JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Civil Engg.

Part A : Institutional Information

1 Name and Address of the Institution

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE,
SHRI RAM KI NANGAL SITPURA RIICO EPIP GATE

2 Name and Address of Affiliating University

RAJASTHAN TECHNICAL UNIVERSITY

3 Year of establishment of the Institution:

2000-2000

4 Type of the Institution:

☐ University	☐ Autonomous
☐ Deemed University	☑ Affiliated
☐ Government Aided	

5 Ownership Status:

☐ Central Government	☐ Trust
☐ State Government	☐ Society
☐ Government Aided	☐ Section 25 Company
☑ Self financing	☐ Any Other(Please Specify)

6 Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of Institutions	Year of Establishment	Programs of Study	Location
JECRC UNIVERSITY	2012	UG, PG and Ph.D	JAIPUR

7 Details of all the programs being offered by the institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Bachelor of Technology	UG	2009	2009	60	Yes	60	Applying first time	--	--	Yes	4

Sanctioned Intake for Last Five Years for the Bachelor of Technology	
Academic Year	**Sanctioned Intake**
2023-24	60
2022-23	90
2021-22	120
2020-21	120
2019-20	120
2018-19	120

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engg.
2	Under Graduate	Engineering & Technology	Electrical Engg.

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2023-24		2022-23		2021-22	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	109	124	104	116	108	124
Faculty in Engineering (Female)	73	92	55	60	52	63
Faculty in Maths, Science & Humanities (Male)	16	20	17	18	15	15
Faculty in Maths, Science & Humanities (FeMale)	15	23	23	23	22	24
Non-teaching staff (Male)	40	42	34	40	32	33
Non-teaching staff (FeMale)	0	0	0	1	1	1

B. Contractual* Employees (Faculty and Staff):

Items	2023-24		2022-23		2021-22	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	5	5	4	4	4	4
Faculty in Engineering (Female)	0	0	1	1	1	1
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (FeMale)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (FeMale)	0	0	0	0	0	0

10 Total number of Engineering Students:

Engineering and Technology- UG	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☐ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☐ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Items	2023-24	2022-23	2021-22
Total no. of Boys	2916	2881	2824
Total no. of Girls	864	821	753
Total	**3780**	**3702**	**3577**

11 Vision of the Institution:

Our Vision

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

12 Mission of the Institution:

Our Mission

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

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution	
Name	Dr Vinay Kumar Chandna
Designation	Principal
Mobile No.	9891406784
Email ID	principal@jecrcmail.com

NBA Coordinator, If Designated

Name	Dr. Mahendra Pratap Singh
Designation	Professor
Mobile No.	9414203639
Email ID	mpsingh.me@jecrc.ac.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	122.94
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	138.68
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	44.07
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	119.00
	Total	**1000**	**905**

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

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

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	**Our Vision** • Vision To become a renowned centre of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities**.**
Mission of the institute	**Our Mission** • Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning. • Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions. • Offer opportunities for interaction between academia and industry. • Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.
Vision of the Department	To produce competent and professional Civil Engineers for the sustainable development of the society.
Mission of the Department	**Mission No.** / **Mission Statements** M1 — To provide outcome based education and promoting research aptitude. M2 — To create a learning environment conducive to industrial requirements M3 — To inculcate the pedagogy of continues learning, ethical values and social responsibility.

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To provide students with the fundamentals of Engineering Sciences with more emphasis In Civil Engineering by way of analyzing and exploiting engineering challenges.
PEO2	To provide students with the fundamentals of Engineering Sciences with more emphasis In Civil Engineering by way of analyzing and exploiting engineering challenges.
PEO3	To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate Civil Engineering. Issues with social issues.
PEO4	To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-long learning needed for a successful professional career in Civil Engineering.
PEO5	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 in Civil Engineering.

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

Total Marks 10.00

Institute Marks : 10.00

- Locations where the Vision, Mission, PEOs and PSOs are published:

Sr. No	Location	Institute		Department			
		Vision	Mission	Vision	Mission	PEO	PSO
1	Institute Website/ Departmental Webpage http://jecrcfoundation.com/ (http://jecrcfoundation.com/)	✓	✓	✓	✓	✓	✓
2	Department News Letter & Notice Board	✓	✓	✓	✓	✓	✓
3	Course File	✓	✓	✓	✓	✓	✓
4	Lab Manual	✓	✓	✓	✓	✓	✓
5	Conference Workshop/ Brochures	✓	✓	✓	✓	✓	✓

Locations where the Vision, Mission, PEOs and PSOs are disseminated:

Sr. No	Location	Institute		Department			
		Vision	Mission	Vision	Mission	PEO	PSO
1	Department Office	✓	✓	✓	✓	✓	✓
2	HOD Room	✓	✓	✓	✓	✓	✓
3	Class Rooms	✓	✓	✓	✓	✓	✓
4	Laboratories	✓	✓	✓	✓	✓	✓
5	Department Notice Board	✓	✓	✓	✓	✓	✓
6	Seminar/ Conference Hall	✓	✓	✓	✓	✓	✓
7	Email of Staff Members	✓	✓	✓	✓		

The Vision, Mission and PEOs are also disseminated among internal and external stakeholders via

- Student orientation program among all students at the beginning of each semester
- Management, BOG/IQAC Meeting
- Faculty Meeting
- Alumni Meeting
- Industry Institute Interaction
- Webinar /Seminar /Guest Lectures /Expert Lectures

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25) Total Marks 25.00

Institute Marks : 25.00

Procedure for Defining the Vision of the Department

Step 1. A departmental committee was established and placed under the direction of the department head. The committee then suggested the department vision statements while keeping the inputs from the stakeholder's and other renowned institutes/university's vision in mind as well as mapping with the institutes vision.

Step 2. IQAC and stakeholders were given drafts of the vision statement for obtaining their review/feedback.

Step 3. Modifications were made to the Vision statements based on input from IQAC and different stakeholders.

Step 4. The Principal of the institute received the department's revised vision for approval.

Step 5. Updates were made to the Vision statements based on input from the Principal of the institute and resubmitted through IQAC for approval.

Step 6. The Principal of the institute approved the Vision statement.

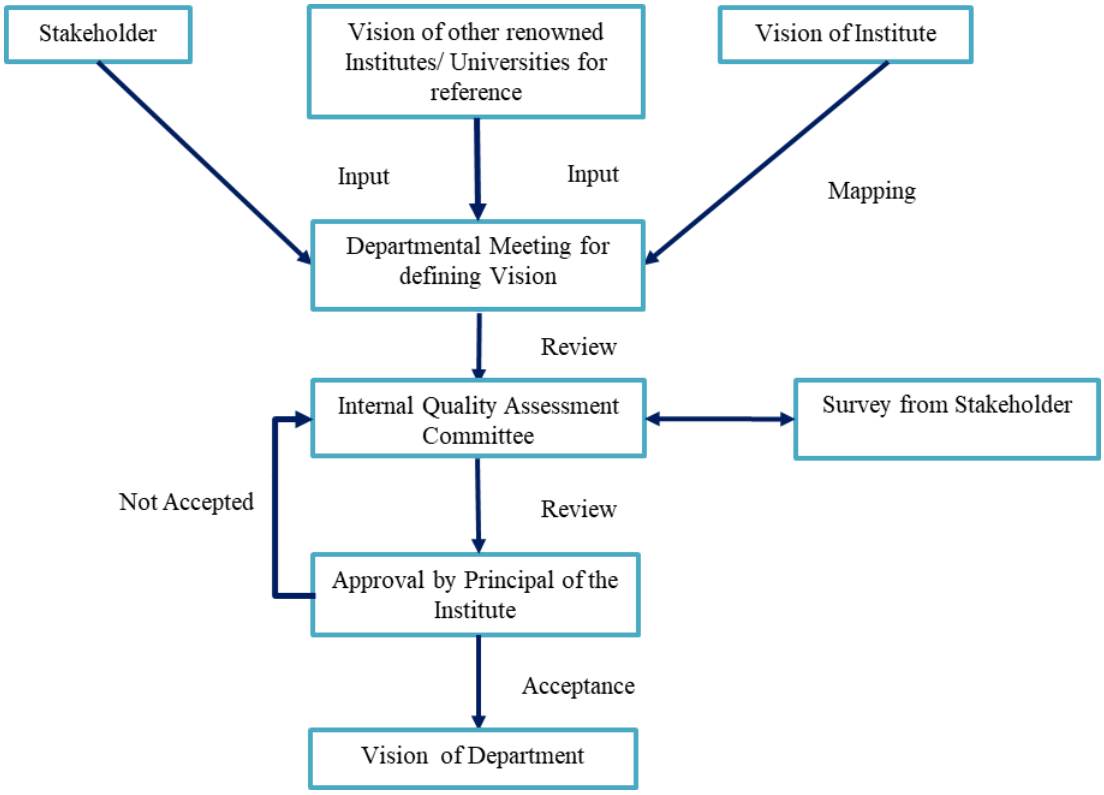


Figure1.4 (A): Procedure for Defining the Vision of the Department

Procedure for Defining the Mission of the Department

Step 1. A departmental committee was established and placed under the direction of the department head. The committee then suggested the department mission statements while keeping the inputs from the stakeholder's and department's vision in mind as well as the institutes vision and mission.

