of-EOT-Crane-Cabins-A-Case-Study-from-Steel-Plant-

			Research			within-India.pdf
29	Ergonomics Blueprint of EOT Crane Cabins : A case study from steel plant within India	Mr Rajendra Kr Gupta	International Journal of Scientific & Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/onlineResearchPaperViewer.aspx?Ergonomic- Blueprint-of-EOT-Crane-Cabins-A-Case-Study-from-Steel-Plant- within-India.pdf
30	Review on Process Parameter of EDM & micro EDM	Mr Akhil Vijay	International Journal of Scientific &Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Review-on-Process-Parameter-of- EDM-micro-EDM.pdf
31	Mechanical Stresses distribution in functionally graded material's artificial hip joints implants using mathematical model	Mr Satyendra Kumar	International Journal of Scientific &Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/Computational-Study-of- Distribution-of-Mechanical-Stress-in-Artificially-Replaced-Hip-Joint- Implants-Using-Mathematical-Model.pdf
32	Chargers(EVSE) and their stations with business model for India	Mr Satyendra Kumar	International Journal of Scientific &Engineering Research	2018- 2019	2229- 5518	https://www.ijser.org/researchpaper/ELECTRIC-VEHICLE- CHARGERS-EVSE-AND-THEIR-STATIONS-WITH-BUSINESS- MODEL-FOR-INDIA.pdf

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	<u>COMPLIANCE STATUS (ACTION TAKEN</u> <u>BY INSTITUTION)</u>
5.7 .2	5.7 .2 Sponsored Research	No research funding from outside agencies has been received.	 Mr. Manish Jain, Associate professor, department of mechanical engineering, submitted research project proposals to DST. Other faculty members are working on the project proposals. The submitted research proposal are: 1. Project Title: "Scientific Convention Enhancing learning for students of rural Rajasthan" Agency: Stem India Demonstration Dissemination Popularization, DST Total Cost: 2569000



Shruti Kalra <shrutikalra.ece@jecrc.ac.in>

Acknowledgement of Online Project Submission & Temporary Registration No. 1 message

pmso.dst@nic.in <pmso.dst@nic.in> To: shrutikalra.ece@jecrc.ac.in

Thu, Mar 19, 2020 at 4:34 PM

Department of Science & Technology

Subject: Acknowledgement of Online Project Submission & Temporary Registration No.

Dear Ms. Shruti

	Online Project Management System
42822	onlinedst.gov.in Email: pmso.dst@nic.in
This is to a Enhancin You can tr	acknowledge the online submission of your project proposal entitled Scientific Convention g learning for students of rural Rajasthan testing the proposal submission. ack the status of your proposal quoting the reference as given below:
Temporary	Registration Number : TPN / 47451
You will be	receiving a File Number shortly.
Please me correspond http://onlin	ention TEMPORARY REGISTRATION NUMBER and TITLE OF THE PROJECT in all future dence with DST, till you receive the File Number. You can access this project account a edst.gov.in/ using the Principal Investigator (PI) username and password.
Regards Administra e-PMS	tor
	This is an outo concrated mail. Please do not mate

This is an autogenerated mail from e-PMS

	Part 1 : General Information
eral Information:	
1.Name of the Institute/University/0	Organisation submitting the Project Proposal :
JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE	
2. State	Rajasthan
3. Principal Investigrator Name:	Ms. Shruti
4. Category:	General
5. Type of the Institue :	Academic Institutions (Private)
6. Project Title :	Scientific Convention Enhancing learning for students of rural Rajasthan
7. Division :	NCSTC
8. Programme Or Scheme :	STEMM INDIA DEMONSTRATION DISSEMINATION POPULARIZA
9. Academic Area :	Civil Engineering, Electrical Engineering, Electronics,Computers and Communication Engineering, Mechanical Engineering,
10. Application Area :	Basic Science, Digital technologies, Science Communications,
11. Goverment National Initiative :	Digital India, Innovate India,
12. Type of Proposal :	Proposal Against Call
13. Project Duration :	1 Years and 0 Months
14. Proposal Submit Date :	18/03/2020
15. Project Keywords :	Scientific convention, live project, digital innovations and interventions Robotics,
16. Project Summary :	

Co-Investigator:

1. Name:	Mr. Manish Jain
Gender:	Male
Date of Birth:	25/05/1970
Designation :	Associate Professor
Department:	Mechanical Engineering
Institute/University:	JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE
State:	Rajasthan
District:	Jaipur
City/Place:	JAIPUR
Address:	JECRC Campus, Opp. EPIP Gate Behind Bharat Petroleum Depot, Tonk Road
Pin:	302022
Communication Email:	manishjain.me@jecrc.ac.in
Alternate Email:	mukeshagarwal.cse@jecrc.ac.in
Mobile:	9214699647

011011

Criterion-5 Faculty Information and Contributions							
<u>S.</u> <u>No</u>	CRITERIA	OBSERVATION MADE <u>BY NBA</u>	<u>COMPLIANCE STATUS (ACTION</u> <u>TAKEN BY INSTITUTION)</u>				
5.7.3	5.7.3 Development Activities	Monograms and instructional materials are not up to the mark	Monogram has been inserted on the instructional materials and other documents. <u>https://jecrcfoundation.com/jf- data/NBA/ME/Lab-Manuals/Lab-</u> <u>Manuals-ME.pdf</u>				

S.No	Link
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/3ME4-22-MATERIALS-TESTING-
1	LAB.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/3ME4-23-BASIC-MECHANICAL-
2	ENGINEERING-LAB.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/4ME4-22-FLUID-MECHANICS-
3	LAB.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/4ME4-23-PRODUCTION-
4	PRACTICE-LAB.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/4ME4-24-THEORY-OF-
5	MACHINES-LAB.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/5ME4-22-HEAT-TRANSFER-
6	LAB.pdf
7	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/6ME4-22-VIBRATION-LAB.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/6ME4-24-THERMAL-
8	ENGINEERING-LAB-I.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/7ME4-22-THERMAL-
9	ENGINEERING-LAB-II.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/7ME4-23-QUALITY-CONTROL-
10	LAB.pdf
11	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/8ME5A-CAM-LAB.pdf
12	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/8ME6A-CAD-LAB.pdf
	http://jecrcfoundation.com/jf-data/NBA/ME/Lab-Manual/IFY3-25-2FY3-25-
13	MANUFACTURING-PRACTICES-WORKSHOP.pdf



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Jaipur

LAB MANUAL

Lab	3	MATERIALS TESTING LAB
Lab Code	3	3ME4-22
Branch	:	MECHANICAL ENGINEERING
Year	8	2 nd YEAR



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Department of Mechanical Engineering Jaipur Engineering College and Research Centre, Jaipur (RTU, Kota)



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Jaipur

EXPERIMENT 1

Objective: Study of various crystals structures through models of BCC, FCC, HCP, tetrahedral and octahedral voids.

Introduction: In crystallography, crystal structure is a description of the ordered arrangement of atoms, ions or molecules in a crystalline material. Ordered structures occur from the intrinsic nature of the constituent particles to form symmetric patterns that repeat along the principal directions of three-dimensional space in matter. The smallest group of particles in the material that constitutes the repeating pattern is the unit cell of the structure. The unit cell completely defines the symmetry and structure of the entire crystal lattice, which is built up by repetitive translation of the unit cell along its principal axes. The repeating patterns are said to be located at the points of the Bravais lattice. The lengths of the principal axes, or edges, of the unit cell and the angles between them are the lattice constants, also called lattice parameters. The symmetry properties of the crystal are described by the concept of space groups. All possible symmetric arrangements of particles in three-dimensional space may be described by the 230 space groups. The crystal structure and symmetry play a critical role in determining many physical properties, such as cleavage, electronic band structure, and optical transparency.

Unit Cell: Crystal structure is described in terms of the geometry of arrangement of particles in the unit cell. The unit cell is defined as the smallest repeating unit having the full symmetry of the crystal structure.^[4] The geometry of the unit cell is defined as a parallelepiped, providing six lattice parameters taken as the lengths of the cell edges (a, b, c) and the angles between them (α , β , γ). The positions of particles inside the unit cell are described by the fractional coordinates (x_i, y_i, z_i) along the cell edges, measured from a reference point. It is only necessary to report the coordinates of a smallest asymmetric subset of particles. This group of particles may be chosen so that it occupies the smallest physical space, which means that not all particles need to be physically located inside the boundaries given by the lattice parameters.


Session: 2018-19

5.7.4	5.7.4 Consultancy (From Industry)	No industrial consultancy in assessment years observed.	Consultancy Less than 1,00000
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S.No.	Name of faculty	Name of organization to which consultancy provided	Nature of work	Amount
1	Dr. M.P.Singh	RAYFUEL ENERCON Pvt. Ltd.	Winch test	8000/-
2	Mr. Manish jain	RAYFUEL ENERCON Pvt. Ltd	Winch test	8000/-
	Mr. Kuldeep Sharma	M/s Balaji Associates	Die design	5000/-
3	Dr. Bhivnesh Bhardwaj	R tekhno solution	Manufacturing	25000/-
4	Mr. Satyendra Kumar	Bhagwati drug company	Chemical testing	Nil
5	Mrs. Palak Jindal	Jindal tech infrastructure pvt ltd.	Structure	Nil

<u>S.</u>	CRITERIA	OBSERVATION	<u>COMPLIANCE STATUS (ACTION TAKEN</u>
<u>No</u>		MADE BY NBA	<u>BY INSTITUTION)</u>
5.8	Faculty Performance and appraisal and development system (FPADS)	Complicated Performa has been developed Concrete data to show implementation of process lacks no proper implementation.	 Faculty appraisal form has been revised. The performance of each employee is assessed annually. The outcome of the performance appraisal will reflect in the annual increment, incentives and the promotion of the faculty. Also, appreciation/ advisory are given to faculty members according to their performance. Appraisal system motivates the faculty members for higher study. During 2018-19 & 2019-20, five faculty members enrolled in PhD programme.

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JEERL AMPHIN COULAGEN AND RESEARCH CENTRE		Jaipur Engineering college and research centre, Shri Ram ki Nangal, via Sitapura RIICO Jaipur- 302 022.			idemic year- <u>Jon</u>	
		FACULTY APPRAISAL FOR	W			
		Total 200 points				
N L	Name of Faculty Memb	er: Nitin Chasma Program	Departme	inti (meeh. C	ngg .
. No.		Item Name	Maxim Point	um s	Points obtained	Annexure attached with page
1	Total theory subjects Minimum 2 subjects with 15 points each p 1 subject in a semest will be 15 only and r 4 each with equal dia (a) 60% students b (b) 60% students b (c) 60% students b (d) 60% students b	a taught during the session1.T.I. are to be assigned to a faculty member per semester. If a faculty member is taking er then the points assigned in this section emaining will be assigned to section 2 and tribution. aving B grade in	30		7.5	1
-	Research Publication, publication: 15 points approved: 10 points, 1 presentation in Interna presentation in Nation	SCI / Scopus / web of science indexed , publication having ISSN / UGC National level publication: 5 points/ Paper utional conference = 10 points/ Paper al Conference = 5 points	30	2	0	2-4
	Faculty development programme for attending 2 days wor	programme 10 point average (one faculty e minimum 5 days attended 5 points, 2 points kshop, subject to maximum of 10)	10		To	5-6
	Research grants averag 5 lakhs, 15 points for only project submittee Books published with published with Nationa	te 20 points for having grant of more than 2-5 lakhs, and 5 points up to 2 lakhs. If d to DST/other govt. agency: 5 points. International publisher 10 points. Books d publisher 5 points.	20		-	-
	Patent 10 points / Prod	act development (10)	20		10/	7-9
New Skills (Training, value added courses) 5 points / additional specialization 5 points / certification course (Coursera, Swayam, NPTEL etc.) 5 points. *In what way the new skills will be utilized for the benefit of students* (Summarize in a separate Paper).		15		15	10-13	
II	nnovation in teaching	earning 5 points, video lecture 5 points,	20		15	Inc

ethics of Just Br points (Updating of course content/Preparation of resource material/Laboratory Manual, Developing and imparting Remedial courses/ Make up classes/ Conduction of computer assisted teaching/web based learning) 8 Technical activity organized/Participated (1 point / activity) 5 16-20 5 (Guest lecture, Seminar/Webimar, Technical fest, Educational tour, Industry visit, publication of magazine/ newsletter in departmental) 0 Projects guided based on the idea of SIH/Project based 10 learning/Industrial project Institute level activity organized / participated (1 point / 10 activity) (sports, cultural fest, social activities such as flood and 5 2 21drought relief, orphanage home and old age home relief or any other similar activity) Any award received (1 point), session chair in conference (1 11 5 1 point), guest lecture (1 point), invited talk (1 point), appreciation letter (1 point), External Examiner, BoS etc. 23-24 12 30 HOD recommendation (i) (Outcome Based Knowledge) (Check list MTT Performa) (10)(ii) Departmental Responsibilities (10) Mentor/class, coordinator, Examination incharge/Coordinator 25-26 8 Lab Incharge, Time Table Incharge, NAAC/NBA coordinator TPO, Social Incharge, Project coordinator, Seminar coordinator (iii)Students feedback course exit and teaching learning (10)200 Total 105 50. erified kyleAc Note: HOD will verify the documentary proof. Nither alaby Signature of HOD IOAC Signature of Faculty Signature of Principal Note: Faculty member getting ZERO in critera-1 or criteria-2 for the consecutive three years (CAY, CAY-1, CAY-2) appropriate action will be taken. As per RTU 'B' Grade means marks range 70 to 75%

	Office	To : Mr. ?	Nitin Chhabra, ME	
				12.02.2021
		APPRECIATION	LETTER	
vir. Nitin Assistant .	Chhabra Professor			
		Through Program Coor	dinator/HOD	
Congratu	lations!			
As per the valuated of 200.	faculty self a by the IQAC	opraisal report submitte and found satisfactory.	d by you for the You have scored	session 2019-20 has total 108 points out
nstitute a	oppreciates eff ce in the years	orts & association. W to come.	e hope that yo	u will sustain such
erforman		10P -		
erforman PI scores	of previous y			
erforman (PI scores) 2017-18	of previous y			
erforman (PI scores) 2017-18 71/200	2018-19 117/200		Jak	-11
erforman (Pl score) 2017-18 71/200	of previous y 2018-19 117/200	Au s	13/2/21	PRINCIPAL

Jaipur Engineering College & Research Centre

From : OS Office	To ; Mr. Satyendra Kumar, ME

12.09.2020

APPRECIATION LETTER

Mr. Satyendra Kumar Assistant Professor

Through Program Coordinator/HOD

As per the faculty appraisal form submitted by you for the session 2019-20 has been found satisfactory. You have scored total 129 points out of 200. College appreciates your effort and hope that you will continue to improve.

API scores of previous year:

2017-18	2018-19
117/200	122/200

0

Copy In -I. Vice Chainman 2. Director 3. Concerned Program coordinator/HDD 4. Concerned faculty member 5. Personal file

Jaipur Engineering College & Research Centre

From : OS Office	To : Mr. Abhishek Kumar, ME

28/08/19

Advisory Note

Mr. Abhishek Kumar Assistant Professor

0

0

Through Program Coordinator/HOD

As per the faculty appraisal form submitted by you for the session 2018-19, you have scored total 88 points out of 200. You are hereby advised to improve your performance during the session 2019-20.

API scores of previous year: -

2016-17	2017-18
86/200	90/200

V. CUN PRINCIPAL

Vice Chairman Director Concerned Program coordinator/HOD

- 4. Concerned faculty member 3. Bersonal File

JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE

JEERL

00 No:- 211 Date: - 14/2/2019

OFFICE ORDER

The Salary of Dr. Man Mohan Siddh, Assistant Professor, Department of Mechanical Engineering is hereby revised from Rs. 33978/- to Rs. 50000/- w.e.f 01.02.2019, on acquiring the Ph.D degree along with change of the Grade Pay .

Dr. Man Mohan Siddh will also get a sum of Rs. 5000/- as an annual increment for the next three years. The DOI will remain unchanged.

Now, his restructured salary shall be as under-

- 1. Pay-27697/-
- 2. AGP-8000/- (Basic Pay=27697+8000=35697/-)
- 3. DA@20% on BP -7139/-
- 4. HRA @7.5% 2677/-
- 5. Special Allowance -4486/- Total -50000/-

Principal

Copy to: -

- 1. Vice-Chairman, JECRC
- 2. Director, JECRC
- 3. HoD, ME
- 4. Dr. Man Mohan Siddh, AP, ME
- 5. Accounts Department
- 6. OS/ Personal file.



Het JECRO (00 / 38 (1)/2019-20)

Date: 15/10/19

OFFICE ORDER

Dr. Man Mohan Siddh, Assistant Professor, Department of Mechanical Engineering is hereby promoted to Associate Professor w.e.f 01.11.2019 under the pay Scale of 37400-67000, AGP 9000, on the same salary and terms & conditions.

New Salary bifurcation shall be as under -

- 1. Pay-37400/-
- 2. AGP-9000/- (Basic Pay=37400+9000=46400/-)
- 3. HRA @7.5% 3480/-
- 4. Special Allowance -120/- Total -50000/-

Date of Increment will remain unchanged.

Copy to: -

- 1. Vice Chairman, JECRC
- 2. Director, JECRC
- 3. HoD, ME
- 4. Dr. Man Mohan Siddh, Assistant Professor, ME
- 5. Accounts Department
- 6. OS/ Personal file.



Jaipur Engineering College and Research Centre Approach by ACTE & Atlantic In RTM JECRC Compus. Shri Ram Ki Nangal. Via Sitapura RIICO, Opp. EPIP Gate, Tonk Road, Jaipur 302 022 t. 0141 2770120, 2770232 et info@jeccmail.com



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR (Institution of National Importance under NITs Act, Established by Govt. of India) मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर JLN Marg, Jaipur-302017 (India)

		Academic Section		
	Provisiona	al Admission Letter 2020	-21	
Name of the Student:	LALIT KUMAR SHARMA			100
Contact No:	9413417182			25
Father's Name:	BAL KRISHNA SHARMA			
Permanent Adress:	Gopal Bhawan, Ward No. 7, Ph JAIPUR - 303338	nulera		A
E-Mail:	erlksjecrc@gmail.com			
Department:	MECHANICAL ENGINEER	ING		
Program:	Ph.D			1
Specilization:				X
ID No:	2020RME9060			
Institute E-Mail Id:	2020RME9060@mnit.ac.ii	n		
Institute Contacts:				
Academic Section:	AR/DR	E	-Mail:	erp.acad@mnit.ac.in
Head of the Departme	ent: MURARI LA	L MITTAL E	-Mail:	mlmittal.mech@mnit.ac.in
DRGC Convener:		E	-Mail:	
Supervisor:		E	-Mail:	
Pending Documents				

Instructions:

____, 2020, failing which your admission is liable to 1. You are required to submit the "pending documents" before ____ be cancelled.

