JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

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

Department of civil Engineering

Format for Academic Audit (2021-22)

Name of the Department: Civil Engineering

Date: 9/07/2022

Academic Audit Experts:

1. Name: **Mr. Mahendra Singer**

   Designation: **Assistant Professor**

   Affiliation: **Vivekanand Global University, Jagatpura Jaipur**

2. Name: **Mr. Mahendra Saini**

   Designation: **Assistant Professor**

   Affiliation: **Regional Engg. College Sitapura, Jaipur**

Members of Staff Present: 1) Dr. Krishan Kumar Saini
2) Mr. Hetram Sharma
3) Mr. Yogesh Kumar Agarwal
4) Mr. Jitesh Kumar Jain
5) Mr. Sumit Saini

Criterion	Items	Verification Yes / No	Comments	Suggestions for improvement
1) Curriculum	Contents of the Curriculum	Yes	Affiliated to Rajasthan Technical University(RTU), Kota	Appreciated and suggested to identify content beyond related to design and analysis approaches, electric vehicle and AI.
	Validation Done	Yes	Checked the Course-Plan of subjects taught	More innovation like practical /industrial aspects can be included

PRINCIPAL
Jaipur Engineering College &
Research Centre
Tonk Road, Jaipur-302022

	IDC / EDC	No	-	-
	Credits allotted / distribution-logic	Yes	Rajasthan Technical University (RTU) defined Credits	-
2. Curriculum Transaction	Teaching Methods & Teaching Aids	Yes	Through Black/White Boards, Expert Lectures/Talks, workshops, Webinar, etc.	Lectures from Industry Experts can also be included
	E-learning modules	Yes	Utilization of NPTEL content, Swayam Lectures, Youtube Video Lectures, etc.	Content from Prominent universities can also be taken as reference
	Project work UG/PG	Yes	Curriculum as well as beyond Curriculum Inter-disciplinary projects, webinar from 2nd year onwards	External Participation contribution must be increased
	Internal Assessment Components - Uniqueness	Yes	Unit Tests/MTTs are there for assessment of students with appropriate marks distribution and good evaluations	Step by step marking must be there in evaluation rather than only in solution making.
	Student Support - Remedial Coaching	Yes	Different Student-groups are provided with different mentors who listen and rectify the issues related to academics/non-academics	Mentors must be in communication with their respective parents also.
	Parents Open House Meeting-Evaluation of Student's Progress	No	Is Not Sufficient	Regular PTMs shall be there (at least Twice a Semester)
	Feedback from Students	Yes	Online/Offline (Through Mentors as well as TPO) feedback system is there	Action taken after such kind of feedback analysis must also be put on paper with Importance.
	Steps taken on the Feedback	Yes	Common issues are discussed in department meetings and concerned faculties are informed	Efficient support system can be designed by involving

			personally about such issues	student coordinators
3. Faculty Profile	Projects completed / on going	No	Nil	Need to work in this area to grab some granted-projects
	Seminars / Conferences attended	Yes	Monthly updating is done through Google sheet entries	Has to increase the numbers
	Papers / Articles / Books published	Yes	Monthly updating is done through Google sheet entries	Has to increase the numbers
	FDP / RC / OC / Training Program / Workshop	Yes	Very less in numbers	Outside participation must be increased
	Preparation of e-learning materials / Content	Yes	Videos on Labs along with lectures are there but not in ample quantity	Faculties must be motivated to deliver at least 35 to 40 % of content through this mode
	Acted as resource persons	No	Faculty participation external to institute is very less	Faculty more improve on this
4. Profile of Students	Demand ratio (Applications received versus Sanctioned Strength)	Yes	384 Students available	Must work to fill the seats sanctioned to the department by RTU
	Students Involvement in Extra-Curricular & Co-Curricular Activities	Yes	Clubs for co-curricular and extra-curricular activities are formed and students are energetically participating in the same and data is well maintained	External participation must be increased
	Study Tour / Industrial Visits / Exhibitions / Internship / Training	Yes	Industrial visit and Trainings are there on a regular basis But very less study tours/exhibitions	Need to increase the number of student participation and also start study tours to good universities

PRINCIPAL
Jaipur Engineering College &
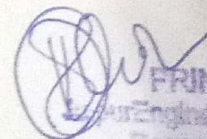Research Centre
Tonk Road, Jaipur-302022