Step 2. IQAC and stakeholders were given drafts of the mission statements for obtaining their review/feedback.

Step 3. Modifications were made to the Mission statements based on input from IQAC and different stakeholders.

Step 4. The Principal of the institute received the department's revised mission for approval.

Step 5. Updates were made to the Mission statements based on input from the Principal of the institute and resubmitted through IQAC for approval.

Step 6. The Principal of the institute approved the Mission statements.

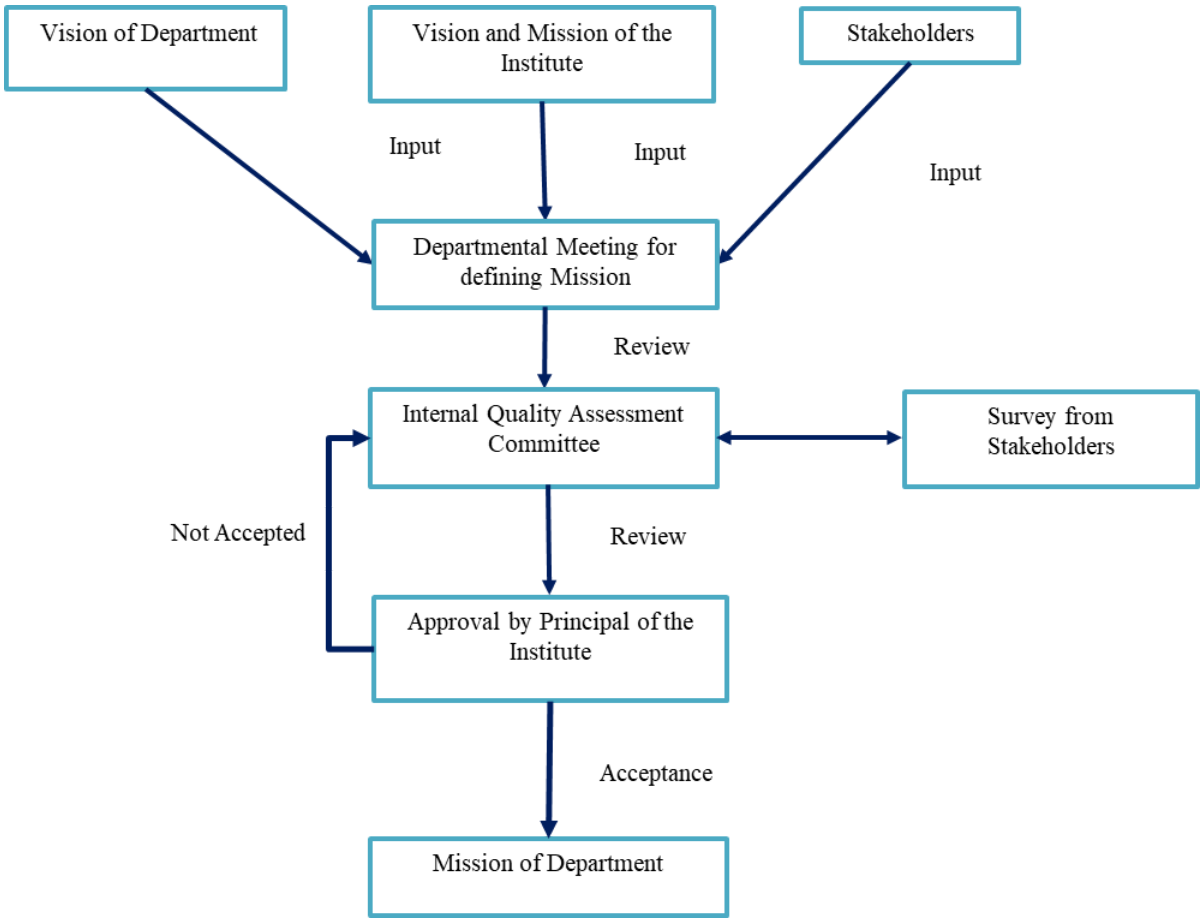


Figure1.4 (B): Procedure for Defining the Mission of the Department

Procedure for Defining the Program Educational Objectives (PEOs) of the Department

Step 1.A departmental committee was established and placed under the direction of the department head. The department heads committee discussed the department Program Educational Objectives (PEOs) while keeping in mind the departments vision and mission, inputs from the stakeholders, graduate attributes recommended by NBA, and the programs outcomes.

Step 2.IQAC and stakeholders were given drafts of the Program Educational Objectives (PEO's) statements for obtaining their review/feedback.

Step 3. Modifications were made to the Program Educational Objectives (PEO's) statements based on input from IQAC and different stakeholders.

Step 4. The Principal of the institute received the department's revised Program Educational Objectives (PEO's) for approval.

Step 5. Updates were made to the Program Educational Objectives (PEO's) statements based on input from the Principal of the institute and resubmitted through IQAC for approval.

Step 6. The Principal of the institute approved the PEO's statements.

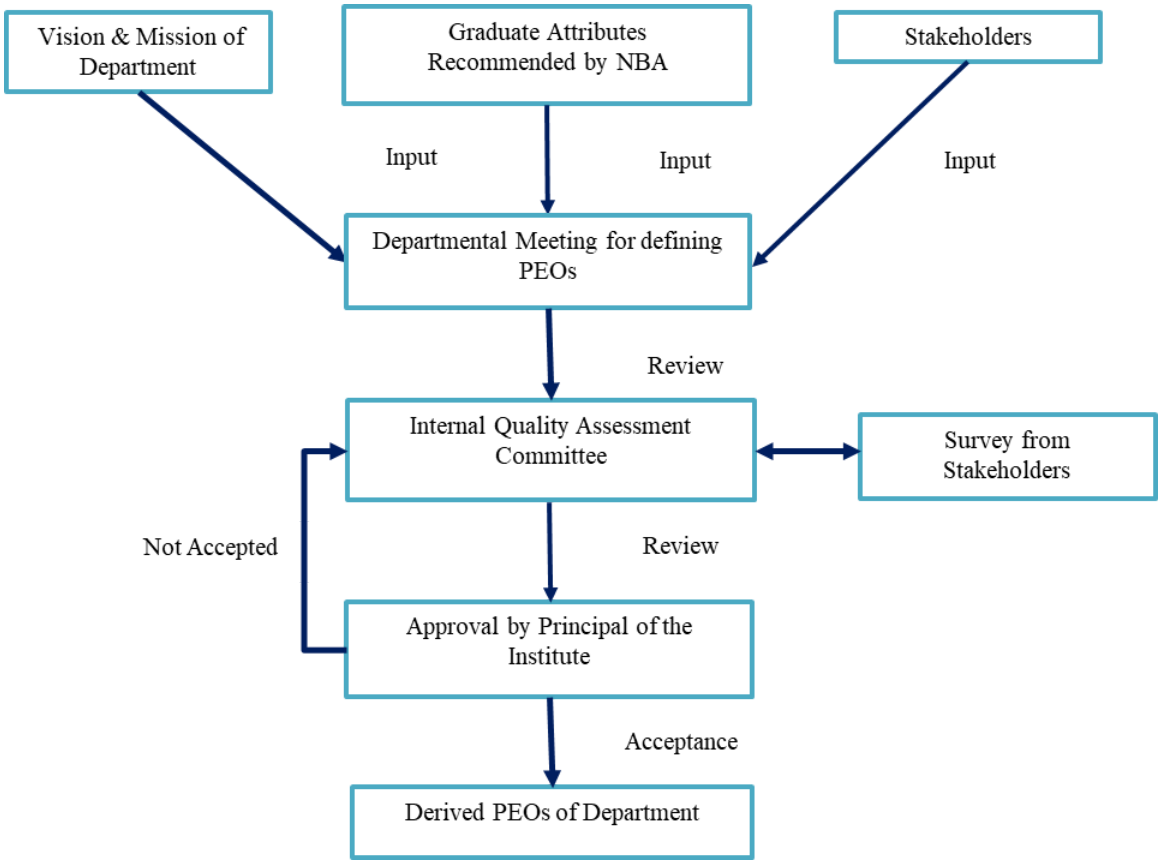


Figure1.4 (C): Procedure for Defining the PEOs of the Department

1.5 Establish consistency of PEOs with Mission of the Department (15) Total Marks 15.00

Institute Marks : 15.00

The table below shows the consistency of **Program Educational Objectives (PEOs)** with the **Mission of the Department.** The rationale behind the ratings (1: Slight, 2: moderate, 3: substantial) is explained as follows:

- PEOs are divided into keywords, and the correlation between these keywords and each Mission is examined.
- Feedback from stakeholders is collected to assess the level of consistency. If the consistency between a PEO and a mission is found to be above 90%, a rating of **(3)** is assigned. If the consistency falls between 75% and 90%, rating of **(2)** is assigned. If the consistency falls below 75% rating of **(1)** is assigned.

Why Substantial (3):

A rating of (3) is assigned when more than 90% of keywords in the PEO show alignment with the mission. This indicates that the PEO is highly consistent with the mission of the department, covering all aspects of the mission effectively.

Why Moderate (2):

A rating of (2) is assigned when 75% to 90% of keywords in the PEO show alignment with the mission. This indicates that the PEO is moderately consistent with the mission but does not cover all aspects comprehensively.

Why Slight (1):

A rating of (1) is assigned when less than 75% of the keywords in the PEO show alignment with the mission. This indicates a weak or minimal consistency between the PEO and the departments mission.

Table 1.5 (A): Consistency of mapping of PEO 1 with Mission

PEO 1 Keywords	**Mission**		
	To provide outcome based education and promoting research aptitude.	To create a learning environment conducive to industrial requirements	To inculcate the pedagogy of continues learning, ethical values and social responsibility
Fundamentals of Engineering Sciences.	**3**	**3**	**3**
Analyzing and exploiting Engineering Challenges.	**3**	**3**	**3**

Table 1.5 (B): Consistency of mapping of PEO 2 with Mission

PEO 2 Keywords	**Mission**		
	To provide outcome based education and promoting research aptitude.	To create a learning environment conducive to industrial requirements	To inculcate the pedagogy of continues learning, ethical values and social responsibility
Good scientific and engineering knowledge.	**3**	**3**	**3**
Create novel products and solutions for the real life problems.	**3**	**3**	**3**

Table 1.5 (C): Consistency of mapping of PEO 3 with Mission

PEO 3 Keywords	**Mission**		
	To provide outcome based education and promoting research aptitude.	To create a learning environment conducive to industrial requirements	To inculcate the pedagogy of continues learning, ethical values and social responsibility
Professional and ethical attitude	**3**	**3**	**3**
Communication skills, teamwork skills	**3**	**3**	**3**
Multidisciplinary approach	**3**	**3**	**3**
Entrepreneurial thinking	**3**	**3**	**3**
Relate Civil Engineering issues with social issues	**3**	**3**	**3**

Table 1.5 (D): Consistency of mapping of PEO 4 with Mission

PEO 4 Keywords	**Mission**		
	To provide outcome based education and promoting research aptitude.	To create a learning environment conducive to industrial requirements	To inculcate the pedagogy of continues learning, ethical values and social responsibility
Academic environment aware of excellence, leadership, written ethical codes	**3**	**3**	**3**
Successful professional career	**3**	**3**	**3**

Self-motivated life- long learning	**3**	**3**	**3**

Table 1.5 (E): Consistency of mapping of PEO 5 with Mission

PEO 5 Keywords	**Mission**		
	To provide outcome based education and promoting research aptitude.	To create a learning environment conducive to industrial requirements	To inculcate the pedagogy of continues learning, ethical values and social responsibility
Excel in Industry and Higher education	**3**	**3**	**3**
High moral values and Knowledge	**3**	**3**	**3**

PEO Statements	**M1**	**M2**	**M3**
To provide students with the fundamentals of Engineering Sciences with more emphasis In Civil Engineering by way of analyzing and exploiting engineering challenges.	3	3	3
To provide students with the fundamentals of Engineering Sciences with more emphasis In Civil Engineering by way of analyzing and exploiting engineering challenges.	3	3	3
To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate Civil Engineering. Issues with social issues.	3	3	3
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 in Civil Engineering.	3	3	3
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 in Civil Engineering.	3	3	3

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120) Total Marks 120.00

2.1 Program Curriculum (20) To

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexurel. Also mention the identified curricular gaps, if any (10)

Institu

Program Outcomes (POs)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering pr Engineering.

PO2. Problem analysis: Identify, formulate, research literature, and analyze complex Civil Engineering problems reaching substantiated conclusions using first principles of mathema sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex Civil Engineering problems and design system components or processes that meet the specified needs with a consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, an the information to provide valid conclusions in Civil Engineering.

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

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

PO7. Environment and sustainability: Understand the impact of the professional Civil Engineering solutions in societal and environmental contexts, and demonstrate the knowledge for sustainable development.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Civil Engineering practice.

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

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

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

PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change i Engineering.

PSO-Program Specific outcomes (PSOs)

PSO1. To prepare students to design multistory buildings with recent state of art and technology.

PSO2. To design buildings with aspect of Vastu shastra and Green building technology.

Jaipur Engineering College and Research Centre is affiliated with Rajasthan Technical University (RTU), Kota and received an accreditation from the National Accreditation and Assessment Council (academic year 2021-22. The Civil Engineering department adheres to the syllabus and curriculum established by the university.

RTU has introduced new courses in response to industry needs, including Engineering Mechanics, Managerial Economics and Financial Accounting, Computer-Aided Civil Engineering Drawing, Con Technology and Equipment, Foundation courses, and Environmental Monitoring and Design Lab. Additionally, some outdated courses have been removed from the curriculum. The university also all select elective courses from interdisciplinary fields, in alignment with the National Education Policy (NEP) 2020. The curriculum operates under a choice-based credit system, ensuring compliance wi guidelines.

Effective delivery of the university-provided curriculum requires careful planning, focusing on the following areas:

1. Curriculum Delivery
2. Content Beyond the Syllabus
3. Add-on and Certificate Courses
4. Cross-Cutting Issues: Addressing professional ethics, human values, environmental sustainability, and related topics.
5. Experiential Learning: Incorporating project work, fieldwork, internships, etc.
6. Extension and Outreach Programs
7. Project Based Learning.

This planning is coordinated with the Internal Quality Assurance Cell (IQAC) and is included in the departments academic calendar.

Curriculum Planning

Curriculum planning is conducted with the following key points in mind:

1. **University Curriculum:** The institute adheres to the curriculum prescribed by the university for all programs.
2. **Prerequisites: Subject**: specific prerequisites are discussed and communicated to students.
3. **Content Beyond the Syllabus:** Gaps identified through feedback from various stakeholders are addressed through additional resources and activities.
4. **Experiential Learning:** A variety of activities are organized at both the institute and departmental levels to provide hands-on learning opportunities that complement the RTU syllabus.
5. **Extra-Curricular Activities:** Departments plan extra-curricular activities to promote student engagement, which are scheduled in the academic calendar.
6. **Financial Planning:** A financial plan is developed to support both curricular and extracurricular activities.
7. **Career and Soft Skills Development:** The Training and Placement Department offers programs to enhance students career skills and support placement activities.
8. **Incorporation of ICT:** Initiatives are planned to integrate Information and Communication Technology (ICT) tools into teaching and learning for innovative educational experiences.
9. **Constitutional Awareness Initiatives:** Programs will be implemented to sensitize students and staff about constitutional values, rights, duties, and responsibilities.
10. **Promoting Tolerance and Harmony:** Initiatives will be taken to foster understanding and respect for cultural, regional, linguistic, communal, socioeconomic, and other diversities.