2. The Institute domain e-mail id and password shall be sent to your e-mail.

3. Enterprise Resource Planning (ERP) login and password shall be sent to your Institute e-mail id. ERP is the web based application for academic and administrative processes in the Institute (www.mniterp.org). 5. For Hostel allotment, Submit your Fee receipt in the hostel office. For further information, e-mail: hosteloffice@mnit.ac.in, Contact:

6. Hostel allotment priority: 1st Priority: Persons with differential ability (PWD); 2nd Priority: Persons from Abroad; 3rd Priority: Persons from 09549891444 (M) outside Rajasthan; 4th Priority: Persons from outside Jaipur.

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Student Signature This is a Computer generated document printed on 122.15.2.242 @ 23-09-2020 13:50.37 Academic Section

10-2001
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122
1230
ALULD YOUR WORLD

JECRC University Plot No. 15-2036 to 2039, Ramchandrapura Industrial Area, Vidhani, Sitapura Extension, Jaipur - 303905, Rajasthan, India Phone: 0141 - 6565602, 2771519 Email: info@jecrcuniversity.edu in Approved by UGC (Estd.Under the Act No.15-2012 of the GOR)

Fee Receipt (Bank) Batch: JUNE 2019

Date: 16/06/2019

n No.: 19PHEN016 Uni. Roll No.: 19PHEN016

STUDENT COPY

Receipt No.: BR36131 Name: Yogesh Dubey

Father Name: Gopesh Dubey

ogram: Ph.D in Engineerin

S.No.	Account Head			Amount
1	ANNUAL ACADEMIC FEE			30000.000
Currency: IN	NR		Total	30000.000
Total In Wo	ords: INR Thirty Thousand and Ze	ero only		
Instrument	Number: JU/2019/1293	Instrument Date: 15/06/2019		
Instrument's Bank Name: HDFC				
Parent Pho	one No.: 9549041790			
Next Due I	Date:			Sudar
Particulars	Fees Submitted By: Yogesh Dubey-19PHE :30000.00	N016 Received By: Yogesh Joshi Sponsorship Amount.,Pa	syment Mode: Online ANN	HAL ADADEMIC FEE

Criterion-6: Facilities and Technical Support					
<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	COMPLIANCE STATUS (ACTION TAKEN BY <u>INSTITUTION)</u>		
6.2	Additional Facilities created for improving the quality of learning experience in Laboratories	Research lab facilities are not available.	 Research facilities are available in department whereas equipments and software worth rupees 50 lakh provided to institute by industry partners Baba Automobile Pvt. Limited and CADD centre, Jaipur. Department has two Industry supported laboratories viz. Automobile research laboratory (Equipment worth rupees 50 Lakh is provided by the Baba Automobile Pvt. Limited) and Machine design laboratory (related software are provided by CADD centre, Jaipur). (https://jecrcfoundation.com/jecrc-foundation-mou-with-industry) Various training and activities are carried out through these laboratories for skill enhancement for students as well as placement/start-up opportunity Signed MOU with Bharatiya Skill University for training on advanced machines. 		

Details of training Centre Equipments / Cars / Engine and Auxiliaries

FOUR- WHEELER CAR SECTION (Rs. 11 - Lakhs)

MERCEDES BENZ Working car for Practical or Scanning Purpose. (Rs. 8 -lakhs)
 TATA SAFARI / SEDAN Car for Practical Session. (3 lakhs)

FOUR- WHEELER ENGINE SECTION (Rs. 14 Lakhs)

- AUDI- V-6 Twin Turbocharged Diesel Engine (2.5 lakhs)
- 4. AUDI- V-6 Twin Turbocharged Petrol Engine. (2.5 lakhs)
- 5. MERCEDES Engine (3 lakhs)
- 6. BMW Automatic Transmission (1.5 lakhs)
- Maruti Suzuki 4- Cylinder Diesel Engine. (1 -lakh)
- 8. Tata Safari Diesel Engine (1 lakh)
- 9. Tata Indigo Diesel Engine. (75,000)
- 10. Honda City Diesel Engine. (75,000)
- 11 Skoda Car Engine. (1 lakh)

FOUR- WHEELER TRANSMISSION SECTION. (5 -lakh)

- 12. Front Wheel Drive AUDI Automatic transmission. (1.5 lakhs)
- 13. Rear Wheel Drive MERCEDES Automatic Transmission. (1.5 lakhs)
- 14. Maruti Suzuki 5 Speed Manual Transmission. (1 -lakh)
- 15.Honda Rear Wheel Drive Manual transmission. (1 -lakh)

FOUR- WHEELER STEERING SYSTEM SECTION . (2 -lakh)

- Manual Steering Sytem with Rack Pinion Arrangement. (45,000)
- 17. power Steering system with Rack Pinion Arrangement. (45,000)
- Maruti Suzuki cars ELECTRIC Steering System (55,000)
- Toyota cars ELECTRIC Steering System (55,000)

FOUR- WHEELER DIFFERENTIAL SYSTEM SECTION .(4 lakhs)

- 20. Maruti Suzuki Rear Wheel Drive Differential System. (45,000)
- 21. Tata Cars front Wheel Drive Differential System. (55,000)
- 22. MERCEDES BENZ INDEPENDENT Limited Slip Advanced Differential. (1.5 lakh:
- 23 .Electric Vehicle Differential system with Electric Motors. (1.5 lakhs)

FOUR- WHEELER BRAKING & SUSPENSION SYSTEM SECTION.(4 lakhs)

- 24. Front Wheel DUAL DISK Braking System (40,000)
- 25. Rear Wheel DRUM Braking System (40,000)
- 26. MERCEDES BENZ Brake Vacuum Booster (70,000)
- 27. MERCEDES BENZ ABS (Anti Braking System Unit) (1.5 lakhs)
- 28. AUDI E-B-D (Equal Braking Distribution) System. (1 lakh)

FOUR- WHEELER AIR BAG & OTHER AUXILIARIES SYSTEM SECTION. (4.15 Lakhs)

- 29. MERCEDES BENZ Steering Air Bag System (1-lakh)
- 30. MERCEDES BENZ Side Windows Air Bag System (50,000)
- 31. Car Engine Self Starter Motor for Engine Starting (35000)
- 32. Car Engine Alternator System for Battery Charging.(35000)
- 35. Air Filter Units.(10,000)
- 36. Carburetor Systems.(10.000)
- 37. Fuel Injector Systems. (75000)
- 38. and Some Other Auxiliaries systems. (1 lakh)

TWO - WHEELER CAR SECTION (6.7 Lakhs)

- 39 .BAJAJ Pulsar-220 CC Engine (30,000)
- 40. TVS Apache 180 CC Engine. (30,000)
- 41. LML Freedom 125 CC Engine. (30,000)
- 42. HONDA Eterno Engine. (30,000)
- 43. TVS Victor 150 CC Engine. (30,000)
- 44. HONDA Activa 110 CC Engine (30,000)
- 45. HONDA Shine 125 CC Engine (30,000)
- 46. BAJAJ Discover 150 CC Engine (30,000)
- 47. TVS MAX 100 2 Stroke. (30,000)
- 48. Rajdoot 2 stroke. (30,000)
- 50. START BIKE FOR PRACTICAL SESSION (30,000)
- 51.START SCOOTY FOR PRACTICAL SESSION (30,000)
- 52. ELECTRIC WORKING 2-Wheeler for Electric Vehicle Development Training. (30,000)
- 53. Wiring System. (40,000)
- 54. Suspension System. (20,000)
- 55. Carburetion Systems. (20,000)
- 56. FI Systems. (20,000)
- 57. Sensors Systems. (60,000)
- 58. Self-starting and Charging System. (20,000)
- 59. Tuning of 2- wheelers. (40,000)
- 60. and Other all Systems of 2- wheeler. (60,000)

Memorandum of Understanding

Returns

Raba Automobile Pvt. Ltd., Jaipur

Arrest

JECRE Foundation, Jaipur

This Memorandum of Understanding (MOU) sets the terms and understanding between Raba Ratomobile Pvt. Ltd. and RCRC Foundation for prevision of Automobile Center of Excellence at RCRC Callege, Julpor Rej.

This MOU will be applicable to arrange the facilities to students of 8.Tech and Optomo Mechanical, Electrical, Automobile (Mi year) to participate in Automobile Truining/Interrethig.

The above goals will be accomplished by undertaking the following activity

- 1. That Baby Automobile Pot. Ltd. will arrange all the facilities to conduct automobile training for all students of E.Tech E. Diplome. Mechanical, Electrical (All year) students. Details of origines which will be autilable for training are as follows are mentioned in tabular forms
- 2. That all apparatus, engines, tools, shall be arranged by Baba Automobile Is the premises of JECRE College to provide in depth knowledge of above amploots.
- it. That the training duration will be throughout the year is pur time table providual by head of department [actc] interpretive of the time
- 4. That the lab space and Cabin space for Automobile faculties will be provided by HCRC College.
- 5. That as ISO certified certificate or any other study resterial will be provided by Babo Automobile on the completion of training.

Balighter

Buchton

and and

14000

- 6. Maintenance cost of all components will be bear by liabs automobile.
- 3. Spess Sanday and holiday will be utilized for training on mutual torsent.



List of 2-wheeter tracted

2-Wheeler Engines	4- Wheeler Engines
1. Bojaj Pulsar-320 cc engine.	ill. Herp Honde passient.
2. Hoeda Shire Engine:	 Bajaj Discover Engine.
3: Hero Solendor Engine.	30. Bajaj Platinia
4. LML Freedom 150 of engine.	31. Tvs Spert Engine.
5. Tvs Assertis: Empired.	32. Tvo Water Engine
6. Honda Activa Automatic CVT Engine.	33. Honida Linicare Degine.
2. Sciently English	34. Automatic CVT Engine

List of 4-vehicelet Engineer

#- phoselet Engines	4- Wheeler Englishs
1. ALES V-R Petrol English	8. MARLET SALERY 3 CHARGES PETROL INSIDE
3. BLEEK V 45 Decid Empire	 Marati Scauki 4-cylinder Petrol Inglei.
1. MERCEDES DERIZ CHERK	11. Heyundal Verna CROI Englise.
4. BRITH ALTYRIANS, "WARNARD MICH.	1.2. Tatis include Car Program.
S. MADE STAN AUTOMATIC TRANSPORTER	12. Tasoda dimel Teginal
6. TATA SAMAN DEPART INCOME.	 Hyundar Cardinord Engine
1. Malersona scorino metal sino Mi	14. Shesia Can Engine.
15. TATA lough LB- schender thart Engree.	Die Tata Tryck Engine hie Practical.

List Start Car, Biles, Scouty,

- Tys Victor one Start Bike.
- > 1M1 Freedom one Start Bile
- Hern/Honsta/Rajaj and Start Bile.
- Honda Active one start Scenty.
- > MENCEDES BENZ CAR for Practical & Overheading

List of Tool, Machines, Accessories.

- Westing Machine.
- > Grinding chacking.
- Cutting Machine.
- a Unilly Machine.
- Open Spanners, 50: Nos.
- Close Spanner 50 Nos.
- > Aud Entire Secolal Totals.
- Mercelles Engine Special Tests.
- Automatic Transmission Special Tools. > 4 - Wheeler Deferential Septem.
- · Power Steering/ ELECTRICAL STEERING Service

- * Electromagnetic Juspiension Medal.
- > 85-8,85-6.5ystem
- > SCU Systems With TextRig Institute Including.
- > S-DCU for Dectoral trees, Stellents.
- ir thesh Baselon Systems. > OraM Stoke System.
- > CROMPTLSystem.
- > Air bac system

Presented Terrist & Constituents

- A security amount of Rs 5 takts given to Bate Automobile
- assourity screaunt 5 Labor pay of the time of signing MOU (by chequal NEPT/WTGB is favour of namesia batta automobile put hid or batta externation).
- > The duration of lab instellation Bled be anaximum 30 days after signing NOU.
- Becarity associat 5 labels reliand to joon, college at the final of MOU without any depreciation.
- 20% Answert of total fee received by cetalde statistics shall be share of JDCRC & will be transferred to JECRC sic at the end of month and rest 80 % share will be of Bobs Automobile.

this MOU is at will may be modified by mutual consent of outburged officials from Balas Autoesobile and SCRC. This MOU shall become effective upon signature by the authorized efficials from Baba automobile and XEORC and will remain in effect for minimum one year and can be further extended by mutual content.

to the absence of mazaal agreement by the outborized afficials from Babe Automobile and ECRC, this MOU shall end after provision of training.

Reuniroments.

- 1. Souce for English
- Faculty Sitting Area/office.
 Sustable Furniture Sr Engines
 Space for Tools
 Light Facility
- 6. Basner, loosding, fax arranged by college.

Dal station

Concast Industriant

Balta Associatellic Tvt. Lal. Mr. Nicearch Ballot Director.

Possep Nugar, Juiper, Rejasthaw Conduct: +89-STWALD9925

Br. V. H. Changes Principal Jacob Shat same hit more set to only a int bigur Contant . 9.831406 754

Dated ST2/1020 Stores ALL DALLE DAT A. Brade of Part Parted Director, Gabe Autor

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Karth Muhai (Training Field)

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Counter Spred By Manaa Tes

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) entered on 30th Oct.-2017. By and Between

CADD Centre Training Services Pvt. Ltd. Chennai, having its local office at No. 106-107 Mahima Majesty, Ram Gali No. 6, Raja Park Jaipur. (hereinafter referred as "CADD Centre" for the sake of brevity) and represented by its Centre head, – Mr. Rajeev Bhargava which expression shall mean and include its successors in office and assigns.

And

Principal, JECRC Tonk Road, Jaipur, Rajasthan, (herein after referred as "JECRC" represented by its Dr. Vinay Kumar Chandna (Principal), which expression shall mean and include its successors in office and assigns.

Objective of the program:

In today's world, CAD-CAM has become an indispensable skill required to make every professional employable and productive in the work place. The objective of the training program is:

- To train the students of JECRC Jaipur at their college campus for CAD and 3D printing by "CADD CENTRE"
- To train the students of JECRC Jaipur on the concepts and soft tools of CAD CAM, as per the industrial / corporate requirements.
- To facilitate them to excel in their workplace.
- To bridge the skill gap between the individuals and the industry.

Course Fees and Training Program Detail:-

As per annexure 1

COURSEWARE

CADD Centre's Curriculum & Product development (CPD) team develops the courseware. Each book is conceived, prepared and printed after a thorough research on industry specific courses. The team consists of engineers, industry, experts who are involved in the development of courseware. The course material is developed specially

2 V. Plas

for instructor-lead training as well as self-study material. The CPD team reviews the curriculum and updates as needed. Every student who enrolls for a course is provided with a reference manual which is of World Class Standards, comprehensive in coverage and with a nice layout that pleases the eyes!

SUBJECTS:

THEORY PRACTICALS / LAB

PROJECT BASED ASSESMENT:

Students are encouraged to work on their own projects during the training program. Projectbased learning helps students to learn the subject and understand to meet the international standards. Project-based learning encourages students to use information, ideas, skill, to answer real-world questions and solve them. Projects will be assessed by the instructor.

The advantages of project-based learning:

- > Provides real-world orientation.
- > Encourages higher-order thinking skills.
- Allows the instructor to be a facilitator of learning.
- Provides for ongoing student self-assessment.

CADD Centre through its Raja Park, Jaipur Shall Provide

- The proprietary and internationally acclaimed CADD Centre course material to each Student.
- Provide qualified trainers for the course.
- Periodical assessments of students for their further improvement.
- Certificate of Completion will provided to every student who will successfully complete the training program.
- CADD Centre will provide "Certificate of Association" between CADD Centre with JECRC Jaipur.
- Permit JECRC Jaipur to use CADD Centre logo as the Skill Development Partner.

VOUD



BHARTIYA SKILL DEVELOPMENT UNIVERSITY, JAIPUR

SCHOOL OF MANUFACTURING SKILLS

JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE JAIPUR (JECRC) represented by its BJ.V.K.Charbee

WHEREAS:

- A) The BSDU is engaged in providing skills training in various faculties based on Swiss Dual System of Skills Training. The BSDU awards certificates, diplomas, advance diplomas and B. Voc. Degrees to students after 10+2 schooling. It also awards M. Voc. And Ph.D. Degrees to the Candidates. BSDU has a flexible program and students can enter/exit at any time. The whole curriculum has been aligned to UGC/AICTE/NSDC/Sector councils.
- B) The JECRC is an engineering college approved by AICTE & affiliated to Rajasthan Technical University, Kota focused on undergraduate and graduate programs, and research.
- C) Both the institutions intend to cooperate and focus their efforts on cooperation within areas of Training, Education, Research and Development.
- D) Both the institutions being legal entities in themselves desire to sign this MOU for advancing their mutual interests.

NOW THEREFORE, IN COSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, BOTH THE INSTITUTIONS HERE AGREE AS FOLLOWS:

CLAUSE 1

CO-OPERATION

- Both the institutions are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operation within the institutions and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- The co-operation between BSDU and JECRC will facilitate effective utilization of the intellectual capabilities of the both Parties providing significant inputs to them in developing suitable teaching/ training systems, keeping in mind the needs of each other.
- 3. The general terms of co-operation shall be governed by this MOU. Both shall cooperate with each and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties, Along with the Definitive Documents. This MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

Jul 1stration

MEMORANDUM OF UNDERSTANDING GETTING ASSOCIATED FOR INTELLECTUAL PROPERTY ACTIVITIES WITH JECRCCOLLEGE

This Memorandum of Understanding (MoU) is made on this Tuesday, the 24th day of December 2019 by and between

JECRC College having its main campus address asPlot No. IS-2036 to IS-2039 Ramchandrapura Industrial Area Jaipur, Sitapura, Vidhani, Rajasthan 303905(hereinafter referred to as 'JECRCCollege', which expression shall include their subsidiaries, branch offices, associations, administrator, legal heirs, group institutions, etc.).

AND

Verispire Inc., a California, (USA) registered companythrough its Indian entity Verispire Technologies pvt. Ltd. (herein after referred to as 'Verispire') having its offices at C-25, Second Floor, Sector 8, Noida, Uttar Pradesh 201301, which expression shall include their subsidiaries, branch offices, associations, administrator, legal heirs, etc.

BACKGROUND: 1.

- Verispire is an intellectual property consulting company engaged in creating valuable 1.1. business assets for our clients by safeguarding their intellectual property. We provide the best in class and wide array of intellectual property consulting services to our clients worldwide.
- 1.2. JECRC College has its campus in Jaipur, the capital city of Rajasthan and the famous tourist and business city in north-western India. The 32-acre JU campus combines unique classical architecture and thoughtful layout and landscaping to create a perfect learning ecosystem. JECRC College is driven by the spirit of innovation-led research. This is spelt out in infrastructure as well as practices.
- 1.3. Verispire also conducts hands-on workshops, lecture series and seminars to educate and train the in-house personnel of companies, educational institutions, government and semigovernment bodies towards aspects of creation, management and commercialization of IP.
- 1.4. Whereas, JECRC COLLEGE is desirous of getting associated with Verispire for Developing Innovation and Research initiatives or streamlining existing IP process, if any with the following primary objectives:

1.4.1. Facilitate in developing IPCurate Labs with all the activities mentioned in the proposal and mutually agreed (Annexure A) Facilitate patent searching, drafting and patent filing.