	Achievements	Yes	As participation of students outside campus is very less so very less achievements outside But In-house achievements are well maintained	Need to motivate the students and develop a financial system to support this
5. Infrastructure in the Department	No. of Classrooms	Yes	6 Lecture Rooms for 6 Sections	Sufficient lecture rooms
	No. of Laboratories	Yes	8- Branch specific Labs	Ample Laboratories
	No. of Computers - for Teachers	Yes	No. of computers – for teachers- 05 Also Faculties carry their own Laptops and Wi-Fi facility to all is provided by department. are utilized by faculties.	A separate computer lab (3-4 systems) can be developed for use of faculties only
	No. of Computers – for Students	Yes	No. of computers – for Students - 28	Sufficient no. of computers are there but need to improve their configurations along with the software
	No. of Computers – Research Scholars	Yes	Each lab has some extra PCs that are utilized by faculties/students for this purpose	Research oriented software need to be installed
	No. of Instruments	Yes	Stock file for each lab is checked and verified randomly physically for Each lab.	Faulty instruments need to be Corrected.
6. Activities of the Department	MoUs signed	Nil	Nil.	Department is advised to sign long term MOUs so that some stuff can be delivered on the part of quality Education and career thereafter.

PRINCIPAL
JaipurEngineering College &
Research Centre
Tonk Road, Jaipur

Consultancy	Nil	Nil.	Number is limited. Has to motivate the faculties to spare some time for Such activities.
Collaborations	Nil	Nil.	Participation/ Applications are less in number. It must be increased so that it can reflect the years of experience of Department.
Association Meetings	Nil	Nil.	NIL
Guest lectures	Yes	Very little guest lectures and those ones are not professor-level	Professor-level faculties from well-known institutes shall be approached
Conference / Seminar /Workshop conducted	Yes	1 conferences,1 workshops and 2 Seminars	Need to increase the numbers
Extension Activity	Yes	Department involvement in different social activities is remarkable and the events that department participated enthusiastically are Blood Donation, Zarurat, Tree plantation, Evening classes, etc.	Some extra social requirements must be taken care of with faculty participation too.
Interaction with Industry / Research Centres /	Yes	For Industrial visit and Placements only	Interactions can be extended for Internships /
Educational Institutions			Research and also for collaborations

Newsletters / Magazine	Yes	Twice a year with name "CONSTRUCTO" reflecting the highlights of activities conducted within department	Student involvement must be there
Placement	Yes	48 Out of 132 students (36.36 %) got placed (42 Inset plus 6 Outset)	Need to improve on these numbers and kind of companies

Please comment on SWOT Analysis:

Strength:
- Motivated and Proactive faculty members who deliberately find ways to get better the students' performance and also works for self-updating too.
- Teaching-Learning environment through resource utilization is very good.
- Examinations, Evaluations and procedures to improve on students' performance is commendable.

Weakness:
- Research Area in terms of levelled paper publishing must be improved.
- Parents' contribution through regular meetings shall be there to improve facility-wise as well as performance-wise.

Opportunities:
- Students' outside participation can be improved which will give them a global platform.
- Students can be clubbed with faculties for funded-projects as well as for writing research papers.
- Opportunities for Internship/Job can be extracted out with industry interactions.

Challenges:
- To teach students Modern Equipment / Set-Ups / Software shall be added in labs.
- Communication skill/personality development classes for students shall start from 1st year so that it can help in placements.

PRINCIPAL
JaipurEngineering College &
Research Centre
Tonk Road, Jaipur-3
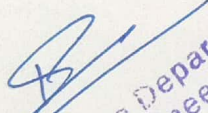
Best Practice (s) / Innovations of the Department:

- Mentoring for students is a good initiative.
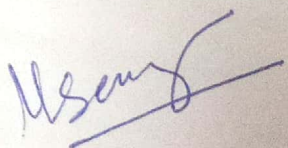- Recording of experiments of various laboratories.