Procedure for identifying extent of compliance of university curriculum for attaining the POs and PSOs and Process of Curriculum Gap Identification

Step 1. On the onset of semester subjects are allocated considering the specialization and choice of faculty members, course groups are formed and program coordinator is decided by IQAC.

Step 2. Course Outcomes (COs) are formulated by respective faculty members of the subject. The program coordinator verifies it and submits to IQAC.

Step 3. Updates were made to the Course Outcomes (COs) statements based on input from IQAC.

Step 4. The CO-PO/ PSO matrix for all courses is prepared on the basis of mapping of each course with POs/PSOs.

Step 5. Curriculum gaps are identified by calculating weighted average from Course POs/PSOs mapping. Based on curricular sufficiency and curricular gaps analysis is done on the curricular gaps.

Step 6. Inputs on regular basis from the industry experts, employers, alumni, placement cell, internal and external stakeholders and syllabus of institute of national repute are taken and analyzed to b identified curriculum gaps and activities required to accomplish.

Step 7. The IQAC-recommended activities are mapped to the appropriate POs and PSOs.

Step 8. The CO-PO/PSO matrix for every course is generated and gaps in technology, cross cutting issues, experimental learning and others are identified based on the mapping of each course with

Step 9. Appropriate actions are formulated to bridging the curricular gap.

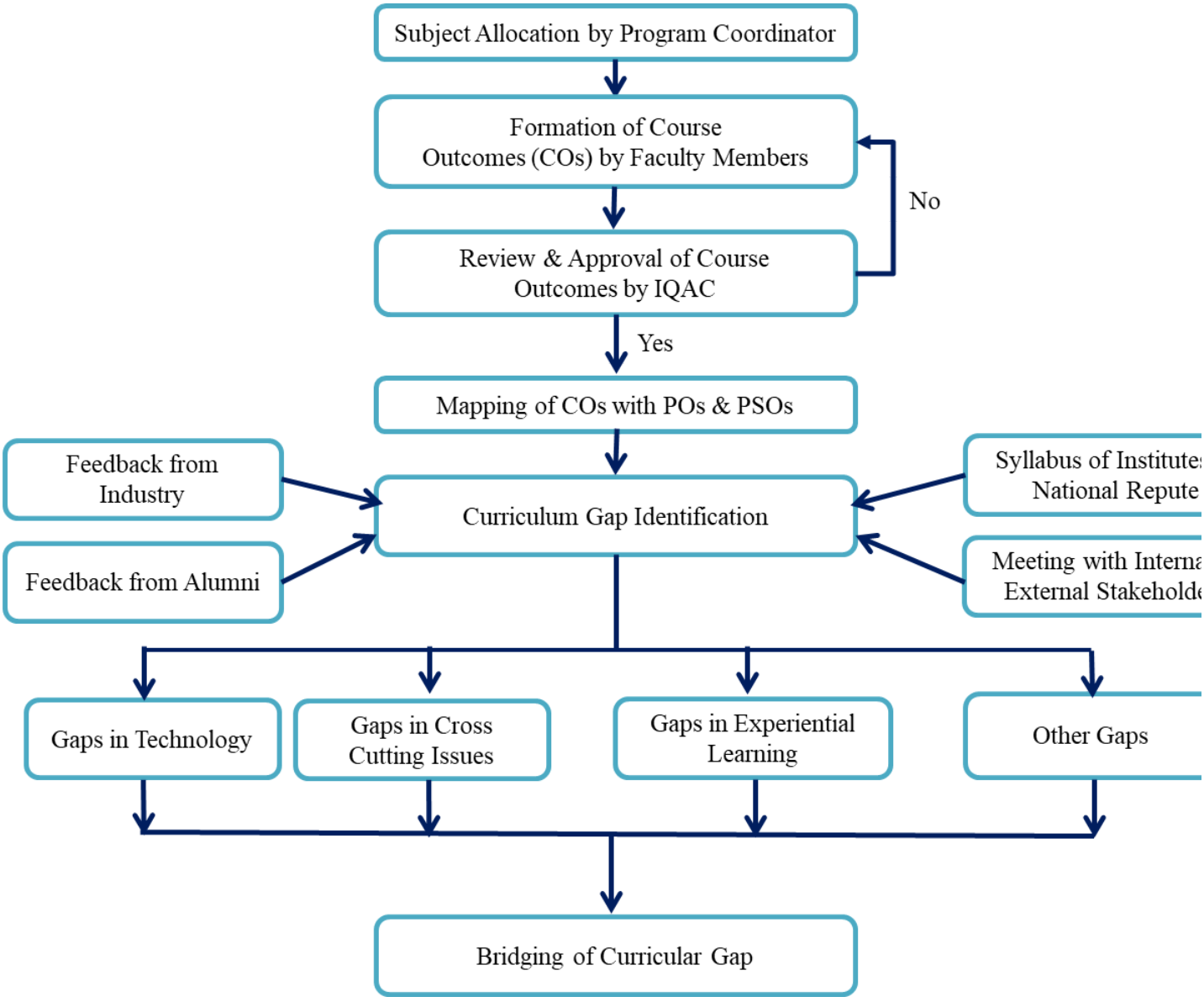


Figure 2.1.1 (A): Defining of Curriculum Gap

Table 2.1.1 (A): Identification of curricular gap as per course PO mapping

Sr. No.	SUBJECT/LAB	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO
1	1FY2-01: ENGINEERING MATHEMATICS-1	3	3	2	1	1	1	0	0	1	1	0	1	0
2	1FY2-02: ENGINEERING PHYSICS	3	2	1	1	1	1	0	0	1	1	0	1	0
3	1FY2-03: ENGINEERING CHEMISTRY	2	1	1	1	0	1	2	0	1	1	0	1	0
4	1FY2-04: COMMUNICATION SKILLS	0	0	1	0	0	2	0	2	2	3	1	2	0
5	1FY2-05: HUMAN VALUES	0	0	2	0	0	3	2	3	2	1	0	1	0
6	1FY2-06: PROGRAMMING FOR PROBLEM SOLVING	3	2	2	1	1	1	0	0	1	1	0	1	0
7	1FY2-07: BASIC MECHANICAL ENGINEERING	3	1	2	1	0	1	1	0	1	1	0	1	0
8	1FY2-08: BASIC ELECTRICAL ENGINEERING	3	3	2	2	2	2	3	3	3	2	2	3	0
9	1FY2-09: BASIC CIVIL ENGINEERING	3	3	3	3	2	3	3	3	2	3	2	2	2
10	1FY2- 20: ENGINEERING PHYSICS LAB	2	1	1	0	0	1	0	1	2	1	0	1	0
11	1FY2-21: ENGINEERING CHEMISTRY LAB	2	2	2	1	1	2	2	2	2	1	1	1	0
12	1FY1- 22: LANGUAGE LAB	0	0	0	0	2	2	0	2	2	3	1	2	0
13	1FY1- 23: HUMAN VALUES ACTIVITIES AND SPORTS	0	0	1	0	0	3	3	3	1	1	0	1	0
14	1FY3- 24: COMPUTER PROGRAMMING LAB	2	2	2	1	1	0	0	0	1	1	0	1	0
15	1FY3- 25: MANUFACTURING PRACTICES WORKSHOP	3	3	2	2	2	2	2	1	2	2	2	2	0