- 1,4.2.
- 1.4.3. Facilitate in patent prosecution cycle
- 1.4.4. Provide complete IP management
- 1.4.5. 1.4.6.
- Encourage creativity and innovation. Provide other IP filings (Trademark, Design, Copyright, etc), the time taken to do each task mentioned clearly in Annexure C

N PO PRINCIPAL laca &

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	<u>COMPLIANCE STATUS (ACTION TAKEN</u> <u>BY INSTITUTION)</u>
6.3	Laboratories: Maintenance and overall ambience	Maintenance of equipment like shaper, bearing machine, dynamics lab is not carried out in last one years, 3-4 equipment's are not functioning.	All the equipments are in working conditions. Routine maintenance of equipments is carried out by the technicians. The appraisal of technicians also includes their involvement in the maintenance and repair of lab equipment. Also, Lab audit has been carried out before the commencement of the Session. <u>https://www.jecrcfoundation.com/pdf/iqac-audit- report/ME%20Audit%20Report.pdf</u>



JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE

10010200

JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Jaipur

Department of Mochanical Engineering NOTICE

Date: 25-07-2019

Subject: Lab Audit Schedule

Lab sudit in reference to stock will be conducted from 09-08-2019 to 17-08-2019. As per the below list all are requested to update and verify their respective lab stock registers, lab manuals, insistemance records in accordance with latest RTU syllabus and available machines.

Sr.No.	LAB.	IN-CHARGE
1	MFW	MM I There
2	BME	DSR Fat
3	MT	HCN - M
4	PP .	MM/RKQ -
5	TOM	LKS U
6	FM	SPS
7	TE	RK &
8	HT	PB W
9	PE	PJ felor E
10	IE	SB Shall
11	VE	DK
12	FEM	SK 6
13	CAM	HB/LKS JEOJ
14	CAD	RY 192
15	CIMS ME	LKS/HB
15	CAEG/CAMD/MD	NC -
17	MATTAR	RG EN

Audit metabers: 1. Dr. Rishi Paroek 2. Mr. Ravindra Kumar

Head of Department Head of the Department Mechanical Engloateling JECRC, Jalpar

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

ANY COLOR COLOR

JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Jaipur

Department of Mechanical Engineering

	Lab Audit Report
Name of Laboratory: Many faituesing	Practices workshop (Welding Shop)
Lab Incharge: Dr. May Mohan	Siddhi
Lab Technician: M& Norendly S	i+gn
Audit member: D . 02019	Scation: 2019-20
KING MEMOLI. D. E. KISH PATECK & I	No Ravindeg Kumoz

Sr. No.	Comments	Lab In charge (Signature)
1	JECRCIME/WS/WS/03 Under mintenance (lead to be fitted)	ian Ma.
1	Sticker marking 01A, 03, 04, 06, 07, 11, 16, 19	Leon
-	Refiling of Char yeinder	Lenvoy
5	Whate show eastering this show a show and	Lonver
6	opaare stock register (New Stock entry on stock register)	16/0/20
1	")	
9	y y	
10	No -	
udit (Sigi	members nature) Jon Asin Poular	Head of Department (Signature)
	V ON He	ad of the Monorim

AND RESEARCH CENTRE JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE					
-	JECRC Campus, Shri I	Ram Ki Nangal, Via-Vatika, Jaipur			
	Department of Lab Aut	of Mechanical Engineering			
Nan Lab Lab Aud Mer	ae of Laboratory: Manufacturing Pr Incharge: Dr. Man Mohan Siddh Technician: Mr. Narendra Singh lit Date: 16-08 - 2019 Session: 201 nbers of Staff Present: 1. Dr. Rishi	actice/Workshop (Welding Shop) 9-20 Pareek			
	2. Ravindra	Kumar			
Sr. No.	2. Ravindra Comments	Action Taken	Rema		
Sr. No.	Z. Ravindra Comments JECRC/ME/WS/WS/ 03 under maintenance (Lead to be fitted)	Action Taken Lab auditor informed the concerned technical staff for maintenance of JECRC/ME/WS/ 03	Rema		
Sr. No. 1	Z. Ravindra Comments JECRC/ME/WS/WS/ 03 under maintenance (Lead to be fitted) Sticker marking 01A,03,04,0 6,07,11,16,19	Action Taken Lab auditor informed the concerned technical staff for maintenance of JECRC/ME/WS/WS/ 03 Lab auditor informed the concerned technical staff for marking	Rema Done Done		
Sr. No. 1 2 3	2. Ravindra Comments JECRC/ME/WS/WS/ 03 under maintenance (Lead to be fitted) Sticker marking 01A,03,04,0 6,07,11,16,19 Refilling of gas cylinder	Action Taken Lab auditor informed the concerned technical staff for maintenance of JECRC/ME/WS/WS/03 Lab auditor informed the concerned technical staff for marking Letter send to HOD regarding approval of gas cylinder refilling	Rema Done Done Approve		
Sr. No. 1 2 3 4	2. Ravindra Comments JECRC/ME/WS/WS/ 03 under maintenance (Lead to be fitted) Sticker marking 01A,03,04,0 6,07,11,16,19 Refilling of gas cylinder One gas regulator damage	Action Taken Lab auditor informed the concerned technical staff for maintenance of JECRC/ME/WS/WS/03 Lab auditor informed the concerned technical staff for marking Letter send to HOD regarding approval of gas cylinder refilling Letter send to HOD regarding repair of gas regulator	Rema Done Done Approve for refill Approve		

S. NO CRITERI A OBSERVATION MADE BY NBA COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION) Image: Strate in the strate includes in the strate	Criterion-7 Continuous Improvement						
Actions taken based on the results ofTarget for most pos how to have been shown to have been industry requirements is not pos and PSOsI. Workshops and FDP on OBE are conducted for faculty members by Rajasthan Technical university in 	<u>S.</u> <u>No</u>	CRITERI A	OBSERVATION MADE BY NBA	<u>COMPLIAN</u>	<u>CE STATU</u> <u>INSTIT</u>	S (ACTION UTION)	TAKEN BY
9. In deportmental discussion, deportment desided the	7.1	Actions taken based on the results of evaluation of each of the COs, POs and PSOs	Target for most POs/ PSOs are shown to have been attained with less understanding. Action to bridge the gap for mechanical industry requirements is not exercised thoroughly.	1. Workshops an members by association with 2. Department has subjects and P preparing relation them to map department calcu- mapping accordi Average mapping (m) m < 0.5 $0.5 \le m \le 1$ $1 < m \le 2$ $2 < m \le 3$ 3. Each faculty includes vision, between CO-PO of slow learner mapped with CO marking, assign student's perform faculty members 4. Weightage of the yearly apprai 5. IQAC ensure members through 6. To attain the F the syllabus has different activiti achieve the targe 7. The topics through experi- learning. Academic 2 Year Delivery of topics beyond	ad FDP on O Rajasthan NBA and th as provided Os/PSOs Os/PSOs Os/PSOs COs with alated avera ng to below Value given 0 1 2 3 member n mission, co PSO, evaluand fast lea Os, solution nent to weal nance etc., f * Knowledge sal form of f s the know h interaction Os/PSOs, s s been ider es have bee total diagonal 2017-18	BE are cond Technical rough NITT a sheet conta a all faculty D-PO/PSO m all POs/PS ge mapping mentioned c Rela maintains a purse outcom ation of CC rner, internal of QBE is faculty memiliedge about s. ystematically nainfield and e O/PSOs attai labus have rming and 2018-19 27	ucted for faculty university in TR ,Chandigarh. ining COs of all y members for natrices and ask Os. After that and assign final riteria. evel of tionship No Low edium High course file that ness, relationship Ds, identification question paper paper with step formation about understanding of also included in pers. OBE to faculty v content beyond delivered. Also, and executed to nment. been delivered participative 2019-20 28

modes of de identified th in the dej commencent These are syllabus. Delivery methods Add-on courses / worksho ps	elivery of topic beyond the syllabus which are arough feedback of stake holders and included partmental academic calendar before the nent of session. the modes of delivery of topics beyond Link <u>https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2018-19/2018- 19-vehicle-dyanammics.pdf</u> <u>https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2018-19/2018- 19-workshop-3D-Printing- Feb% 202019.pdf</u> <u>https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019-20/2019- 20% 20Vehicle% 20dyanammics.pdf</u> <u>https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019-20/2019- 20% 20Vehicle% 20dyanammics.pdf</u> <u>https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019-20/2019- 20-3D% 20printing-faculty-trainig.pdf</u>
	https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019-20/2019- 20-Automobile-faculty%20trainig.pdf
Guest lectures by the industry person	https://jecrcfoundation.com/jf- data/NBA/ME/Guest-Lecture/2019- 20/Guest-Lectures-2019-20.pdf
Industria 1 visit s	https://jecrcfoundation.com/jf- data/NBA/ME/Industrial-Visit/Industrial- Visits-2019-20.pdf
Confere nces	https://www.jecrcfoundation.com/pdf/conf rence-reports/ME%202015-2020.pdf
Technic al clubs/ activities	https://jecrcfoundation.com/jf- data/NBA/ME/MoonRider/Annual%20Re port%202019-20.pdf https://jecrcfoundation.com/jf- data/NBA/ME/MoonRider/Annual-Report- 2018-19.pdf

	The content beyond the syllabus was delivered through
	guest lectures by the industry person, industrial visits,
	add-on courses, workshops, conferences, lectures of
	course teacher and presentation of student's project etc.

	Guest Lecture					
Year	Date	Guest name and topic	Website Link			
2019	27.08.2019	Sh. Rajeev Bhargava, Mechanical CAD	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/27-Aug-2019-Report-CADD-CENTER.pdf			
2019	27.08.2019	Sh. Himanshu Shrivastava, Application of Fluid Mechanics in Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/27-Aug-2019-Report-ENGINEERS-ACADEMY.pdf			
2019	04.09.2019	Sh. Bhawani Singh, Introduction and Application of MATLAB	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/04-Sep-2019-Report-PVAS.pdf			
2019	06.09.2019	Sh. Rajeev Bhargava, Practical Applications and Industrial Uses of Mechanical CAD	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/06-Sep-2019-Report-CADD-CENTER-02.pdf			
2019	09.10.2019	Sh. Alon Tal, Design Optimization of Functionally Graded Dental Implant for Bone Remodelling	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/09-Oct-2019-Report-UG-Scholar.pdf			
2020	23.01.2020	Sh. Ravi Kumar Swami, Application of AutoCAD, CATIA, Solidworks and ANSYS software in the Manufacturing Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/23-JANUARY-2020-Report-CADEMATE-01.pdf			
2020	24.01.2020	Sh. Girish Kumar, Importance of AutoCAD, CATIA,Solidworks in the Manufacturing Industry	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/24-JANUARY-2020-Report-CADDESK.pdf			
2020	25.01.2020	Sh. Ravi Kumar Swami, Application of AutoCAD, CATIA, Solidworks and ANSYS software in the Manufacturing Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/25-JANUARY-2020-Report-CADEMATE-02.pdf			
2020	12.02.2020	Sh. Diwjendra Srivastava, How to Prepare for CAT and GRE	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/12-FEBRUARY-2020-Report-IMS.pdf			
2020	13.02.2020	Sh. Harsh Babel, Careers in Automotive Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/13-FEBRUARY-2020-Report-HARSH-BABEL.pdf			
2020	14.02.2020	Sh. Ravindra Dhewa, Importance of digital marketing	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/14-FEBRUARY-2020-Report-Digital-Marketing.pdf			
2020	16.02.2020	Sh. Vaibhav Kamalkaka, New Technologies Challenge in Automative Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/16-FEBRUARY-2020-Report-VAIBHAV-KAMALKAKA.pdf			
2020	03.03.2020	Sh. Gaurav Dadheech, Start-Up in the in Automotive World and Electric Vehicle Scenario in India	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/03-MARCH-2020-Report-GAURAV-DADHEECH.pdf			

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S.No	year	lopic	Link
1	2018	1 nd International Conference on Recent	https://jecrcfoundation.com/jf-
		Innovations & Technological Development in	data/Conference/ICRITDME-
		Mechanical Engineering ICRITDME - 2018	<u>2018.pdf</u>
2	2019	1 st National Conference On Futuristic	
		Trends in Mechanical Engineering NCFTME-	https://jecrcfoundation.com/jf-
		2019 16-17 March, 2019	data/Conference/NCFTME-2019.pdf
3	2019	2 nd International Conference on Recent	https://jecrcfoundation.com/jf-
		Innovations & Technological Development in	data/Conference/ICRITDME-
		Mechanical Engineering ICRITDME - 2019	<u>2019.pdf</u>
4	2020	3rd International Conference on Recent	
		Innovations & Technological Development in	https://jecrcfoundation.com/jf-
		Mechanical Engineering ICRITDME - 2020	data/Conference/ICRITDME-
		Recent Innovations & Technological	<u>2020.pdf</u>
		Development in	
		Mechanical Engineering ICRITDME-2020	
5	2020	2 nd National Conference on Euturistic	https://jecrcfoundation.com/if-
	2020	Trends in Mechanical Engineering	data/Conference/NCETME-2020 pdf
		NCFTME - 2020	



Event Site



Photo taken on the last day of event

<u>S.</u> <u>No</u>	CRITERIA	<u>Observatio</u> <u>n MADE BY</u> <u>NBA</u>	<u>COMPLIANCE STATUS (ACTION TAKEN BY</u> <u>INSTITUTION)</u>
7.2	Academic Audit and actions taken during the period of Assessment	Process of academic audit needs deeper understanding and strengthening.	Academic and administrative audit has been carried out in the department where internal and external auditor audited the department academic performance. Report is attached in link for your kind consideration. <u>https://jecrcfoundation.com/pdf/iqac-audit- report/ME%20Audit%20Report.pdf</u> <u>https://jecrcfoundation.com/pdf/Green%20Audit%20File.pdf</u> <u>https://jecrcfoundation.com/pdf/Energy%20Audit%20File.pdf</u> <u>https://jecrcfoundation.com/pdf/Energy%20Audit%20File.pdf</u>

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INTERNAL AUDIT CORRECTION REPORT

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36.	Observation	Type	Cerroction
1	Canania Eda (Mr Shelkmer Franzal)	52	Devidence
2	Academic Disry (Mt Raul Valen)	101	Canademail
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	Mugping of all subjects	52	Manuface Thomas
5.0	Industry Seedback com	-01	Maintained by TRO

50	Observation	20.64	Correlation
3	A P Actobratic process		Clement in 18002
2	Catarial File	16.8	Committee
2	PO self PEOs and ED and PMP's	51	Constant
4	In Assigning	10.1	And an appropriate the second se
t - 1	Number: Southurk manipuls insides	100	A subject of
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e	Rennalia/Levierry	The electrony	Completed
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23	Departmental Library datable	Franci OFC	Maintained in self-copy & familing
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<u>S.</u> <u>No</u>	CRITERIA	OBSERVATION MADE BY NBA	COMPLIANCE S	STATUS (ACT)	ION TAKEN BY	INSTITUTION)
7.3			Average Pay package l 2018-19. Also placeme % as compared to acad	has been increas ent index in the emic year2018-	e 19.3% as comp academic year 2 19.	ared to academic year 019-20 increases 37.4
			4.8			
			4.6			
	Improvement	Pay package has	4.4			_
	In Placement, Higher Studies	on year and less	4.2			_
	and Entrepreneur	are conductingcampu	4			
		s drive.	3.8			_
			3.6	_	_	
			3.4	2017-18	2018-2019	2019-2020
			Avg. Package(Lakhs)	3.88	3.89	4.63
			https://jecrcfoundation.	.com/placement-	-stats	

	COMPANY WISE-PLACED STUDENT LIST(2019-20)						
S. No.	University Roll No.	Name	Company Placed	email	Contact No.		
1	16EJCME0 01	ABHISHEK GUPTA	Pinnacle	agabhigupta64@g mail.com	7820834839		
2	16EJCME0 03	ABHISHEK RAJPUT	GR INFRA, HG INFRA	abhishekrajput042 @gmail.com	7231846537		
3	16EJCME0 05	ADITYA SANADHYA	Pinnacle	adityasanadhya55 5@gmail.com	9660066516		
4	16EJCME0 09	AMIT KUMAR TINKAR	BABA Automobile	amittinkar.ak@gm ail.com	8955459388		
5	16EJCME0 11	ANKIT KUMAWAT	Marvel Infocomm Pvt. Ltd.	ankitkumawat201 4@gmail.com	7232086279		
6	16EJCME0 13	ANKUR MITTAL	TCS NQT, RDC, GR INFRA	ankurmittal24199 7@gmail.com	9680604148		
7	16EJCME0 14	ANSHUMAN PACHOLI	Accenture	anshumansharma5 8@gmail.com	9928347936		
8	16EJCME0 17	ARPIT CHOUDHARY	TCS-Codevita, Asahi India Glass LTD., Accenture Pool Drive	arpit.kargwal@gm ail.com	7891092070		
9	16EJCME0 18	ARPIT KASLIWAL	Accenture	arpitkasliwal26@g mail.com	8058045622		
10	16EJCME0 20	ASHOK KUMAR SAINI	Marvel Infocomm Pvt. Ltd.	ashoksaini030819 98@gmail.com	8387024263		
11	16EJCME0 21	ASHUTOSH MEWARA	Accenture	anshumewara10@ gmail.com	7568065612		
12	16EJCME0 24	AUGUSTIN JOY MARKER	Marvel Infocomm Pvt. Ltd.	lazyaugustin@gm ail.com	7239804702		
13	16EJCME0 27	BHARAT KHANDELWAL	Accenture	khandelwalbharat0 1@gmail.com	9460060693		
14	16EJCME0 28	CHIRAG MAHESHWARI	Pinnacle, Accenture Pool Drive	chiragmaheshwari 23@gmail.com	9782849436		
15	16EJCME0 31	DATTATREY SINGH SHEKHAWAT	Accenture	dattatrey.ds@gmai 1.com	8696996411		
16	16EJCME0 32	DEEPAK KURUP	Pinnacle	deepakkurup21@g mail.com	9680907312		
17	16EJCME0 37	DIVIK MATHUR	TCS NQT	mathurdivik@gma il.com	7568692563		
18	16EJCME0 38	EKANT LABANA	BABA Automobile	ekantlabana64@g mail.com	8005599226		
19	16EJCME0 39	HARDEEP SINGH GULYAR	THRILOPHILIA, BYJU	hardeepsinghhd98 @gmail.com	9649172521		
20	16EJCME0 40	HIMANSHU CHHAPARWAL	HG INFRA - Waiting	chhaparwalhimans hu10@gmail.com	9509875607		
21	16EJCME0 41	HIMANSHU JAIN	Accenture	jainhimanshu2407 @gmail.com	9587078882		
22	16EJCME0 42	HIMANSHU JAIN	BABA Automobile	hjbainara124@gm ail.com	7611929171		