Future of the Department:

- The department is working in all dimensions e.g. in Students' continuous development through a well-defined syllabus, utilizing various delivery modes for teaching, proper evaluation and continuous improvement through various mechanisms and also in the field of Faculty development.
- There is a continuous improvement in the performance of department in terms of University Results, Student-Placements, Knowledge Impart, Industrial Interactions, Socio-cultural Involvement and Research in terms of papers and product develeopement.
- As a mature department, there is a need now to inculcate some novel approaches that are a part of established institutions e.g. Student and Faculty-Exchange Programs, State of Art Lab development, Health-Club, regular Alumni Meets, etc. to keep the students/faculty updated with latest technological developments and to cater the needs of Industry.
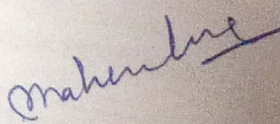
Signature of the HOD with Seal

Head of the Department
Civil Engineering
JECRC Jaipur

Signature of the Academic Audit Experts

1). Name: Mr. Mahendra Singer

Signature:

2). Name: Mr. Mahendra Saini

Signature:

PRINCIPAL
Jaipur Engineering College &
Research Centre
Tonk Road, Jaipur-302022

JECRC

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE
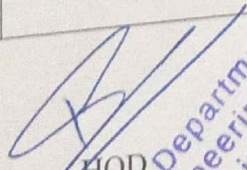
INTERNAL AUDIT CORRECTION REPORT

Academic year 2021-22

DQAC			
PROCESS	Academic Process	DATE	July 14, 2022
Auditors	1. Hitesh Nagar 2. Yogesh kr Agarwal	Auditees	
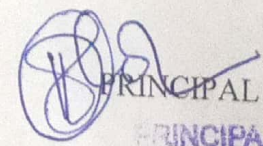
Sr. No	Observation	Type	Correction
1	Course file (Mr Sumit Saini)	Separate	All course files completed by corresponding faculty.
2	Academic Diary (Mr Sumit Saini)	Separate	Completed and checked by course coordinator.
3	Defaulter list (All CC's)	Separate	done as per policy
4	Mapping of all subjects	Separate	Subject wise mapping completed.
5	Industry feedback data	Separate	Department has collect feedback form from individually of all the years students in separate file format.

Sr. No	Observation	Type	Correction
1	All Academic process		All academic work Completed as per academic colander.
2	Course File	individual	All files are complete in given IQAC Format
3	PO and PEOs and CO and PSO's	CO for individual subject	PO marked with all department discussion, and it wills same till next changes.
4	Mapping	For individual subject	Mapping done subject wise by corresponding faculties.
5	Student feedback analysis index	Separate	Department has collect feedback form from individually of all the years students in separate file format.
6	Industry feedback analysis index	Separate	Department has collect feedback form from individually of all the years students in separate file format.

PRINCIPAL
JaipurEngineering College &
Research Centre
Tonk Road, Jaipur-302022

	Alumni feedback analysis index	Separate	Department has collect feedback form from individually of all the years students in separate file format.
8	Remedial Lectures /Mentoring file	Separate	Mentoring file make by the mentors those were the mentor of different groups of different years, according RTU calendar.
9	Advance Learners		
10	Slow learners' efforts taken	In Course File	Advanced Learners are identified from course outcome analysis.
11	Add on Courses	In Course File	Slow Learners are identified from course outcome analysis.
12	Seminars/Guest Lectures		add on course conducted as per RTU guidelines.
13	Social Activities/ Ethical/Moral value education		Seminar and guest lecture of the year 2021-22 completed as per academic calendar.
14	Higher Education data	Individual	Done as per event scheduled in calendar.
15	Internship data		Higher Education data of pass out students has, those are connected with the college.
16	Student final year project	Separate	Internship data available in soft copy and hard copy also.
18	All files (Sample tested)	Separate	Project ppt's (soft copy) and files available in the hard copy.
19	Previous Students punched old files, exam record	Separate	All sample files are available in hard copy.
20	Existing submission		Previous Students records Available in exam cell in hard copy.
21	Training needed identification teaching, nonteaching		work completed as per scheduled
22	Budget		Department budget for lab, seminar and other technical activities issued form college per year as per college policy.
23	Library details		Department have own library, in which every faculty of department donate 10 book in a year for department library, and more than 400 book are available at present.
24	FDP/Publications	Separate	Publication certificate are available in soft and hard copy in IQAC format.
25	Curricular and co-curricular activities		Curricular and co-curricular activities had done as per schedule and students record also available in the department.

HOD
(CIVIL)
Head of the Department
Civil Engineering
JECRC Jaipur

PRINCIPAL
PRINCIPAL
Jaipur Engineering College &
Research Centre
Tonk Road, Jaipur-302022