16	1FY3- 26: BASIC ELECTRICAL ENGINEERING LAB	3	3	2	2	2	0	1	1	3	1	1	1	0
17	1FY3-27: BASIC CIVIL ENGINEERING LAB	3	2	2	2	3	3	3	2	2	3	2	2	2
18	1FY3- 28: COMPUTER AIDED ENGINEERING GRAPHICS	3	2	2	1	3	1	2	0	1	1	0	1	0
19	1FY3- 29: COMPUTER AIDED MACHINE DRAWING	3	2	2	1	3	1	2	0	1	1	0	1	0
20	2FY2-01: ENGINEERING MATHEMATICS-2	3	3	2	1	1	1	0	0	1	1	0	1	2
21	3CE2-01: ADVANCE ENGINEERING MATHEMATICS-I	3	3	3	2	2	3	1	1	1	2	1	1	1
22	3CE1-02/4CE1-02: TECHNICAL COMMUNICATION	3	2	2	2	2	3	3	3	2	2	2	2	3
23	3CE3-04: ENGINEERING MECHANICS	3	2	2	3	3	3	2	2	2	2	3	2	3
24	3CE4-05: SURVEYING	3	2	2	1	2	1	1	1	1	1	1	3	3
25	3CE4-06: FLUID MECHANICS	3	3	2	2	3	3	3	2	2	2	2	3	2
26	3CE4-07: BUILDING MATERIALS AND CONSTRUCTION	3	3	1	1	2	3	3	1	1	1	1	3	2
27	3CE4-08: ENGINEERING GEOLOGY	3	2	2	3	3	3	2	2	2	2	3	2	3
28	3CE4-21: SURVEYING LAB	3	3	1	2	3	1	2	1	1	1	2	3	2
29	3CE4-22: FLUID MECHANICS LAB	3	2	2	2	2	3	2	3	2	2	2	2	3
30	3CE4-23: COMPUTER AIDED CIVIL ENGINEERING DRAWING	3	3	3	1	1	1	1	1	1	1	1	3	3
31	3CE4-24: CIVIL ENGINEERING MATERIALS LAB	3	3	2	1	2	2	3	1	1	1	1	3	3
32	3CE4-25: GEOLOGY LAB	3	3	2	2	2	3	2	3	1	3	2	2	3
33	3CE7-30: INDUSTRIAL TRAINING	3	3	2	2	2	2	2	3	2	3	2	2	3
34	4CE2-01: ADVANCE ENGINEERING MATHEMATICS-II	3	3	3	2	2	3	1	1	1	2	1	1	1
35	4CE1-03: MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING	3	3	2	2	3	2	3	2	2	2	2	3	2
36	4CE3-04: BASIC ELECTRONICS FOR CIVIL ENGINEERING APPLICATIONS	3	2	3	3	2	2	1	1	1	2	1	1	1
37	4CE4-05: STRENGTH OF MATERIALS	3	2	2	3	2	3	2	2	2	2	3	2	3
38	4CE4-06: HYDRAULICS ENGINEERING	3	3	2	2	2	3	3	2	2	2	2	3	3
39	4CE4-07: BUILDING PLANNING	3	1	1	1	3	3	2	1	1	1	1	2	3
40	4CE4-08: CONCRETE TECHNOLOGY	3	3	3	3	3	2	2	1	2	1	2	1	3
41	4CE4-21: MATERIAL TESTING LAB	3	3	2	2	2	2	2	2	3	3	2	3	3
42	4CE4-22: HYDRAULICS ENGINEERING LAB	3	3	3	3	3	2	2	1	2	1	2	1	2
43	4CE4-23: BUILDING DRAWING	2	3	2	2	3	2	2	1	2	1	2	2	3
44	4CE4-24: ADVANCED SURVEYING LAB	3	3	2	3	1	3	1	1	3	2	2	1	2
45	4CE4-25: CONCRETE LAB	3	3	3	3	3	2	3	1	3	1	2	1	2
46	5CE3-01: CONSTRUCTION TECHNOLOGY AND EQUIPMENT	3	3	3	2	2	3	2	2	2	2	2	3	2
47	5CE4-02: STRUCTURE ANALYSIS-I	3	3	3	3	2	3	3	2	2	2	2	2	2
48	5CE4-03: DESIGN OF CONCRETE STRUCTURES	3	3	3	3	1	2	3	2	2	1	2	2	1
49	5CE4-04: GEOTECHNICAL ENGINEERING	3	3	3	3	3	2	2	1	2	1	2	1	2
50	5CE4-05: WATER RESOURCE ENGINEERING	3	3	3	3	2	3	3	2	2	2	2	3	2
51	5CE5-11: AIR & NOISE POLLUTION AND CONTROL	2	3	2	2	2	3	2	2	2	2	3	2	3
52	5CE5-14: REPAIR AND REHABILITATION OF STRUCTURES	3	3	3	1	2	2	2	1	1	1	1	3	2
53	5CE4-21 : CONCRETE STRUCTURES DESIGN	3	2	2	3	1	2	3	1	1	1	1	1	2
54	5CE4-22 : GEOTECHNICAL ENGINEERDING LAB	3	3	3	3	3	2	3	1	3	1	2	1	2
55	5CE4-23: WATER RESOURCES ENGINEERING DESIGN LAB	2	2	3	3	2	2	3	2	2	2	2	3	1
56	5CE7-30: INDUSTRIAL TRAINING	3	3	3	2	3	3	2	2	3	3	3	3	3
57	6CE3-01: WIND AND SEISMIC ANALYSIS	3	3	2	2	3	2	2	2	2	2	2	3	3
58	6CE4-02: STRUCTURAL ANALYSIS-II	3	3	3	3	2	2	3	3	2	2	2	2	2
59	6CE4-03: ENVIRONMENTAL ENGINEERING	3	3	2	1	1	2	2	2	1	1	1	3	1
60	6CE4-04: DESIGN OF STEEL STRUCTURES	3	3	3	3	2	2	2	1	1	1	1	2	3
61	6CE4-05: ESTIMATING & COSTING	3	3	3	2	2	3	1	1	1	1	1	2	3
62	6CE5-12: SOLID AND HAZARDOUS WASTE MANAGEMENT	3	2	2	2	3	3	3	2	2	3	2	3	2
63	6CE5-16: GEOGRAPHIC INFORMATION SYSTEM & REMOTE SENSING	3	3	3	2	3	2	2	2	3	3	2	2	1
64	6CE4-21: ENVIRONMENTAL ENGINEERING DESIGN AND LAB	3	3	2	2	1	3	3	1	1	1	1	3	1
65	6CE4-22: STEEL STRUCTURES DESIGN	3	2	2	1	1	2	2	1	1	1	2	1	3
66	6CE4-23: QUANTITY SURVEYING AND VALUATION	3	3	2	1	1	3	1	1	2	2	2	2	3
67	6CE4-24: WATER AND EARTH RETAINING STRUCTURES DESIGN	3	3	2	2	2	3	3	2	2	1	2	2	1
68	6CE4-25: FOUNDATION ENGINEERING	3	3	2	2	2	3	3	2	2	2	1	3	1
69	7CE4-01: TRANSPORTATION ENGINEERING	3	3	2	2	3	3	3	2	2	2	2	2	2
70	7AG6-60.2 ENVIRONMENTAL ENGINEERING AND DISASTER MANAGEMENT	3	3	3	3	3	3	3	2	2	2	2	3	1
71	7CE4-21: ROAD MATERIAL TESTING LAB	3	3	2	3	2	2	1	2	3	2	1	2	2
72	7CE4-22: PROFESSIONAL PRACTICES AND FIELD ENGINEERING LAB	3	3	1	1	1	2	1	2	2	2	2	2	2
73	7CE4-23: SOFT SKILLS LAB	2	2	2	3	3	3	3	3	3	3	3	3	3
74	7CE4-24: ENVIRONMENTAL MONITORING AND DESIGN LAB	3	3	3	2	2	3	3	2	3	2	2	3	1
75	7CE7-30: PRACTICAL TRAINNIG	2	3	3	3	2	3	3	3	3	2	3	3	3
76	7CE7-40: SEMINAR	3	3	2	3	1	3	1	1	3	2	2	1	2
77	8CE4-01 PROJECT PLANNING AND CONSTRUCTION MANAGEMENT	3	3	2	2	2	2	2	2	2	2	3	2	2
78	8TT6-60.2: DISASTER MANAGEMENT	3	3	3	3	3	3	3	2	2	1	2	2	1