23	16EJCME0 45	HIMANSHU SINGHAL	Pinnacle	krzysinghal@gmai l.com	9413806771
24	16EJCME0 47	JAYANT SOTI	Pinnacle	jayantsoti@gmail. com	9829063391
25	16EJCME0 50	KISHAN KUMAWAT	Pinnacle	kkumawat195@g mail.com	8824115525
26	16EJCME0 51	KOMAL KUMAR	Marvel Infocomm Pvt. Ltd.	komal241197@g mail.com	6376940005
27	16EJCME0 52	KRISHNA AGARWAL	HG INFRA	kagarwal258@gm ail.com	8209621335
28	16EJCME0 54	LAKSHYARAJ SINGH RATHORE	ALIBABA - TDI	lakshyarajsinghrat hore.2016@gmail. com	8890758898
29	16EJCME0 56	LOKESH DHYAWANA MEENA	Accenture	lmeena619@gmail .com	7062141023
30	16EJCME0 58	LOVEKESH GUPTA	Accenture	lovekeshlove18@ gmail.com	9079573819
31	16EJCME0 64	MOHAMMED SAQUIB KHAN	Accenture, TCS NQT	mohammedsaquib khan@gmail.com	7073907831
32	16EJCME0 65	MOHD ASIF KHAN	GR INFRA, HG INFRA	asifkhan27031998 @gmail.com	6375685916
33	16EJCME0 68	NEEL RAJ KAUSHIK	Pinnacle, TCS NQT	neilkaushik193@g mail.com	9079793800
34	16EJCME0 71	PANKAJ JANGID	BABA Automobile	pankajjangid504@ gmail.com	9782769543
35	16EJCME0 73	PIYUSH GIRI	Accenture Pool Drive	piyushgiri85@gm ail.com	7792803436
36	16EJCME0 74	POONAM KUMARI	Pinnacle	yadavpoonam199 7@gmail.com	7690934452
37	16EJCME0 76	RAHUL KHANDELWAL	GR INFRA	rahulkhandelwal7 37@gmail.com	9928066375
38	16EJCME0 80	RAJAT GUPTA	Creditas	rajatguptasanark@ gmail.com	9649004804
39	16EJCME0 83	RISHABH AHIR	ALIBABA - TDI	rishabhaheer@gm ail.com	7568627124
40	16EJCME0 84	RISHABH BHARDWAJ	GR INFRA, HG INFRA	rishabhB717898@ gmail.com	7976310424
41	16EJCME0 85	RISHABH DUTT SHARMA	Accenture, TCS NQT	rishabhdsharma@ gmail.com	9462511671
42	16EJCME0 86	ROHIT GEHLOT	Pinnacle	gehlotrohit86@gm ail.com	7725954612
43	16EJCME0 90	SANJEEV KUMAR	Marvel Infocomm Pvt. Ltd.	sanjeevkumar8312 0@gmail.com	7976545927
44	16EJCME0 93	SAURABH PANDEY	BABA Automobile	saurabhramdev11 @gmail.com	8949571265
45	16EJCME0 95	SAURABH SADARANGANI	Accenture	saurabhsadarangan i@gmail.com	7737375749
46	16EJCME0 97	SHAILENDRA SHARMA	TCS NQT	shailendra.reso@g mail.com	9462706509
47	16EJCME1 00	SHUBHAM GARG	GR INFRA	subh.grg@gmail.c om	8560868638
48	16EJCME1 01	SHUBHAM KATTA	Pinnacle	shubhamkatta123 @gmail.com	9799217345

49	16EJCME1 02	SHUBHAM KHANDELWAL	Accenture	khandelwalshubha m5775@gmail.co m	9460293481
50	16EJCME1 03	SHUBHAM NAGAR	GR INFRA, HG INFRA	nagarshubham0@ gmail.com	8505025629
51	16EJCME1 07	SHYAM LAL MISHRA	GR INFRA, HG INFRA - Waiting	shyamlalmishra44 9@gmail.com	7877739994
52	16EJCME1 08	SHYAM PRATAP SINGH RATHORE	GR INFRA, HG INFRA	shyampratapsingh 009@gmail.com	9610055551
53	16EJCME1 09	SPARSH BHATIA	ALIBABA - TDI	sanchit.sparsh@g mail.com	9587742407
54	16EJCME1 10	SUBHAM AGARWAL	TCS NQT	subhamagarwal28 03@gmail.com	9782211556
55	16EJCME1 12	SURYANSH MAHESHWARI	ALIBABA - TDI	yhurkat@gmail.co m	9672982704
56	16EJCME1 16	TARUN DUBEY	Accenture	tarundubeyphy@g mail.com	9461055663
57	16EJCME1 18	UDAISHAYA SHARMA	ALIBABA - TDI	udaishaya138@g mail.com	7014266855
58	16EJCME1 19	USAMA SHERWANI	Pinnacle, TCS NQT	usamasherwani.2 mech20@jecrc.ac. in	7790843175
59	16EJCME1 22	VINIT SHARMA	Marvel Infocomm Pvt. Ltd.	vinitsharma467@ gmail.com	9461836660
60	16EJCME1 24	VISHAL CHOUDHARY	TCS NQT	vishalc0@hotmail. com	7737424888
61	16EJCME1 25	VISHAL MITTAL	Accenture, TCS NQT	vishal.98m31@y mail.com	9529110172
62	16EJCME1 26	YASH JAITAWAT	Accenture	yashjaitawat1998 @gmail.com	7023382688
63	16EJCME1 27	ZAID ALI ANSARI	HG INFRA - Waiting	zaidali1307@gmai l.com	7737778459
64	16EJCME3 00	MADAN GARG	HG INFRA - Waiting	madangarg1999@ gmail.com	7615860963
65	17EJCME2 02	KULDEEP MATHUR	BABA Automobile	kuldeepmathur96 @gmail.com	9461810132
66	16EJCME7 00	ABHISHEK JAIN	HG INFRA - Waiting	abhishekjain2699 @gmail.com	9549305115
67	16EJCME7 01	ADITI GUPTA	Pinnacle	aditiguptajecrc@g mail.com	8233222695
68	16EJCME7 02	ALEX ABHINAV ANAND	Pinnacle	alexanand444@g mail.com	9414442999
69	16EJCME7 03	ANIL JASWANI	BABA Automobile	aniljaswani3@gm ail.com	9929180801
70	16EJCME7 05	AVNISH BHARDWAJ	ALIBABA - TDI	avnish.ab20@gma il.com	8809410751
71	16EJCME7 07	BHARAT SINGHAL	Accenture	bharatsinghal.9@g mail.com	8560012996
72	16EJCME7 14	DIVYANSH SHRANGI	Pinnacle	divyanshshrangi98 @gmail.com	8005956512
73	16EJCME7 18	HANUMAN SINGH	HG INFRA - Waiting	hanuman171998si ngh@gmail.com	9783381936
74	16EJCME7 19	HEMENDRA SINGH RAO	BABA Automobile	hemendrasingh19 99@icloud.com	8769494970

75	16EJCME7 20	HIMANSHU JOSHI	ALIBABA - TDI	jhimanshu820@g mail.com	8094566398
76	16EJCME7 23	KESHAV BHARDWAJ	TCS NQT	kbhardwaj751@g mail.com	9587969096
77	16EJCME7 25	LAVNEET JHASAL	TCS NQT	loveyjhasal@gmai l.com	7222831382
78	16EJCME7 27	MANISH SHARMA	HG INFRA	manishsharma050 897@gmail.com	7014265525
79	16EJCME7 28	MOHIT MENARIA	Accenture	mohitmenaria1998 @gmail.com	7821966091
80	16EJCME7 30	NAVENDU SHEKHAR PANDEY	Accenture	navendu.shekhar.2 6@hotmail.com	7488486724
81	16EJCME7 31	NIKHIL SHARMA	Accenture	nikhil07Sharma07 @gmail.com	7597619745
82	16EJCME7 37	PUNIT CHOUDHARY	HG INFRA	punit4choudhary @gmail.com	9057758457
83	16EJCME7 47	SHUBHAM LOHOMI	Creditas	shubhamlohomi@ gmail.com	9460658106
84	16EJCME7 50	SUMIT JAIN	Pinnacle	sumitj2223@gmai 1.com	9116887933
85	16EJCME7 53	VAIBHAV PARAKH	BABA Automobile	vparakh009@gma il.com	9461234499
86	16EJCME7 54	VARUN GAUTAM	TCS NQT	Varungjecrc@gma il.com	9001722983
87	16EJCME7 56	YASH DANGI	ALIBABA - TDI	yashdangi95@gm ail.com	8107489690
88	16EJCME7 57	YOGESH KUMAR DWIVEDI	Accenture	yogesh240499dwi vedi@gmail.com	9454142193

	COMPANY WISE-PLACED STUDENT LIST (2018-19)						
S. No	University Roll No.	Name	Company Placed	email	Contact_no		
1	15EJCME0 01	Aayush kumar agrawal	Pinnacle and TCS	agrawal400aayush@gmai l.com	8385994833		
2	15EJCME0 05	Abhishek kumar	TRADING BELLS, FEV	abhikr2303@gmail.com	8441064731		
3	15EJCME0 08	Aditya Agarwal	PIN click	aditya998372@gmail.co m	9983725046		
4	15EJCME0 09	Aditya agrawal	Pinnacle	adityaagrawal01996@gm ail.com	9602645801		
5	15EJCME0 10	Aditya jain	Pinnacle	jainaditya0002@gmail.co m	8233805515		
6	15EJCME0 11	Aditya Sharma	Just Dial	shrm.adityasharma@gma il.com	8949050776		
7	15EJCME0 13	Akash sharma	OFF CAMPUS- ASHOK LEYLAND	akash.070597@gmail.co m	9001372587		
8	15EJCME0 17	Amarjeet kumar	Paramount Research	kumarjeetamar26@gmail. com	9664255996		
9	15EJCME0 20	Anirudh Singh Chouhan	PIN click	anirudhsinghchouhan21 @gmail.com	8829944312		

10	15EJCME0 21	ANKIT khandelwal	Paramount Research	ankitkh7575@gmail.com	9024711814
11	15EJCME0 24	Arpit khandelwal	Just Dial	khandelwalarpit1996@g mail.com	7340405011
12	15EJCME0 26	Ashish prajapat	Appeal Group	ashpotter254@gmail.com	9680481013
13	15EJCME0 28	Bhanu prakash gupta	Pinnacle	bhanu.gupta456@gmail.c om	7877024029
14	15EJCME0 31	Chandra prakash fulwani	Pinnacle, FEV	chandraprakashfulwani.m ech19@jecrc.ac.in	9829043901
15	15EJCME0 36	Devendra pratap yadav	Paramount Research	dpyadav4599@gmail.co m	8769547333
16	15EJCME0 37	Devesh lala	Paramount Research	lala.devesh12@gmail.co m	9649635550
17	15EJCME0 38	Dhruv Raj Purohit	Just Dial	dhruvrajpurohit95@gmai 1.com	7073502793
18	15EJCME0 39	divyank rathi	GAE (Gulati Auto Electricals)	divyankrathi.mech19@je crc.ac.in	9672769801
19	15EJCME0 43	Harsh Mantri	Just Dial	harshmantri555@gmail.c om	8947864713
20	15EJCME0 45	Harshit jain	TRADING BELLS	hjain1329@gmail.com	8560951045
21	15EJCME0 49	Himanshu bansal	Paramount Research	bansalhimanshu331@gm ail.com	8094514686
22	15EJCME0 50	Himanshu Jangir	Pinnacle,FEV	himanshujangir97@gmail .com	9928534804
23	15EJCME0 51	Himanshu pagariya	GAE (Gulati Auto Electricals)	himanshupagariya@gmai l.com	9799230300
24	15EJCME0 63	manish kumar	PIN click	manish15091996@gmail. com	7903185272
25	15EJCME0 66	Mayank Sharma	Pinnacle	mayank.sharma170497@ gmail.com	9571053364
26	15EJCME0 68	Md shahbaz akhtar	Aquatronics	shahbaz6238@gmail.com	7891709756
27	15EJCME0 73	Mohit agrawal	Appeal Group	agrawalmohit.mech19@g mail.com	7742175164
28	15EJCME0 74	Mohit Chandani	Just Dial	mohitchandani2013@gm ail.com	7062690716
29	15EJCME0 76	MOHIT SHARMA	Pinnacle	mohitsharma.mech19@je crc.ac.in	7220098733
30	15EJCME0 78	MUKESH KUMAR CHOUDHARY	Just Dial	mukesh29121997@gmail .com	9521510098
31	15EJCME0 80	NIKHIL GUPTA	TRADING BELLS	guptanikhil632@gmail.co m	9782142097
32	15EJCME0 83	PANKAJ MAHARSHI	OFF CAMPUS - TCS	pankajmaharshi98.pm@g mail.com	7073902935
33	15EJCME0 87	PIYUSH GUPTA	Pinnacle	piyush9797gupta@gmail. com	9649604060
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37	15EJCME0 99	RAM SUKHWAL	TRADING BELLS	ramsukhwal0098@gmail. com	9929329244
38	15EJCME1 01	RISHABH GOYAL	Paramount Research	rishabhgoyal2610@gmail .com	8955769538
39	15EJCME1 02	RISHAV VATSA	Paramount Research	rishavvatsa.mech19@jecr c.ac.in	9829983721
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45	15EJCME1 13	SUBHAM GARG	Just Dial	shubhamgarg.as@gmail.c om	7688977790
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47	15EJCME1 19	VIKAS YADAV	TRADING BELLS	vikasyadav1800@gmail.c om	8426089174
48	15EJCME1 20	YADUNANDA N GAUTAM	Paramount Research	luckygautam265@gmail. com	7742510199
49	15EJCME1 21	YAGYESH SHARMA	Smart Circle Group	yeshsharma85@gmail.co m	8769014511
50	15EJCME1 24	YOGESH KUMAWAT	Paramount Research	yogeshkumawat480@gm ail.com	9782980094
51	15EJCME1 25	YOGESH YADAV	TRADING BELLS	yogeshsyadav24@gmail. com	8559909689
52	15EJCME1 26	YUVRAJ SHARMA	Paramount Research	sharmayuvraj891@gmail. com	9571913211
53	15EJCME3 00	DEVENDRA SINGH	TRADING BELLS, Jaro Education	singhd554@gmail.com	7733937997
54	15EJCME3 01	RAJAT SHRIVASTAV	TRADING BELLS	rajats570@gmail.com	7737327301
55	15EJCME3 02	AVINS NAVEEN ANAND	Smart Circle Group	avinsnaveen@gmail.com	7877524974
56	15EJCME3 03	ASHIT KHANDELWA L	Paramount Research	ashit97gupta@gmail.com	761000756
57	15EJCME3 04	SHWEKITA SOLANKI	Just Dial	shwekita25solanki@gmai l.com	9982449708
58	16EJCME2 00	ADITYA RAJ	JRBS	adityathakur1129@gmail. com	7903493988
59	16EJCME2 03	DEEPAK KUMAR	TRADING BELLS	me16deepak@gmail.com	7665216824
60	16EJCME2 04	HIMANK DAVE	Just Dial	himankdave1998@gmail. com	8769998691
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62	15EJCME7 05	ANUJ TIWARI	Just Dial	anujtiwari770@gmail.co m	7728052364
63	15EJCME7 09	DEEPAK JHUDANI	Pinnacle	jhudanideepak@gmail.co m	8890243987
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65	15EJCME7 18	KRISHAN KANT GUPTA	TRADING BELLS	krishankant.gupta1998@ gmail.com	9636441536
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67	15EJCME7 21	MANISH KUMAR SHARMA	Just Dial	ms733954@gmail.com	9782455192
68	15EJCME7 22	MANISH SAIN	FEV	manishsain639@gmail.co m	9680357494
69	15EJCME7 23	MOHEMMAD AMAN LUHAR	Pinnacle, FEV	amankhanjaipur172@gm ail.com	8442053751
70	15EJCME7 24	MOHIT VAISHNAV	Acadmica Guru	mohitkumarvaishnav125 @gmail.com	9079806455
71	15EJCME7 25	MOHSIN KHAN	Pinnacle, FEV	mohsink607@gmail.com	8947098838
72	15EJCME7 32	NISHANT GUPTA	PIN click	nishantg1225@gmail.co m	8949343866
73	15EJCME7 36	PIYUSH PURSNANI	Pinnacle	piyushpursnani7@gmail. com	7062178572
74	15EJCME7 37	PRATYUSH BHARDWAJ	Pinnacle	manu19973k12@gmail.c om	9549938874
75	15EJCME7 38	PRINCE KUMAR SHARMA	Paramount Research	prince.sh29@gmail.com	9828941454
76	15EJCME7 40	PURU PRADHUMN SEN	Smart Circle Group	pradhumn.sen1995@gma il.com	9828459332
77	15EJCME7 46	SHUBHAM WADHWA	FEV	shubham.24.wadhwa@g mail.com	8742897880
78	15EJCME7 47	SUDHANSHU RANJAN	Paramount Research	shudhanshu.ranjan01@g mail.com	9450061622
79	15EJCME7 49	SURAJ PRAJAPATI	Just Dial	prajapatisuraj399@gmail. com	9694565854
80	15EJCME7 51	VIJAY KANT GAUR	Pinnacle	vijaykant0700@gmail.co m	8561031898
81	15EJCME7 55	YOGESH PANDEY	BYJU	yogesh6pandey@gmail.c om	9506794590
82	16EJCME9 02	NAMAN VIJAYVARGIY A	Just Dial	namanvijayvargiya007@ gmail.com	7877056036

Criteria 8 First Year Academics

S. No. Criteria	Observations made by NBA (During the last accreditation visit)	Compliance Status (Action taken by the institution)
8.4.1 8.4.1 Describ the assessmen processes use to gather the data upon which the evaluation of Course Outcomes of first year is based	 Limited assessment processes & tools used; no proper bench mark/ target was in place for computing CO attainment; and only CIE marks are used to measure CO attainments, hence not a valid procedure to measure the learn ability. 	 PO attainment = Direct attainment + Indirect attainment Direct attainment = 80 % weightage of End semester examination (ESE) + 20% weightage of Mid-term examination (MTE) = 0.8x + 0.2y x= ESE, y=MTE Indirect attainment = Surveys from stakeholders, placement data, participation of students in curricular and co-curricular activities CO attainment = 0.8x+0.2y Where x = End semester examination (ESE) y = Mid-term examination (MTE) Direct attainment and indirect attainment are mapped with PO attainment through rubrics.

Subject	Subject Name	Course	RTU	MTT	TOTAL
Code		Outcome			
couc		outcome	X	У	0.8x+0.2y
1FY2-01	Engineering	CO-1	40	51.19	42.238
	Mathematics-	CO-2	40	56.19	43.238
	I	CO-3	40	50.32	42.064
		CO4	40	38.37	39.674
1FY2-03	Engineering	CO-1	62.4	50	59.92
	Chemistry	CO-2	62.4	36	57.12
		CO-3	62.4	86	67.12
		CO4	62.4	56	61.12
1FY2-02	Engineering	CO-1	33.68	70.92	41.128
	Physics	CO-2	33.68	36.97	34.338

		CO-3	33.68	81.33	43.21
		CO-4	33.68	60.16	38.976
(1FY1-04)	CSK	CO-1	77.68	84.9	79.124
		CO-2	77.68	74.19	76.982
		CO-3	77.68	57.84	73.712
(1FY1-05)	HUMAN	CO-1	75.38	71.8	74.664
	VALUES	CO-2	75.38	61.6	72.624
		CO-3	75.38	57.4	71.784
1FY3-06	Programming	CO-1	40	72.4	46.48
	For Problem	CO-2	40	70.7	46.14
	Solving	CO-3	40	70.7	46.14
		CO-4	40	65.3	45.06
		CO-1	47.57	66.59	51.374
		CO-2	47.57	60.3	50.116
1FY3-07	BME	CO-3	47.57	48.15	47.686
		CO-4	47.57	46.73	47.402

S.No.	Criteria	Observations made by NBA	Compliance Status (Action
		(During the last	taken by the institution)
		accreditation visit)	
8.5.1	8.5.1 Indicate results of evaluation of	Assessment tools used to measure PO are irrelevant; only indirect assessment tools are used to measuring	• PO attainment = Direct attainment + Indirect attainment
	each relevant PO/PSO s	tools are used to measuring PSOs and poor PO/PSO attainment values.	 Direct attainment = 80 % weightage of end semester examination (ESE) + 20% weightage of Mid-term examination (MTE) = 0.8x + 0.2y x= ESE, y=MTE Indirect attainment = Surveys from stakeholders, placement data, participation of students in curricular and co-curricular activities CO attainment = 0.8x+0.2y Where x = End semester examination (ESE) y = Mid-term examination (MTE) Direct attainment and indirect attainment are mapped with PO attainment through rubrics



S. No	Criteria	Observations made by NBA (During the last accreditation visit)	Complia	ance Status (instit	(Action taken ution)	n by the
8.5.2	8.5.2 Actions taken based on the results of evaluation of relevant POs /PSOs	Ineffective actions taken based on results of PO/PSOs	 To at conten identif activiti achiev attainn The t deliver partici 	 To attain the POs/PSOs, systematically content beyond the syllabus has been identified and delivered. Also, different activities have been planned and executed to achieve the target value of PO/PSOs attainment. The topics beyond syllabus have been delivered through experiential learning and participative learning. 		
			Academic Year	2017-18	2018-19	2019-20
			topics beyond	22	27	28
			• In departm	ental discus	sion, departr	nent decided

	the mode which as holders a calendar These are syllabus.	es of delivery of topic beyond the syllabus re identified through feedback of stake and included in the departmental academic before the commencement of session. the modes of delivery of topics beyond
	Delivery methods	Link
	Add-on courses / worksho	https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2018- 19/2018-19-vehicle-dyanammics.pdf
	ps	https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2018- 19/2018-19-workshop-3D-Printing- Feb%202019.pdf
		https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019- 20/2019- 20%20Vehicle%20dyanammics.pdf
		https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019- 20/2019-20-3D%20printing-faculty- trainig.pdf
		https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019- 20/2019-20-3D-Printing-Nov-2020.pdf
		https://jecrcfoundation.com/jf- data/NBA/ME/Workshop/2019- 20/2019-20-Automobile- faculty%20trainig.pdf
	Guest lectures by the industry person	https://jecrcfoundation.com/jf- data/NBA/ME/Guest-Lecture/2019- 20/Guest-Lectures-2019-20.pdf
	Industria l visit s	https://jecrcfoundation.com/jf- data/NBA/ME/Industrial- Visit/Industrial-Visits-2019-20.pdf
	Confere nces	https://www.jecrcfoundation.com/pdf/c onfrence-reports/ME%202015-2020.pdf
	Technic al clubs/ activitie	https://jecrcfoundation.com/jf- data/NBA/ME/MoonRider/Annual%20 Report%202019-20.pdf

	s https://jecrefoundation.com/jf-	
	data/NBA/ME/MoonRider/An	nual-
	<u>Report-2018-19.pdf</u>	
	The content beyond the syllabus was	delivered
	through guest lectures by the industr	y experts,
	industrial visits, add-on courses, v	workshops,
	conferences, lectures of course tea	cher and
	presentation of student's project etc	

	Guest Lecture					
Year	Date	Guest name and topic	Website Link			
2019	27.08.2019	Sh. Rajeev Bhargava, Mechanical CAD	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/27-Aug-2019-Report-CADD-CENTER.pdf			
2019	27.08.2019	Sh. Himanshu Shrivastava, Application of Fluid Mechanics in Industries	https://jecrcfoundation.com/if-data/NBA/ME/Guest-Lecture/2019-20/27-Aug-2019-Report-ENGINEERS-ACADEMY.pdf			
2019	04.09.2019	Sh. Bhawani Singh, Introduction and Application of MATLAB	https://iecrcfoundation.com/if-data/NBA/ME/Guest-Lecture/2019-20/04-Sep-2019-Report-PVAS.pdf			
2019	06.09.2019	Sh. Rajeev Bhargava, Practical Applications and Industrial Uses of Mechanical CAD	https://iecrcfoundation.com/if-data/NBA/ME/Guest-Lecture/2019-20/06-Sep-2019-Report-CADD-CENTER-02.pdf			
2019	09.10.2019	Sh. Alon Tal, Design Optimization of Functionally Graded Dental Implant for Bone Remodelling	https://jecrcfoundation.com/if-data/NBA/ME/Guest-Lecture/2019-20/09-Oct-2019-Report-UG-Scholar.pdf			
2020	23.01.2020	Sh. Ravi Kumar Swami, Application of AutoCAD, CATIA, Solidworks and ANSYS software in the Manufacturing Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/23-JANUARY-2020-Report-CADEMATE-01.pdf			
2020	24.01.2020	Sh. Girish Kumar, Importance of AutoCAD, CATIA, Solidworks in the Manufacturing Industry	https://jecrcfoundation.com/if-data/NBA/ME/Guest-Lecture/2019-20/24-JANUARY-2020-Report-CADDESK.pdf			
2020	25.01.2020	Sh. Ravi Kumar Swami, Application of AutoCAD, CATIA, Solidworks and ANSYS software in the Manufacturing Industries	https://jecrcfoundation.com/if-data/NBA/ME/Guest-Lecture/2019-20/25-JANUARY-2020-Report-CADEMATE-02.pdf			
2020	12.02.2020	Sh. Diwjendra Srivastava, How to Prepare for CAT and GRE	https://jecrcfoundation.com/if-data/NBA/ME/Guest-Lecture/2019-20/12-FEBRUARY-2020-Report-IMS.pdf			
2020	13.02.2020	Sh. Harsh Babel, Careers in Automotive Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/13-FEBRUARY-2020-Report-HARSH-BABEL.pdf			
2020	14.02.2020	Sh. Ravindra Dhewa, Importance of digital marketing	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/14-FEBRUARY-2020-Report-Digital-Marketing.pdf			
2020	16.02.2020	Sh. Vaibhav Kamalkaka, New Technologies Challenge in Automative Industries	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/16-FEBRUARY-2020-Report-VAIBHAV-KAMALKAKA.pdf			
2020	03.03.2020	Sh. Gaurav Dadheech, Start-Up in the in Automotive World and Electric Vehicle Scenario in India	https://jecrcfoundation.com/jf-data/NBA/ME/Guest-Lecture/2019-20/03-MARCH-2020-Report-GAURAV-DADHEECH.pdf			

		1	1
S.No	year	Торіс	Link
1	2018	1 nd International Conference on Recent	https://jecrcfoundation.com/jf-
		Innovations & Technological Development in	data/Conference/ICRITDME-
		Mechanical Engineering ICRITDME - 2018	<u>2018.pdf</u>
2	2019	1 st National Conference On Futuristic Trends in Mechanical Engineering NCFTME- 2019 16-17 March, 2019	https://jecrcfoundation.com/jf- data/Conference/NCFTME-2019.pdf
	2010		https://iccrefoundation.com/if
3	2019	2 ¹¹⁵ International Conference on Recent	https://jecrcioundation.com/ji-
		innovations & rechnological Development in	2019 pdf
		Mechanical Engineering ICRITDME - 2019	2010.041
4	2020	3rd International Conference on Recent	
		Innovations & Technological Development in	https://jecrcfoundation.com/jf-
		Mechanical Engineering ICRITDME - 2020	data/Conference/ICRITDME-
		Recent Innovations & Technological	<u>2020.pdf</u>
		Development in	
		Mechanical Engineering ICRITDME-2020	
5	2020	2 nd National Conference on Futuristic	https://jecrcfoundation.com/jf-
		Trends in Mechanical Engineering	data/Conference/NCFTME-2020.pdf
		NCFTME - 2020	



Event Site



Photo taken on the last day of event

Links: https://jecrcfoundation.com/applied-science/tech_events https://jecrcfoundation.com/applied-science/jtechtrix https://jecrcfoundation.com/student-corner/notes

Criterion 9: Student Support Systems

S. No	CRITERIA	OBSERVATION	COMPLIANCE STATUS (ACTION TAKEN
		MADE BY NBA	<u>BY INSTITUTION)</u>
9.2	Feedback analysis and reward /corrective measures taken, if any	Feedback system exists, but not effectively functioning.	Institute regularly collect and analyse feedback from students and other stakeholders on various issues. After analysing the feedbacks corrective actions are taken. Action taken reports are shared with the stakeholders. Feedback forms, Mechanism and action taken reports are also available on the institute websites. https://jecrcfoundation.com/igac/feedback- forms https://www.jecrcfoundation.com/pdf/igac- feedback/1.4.2- Feedback%20Mechanism.pdf https://jecrcfoundation.com/igac/action- taken-report List of feedback with link is attached below.

List and link of feedback forms

1	Student's Curriculum Feedback Form	https://forms.gle/zf81BNcSCnUtcc2J7
2	Students Feedback On Teaching Learning	https://forms.gle/bmeUV44GyKTkkzay7
3	Students Extra-Curricular Feedback Form	https://forms.gle/FdzxwxoZZEW99usv9
4	Parent's Feedback Form	https://forms.gle/RiwFvop6a5NHqpyG7
5	Student's Facility Feedback Form	https://forms.gle/GhxvQUNrRyGSUsBQA
6	Student's Hostel Facility Feedback Form	https://forms.gle/xeHNUd4dixmNuF2B9
7	Student's Feedback(Transport Facility) Form	https://forms.gle/Y8gAnoQmg9hoTbeJ8
8	General Feedback Form	https://forms.gle/fEwp5T1zbGS2xpvK7
9	Student's Course Outcome Feedback Form	https://forms.gle/GnxSy4NCVzotjtKBA
10	Student's Program Exit Feedback Form	https://forms.gle/kV4f2nXJvFqJEzaPA

11	Employee Feedback Form	https://forms.gle/fHumzaPAYSrkQBds8
12	Industrial Training Feedback Form	https://forms.gle/AhmpicDXssa3QWkr9

Teaching Learning- feedback

Total responses 1667



































Parameters	Resp	onses	Action taken
	<60	≥60	
To what extent the teacher discusses course outcomes and program outcomes in the class.	5.76	94.24	The students appreciate the efforts made by faculty members regarding the discussion of COs & POs. Few students required more discussion regarding the same. IQAC instructed to all HoDs to speak with his faculty members to increase the frequency of discussion of COs & POs in classroom.
To what extent the teacher encourages participation and discussion in class.	5.16	94.84	The faculty members encourage innovative participation of students to make active discussions in classroom teaching. IQAC advised to all faculty members to increase the participation and discussion in class. Also increase the involvement of slow learners in discussion.
To what extent teacher maintains regularity and punctuality in class.	5.28	94.72	The students appreciated the regularity and punctuality of faculty members in classroom IQAC instructed to all <u>HoDs</u> to insure the regularity and punctuality of faculty members in class.
To what extent the teacher motivates students for participation in extracunicular activities.	7.80	92.20	The students appreciate the efforts made by the faculty members. Also, faculty members are advised to motivate the students to make maximum involvement in extra curricular activities.
To what extent the teacher provides mentoring for academic and non- academic matters	6.36	93.64	The students appreciated the faculty members. Also, it is advised to mentors to increase the frequency of active mentoring sessions, especially for slow learners.
To what extent faculty members deliver online lecture ande-notes through google classroom	5.58	94.42	The students appreciate the efforts made by the faculty members. Also, instructed to all faculty members to provide the advanced study materials like GATE, IES etc materials, lecture videos, lab experiments videos through google classroom.

Student's Teaching learning Feedback forms received from students and summary as follows

				1
To w facu the and relat solv	what extent the ulties provide assignments discussion ied to problem ing approach	5.76	94.24	Almost all faculties provide the quality assignment to the students. IQAC advised to faculty members to enhance the difficulty level of assignments by incorporate complex problems. Also provide last year GATE, IES etc questions in assignments for fast learners and provide extra discussion time for slow learners.
To facu note mat onlin	what extent alties provide (s/ppt /e- erials through the platform.	5.94	94.06	The students appreciate the efforts made by the faculty members. IQAC advised the faculty members to upload advanced study materials, lecture videos, lab experiments videos/ NPTEL/ <u>Swayam/</u> <u>Swayam Prabha</u> links to students.
To griev issue addi	What extent vances related es are ressed	6.42	93.58	The students appreciate the efforts made by the department. Almost all the grievances are addressed. IQAC instructed all <u>HoDs</u> to address all grievances related issues of students at time.

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	<u>COMPLIANCE STATUS (ACTION TAKEN</u> <u>BY INSTITUTION)</u>
9.3	Feedback on facilities	Feedback system on facilities exit, but corrective measures taken are not documented	Institute regularly collect and analyse feedback from students and other stakeholders on various issues. After analysing the feedbacks corrective actions are taken. Action taken reports are shared with the stakeholders. Feedback forms, Mechanism and action taken reports are also available on the institute websites. https://jecrcfoundation.com/iqac/feedback- forms https://www.jecrcfoundation.com/pdf/iqac- feedback/1.4.2-Feedback%20Mechanism.pdf https://jecrcfoundation.com/iqac/action- taken-report

List and link of feedback forms

1	Student's Curriculum Feedback Form	https://forms.gle/zf81BNcSCnUtcc2J7
2	Students Feedback On Teaching Learning	https://forms.gle/bmeUV44GyKTkkzay7
3	Students Extra-Curricular Feedback Form	https://forms.gle/FdzxwxoZZEW99usv9
4	Parent's Feedback Form	https://forms.gle/RiwFvop6a5NHqpyG7
5	Student's Facility Feedback Form	https://forms.gle/GhxvQUNrRyGSUsBQA
6	Student's Hostel Facility Feedback Form	https://forms.gle/xeHNUd4dixmNuF2B9
7	Student's Feedback(Transport Facility) Form	https://forms.gle/Y8gAnoQmg9hoTbeJ8
8	General Feedback Form	https://forms.gle/fEwp5T1zbGS2xpvK7
9	Student's Course Outcome Feedback Form	https://forms.gle/GnxSy4NCVzotjtKBA
10	Student's Program Exit Feedback Form	https://forms.gle/kV4f2nXJvFqJEzaPA
11	Employee Feedback Form	https://forms.gle/fHumzaPAYSrkQBds8
12	Industrial Training Feedback Form	https://forms.gle/AhmpicDXssa3QWkr9



Jaipur Engineering college and research Centre, Shri Ram Ki Nangal, via Sitapura RIICO Jaipur-302 022. Academic year-2019-2020

Internal Quality Assurance Committee

Circular

No: JECRC/2019/Meeting/

Date: 04.12.2019

This is to inform all members of IQAC that there is a meeting on "Feedback analysis and action taken report from different stake holders" scheduled from 2 to 4 pm on 07.12.2019 at the A-Block Conference hall. The Program coordinator are requested to bring the feedback analysis of their department for discussion on the following agenda points:

- 1. Feedback analysis for different stakeholders.
- Discussion on action taken report on student's curriculum, co-curricular, facilities, hostel and transport.
- 3. Discussion on action taken report on parent's feedback.
- 4. Discussion on action taken report on alumni feedback.
- 5. Discussion on action taken report on Employer feedback.
- 6. Any other

N

IQAC Coordington artment Head of the Dopartment Mechanical Engineering JECRC, Jaipur

CC to



Jaipur Engineering college and research Centre, Shri Ram Ki Nangal, via Sitapura RIICO Jaipur-302 022.

Academic year-2019-2020

Minutes of Meeting

Meeting Venue: Conference Hall, A-Block

Date: 08/12/2019

The meeting held on 7.12.2019 regarding feedback taken by different departments which department collects from the different stakeholders and later analysis is done at department level and submitted to IQAC. Later the analysis is done and IQAC prepares the collective feedback analysis and shared to the stakeholders. The various stake holders are mainly the students, faculty members, alumni, parents and employer. Based on the analysis, an action taken report is prepared for further improvement.

IQAC coordinator shared the action taken report with the program coordinator and also with all the faculty members about the feedback and the analysis of the stakeholders. The following agenda points were discussed.

 Students Curriculum: Student's Curriculum feedback forms received from students and summary as follows

Parameters	Respon	ises	Action taken
	<60%	≥60%	
Vision of JECRC	4.90	95.10	Majority of the students agreed with the Vision statement of JECRC
Mission of JECRC	5.15	94.85	Majority of the students agreed with the Mission statement of JECRC
Curriculum provided by university is satisfactory	8.96	91.04	Curriculum is as per RTU. IQAC advised the all-faculty members to identify more content beyond the syllabus and introduce more add on courses.

7. Student's Facilities Feedback: Student's Facilities Feedback forms received from students and summary as follows

Parameters	Respons	es	Action taken	
	<60	≥60		
How would you rate the Cleanliness & greenery of college campus?	10.86	89.14	The students appreciated the cleanliness and greenery of college campus. The campus in- charge has been instructed to proper maintain the cleanliness and horticulture, also advised to organize plantation activity regularly.	
How would you rate the infrastructure of laboratory in college?	13.44	86.56	The students appreciated the academic related laboratory. IQAC advised the HoDs to establish few industries supported labs. Also, it is proposed to equip the laboratory with latest sophisticated instruments.	
How would you rate the infrastructure of Library in college?	7.59	92.41	The students appreciated the infrastructure of library. For further improvement, it is proposed to enhancement of e- library related facility.	
How would you rate the Wi-Fi internet facility in the college?	37.66	62.34	Wi-Fi issue is raised and communicated for necessary action. It is proposed to install more routers in the campus.	
How would you rate the classroom ambience in the college?	12.74	87.26	The students appreciated the classroom ambiences. Campus in-charge was asked to arrange the curtain for few remaining curtainless windows. Also, maintain the classroom properly.	
How would you rate the canteen facility?	17.62	82.38	The issue has been discussed with the canteen contractor and advised him to provide proper facilities.	
How would you rate the spiritual cell facility for counseling?	4.71	95.29	The students appreciated the spiritual cell facility for counseling. IQAC inform about the feedback received from students to spiritual cell in charge for further improvement and to organize more activities.	
How would you rate the ICT facilities?	8.05	91.95	The students appreciate the ICT based facilities in the campus. Also, it is proposed to increase the number of ICT based classroom in the campus.	