79	8CE4-21: PROJECT PLANNING AND CONSTRUCTION MANAGEMENT LAB	3	3	2	1	2	2	2	2	2	2	2	2	1
80	8CE4-22: PAVEMENT DESIGN	3	2	2	2	2	2	2	2	2	2	2	2	1
81	8CE7-50: PROJECT	3	3	2	3	3	3	2	1	2	2	2	3	3
	Grand Total	222	203	176	156	158	182	161	127	148	137	126	161	138
	Number of Subjects/Labs Contributing to PO	77	77	80	76	75	79	73	72	81	81	69	81	64
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO
	Curricular Sufficiency of POs/PSOs on a scale of 1 to 3	2.88	2.64	2.20	2.05	2.11	2.30	2.21	1.76	1.83	1.69	1.83	1.99	2.16
	Curricular GAP	0.12	0.36	0.80	0.95	0.89	0.70	0.79	1.24	1.17	1.31	1.17	1.01	0.84
	Severity of Gap on a scale of 1 = Low (0 < Gap ≤ 0.7), 2=Moderate (0.7 < Gap ≤ 1) and 3=High (Gap>1)	1	1	2	2	2	1	2	3	3	3	3	3	2

Table 2.1.1 (B): Areas Identified to Fulfill the Substantial Curricular Gaps Determined in Table 2.1.1 (A)

Sr. No.	Areas	POs/PSOs
1	Insufficient coverage of ethical case studies and real-world scenarios in civil engineering projects	PO8
2	Limited hands-on, multidisciplinary project experiences	PO9
3	Insufficient training in technical communication tailored to non-technical audiences	PO10
4	Lack of practical exposure to project management software and cost analysis tools used in the industry	PO11
5	Limited focus on self-directed learning and adaptability to technological advancements	PO12

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

Institute Marks : 10.00

The topics beyond syllabus are delivered through experiential learning, participative learning and problem-solving learning to bridge the identified curricular gaps. Delivery methods are as follows:

- **Add-on Courses**: Recent trends-based add-on courses are organized through industries.
- **Guest lecturers:** Experts from industry and academia are invited to deliver lectures on the latest trends and thrust areas in Civil Engineering.
- **Technical talk**: Students are kept updated about the advances in technologies through technical seminars.
- **Workshops**: The department has introduced a novel initiative for students, wherein they are encouraged to participate in hands-on workshops, thereby enhancing their application skills.
- **Industrial visits**: Visits to industries of repute are organized every year to keep students abreast with applications of Information Science and Engineering.
- **Soft skill training**: The department emphasizes on personality development through soft skills training programs to improve the employability of students.
- **Internships**: Students are encouraged to take-up short-term internships through intershalla, coursera and industries to understand industry practices.
- **Clubs:** Various clubs are student-run organizations that provide hands-on experience, networking, and project opportunities for aspiring engineers. These clubs often host workshops, guest lectures, hackathons, and various events.
- **Spiritual Cell**: Spiritual Cell provide platform to students cultivate a balanced lifestyle, enhance emotional resilience, and develop a positive mindset.
- **Incubation Centre :** Incubation centre encourage to students in the area of budding engineers, researchers and startups with resources such as workspace, mentorship, funding opportunities and access to advanced equipment.
- **Centre of Excellence:** The two Centres of Excellence, established by UltraTech and CADD Centre in the Civil Engineering Department of JECRC Jaipur, mark a pivotal step in bridging the gap between academia and industry. These centres provide students with advanced technical skills through hands-on training using cutting-edge software and materials, preparing them for industry challenges. They offer access to modern tools and innovative techniques, ensuring students stay aligned with current trends in civil engineering. This collaboration enhances learning by enabling practical applications of theoretical concepts. By developing a workforce attuned to industry demands, the centres contribute to students professional growth and solidify JECRC's reputation as a leader in engineering education
- **Virtual Lab:** The Virtual Labs initiative in the Civil Engineering Department of JECRC Jaipur is a vital step in enhancing experiential learning. These labs allow students to perform complex experiments in a simulated environment, overcoming limitations of physical resources and accessibility. By providing hands-on experience with real-world scenarios, Virtual Labs bridge the gap between theoretical concepts and practical applications. They foster innovation, improve problem-solving skills, and ensure students are industry-ready by offering a cost-effective and efficient way to explore advanced civil engineering techniques.

Table 2.1.2 (A): Impact analysis

S.No.	Delivery Methods	Relevance to POs	Impact
1	Add-on Courses	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10 PO11, PO12	Enhances understanding of current trends, bridges curriculum gaps, and develops advanced technical skills.
2	Guest Lectures	PO1, PO2, PO3, PO4, PO5, PO10, PO11,P012	Provides insights from industry experts, enhancing theoretical knowledge and practical relevance.
3	Technical talk	PO1, PO2, PO3, PO4, PO5, PO10, PO11,P012	Keeps students informed about technological advancements, encouraging innovation and critical thinking.
4	Workshops	PO1, PO2, PO3, PO4, PO5, PO7, PO11, PO12	Improves practical application skills, fosters teamwork, and promotes experiential learning.
5	Industrial visits	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12	Provides real-world exposure, linking academic concepts with industrial applications.
6	Soft skill training	PO1, PO2, PO3, PO4, PO6, PO7, P10, PO11	Develops communication, leadership, and interpersonal skills, improving employability and adaptability.
7	Internships	PO1, PO2, PO3, PO4, PO5, PO8, PO11, PO12	Offers hands-on industry experience, enhancing understanding of workplace practices and technical expertise.
8	Clubs	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10 PO11, PO12	Encourages peer learning, project-based exploration, and development of leadership and organizational skills.
8	Spiritual Cell	PO2, PO4, PO6, PO7, PO8, PO9, PO10 , PO12	Promotes emotional resilience, balanced lifestyle, and positive mindset, contributing to holistic development.
9	Incubation Centre	PO1, PO2, PO3, PO4, PO6, PO7, PO8, PO9, PO10 , PO12	Supports entrepreneurial and innovative projects, offering resources for startups and fostering creativity.

The following are the means and methods used to accomplish the extent of compliance of the University curriculum for attaining the Program Outcomes are:

Student-centric teaching-learning methodologies have been effectively adopted by the Institute to develop the learning aspirations of students. The following measures are taken to make learning student-centric:

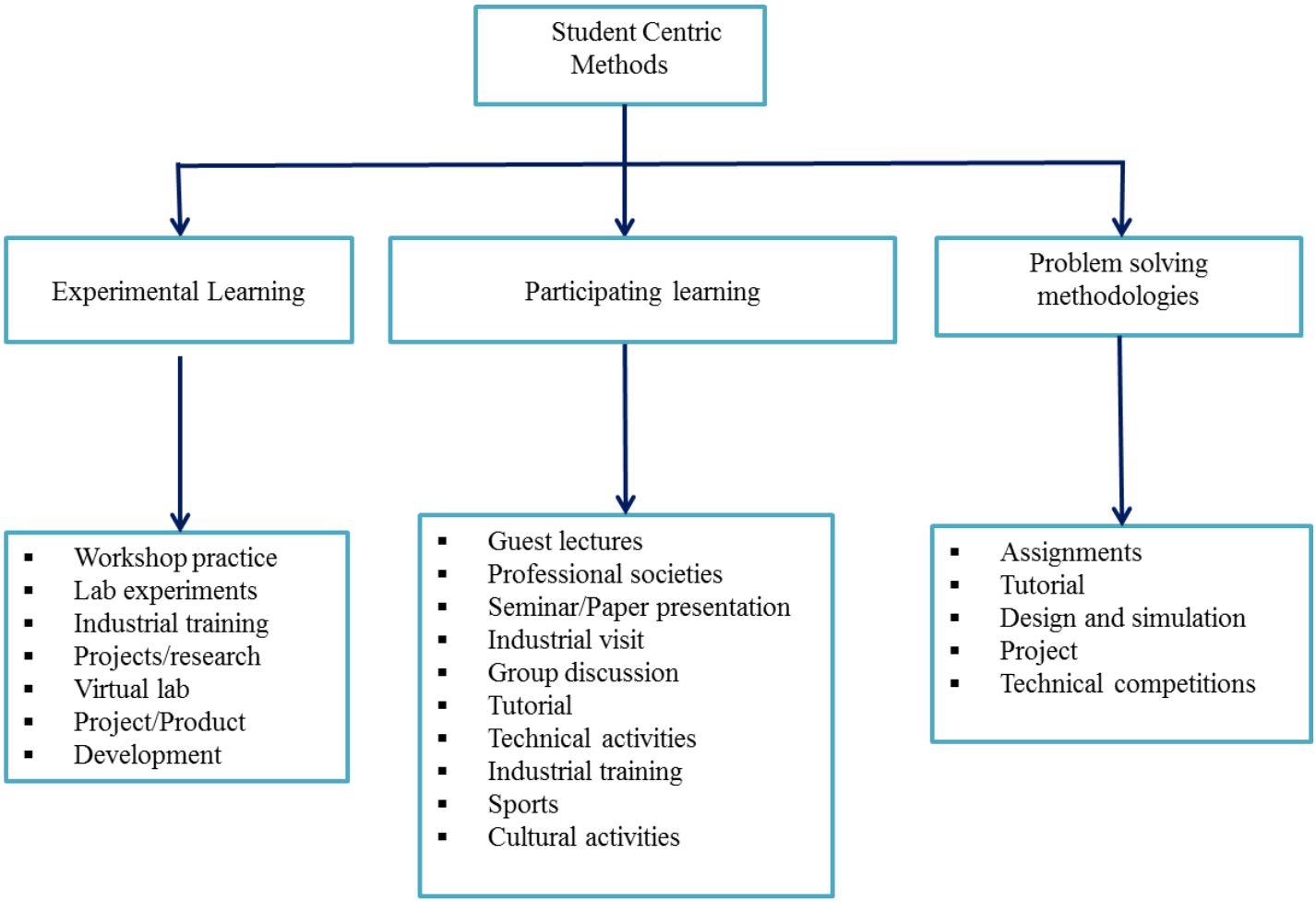


Figure 2.1.2 (A) : Student centric methods

Experiential learning: The Institute focuses on imparting that kind of knowledge which enhances critical thinking and gives scope for creative imagination among students so that when they grow up they become a responsible citizen of the country. This type of learning is provided to the students by the means of

- Practical and Designed Experiments in laboratories
- Projects development
- Industrial Training
- Workshops

Participative learning: In participative learning, students are encouraged to participate in various technical, cultural, and social events. Different sports activities are carried out in which students participate to exhibit talent in a variety of games to cultivate the spirit of unity and leadership. Students are encouraged to participate in inter-university competitions, technical competitions, sports competitions. To inculcate human values social clubs are run by the students which are mentioned as follows:

- **Zarurat:** "The Help Beyond" an Initiative by JECRC students for social concern that is educating the underprivileged kids who can not avail the facility of schooling.
- **Limca Book of Records (National Record):** Students of Team Zarurat, JECRC, Jaipur assembled 24,626 tricolored handmade origami flowers in a flower basket - a record for the largest display of origami flowers - at the college premises.
- **SOCH (Soch kuch kar dikhane ki):** Soch is a social initiative in JECRC started by the students to help needy persons of slum areas.
- **ASHAYEIN:** "Aashayein Ek Abhiyaan" is a club managed and run by JECRCians. The objective of Ashayein Club is Blood donation, Fest and Birthday Celebration in Old Age Homes, and Trees Plantation.
- **SUHASINI** is a social initiative taken by the students of JECRC to create awareness towards the education of girl child in the society. This group is working on the motto "BETI BACHAO BETI PADHAO" motto.
- **Atrangi :** It is known of talented artists to enrich their hobbies and creativity at their best. It is a team which writes and sketch for social messages and tries to establish good concern with society.
- **Fotogra Freaks :** It is the official photography club of JECRC.
- **Xananoid:** Objective of the club is to deal with the behavior-based robotics i.e. cooperation and communication between robotics, also the main idea behind the formation of the club is to develop cost effective educational robotic platform for students.
- **Theos Club:** It is a student-driven organization dedicated to fostering interest, learning, and skill development in the field of civil engineering.
- **NSS:** It is a voluntary public service program in India aimed at developing student youth into responsible and socially committed citizens. It engages students in community service activities, fostering a sense of social responsibility and empathy.
- **MUN:** MUN has hosted over 1.5 lakh delegates, representing diverse perspectives and ideas. The events international allure is evident as it has welcomed participants from more than 8 countries, turning it into a melting pot of cultures and viewpoints. This platform not only provides a unique space for debate but also facilitates connections on a global scale, contributing to the development of future leaders and diplomats.
- **Toastmaster :** Toastmasters Clubs are present in educational institutions, corporate houses, and communities across the Nation. A Toastmasters Club in Campus is a boon for students as it provides the best of both worlds; learning and excelling with peers, and connecting with mentors from different walks of life. This provides a unique blend for students to explore, excel and expand in real-time world.
- **Sports Club** : A sports club is an organized group where individuals with a shared interest in sports come together to practice, compete, and enjoy physical activities. Sports clubs provide members access to facilities, equipment, coaching, and a supportive community, fostering fitness, skill development, and teamwork.

- **Moonrider:** A dynamic student-led club at JECRC that focuses on nurturing talent in adventure and motor-based activities. It provides opportunities for students to engage in motor sports, build innovative vehicles, and push the boundaries of mechanical engineering.
- **Women Cell:** A supportive and empowering group that promotes gender equality and women's rights on campus. The Women Cell works to create a safe and inclusive environment while organizing events that inspire confidence, leadership, and community support among female students.
- **Spiritual Cell:** A dedicated space for students to explore spirituality and well-being. The Spiritual Cell fosters mindfulness, meditation, and personal growth through activities and workshops that help students find balance and inner peace.
- **Marvel Cart:** An initiative that combines creativity and entrepreneurial spirit, encouraging students to innovate and run small business projects. It provides a platform for students to learn practical skills in business management and teamwork while engaging with the college community.
- **Alumni:** An active network connecting past graduates with current students, fostering mentorship, collaboration, and career development. The Alumni Cell organizes events and activities that help maintain strong bonds, share experiences, and provide valuable guidance for future careers.

Problem Solving Event: Problem solving skills being the most valued skills in the workforce. The faculty educates students with problem-solving skills like problem identification, selection of right methodology for solving the problem and evaluating the results before dissipation. Also, faculty members discuss the problems in classroom and give assignments/tutorials to the students. Assignments are designed to promote understanding of concepts taught in theory along with their practical applications. Also, in lab hours, students learn Problem solving methodologies through simulation which includes Define the problem, Create a model, Develop a computational method for solving the problem, Implement the computational method and testing the solution.

Projects also encourage creativity, innovation and adaptation of ideas to yield multiple need-based solutions to meet the challenges of contemporary society. Students are given projects to find creative solutions to the real-world problems and challenges of organizations they work with.