JANFOR ENGINEERISMIC COLLEGIE AND RESEARCH CENTRE	Jaipur I Shri Ra	Engineer m Ki Na	ing college and research Centre, ngal, via Sitapura RIICO Jaipur- 302 022.	Academic year-2019-2020
How would you rate sports facility in the college?	20.05	79.95	This issue has been discussed w in-charge. The sports in-charge instructed to maintain and enhan- facility.	ith the sports has been nce the sports
How would you rate First Aid facility in college?	13.36	86.64	The students appreciate the first in the campus. Campus in-charg maintain the first aid facility in	aid facilities e was asked to the college.
How would you rate the grievances regarding facility?	10.25	89.75	Mostly students are satisfied wir grievances regarding facilities. I the grievances cell to resolve the student's within given time fram	th the IQAC advised e grievances of ne.

8.Student's Transport Facility Feedback: Student's Transport Feedback forms received from students and summary as follows

Parameters	rameters . Responses		Action taken	
	<60%	≥60 %		
To what extent transport facility at JECRC is dependable and punctual.	8.02	91.98	Most of the students appreciate the punctuality of transport. Also, transportation in-charge has been instructed to enhance the transportation facility according to requirement.	
To what extent bus drivers demonstrates safe and preventive driving skills.	7.89	92.11	Safety of the students/staff is the prime concern for the College. The majority of students appreciated the safety maintained by the drivers while driving. Also, transportation in-charge has been instructed to talk with the drivers and give instructions for safe driving.	
To what extent the drivers maintain proper dress code.	5.14	94.86	Mostly students appreciate this. Transportation in-charge has been instructed to talk with the drivers and give instructions to wear proper dress code while on duty.	
How would you rate the cleanliness of the interior and exterior of	714	97.86	The students are satisfied with the cleanliness of the interior and exterior of the vehicle.	

driving skills.	1.89	92.11	the drivers while driving. Also, transportation in-charge has been instructed to talk with the drivers and give instructions for safe driving.	
To what extent the drivers maintain proper dress code.	5.14	94.86	Mostly students appreciate this. Transportation in-charge has been instructed to talk with the drivers and give instructions to wear proper dress code while on duty.	
How would you rate the cleanliness of the interior and exterior of the vehicle?	7.14	92.86	The students are satisfied with the cleanliness of the interior and exterior of the vehicle. Also, transportation in-charge has been instructed to proper maintain interior and exterior cleanliness of vehicle.	
To what extent the drivers communicate related to schedule.	8.02	91.98	The majority of the students feel that drivers adhere to the schedule. Transportation in- charge has been instructed to inform the students/staff before 3-4 day from effective implementation of new schedule.	

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9. Student's hostel facility feedback: Student's Hostels Feedback forms received from students and summary as follows

Parameters	Respons	es (in %)	Action taken
_	<60	≥60	
To what extent you agree that hostel surroundings are secure.	11.31	88.69	The majority of the students agree with this statement as they find a safe and secure environment in the hostel. Also, this issue has been discussed with campus security in- charge.

Sno.	Name	Designation	Signature
1	Prof (Dr) V K Chandna	Principal & IQAC Chairperson	Bhar
2	Dr M P Singh	HOD ME & IQAC Coordinator	Boh
3	Dr Fauzia Siddiqui	Dy-IQAC Coordinator	hit
4	Dr Bhuvnesh Bhardwaj	Associate professor- Member	I they
5	Dr Ruchi Mathur	Dean Ist year	And
6	Dr Sanjay Gour	HOD-CSE	(inj.
7	Dr Sandeep Vyas	HOD-ECE	8
8	Dr Prerak Bhardwaj	HOD-EE	french
9	Dr O P Netula	HOD-CE	+ Atto
10	Mr Piyush Gautham	HOD-IT	Dante
п	Dr Neelu Jain	Social Head	Well 2
12	Sh Ramesh Rawat	Placement Head	

Following members were present in the meeting:

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	<u>COMPLIANCE STATUS (A</u> <u>BY INSTITUTI</u>	ACTION TAKEN ON)
10.1.2	10.1.2 Governing body, administra tive setup, functions of various bodies, service rules procedure s, recruitme nt and promotion al policies	Administrative bodies are in place but all are not actively functioning; frequency of meeting is limited. Minutes of the meetings are not properly documented and action-taken reports are not available.	The institute governing regularly meets to discuss and actions taken are analyze All the administrative l conduct meetings related functioning of various sectio process and procedure from Administrative bodies National Society for Engineering Research and Development NSERD(Governing body) Board of Governors (As per AICTE) Grievance Redressal Committee Anti Ragging Committee Women Cell Committee Discipline committee/ Security committee Link of Minutes of meeting you kind consideration.	body (NSERD) various decisions ed. bodies regularly to the smooth ns and review the time to time. Frequency of Meeting Four/Year One/Year Two/Year Two/Year Two/Year Two/Year Two/Year S are attached for
			Link of Minutes of meeting you kind consideration.	s are attached for

Administrative	Link of Minutes of Meetings
Bodies	
National	https://www.jecrcfoundation.com/pdf/nserd/NSERD%202019- 20%20Final.pdf
Society for	https://www.jecrcfoundation.com/pdf/nserd/NSERD%202018-
Engineering	<u>19%20Final.pdf</u>
Research and	
Development	https://www.jecrcfoundation.com/pdf/nserd/NSERD%202016-
NSERD(Gover	<u>17%20Final.pdf</u>
ning body)	
	https://www.jecrcfoundation.com/pdf/nserd/NSERD%202015-
	<u>16%20Final.pdf</u>
Board of	https://www.jecrcfoundation.com/pdf/bog/Governing%20Body%20AICTE%2

Governors (As	<u>02019-20.pdf</u>
per AICTE)	
	https://www.jecrcfoundation.com/pdf/bog/Governing%20Body%20AICTE%2
	<u>02018-19.pdf</u>
Grievance	https://jecrcfoundation.com/jf-data/NBA/Monitiring-
Redressal	committee proceedings2019 20.pdf
Committee	
Anti Ragging	https://jecrcfoundation.com/jf-data/NBA/Monitiring-Anti Ragging committee.pdf
Committee	
SC/ ST Cell	https://jecrcfoundation.com/jf-data/NBA/Monitiring-SC ST committee.pdf
Committee	
Discipline	https://jecrcfoundation.com/jf-data/NBA/Monitiring-Discipline committee.pdf
committee	
Women Cell	https://jecrndation.com/jf-data/NBA/Monitiring-Women_Cell_committee.pdf
Committee	

National Society for Engineering Research and Development

Regd. Off. : H-8, Chitranjan Marg, C-Scheme, Jaipur 302 001 Phone - 91-0141-4190000

Minutes of meeting of the Governing Body of National Society for Engineering Research and Development, Jaipur held on 13th April, 2019 at 11:00 am at the registered office of the Society.

The under noted members of the Governing Body were present in the meeting:-

1	. Shri O.P.Agrawal	Chairman
2	Shri M.L.Sharma	Vice-Chairman
3.	Shri Arpit Agrawal	Member
4	Shri Vinay Agrawal	Member
5.	Shri Ramawtar Jain	Treasurer

6. Shri S.L.Agrawal Secretary

Secretary

Agenda No. 1:- Approval of the minutes: Minutes of the meeting of last Governing Body were read by the Secretary and confirmed.

Agenda No. 2:- Approval of the Budget for the year 2019-20: Secretary submitted the budget for the year 2019-20 and after discussion it was approved.

Agenda No. 3:- Approval of IPR Policy: Draft IPR policy was submitted for the approval, after discussion it was approved.

Agenda No. 4:- NBA Accreditation: Secretary informed that National Board of Accreditation has approved Electronic and Communication Engineering and Mechanical Engineering branch at Jaipur Engineering College and Research Centre, Jaipur. Computer Science & Engineering branch was not accredited. For the autonomy we have to make efforts for getting all the branches accredited. For this Principal may be ask to submit action plan.

Agenda No. 5:- Proposal to setup centre of excellence and industrial relation in Jaipur Engineering College and Research Centre, Jaipur. The issue was discussed and proposal may be asked from the college and be put up in the next meeting.

Agenda No. 6:- Proposal for the International Conference: The issue was discussed and it was decided that Two International Conferences may be planned in the college.

The meeting ended with the vote of thanks to the chair.

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Sectory National Society For Engineering Research & Development



National Society for Engineering Research and Development

Regd. Off. : H-8, Chitranjan Marg, U-Scheme, Jaipur 302 001 Phone - 91-0141-4190000

Minutes of meeting of the Governing Body of National Society for Engineering Research and Revelopment, Jaipur field on 09th Märch, 2019 at 11:00 am at the registered office of the Society.

The under noted members of the Governing Body were present in the meeting:-

10	Shri O.P.Agrawal	Chairman
2.	Shri M.L.Sharma	Vice-Chairman
3.	Shri Arpit Agrawal	Member
4.	Shri Vinay Agrawal	Member
5.	Shri Ramawtar Jain	Treasurer
6.	Shri S.L.Agrawal	Secretary

Agenda No. 1:- Approval of the minutes: Minutes of the meeting of last Governing Dody were read by the Secretary and confirmed.

Agenda No. 2:- Review the expenditure against budget allocation: Head wisc expenditure was reviewed and extra budget was sanctioned in the heads where it was required.

Agenda No. 3:- Excess infrastructure for session 2019-20: Secretary informed that looking to the same seat matrix no extra infrastructure is required.

The meeting ended with the vote of thanks to the chair.

PLS

Secretary Secretary National Society For Engineering Research & Development JAIPUR

National Society for Engineering Research and Development

Regd. Off. : H-8, Chitranjan Marg, C-Scheme, Jaipur 302 001 Phone - 91-0141-4190000

Minutes of meeting of the Governing Body of National Society for Engineering Research and Development, Jaipur held on 30th November, 2019 at 11:00 am at the registered office of the Society.

The under noted members of the Governing Body were present in the meeting:-

1.	Shri O.P.Agrawal	Chairman
2.	Shri M.L.Sharma	Vice-Chairman
3.	Shri Arpit Agrawal	Member
4.	Shri Vinay Agrawal	Member
5.	Shri Ramawtar Jain	Treasurer
6.	Shri S.L.Agrawal	Secretary

Agenda No. 1:- Approval of the minutes: Minutes of the meeting of last Governing Body were read by the Secretary and confirmed.

Agenda No. 2:- To authorize the office bearer of the NSERD to execute the documents in favor of Tourism Finance Corporation of India Ltd. After discussion it was resolved.

(a) That in consideration of Tourism Finance Corporation of India Ltd.(TFCI") (hereinafter called "the Lender") having agreed to advance/ advanced Rupee Term Loan amounting to Rs.70 Crores (Rupees seventy Crores only) (hereinafter called "the said Term Loan") on the terms and conditions contained in the Letter of Intent No.TF/PR/1994/2019/7127 dated 26th November 2019 issued by TFCI to JECRC University (hereinafter called "the Borrower") and in further consideration of the Lenders having agreed to make/made disbursement(s)/interim disbursement(s) from out of the said Term Loan and/or to grant and disburse Bridge Loan/s for an amount not exceeding the amount of the said Term Loan agreement as co-borrower &a Guarantee, guaranteeing the repayment of the said Term Loan/Bridge Loan(s) plus interest, Front-end fees, costs, charges and all other moneys payable by the Borrower to the Lender in terms of the Loan Agreement between the Borrower and the Lender and undertakings for non-withdrawal of loans/deposits made by the NSERD Society to the Borrower.

Secretary National Society For Engineering Research & Development

National Society for Engineering Research and Development

Regd. Off. : H-8, Chitranjan Marg, C-Scheme, Jaipur 302 001

Phone - 91-0141-4190000

-2-

(b) That the Standard form of the Loan Agreement &Deed of Guarantee received from the Lender/Borrower (copies whereof duly authenticated by the Chairman of the Board have been circulated to the Members of the Board) be and is hereby approved and any one of the following Members, namely Amit Agarwal and Arpit Agarwal be and is hereby severally authorized to accept on behalf of the University such modifications therein as may be acceptable to the Lender.

(c) That the Seal of the NSERD Society be affixed to the fair stamped engrossment of the Loan Agreement &Deed of Guarantee (as per the said standard form with such modifications as may be agreed to by the Lenders) in the presence of Shri OP Agrawal, Chairman and Secretary Shri S.L. Agrawal (Secretary), who shall sign the same in token thereof.

(d) That Shri O P Agrawal, Chairman and Shri S L Agrawal, Secretary of NSERD Society be and are hereby authorized to execute or cause to be executed all undertakings, deeds, instruments, and other writings in favor of the Lender as may be required by the Lender in connection with the said Term Loan/ Bridge Loan(s) and any interim disbursement(s) made/to be made by the Lender out of the said Term Loan from time to time."

{e} That the guarantee/undertakings to be furnished by NSERD Society in favor of the Lenders are subject to jurisdiction of Courts in India.

Agenda No. 3:- To authorize the office bearer of the NSERD to execute the documents of JECRC University in favor of Tourism Finance Corporation of India Ltd..

The Chairman informed that University has been sanctioned, inter-alia, financial assistance by way of Term Loan of Rs.7000 lakhs by Tourism Finance Corporation of India Ltd. (TFCI) towards refinancing of existing outstanding term loans of Bank of India, State Bank of India, Corporation Bank and Dena Bank availed for construction of the University at Jaipur and repayment of unsecured loans. The Chairman further informed that the above financial assistance will be secured inter-alia, by registered mortgage in respect of the University's –

LEASEHOLD RIGHTS on all that pieces and parcels of land admeasuring 1,29,070 sq. mtrs. bearing Plot No. IS-2036 to IS-2039 and being, lying and situated at RIICO Industrial Area, Ramachandrapura (Sitapura Extn.), Jaipur and bounded on the -

plans

National Society for Engineering Research and Development

Regd. Off. : H-8, Chitranjan Marg, C-Scheme, Jaipur 302 001

- 3-

Phone - 91-0141-4190000

North by	- 60 Mtrs. Road
South by	- 06 Mtrs. Road
East by	- 30 Mtrs. Road
West by	- 24 Mtrs. Road

Together with buildings, structures, etc. constructed/to be constructed thereon, both present and future, and within the jurisdiction of Sub-Registrar of Assurances, Jaipur-V, in the Registration District Jaipur, in the State of Rajasthan. The Chairman, therefore, requested to pass the following resolutions which after some discussions were passed:

"RESOLVED THAT -

(1) The University do create mortgage in favor of Tourism Finance Corporation of India Ltd. (TFCI) to secure term loan of Rs.70 crores (Rupees seventy crores only) granted by executing the Indenture of mortgage as Co-Mortgagor with National Society For Engineering Research And Development (Society) and causing the same to be registered in the concerned office of sub-registrar of assurances at Jaipur in order to create security by way of mortgage on the University's-

LEASEHOLD RIGHTS on all that pieces and parcels of land admeasuring 1,29,070 sq.mtrs. bearing Plot No.IS-2036 to IS-2039 and being, lying and situated at RIICO Industrial Area, Ramachandrapura (Sitapura Extn.), Jaipur and bounded on the -

North by	- 60 Mtrs. Road
South by	- 06 Mtrs. Road
East by	- 30 Mtrs. Road
West by	- 24 Mtrs. Road

Together with buildings, structures, etc. constructed/to be constructed thereon, both present and future, and within the jurisdiction of Sub-Registrar of Assurances, Jaipur-V, in the Registration District Jaipur, in the State of Rajasthan (hereinafter referred to as "the said immovable properties") to secure the due repayment, discharge and

ausile Secretary

National Society for Engineering Research and Development

Regd, Off. : H-8, Chitranjan Marg, C-Scheme, Jaipur 302 001 Phone - 91-0141-4190000

Minutes of meeting of the Governing Body of National Society for Engineering Research and Development, Jaipur held on 30th September, 2019 at 11:00 am at the registered office of the Society.

The under noted members of the Governing Body were present in the meeting:-

Chairman
Vice-Chairman
Member
Member
Treasurer
Secretary

Agenda No. 1:- Approval of the minutes: Minutes of the meeting of last Governing Body were read by the Secretary and confirmed.

Agenda No. 2:- Faculty Review: Secretary presented the faculty status for each department with qualification of faculty. Most of the faculties are not Ph.D. Faculty may be motivated for getting enrolled for Ph.D.

Agenda No. 3:- Resolved that Shri S. L. Agrawal Secretary, National Society for Engineering Research and Development, Jaipur is authorized to execute and sign all documents relating to any property, deal, new telephone /mobile connections of any company including Airtel etc on behalf of this Society.

Agenda No. 4:- Proposal to setup centre of excellence and industrial relation in Jaipur Engineering College and Research Centre, Jaipur was discussed in previous meeting. Secretary has submitted the detail plan after discussion it was approved.

Agenda No. 5:- Status of Startups and Innovations: The status of Startups and Innovations was submitted by the Secretary, after discussion it was decided that Principal may be asked to improve the status.

Principal presented the formation of IQAC committee, minutes of its first meeting and the same was discussed and approved.

The meeting ended with the vote of thanks to the chair.

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY <u>NBA</u>	<u>COMPLIANCE STATUS (ACTION</u> <u>TAKEN BY INSTITUTION)</u>
10.1.3	10.1.3 Decentralisati on in working and grievance redressal mechanism	Grievance redressal cell exits, but adequate evidences of action taken are not shown and it is still in the process of development.	Grievance form is available on the website www.jecrcfoundation.com .The grievance form is forwarded to concerned section to take action and action taken report thus submitted within stipulated time for the closure of grievance and finally information about the action taken is communicated to the individual who has put up the grievance.

Academic Year	Link of Minutes of meeting
2019-20	https://jecrcfoundation.com/jf-data/NBA/Grievance-2019-20.pdf
	https://jecrcfoundation.com/jf-data/NBA/Grievance-and-
2017-18	Redressal-committee-Proceedings-2017-18.pdf
2018-19	https://jecrcfoundation.com/jf-data/NBA/Grievance-and-
	Redressal-committee-Proceedings-2018-19.pdf
2019-20	https://jecrcfoundation.com/jf-data/NBA/Grievance-and-
	Redressal-committee-Proceedings-2019-20.pdf
2020-21	https://jecrcfoundation.com/jf-data/NBA/Grievance-and-
	Redressal-committee-Proceedings-2020-21.pdf

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Submitted to	Depart	ment Date	Signature A	Brisnity Ry	
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Complainanent	Name 7	Department	Date	Remarks	
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6	meral	Pomps - it -	medice		CRV.
Report Submitte	d to Princ	ipal /Registrar for remai	ks: wal	13/21	
		6 Fans	repaired	2	
			Jogendra	i.	

Jaipur Engineering College & Research Centre

From : Grievance Committee

To : All Members

Noting Reference No. JECRC/GRC/2020/13

04/01/20

Meeting Notice

There is a meeting of Grievance and Redressal committee on January 25, 2020 in the Conference Room Block A at 11:30 AM to discuss the issues related to Grievances in the last six months. Following members are requested to kindly make it convenient to attend and present the information and data related to their sections –

- 1. Shri Manish Jain Chair
- 2. Dr. M.P. Singh Member

3. Dr. Ruchi Mathur - Member

- 4. Dr. Sandeep Vyas Member
- 5. Shri P.K. Gupta Member
- Dr. Vinay Kumar Chandna I/c Anti-Ragging Committee and Ragging Squad Committee
- 7. Dr. Barkha Srivastava I/c Women Cell Committee
- 8. Dr. Sanjay Gaur I/c Student Disciplinary Council Committee
- 9. Dr. Nilam Choudhary I/c Schedule Cast & Schedule Tribes Committee

Agenda

- Chair will share all the details related to complaint or grievances received in the last six months.
- Invited incharge of Anti-Ragging Committee and Ragging Squad Committee will share all the details related to complaint or grievances received in the last six months.
- Invited incharge of Women Cell Committee will share all the details related to complaint or grievances received in the last six months.
- Invited incharge of Student Disciplinary Council Committee will share all the details related to complaint or grievances received in the last six months.
- Invited incharge of Schedule Cast & Schedule Tribes Committee will share all the details related to complaint or grievances received in the last six months.
- Grievances and redressal committee incharge will submit the report of complaint received in last six months.
- 7. Any other issues

Copy to-

- 1. Vice Chairman 2. Director
- 3. All concerned
- 4. Shri Tovinder Sahoo for necessary arrangements in the conference room



Rot. Tacse KSRC/2019/12

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Date: 01/08/2019

Minutes of Meeting

Venue Date & Time : Conference Room, Block A : Wednesday July 31, 2019 at 11:30 AM

Agenda

- 1. Chair will share all the details related to complaint received or grievance received in the last six months.
- 2. Invited incharge of Anti-Ragging Committee and Ragging Squad Committee will share all the details related to complaint received or grievance received in the last six months.
- 3. Invited incharge of Women Cell Committee will share all the details related to complaint received or grievance received in the last six months.
- Invited incharge of Student Disciplinary Council Committee will share all the details related to complaint received or grievance received in the last six months.
- 5. Invited incharge of Schedule Cast & Schedule Tribes Committee will share all the details related to complaint or grievances received in the last six months.
- 6. Grievances and redressal committee incharge will submit the report of complaint received in last six months.
- 7. Any other issues

Members Present :

- 1. Shri Manish Jain Chair
- 2. Dr. M.P. Singh Member
- 3. Dr. Ruchi Mathur Member
- 4. Dr. Sandeep Vyas Member
- 5. Shri P.K. Gupta Member
- 6. Dr. Vinay Kumar Chandna I/c Anti-Ragging Committee and Ragging Squad Committee
- 7. Dr. Barkha Srivastava I/c Women Cell Committee
- 8. Dr. Sanjay Gaur I/c Student Disciplinary Council Committee
- 9. Dr. Nilam Choudhary I/c Schedule Cast & Schedule Tribes Committee

Following items were discussed and decided that -

- Chair of Student Grievance / Redressal Committee welcome all the members from the committee and invited members of Anti-Ragging Committee and Ragging Squad Committee, Women Cell Committee, Student Disciplinary Council Committee, Schedule cast & Schedule Tribes Committee.
- 2. Minutes of meeting of last meeting were read and confirmed.
- 3. Discussion was held with all the incharges of the respective committees related to measures taken in the last six months to curve ragging, harassment or any other related issues with respect to the students and the faculty members. Respective incharges informed that there is no such particular grievance with respect to the Ragging, Gender harassment redressal or category based redressal.
- Incharges also told that faculty members are also discussed at various platforms through internal and external agencies.

S. No.	Activity	Total forms received	Resolved	Total pending
	Student Grievances	0	0	0
2	Maintenance	21	19	- 2

It was also discussed some grievances reported in the last six months and the disposal are taken care of.

It was also discussed that the pending grievances may be address at early possible to take necessary action in this regard.

7. Meeting ended with a vote of thanks to the Chair.

Marsh Jr

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Ret-JECRC/GRC/2019/11

Meeting

Date: 31/07/19

Date of Meeting : July 31, 2019 at 11:30 AM Venue : Conference Room Block A

Following were present in the meeting of Grievance and Redressal committee -

S. No.	Name	Designation	Signature
1	Shri Manish Jain	Chair	Mariosh Ja.
2	Shri P.K. Gupta	Member	Ra
3	Dr. M.P. Singh	Member	Tran
4	Dr. Ruchi Mathur	Member	hi
5	Dr. Sandeep Vyas	Member	AC
6	Dr. Vinay Kumar Chandna	I/c Anti-Ragging Committee and Ragging Squad Committee	V. Club
7	Dr. Barkha Srivastava	I/c Women Cell Committee	Shrivastava
8	Dr. Sanjay Gaur	I/c Student Disciplinary Council Committee	(Ting
9	Dr. Nilam Choudhary	I/c Schedule Cast & Schedule Tribes Committee	1 and

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	<u>COMPLIANCE</u> <u>STATUS (ACTION</u> <u>TAKEN BY</u> <u>INSTITUTION)</u>
10.1.4	10.1.4 Delegation of financial powers	The financial powers in respect of HoDs are limited in terms of imprest amount only.	Imprest amount of Rs. 10000/- on consumption basis provided to HOD and after submission of accounts of expenditure another imprest amount is provided to HOD.

From : Principal O	ffice '	To: All Program C	Coordinators/HODs
Noting Reference No	o. JECRC/02/2017-18/269		29/05/18
	Minutes	of the Meeting	
Venue :	Board Room – Block A		
Date & Time	Wednesday; May 30, 20	018 at 11:00 AM	
 Confirmat Annual rej Annual rej Proposed a Any other 	ion of minutes of the last n port of the College for the a port of the College for the a activities for the new acade issues with the permission	neeting during 2015 academic year 2016 academic year 2017 mic year 2018-19 of the Chair	-16 -17 -18
Special invited 1. Shri Amit	Guest: Agrawal, Special invited C	luest	
 Members Preser Shri M.L. Prof. (Dr.) Shri Manis Dr. Umesh Dr. Naveer Dr. Sylvest Shri Rajeer 	nt: Sharma, Chairman V.K. Chandna, Member So h Jain, Member Kumar Pareek, Member h Hemrajani, Invited from o ter Fernandes, Member (Invited States) of Bhargava, Member (Invited States)	ecretary other University vitees) ees)	
Iembers absent 1. Dr. Rajesh 2. Nominee fr 3. Nominee o 4. An Industri 5. Shri Deepa 6. Shri Atul K	: Singhal, Member (RTU Ke om the AICTE f the state Govt./UT. alist nominated by the Stat k Motwani, Member (Invit umar, Member (Invitees)	ota) e Govt. ees)	
		v.@	Jul 24/1/1 Cound 21-

Meeting started at 11:00 AM; following items were discussed -

- With the permission of the Chair, Dr. Vinay Kumar Chandna, Member Secretary welcomes all the dignitaries.
- He read the last minutes of the meeting and further it was approved by the members unanimously.
- He presents the annual report of the year 2016-17 and 2017-18, following items 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 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 submission of account further amount is disbursed.
 - d. Students' result analysis
 - e. 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 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.
 - 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 (proposed) it rose to Rs. 20,00,000/- it shows that students are taking interest in R&D activities.
 - 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. CONZETTRE

- 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.

4. Inputs by the industry -

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- 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.

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Member Secretary

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY <u>NBA</u>	<u>COMPLIANCE STATUS</u> (ACTION TAKEN BY <u>INSTITUTION)</u>
10.1.5	10.1.5 Transparency and availability of correct/unambi guous information in public domain	Faculty & student information not available on the college website.	List of faculty members and students are available on website. Links are provided for your kind consideration.

Academic Year	Link of Faculty and students
Faculty list 2020-21	https://jecrcfoundation.com/mechanical-engineering/faculty
Student list 2018-19 (I	https://jecrcfoundation.com/jf-data/NBA/Student-List/2018-19/First-
Year)	Year.pdf
Student list 2018-19 (II	https://jecrcfoundation.com/jf-data/NBA/Student-List/2018-19/Second-
Year)	Year.pdf
Student list 2018-19	https://jecrcfoundation.com/jf-data/NBA/Student-List/2018-19/Third-
(III Year)	Year.pdf
Student list 2018-19	https://jecrcfoundation.com/jf-data/NBA/Student-List/2018-19/Fourth-
(IV Year)	Year.pdf
Student list 2019-20 (I	https://jecrcfoundation.com/jf-data/NBA/Student-List/2019-20/First-
Year)	Year.pdf
Student list 2019-20 (II	https://jecrcfoundation.com/jf-data/NBA/Student-List/2019-20/Second-
Year)	Year.pdf
Student list 2019-20	https://jecrcfoundation.com/jf-data/NBA/Student-List/2019-20/Third-
(III Year)	Year.pdf
Student list 2019-20	https://jecrcfoundation.com/jf-data/NBA/Student-List/2019-20/Fourth-
(IV Year)	Year.pdf

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	<u>COMPLIANCE STATUS (ACTION</u> TAKEN BY INSTITUTION)
10.2	Budget Allocation, Utilisation, and Public Accounting at Institute level	BY NBA Apart from fees, the receipts include hostel and transport facilities	TAKEN BY INSTITUTION) Separate hostel and transport facilities fees receipts are given to students. Image: Comparison of the student
			Contraction in a second state of the second st

10.2.1	10.2.1 Adequacy of Budget allocation	Inadequate budget allocation; arbitrary allocations and no proper justifications was made	As affiliated to Rajasthan Technical university and twenty year old college, mostly budget included maintenance and spare. As per new facility is concern, separate budget of Rs Ten lakh is provided for research facility at the department. Budget allocation for attending conferences, budget for start-up and incubation centre are allocated and utilized according to financial assistance. Budget proposals are submitted from the program coordinators, event coordinators, and others under different heads. Budget is allocated in different heads. Audited budget is attached for your kind consideration.
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Items	Link of audited Budget statement
Infrastructure	https://jecrcfoundation.com/jf-data/NBA/infrastructure-budget.pdf
Maintenance	https://jecrcfoundation.com/jf-data/NBA/maintenance-Budget.pdf
library	https://jecrcfoundation.com/jf-data/NBA/library%20expenses.pdf

Schedulo 5

h = 160

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE DEPRECIATION CHART AS ON 31,03,2019

	Gross Block						Depreclation				Net Block	
ASSETS	As on 01.04.2018	Addi	llons	Doductions	As on 31.03.2019	Rate of Dop.	Upto 31.03.2018	Dop for the year	Writton Back	Depreciation upto 31.03.2019	As on 31.03.2019	As on 31.03.2018
		More than 180 Days	Loss than 180 Days			(1997) (1 202010-20	
Building	58,84,94,073.49	2,19,799.00	62 30 336 00	1	59 40 44 205 40	3 9.462	7 45 99 890 94	4 07 07 000 00		0 40 00 000 04	50 00 44 000 40	61 20 61 242 18
Land	16,86,34,611.62	the strength		-	10.00.04.014.00	0.04%	7,40,52,630.31	1,97,67,090.00	-	8,42,99,920.31	30.06,44,265.16	51,39,01,243.18
Land Consolidation	21,00,77,338.00			-	10.00,34.611.52	0.00%					16.65.34,611.62	16,86,34,611,62
Computer	2.84.98.005.83	7 49 583 00	8 25 025 00	-	21.00,77,336.00	0.00%	0.01.00.007.00				21,00,77,338.00	21.00,77,338.00
Furniture	3.67 48 038 12	12 88 683 00	14 00 000 00		3,00,71,513.63	16.21%	2,84,95,005.83	15,75,508.00		3,00,71,513.83		1
Other Accests	0.01.44.030.16	12,00.003.00	(4.20,085.00		3,94,61,607.12	6.33%	1,35,49,179.73	24,52,759.00	1	1,60,01,938.73	2.34,59,668.39	2,31,98,858.39
Other Assets	6,04,11,972.35	84,31,000.00	4,84,593.00		6.93.27.555.36	4.75%	1,91,88,002.53	32.81.550.00		2.24.69.552.53	4.68.58.012.83	4,12,23,969,83
Vehicle	2.02.33,053.57	- 20 - 10 - 10 - 20 - 20	and the second		2 02 33 053 57	0 50%	1 18 90 233 22	19 22 140 00	-	1 38 12 373 23	64 20 660 35	83 42 820 35
Bus	1,52,97,862.06				1 52 07 862 06	0.50%	1 13 08 128 40	14 53 297 00	-	1.00,16,070.66	75 26 420 56	20.00 720 00
TOTAL	1,12,83,92,953.05	1,05,87,065.00	89,67,740.00		1,14,80,47,758.05	0.0010	15.89.64.377.02	3.04.52.344.00		18.94.16.721.02	95.86.31.037.03	96.94.28.576.03

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attested 1.890 AIPUR

For Japur Engineering College & Research Ceyfra 4

President

For Jaipur Engineering College

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Accounts Officer U 1.

	JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE Schedul DEPRECIATION CHART AS ON 31.03.2020										Schedule 5					
	Gross Block							Deprecia		Net Block						
ASSETS	As on 01.04.2019	Additions		Deductions	Deductions As on F 31.03.2020	Deductions As on R 31.03.2020	Deductions As on Rate of Dep.	lions As on 1	As on 4 31.03.2020	eductions As on As	uctions As on Rate of Upto 31.03.2019 Dep for the year	te of Upto 31.03.2019 Dep for the Written Depre- bep. Upto 31.03.2019 year Back upto 31.		Depreciation upto 31.03.2020	0 As on 31.03.2020 As	As on 31.03.20
		More than 180 Days	Less than 180 Days													
Building	59,49,44,208 49	1,19,153.00	46,211.00		59.51.09.572 49	3.34%	9.42.99.920 31	1,98 75 888 00		11,41,75,808.31	48,09,33,764.18	50,06,44,288.				
Land	16,86,34,611.62				16.86.34.611.62	0.00%					16,86,34,611.62	16.85,34,611.6				
Land Consolidation	21,00,77,336.00				21.00.77.336.00	0.00%					21,00,77,336.00	21,00,77,336.0				
Computer	3.00,71,513.83				3 00.71 513 83	16 21%	3.00.71.513.83			3,00,71,513.83						
Furniture	3,94,61,607,12	2,71,956.00	35,282.00		3.97.68 845 12	6 33%	1 60 01 938 73	25.16.251.00		1,85,18,189.73	2,12,50,655,39	2,34,59,668.3				
Other Assets	6.93.27.565.36	4,19,863.00	3.62.609.00		7 01 10 037 36	4 75%	2 24 69 552 53	33 21 615 00		2,57,91,167.53	4.43.18.869.83	4.68.58.012.				
Vehicle	2,02,33,053,57				2 02 33 053 57	9 50%	1 38 12 373 22	19 22,140 00		1,57,34,513.22	44,98,540.35	64,20,680.3				
Bus	1,52,97,862.06				1.52.97 862 06	9.50%	1 27 61 422 40	14 53 297 00		1,42,14,719.40	10,83,142.66	25,36,439.0				
TOTAL	1 14 80 47 759 05	8 10 072 00	4 44 102 00	1	4 44 03 03 833 05		48 04 46 724 02	3 60 80 101 00		21 95 05 012 02	03 07 06 020 03	05 86 34 037 /				

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For Jaipur Engineering College And Research Centre

For Jaipur Enginearing College & Research Cyfire Bergydd Chalmen Chalmen

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Year	Budget allocated for infrastructure augmentation	Expenditure for infrastructure augmentation	Total expenditure excluding Salary	Expenditure on maintenance of academic facilities (excluding salary for human resources)	Expenditure on maintenance of physical facilities (excluding salary for human resources)	
2019-2020	20,00,000.00	12,55,074.00	25,50,88,527,82	14 57 094 00	21 44 757 00	
2018-2019	2,00,00,000.00	1,96,54,805.00	26,78,06,984,63	13,38,938,00	J1,44,737.00 46.82.137.00	
2017-2018	3,00,00,000.00	3,04,40,473.00	27,49,26,915,79	13 56 535 00	22.00 661.00	
2016-2017	10,50,00,000.00	10,43,67,912.00	23,36,91,762,43	11 26 487 00	50.97.260.00	
2015-2016	1,50,00,000.00	1,40,84,773.00	18,80,68,911,15	10 14 006 00	30,07,309.00	
2014-2015	50,00,000.00	65,32,079.00	16,01,03,616.30	11,86,962.00	60,10,724.00	

And Research Centre

Accounts/FinaAccounts 500

Chartered Account

JAIPUR ENG	INEERING COLL	EGE AND RESEARCH CENTRE	
Incor	ne and Expenditu	re A/c as on 31.03.2020	
Particulars	Amount	Particulars	Amount
To Affiliation Fee	11.82.000.00	By Appual Fee	28,60,75,961.49
To Conference Expenses	3 14 414 00	By Bus Fee	1,31,32,900.00
To Consultancy Expenses	46 800.00	By Hostel Fee	9,72,05,166.00
To Cultural & Placement Expenses	22.41.573.00	By Donation Received	1,00,00,000.00
To Electricity Expenses	50,89,153,06	By Misc Income	45,41,479.50
To Financial Charges	12.46.23.082.01	By Interest Received	1,80,324.00
To Hostel Expenses	2,15,49,875.00	By Excess of Expenditure over Income	32,84,695.83
To Office Expenses	16,74,645.00		
To Other Administrative Expenses	9,92,651.03		
To Repair & Maintenance	31,44,757.00		
To Repair & Maintenance Expenses (Vehicle)	18,79,644.00		
To Salary Expenses	15,93,31,999.00		
To Bus Running Expenses	46,97,556.78		
To Conveyance Exp	11,56,013.44		
To Diepreclation	2,50,89,191.00		
To Jesu rance Exp	10 29 542 00		
To insulance Exp	18 10 672 00		
To Internet Exp	9.75 121 00		
To Laboratory Expenses	2.01.182.00		
To Library Expenses	2,80,791.00		
To PF Demand	2,69,840.00		
To Scholarship	4,85,00,155.00		
To Security Expenses	24,58,365.00		
To Sports Expenses	30,636.00		
To Staffwelfare	6,30,920.00		
To Student Expenses	5 98 944 00		
To Travelling Exp	18 900 00		
To Uniform Expenses	56 328 00		
To Website Development Exp	11 11 00 505 00	_	41 44 20 526 82
	41,44,20,526.82	-	41,44,20,520.62
For Jaipur Engineering College and Res	earch Centre	As per our audit report of ev For Vimal Agarwal & Asso (Chartered Accountan	ven date ociates ts)
For Joiner Engineering College & R	esearch Contro	FRN: 004187C	Color and and
For Jatput Engineering Conege and	The second secon	One	- ((CA))
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(Chairman)	Citating	Partner	Contractory of the
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Place: Jaipur Date: 30.12,2020		refet	
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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE



<u>S. No</u>	CRITERIA	OBSERVATION MADE BY <u>NBA</u>	COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION)
10.2.2	10.2.2 Utilization of allocated funds	Poor budget utilization	As affiliated to Rajasthan Technical university and twenty year old college, mostly budget included maintenance and spare. As per new facility is concern, separate budget of Rs Ten lakh is provided for research facility at the department. Budget allocation for attending conferences, budget for start-up and incubation centre are allocated and utilized according to financial assistance. Audited budget is attached for your kind consideration. https://www.jecrcfoundation.com/n aacdata/Criteria%206/6.3.2/6.3.2%2 0Data%20template%20WEB.pdf

Items	Link of audited Budget statement
Infrastructure	https://jecrcfoundation.com/jf-data/NBA/infrastructure-budget.pdf
Maintenance	https://jecrcfoundation.com/jf-data/NBA/maintenance-Budget.pdf
library	https://jecrcfoundation.com/jf-data/NBA/library%20expenses.pdf

	-		indize	DEPRECIATI	ON CHART AS ON 3	1.03.2019	GENIRE					Scheding_b
	200	-	Gross Block	_				Deproclat	ion		Net	Block
ASSETS	As on 01.04.2018	Addi	tions	Doductions	As on 31.03.2019	Rate of Dep.	Upto 31.03.2018	Dop for the year	Writton Back	Depreciation upto 31.03.2019	As on 31.03.2019	As on 31.03.2018
		More than 180 Days	Less than 180 Days			0.00055						
Building	58,84,94,073.49	2,19,799.00	62,30,336.00		59 40 44 9ht 40	3 3/6	7 /6 12 830 34	1 07 67 000 00		0.40.00.000.01	50 05 44 300 10	61 20 61 2/2 18
Land	16,86,34,611.62				16 80 34 611 63	0.0472	1,40,02,000.01	1,97,01,080.00		8.42,98.820.01	10.00.44,600.10	40 00 34 014 03
Land Consolidation	21,00,77,338.00				21 00 77 000 00	0.00%					10.00.34.011.02	10.00,34,011.06
Computer	2.84.98.005.83	7.49.583.00	8 25 925 00	-	21.00,77,335,00	0.00%	0.01.00.005.60	10 30 105 55			21.00,77,335.00	21,00,77,336.00
Furniture	3.67.48.038.12	12 86 683 CD	14 26 202 00	7	3,00,71,513.03	10.21%	2.04,90,005.83	15,75,508.00		3,00,71,513.83		1
Othor Accure	E 04 11 070 98	81 51 555 55	14,20,000.00	-	3,84,61,607.12	0.33%	1,35,49,178.73	24,52,759.00		1,60,01,938.73	2,34,59,668,39	2,31,98,858.39
Vahiela	0,04,11,972.30	64,31,000,00	4,84,593.00	_	6,93,27,555.35	4.75%	1,91,88,002,53	32,81,550.00		2,24,69,552,53	4,68.58,012.83	4,12,23,969.83
Venue	2.02.33.053.57				2,02,33,053.57	9.50%	1,18,90,233,22	19,22,140.00		1.38,12,373 22	64,20,660,35	83,42,820.35
dus	1,52,97,862.06		- mainten		1.52.97.862.06	9.50%	1.13.08.125.40	14,53,297.00	-	1 27 61 422 40	25 36 439 66	39,89,736,66
TOTAL	1,12,83,92,953.05	1,06,87,065.00	89,67,740.00		1,14,80,47,758.05		15,89,64,377,02	3,04,52,344.00		18,94,16,721.02	95,86,31,037.03	96,94,28,576.03

JAIPUR ENGINEERING COLLECE AND DESERABLY STUDIES

For Japu Engineering College & Research Centra

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For Jaipur Engineering College And Resoluch Centre Accounts Officer



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JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Particulars	Amount	Particulars	Amount
	47 49 699 99	Contracted Free	29 19 68 746 77
To Amilation Fee	F 02 120 80	By Rus Eco	1 30,46,700.00
To Conterence Expenses	5,55,129.60	By Bus ree	9 99 66 670 00
To Consultancy Expenses	6,43,700.00	By Hostel Fee	84 057 50
To Cultural & Placement Expenses	31,78,068.12	By insurance Claim Received	3 79 413 87
To Financial Charges	17,50,48,344.45	By Interest Received	28 61 495 50
To Hostel Expenses	1,96,05,886.38	By Misc Income	20,01,100,00
To Office Expenses	15,94,158.27		
To Other Administrative Expenses	6,04,515.00		
To Repair & Maintenance Expenses (Vehicle)	15,48,819.00		
To Salary Expenses	12,48,05,675.00		
To Bus Running Expenses	39,31,066.26		
To Conveyance Exp	8,08,572.41		
To Depreciation	3,04,52,344.00		
To Diesel For Generator	4,01,900.00		
to Electricity Expenses	74,13,365.94		
To Insurance Exp	9,25,004.00		
to Interest on TDS	19,79,874.00		
To Internet Exp	9,73,342.00		
To Lab Expenses	1,58,652.00		
To Library Expenses	2,06,944.00		
To PF Demand	9,01,573.00		
To Repair & Maintenance	46,82,137.00		
To Scholarship	70,24,886.00		
To Security Expenses	22,97,038.00		
To Sports Expenses	17,010.00		
To Staffwelfare	2,58,427.00		
To Student Expenses	1,88,000.00		
To Students Project	85,000.00		
To Travelling Exp	2,58,509.00		
To UD Tax	62,843.00		
To Uniform Expenses	2,06,800.00		
To Website Development Exp	45,056.00		
To Excess Of Income Over Expenditure	1,56,94,424.01		
	40,83,07,083.64		40,83,07,083.64

For Jaipur Engineering College and Research Centre For Japur Engineering College & Research Perify



Place: Jaipur Date: 23.10.2019

For Jaipur Engineering Collage And R Sacci Centre Accounts Officer

s per our audit report of even date For Vimal Agarwal & Associates (Chartered Accountants) FRN: 004187C Our.

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(Vimal Agarwal) Partner M. No.: 071627 3 VD Avo DELA S 12100 No. Contraction

126

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY <u>NBA</u>	COMPLIANCE STATUS (ACTION TAKEN BY
<u>S. No</u> 10.3.1	CRITERIA	OBSERVATION MADE BY <u>NBA</u>	COMPLIANCE STATUS (ACTION TAKEN BY INSTITUTION) As affiliated to Rajasthan Technical university and twenty year old college, mostly budget included maintenance and spare. As per new facility is concern, separate budget of Rs Ten lakh is provided for research facility at the department.
	Program Specific Budget Allocation, Utilization 10.3.1 Adequacy of budget allocation	Inadequate budget allocation; arbitrary allocations and no proper justifications was made	Budget allocation for attending conferences, budget for start-up and incubation centre are allocated and utilized according to financial assistance. Department Head is intimated of the extent of funds allocated against the budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the departments. Audited budget is attached for your kind consideration. <u>https://www.jecrcfoundation.c om/naacdata/Criteria%206/6.</u> <u>3.2/6.3.2%20Data%20templat e%20WEB.pdf</u>

Items	Link of audited Budget statement
Infrastructure	https://jecrcfoundation.com/jf-data/NBA/infrastructure-budget.pdf
Maintenance	https://jecrcfoundation.com/jf-data/NBA/maintenance-Budget.pdf
library	https://jecrcfoundation.com/jf-data/NBA/library%20expenses.pdf

Jaipur Engineering College and Research Centre, Jaipur Subject: Expenditure for the session July2018-June2019 of Mechanical Engineering Department is as follows:

S. No	Category	Items	Budget Sanctioned(in Rs)	Total Expenditure (in Rs)	Expenditur e by Institute (in Rs)	Expenditur e other than Institute
1	Consumable	Labs	187000	125000	125000	Nil
2	Hardware &Software	 2 Stroke Petrol Engine Cut section Hydraulic Braking System Model Grinding of Milling Cutters and Drilling Attachment Steering System Models Pool Boiling Apparatus Wheel Balancing Machine Profile Projector Orsat Apparatus Drymess Fraction of Steam Simple Steam Turbine Model Stop Watch 	750000	6,39,770	6,39,770	Nil
3	Curricular activity	 International conference National conference FDP /Workshop Guest lecture/Industry visit 	315000	171576	4626	166950
4	Co-Curricular Activity	Technical Events(MECHTECH Activities) Moonrider activities	120000	89450	50000	39450
-			1372000	1025796	910206	20640

Submitted for your kind Information.

HOD ME weing

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Jaipur Engineering College and Research Centre, Jaipur Department of Mechanical Engineering Subject: Budget & Expenditure for session 2019-20

SER.

The Budget & expenditure for the session July2019-June2020 of Mechanical Engineering Department is as follows:

S.N.	Category	Items	Budget Sanctioned(in Rs)	Total Expend iture (in Rs)	Expenditure by Institute (in Rs)	Expendit ure other than Institute
1	Consumable	Raw Material For Workshop & Labs	160000	118225	120000	NIL
2	Hardware &Software	Machines and Equipments 1.Creep testing machine 2. Thermocouple for chip measurement 3. Cantilever beam with electric dynamometer	500000	nil	nil	NIL
3	Additional Facilities R& D	 Centre of Excellence (BABA automobile) Tchnical club (Moonrider) activities 3 D printing International conference National conference FDP /Workshop 7. Guest lecture/Industry visit 	700000	500000 50000 23550+ 3390	550000 3390	23550 national conferenc e (Generate 102500) Internatio nal conferenc e
4	Curricular & Co curricular Activities	Technical Events	120000	nil	nil	101500 (Generate)
			1530000	695165	673390	227550

Submitted for your kind Approval

Hon ME Head of the Orpatisment Mechanical Epimeering JECRC, Jaipur

		OBSERVATION MADE BY NBA	COMPLIANCE STATUS
<u>S. No</u>	CRITERIA		(ACTION TAKEN BY
			<u>INSTITUTION)</u>
10.3. 2	Program Specific Budget Allocation, Utilization 10.3.2 Utilization of allocated funds	Poor budget utilization as it not decided by the departmental authorities	As affiliated to Rajasthan Technical university and twenty year old college, mostly budget included maintenance and spare. As per new facility is concern separate budget of Rs Ten lakh is provided for research facility at the department and budget allocation for attending conferences, budget for start- up and incubation centre are allocated and utilized according to financial assistance. Department Head is intimated of the extent of funds allocated against the budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated for your kind consideration.

Items	Link of audited Budget statement
Infrastructure	https://jecrcfoundation.com/jf-data/NBA/infrastructure-budget.pdf
Maintenance	https://jecrcfoundation.com/jf-data/NBA/maintenance-Budget.pdf
library	https://jecrcfoundation.com/jf-data/NBA/library%20expenses.pdf

Jaipur Engineering College and Research Centre, Jaipur Subject: Expenditure for the session July2018-June2019 of Mechanical Engineering Department is as follows:

S. No	Category	Items	Budget Sanctioned(in Rs)	Total Expenditure (in Rs)	Expenditur e by Institute (in Rs)	Expenditur e other than Institute
1	Consumable	Labs	187000	125000	125000	Nil
2	Hardware &Software	 2 Stroke Petrol Engine Cut section Hydraulic Braking System Model Grinding of Milling Cutters and Drilling Attachment Steering System Models Pool Boiling Apparatus Wheel Balancing Machine Profile Projector Orsat Apparatus Drymess Fraction of Steam Simple Steam Turbine Model Stop Watch 	750000	6,39,770	6,39,770	Nil
3	Curricular activity	 International conference National conference FDP /Workshop Guest lecture/Industry visit 	315000	171576	4626	166950
4	Co-Curricular Activity	Technical Events(MECHTECH Activities) Moonrider activities	120000	89450	50000	39450
-			1372000	1025796	910206	20640

Submitted for your kind Information.

HOD ME weing

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Jaipur Engineering College and Research Centre, Jaipur Department of Mechanical Engineering Subject: Budget & Expenditure for session 2019-20

JEER

The Budget & expenditure for the session July2019-June2020 of Mechanical Engineering Department is as follows:

S N	o Category	Items	Budget Sanctioned(in Rs)	Total Expend iture (in Rs)	Expenditure by Institute (in Rs)	Expendit ure other than Institute
1	Consumable	Raw Material For Workshop & Labs	160000	118225	120000	NIL
2	Hardware & Software	Machines and Equipments 1.Creep testing machine 2. Thermocouple for chip measurement 3. Cantilever beam with electric dynamometer	500000	nil	nil	NIL
3	Additional Facilities R& D	 Centre of Excellence (BABA automobile) Tchnical club (Moonrider) activities 3 D printing International conference National conference FDP /Workshop Guest lecture/Industry visit 	700000	500000 50000 23550+ 3390	550000 3390	23550 national conferenc e (Generate 102500) Internatio nal conferenc e
4	Curricular & Co curricular Activities	Technical Events	120000	nil	nil	101500 (Generate
			1530000	695165	673390	227550

Submitted for your kind Approval

HOD ME Head of the Department Mechanical Engineering JECRC, Jaipur ment

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY <u>NBA</u>	<u>COMPLIA</u> <u>TAKE</u>	<u>NCE STATUS (ACTION</u> N BY INSTITUTION)
10.4.1	Library and Internet 10.4.1 Quality of learning resources (hard/soft)	10.4.1 Quality of learning resources (hard/soft) Limited number of e- resource facilities	Institute conti facilities. All t resource facili e-resources Lectures notes Lab Videos Swayam link NPTEL Virtual lab	nuously enrich e-resource he information related to e- ties is available on website. Link of e-resources <u>https://jecrcfoundation.c</u> <u>om/student-corner/notes</u> <u>https://jecrcfoundation.c</u> <u>om/student-corner/lab- videos</u> <u>https://jecrcfoundation.c</u> <u>om/pdf/swayam/Swaya</u> <u>m-ME.pdf</u> <u>https://jecrcfoundation.c</u> <u>om/pdf/nptl/NPTEL- ME.pdf</u> <u>https://jecrcfoundation.c</u> <u>om/pdf/virtual%20lab%</u> <u>20expression%20of%20</u> <u>interest.pdf</u>

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Select Branch Mechanical Engineering Subject Notes 1.Course Details-DME-Lpdf 2.DME-I Notes UNIT-Lpdf 3.DME-I Notes UNIT-2.pdf 4.DME-I Notes UNIT-3.pdf 5.DME-I Notes UNIT-4.pdf	Select Semester 5th Semester		Select Subject DESIGN OF MACHINE ELEMENTS-I Cownload Download Download Download Download Download Download	



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	3	Electronics & Comminication		View Link	
	4	Electrical Engineering		ViewLink	
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	5	Information Technology		View Link	
	6	Mechanical Engineering		View Link	

<u>S. No</u>	CRITERIA	OBSERVATION MADE BY NBA	<u>COMPLIANCE STATUS (ACTION</u> <u>TAKEN BY INSTITUTION)</u>
10.4. 2	Library and Internet 10.4.2 Internet	Limited Wi-Fi facilities, internet access in labs, classrooms, library and offices.	The <i>entire campus</i> including the hostels is high speed <i>Wi-Fi</i> enabled and users can access the <i>internet</i> on their laptops round the clock. <u>https://jecrcfoundation.com/library-</u> <u>facilities</u>

Room number or Name of	Type of ICT	Link to geo tagged photos and
classrooms/Seminar Hall	facility	master time table
with LCD /WiFi/LAN		
facilities with room		
numbers		
DF-3Classroom)	WI-FI+DESKTOP+PROJECTOR	
DS-1(Classroom)	WI-FI+DESKTOP+PROJECTOR	link for geotagged photos
DS-3(Classroom)	WI-FI+DESKTOP+PROJECTOR	
DS-5(Classroom)	WI-FI+DESKTOP+PROJECTOR	
CLG-02 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CLG-06 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CLG-05 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CG-05(Seminar Hall)	WI-FI+DESKTOP+PROJECTOR	
CG-06 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CG-08 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CG-09 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
	LAN+WI-FI+ROOFTOP	
CS-01 (Seminar Hall)	PROJECTOR	
CF-03 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CF-06 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CF-07 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CF-13 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CS-03 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CS-04 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CS-05 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CS-08 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CS-09 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CS-18 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
	WI-FI +LAN+ROOFTOP	
CT-1 (Seminar Hall)	PROJECTOR	
CT-04 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CT-05 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CT-07 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CT-11 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CT-12 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CT-13 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CT-19 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
CT-20 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BLG-13 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BLG-19 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BG-07 (Classroom)	WI-FI+DESKTOP+PROJECTOR	-
BG-14 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BG-19 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BF-01 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BF-06 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BF-13 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BF-18 (Classroom)	WI-FI+DESKTOP+PROJECTOR	
BS-01 (Classroom)	WI-FI+DESKTOP+PROJECTOR	1

BS-06 (Classroom)	WI-FI+DESKTOP+PROJECTOR
BS-08 (Classroom)	WI-FI+DESKTOP+PROJECTOR
BS-12 (Classroom)	WI-FI+DESKTOP+PROJECTOR
BT-01(Classroom)	WI-FI+DESKTOP+PROJECTOR
BT-04(Classroom)	WI-FI+DESKTOP+PROJECTOR
BT-06(Classrom)	WI-FI+DESKTOP+PROJECTOR
BT-07 (Classroom)	WI-FI+DESKTOP+PROJECTOR
BT-14 (Classroom)	WI-FI+DESKTOP+PROJECTOR
BT-19 (Classroom)	WI-FI+DESKTOP+PROJECTOR
AG-05 (Classroom)	WI-FI+DESKTOP+PROJECTOR
AG-06 (Classroom)	WI-FI+DESKTOP+PROJECTOR
	WI-FI +LAN+ROOFTOP
AF-01 (Seminar Hall)	PROJECTOR
AF-07 (Classroom)	WI-FI+DESKTOP+PROJECTOR
AF-09 (Classroom)	WI-FI+DESKTOP+PROJECTOR
AS13 (Classroom)	WI-FI+DESKTOP+PROJECTOR
AS14 (Classroom)	WI-FI+DESKTOP+PROJECTOR
AS15 (Classroom)	WI-FI+DESKTOP+PROJECTOR
AS16 (Classroom)	WI-FI+DESKTOP+PROJECTOR
	WI-FI +LAN+ROOFTOP
CF12(Seminar Hall)	PROJECTOR



Declaration

It is hereby declared that information provided in this Compliance Report is factually correct. I understand and agree that an appropriate action against the institute will be initiated by the NBA (which may include debarring the institution for three years), in case any false statement/information is observed during the assessment of the compliance report.

Date: 03/03/2021 Place: Jaipur

Prof. Vinay Kumar Chandna (Principal)

PRINCIPAL JelpurEngineesing College & Pressorsh Contro Took Rood, Jelpur-2003



Jaipur Engineering College and Research Centre Approved by AICTE & Affiliated to RTU JECRC Campus, Shri Ram Ki Nangal, Via Sitapura RIICO, Opp. EPIP Gate, Tonk Road, Jaipur 302 022 t: 0141 2770120, 2770232 f: 0141 2770803 e: info@jecrcmail.com