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Advanced Concrete Technology	Add on course	12/09/2022	Dr. Krishan Kumar Saini (Head of Civil Department)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
2	Real-World Structural Engineering Solutions Using STAAD Pro	Guest lecture	27/09/2022	Mr. Hitesh B, Lahoti (Director-CESA)	60	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PSO1, PSO2
3	Complex State of Stress System	Add on course	01/10/2022	Mr. Sumit Siani (Assistant Professor)	25	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1
4	Enhancing Proficiency in Software Tools	Guest lecture	12/10/2022	Er. Ashutosh Kumar (Founder YCC)	60	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PSO1, PSO2
5	Diverse Rock Testing Methods	Industrial Site Visit Done at CDOS Sitapura	06/12/2022	Mr. Manish Gupta (Geologist)	75	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
6	Facilitating Remote Access to Multidisciplinary Science and Engineering Labs	Virtual lab done By IIT Delhi	16/12/2022	Mr. Prateek Sharma (Sr.Field Engg. At Virtual Labs,IIT Delhi)	100	PO1, PO2, PO3, PO4, PO5, PO7, PO11, PO12, PSO1, PSO2
7	Design and Analysis of High Rise Building	Add on course	20/02/2023	Mr. Javed Ul Islam (Assistant Professor)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
8	Vaastu Shastra	Add on course	27/02/2023	Mr. Hetram Sharma (Assistant Professor)	25	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
9	Advanced Ground Improvement Techniques	Add on course	13/03/2023	Ms. Swarnima (Assistant Professor)	30	PO1, PO2, PO3, PO4, PO5, PO10, PO11
10	Real-World Applications of Field Survey Knowledge	Survey Camp	30/03/2023	Mr.Abhisket Mudgal (Senior Survey Field Executive)	100	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PSO1, PSO2
11	Advanced Practices in CAD Drawing	Activity CAD DARSHAN	13/04/2023	Er. Pawan Brahm Bhatt (Director, M/S Brahmbhatt Consultancy)	70	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PO12, PSO1, PSO2
12	Enhancing Civil Engineering Knowledge Through Technical Quiz	J-Gate	14/04/2023	Dr. Avani Pareek (Assistant Professor)	60	PO1, PO2, PO3, PO4, PO6, PO7, PO11, PO12, PSO2
13	Innovative Solutions for Waste Utilization	Best Out of Waste	15/04/2023	Dr.Vishal Saxena (Associate Professor)	55	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PO12, PSO2
14	Detailed knowledge of Vastu Shastra	Historical Site Visit Done at Jantar Mantar Gangori Bazar Jaipur	28/04/2023	Mr. Ramesh Kumar (Archaeologist)	95	PO1, PO2, PO3, PO4, PO6, PO7, PO11 PSO1, PSO2
15	Critical Thinking and Aptitude Skills	Training on Quant Verbal Logical Aptitude	05/07/2022	Mr. Deepak (FACE Academy))	50	PO1, PO2, PO3, PO4, PO6, PO7, PO11
16	Professional Soft Skills Development	Soft Skill Training	07/07/2022	Mr. Deepak (WAE Academy)	50	PO1, PO2, PO3, PO4, PO6, PO7, P10, PO11
17	On-site Visit to the Dam	Industrial dam Visit	21/09/2022	Mr. Rakesh (AEN-WRD)	50	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
18	Water Treatment Plant	Industrial Visit	21/09/2022	Miss Pooja karwasara (AEN-PHED)	50	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
19	Research Practices and Methodology	National Conference NCETCESD-2022-23	17/05/2023	Dr. Suresh Singh Sankhla (Associate Professor)	90	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
20	Mastering the Art of Content Writing	Content Writing Workshop	25/01/2023	Tarun Saraswat (Incubation Manager- JIC)	20	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
21	Building Blocks of Graphic Design	Graphic Designing workshop	27/01/2023	Kush Goyal, Aayushi Singh	20	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
22	The Vision Behind "Kartavya Path	Guest Lecture on “Kartavya Path Blog”	26/06/2023	Mr. Vijay Shekhar Sharma (Paytm Founder, CEO)	70	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
23	Startup Symposium	Startup Conclave	07/12/2022	OP Godara (Co Founder, Tinkerly), Sanjit Sihag (Co Founder & MD MyTeam 11) & Laav Bharadwaj(Founder HiCentrik)	20	PO1, PO2, PO3, PO4, PO6, PO7, PO11
24	Effective PR, Relationship Building, and Leadership Skills	PR, Relationship Building & Leadership Skills workshop	29/01/2023	Tarun Saraswat Incubation Manager- JIC	15	PO1, PO2, PO3, PO4, PO6, PO7, PO11
25	Advanced Practices in Hydraulic Bridge Model	Dexterity Event	16/02/2023	Dr. OM Prakash Choudhury (HOD Civil- JNU)	60	PO1, PO2, PO3, PO4, PO5,P07, PO10, PO11
26	Innovative Water Tank Design Using Thermocol	Zenith Event	17/02/2023	Dr. ManMohan Siddh (Associate Professor)	60	PO1, PO2, PO3, PO4, PO5, PO10, PO11
27	Expert talk on the occasion of World Nature Conservation Day	Expert talk	28/07/2022	Dr. D.N. Pandey, IFS (PCCF, Forest Department, Govt. of Rajasthan)	100	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PSO1, PSO2

28	A bird house making & distribution in significance of promoting biodiversity and ecological balance	Celebration of World Environment	05/06/2023	Shri. Arpit Agarwal (Director JECRC)	100	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PSO1, PSO2

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Advanced Concrete Technology	Add on course	03/09/2021	Dr. Krishan Kumar Saini (Head of Department)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
2	Advanced Ground Improvement Techniques	Add on course	06/09/2022	Ms. Swarnima (Assistant Professor)	25	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
3	Complex state of Stress System	Add on course	01/10/2021	Mr. Sumit Saini (Assistant Professor)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1
4	Offering Remote Lab Solutions for Science and Engineering Disciplines	Virtual lab done By IIT Delhi	12/10/2021	Mr.Prateek Sharma (Sr.Field Engg. At Virtual Labs,IIT Delhi)	100	PO1, PO2, PO3, PO4, PO5, PO7, PO11, PO12, PSO1, PSO2
5	Different Approaches in Rock Testing	Industrial Site Visit Done at CDOS Sitapura	17/11/2021	Mr. Manish Gupta (Geologist)	80	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
6	Design and Analysis of High Rise Building	Add on course	14/02/2022	Mr. Teekam Singh (Assistant Professor)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
7	Detailed knowledge of Vastu Shastra	Historical Site Visit Done at Jantar Mantar Gangori Bazar Jaipur	11/03/2022	Mr. Ramesh Kumar (Archaeologist)	85	PO1, PO2, PO3, PO4, PO6, PO7, PO11, PSO1, PSO2
8	Software skill Enhancement	Guest lecture	10/03/2022	Mr.Ravi kumar Swami (Director-Cade-Mate Pvt.Ltd.)	75	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PSO1, PSO2
9	Mastering Practical Field Survey Methods	Survey Camp	30/03/2022	Mr.Abhisket Mudgal (Senior Survey Field Executive)	100	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PSO1, PSO2
10	Advanced Practices in CAD Drawing	CAD DARSHAN	17/05/2022	Er. Pawan Brahm Bhatt (Director, M/S Brahmbhatt Consultancy)	60	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PO12, PSO1, PSO2
11	Innovative Civil Engineering Knowledge Quiz	Manthan	18/04/2022	Dr. Avani Pareek (Assistant Professor))	55	PO1, PO2, PO3, PO4, PO6, PO7, PO11, PO12, PSO1, PSO2
12	Advanced Practices of water tank deisgn	Zenith	18/05/2022	Dr. Man Mohan Siddh (Associate Professor)	60	PO1, PO2, PO3, PO4, PO5, PO10, PO11, PO12, PSO1, PSO2
13	Vaastu Shastra	Add on course	07/04/2022	Mr. Hetram Sharma (Assistant Professor)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
14	Covid Care and Immunity Enhancement	3-Day workshop	08/07/2021	Prof. R. A. Gupta Sir (Hon'ble Vice Chancellor, RTU Kota)	100	PO1, PO2, PO3, PO4, PO5,PO6, PO7,PO8,PO9, PO10, PO11, PO12
15	Innovative Solutions for Waste Utilization	Best Out of Waste Event	18/02/2022	Dr.Vishal Saxena (Assistant Professor)	60	PO1, PO2, PO3, PO4, PO5, PO10, PO11
16	Fundamental of Programming	Training	03/07/2021	Mr.Teekam Choudhary (Face Academy)	80	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
17	Data Structure Algorithm	Training	10/07/2021	Mr.Teekam Choudhary (Face Academy)	80	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
18	Programming: Core Concepts and Practices	Training	17/07/2021	Mr.Teekam Choudhary (Face Academy)	80	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
19	Research Exploration and Analysis	National Conference NCETCESD-(2021-2022)	17/06/2022	Dr. Suresh Singh Sankhla (Associate Professor)	90	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12

2020-21

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Innovative Approaches in Remote Sensing & GIS	Guest Lecture	21/08/2020	Prof. D. Nagesh Kumar (Associate Faculty, IIS-Banglore)	70	PO1, PO2, PO3, PO4, PO5, PO7, PO11, PO12, PSO1
2	Advanced Concrete Technology	Add on course	01/09/2020	Dr. Krishan Kumar Saini (Head of Department)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
3	Extensive Knowledge of Construction Industry Practices	Guest Lecture	22/10/2020	Prof. Lucio Soibelman (Prof. Los Angeles, California, USA)	85	PO1, PO2, PO3, PO4, PO6, PO7, PO11, PSO1, PSO2
4	Aligning Syllabus Understanding with Career Guidance	Guest lecture On Carrier Guidance	08/01/2021	Mr. Suneel Kumar Tiwari (Sr. Faculty Made-Easy Delhi)	75	PO1, PO2, PO3, PO4, PO5, PO10, PO11
5	Innovative Approaches in Concrete Technology	Add on course	10/02/2021	Dr. Krishan Kumar Saini (Head of Department)	30	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12 PSO1, PSO2
6	Advanced Insights into Simple Stress-Strain Behaviour	Guest Lecture	20/05/2021	Mahesh Jain [M.Tech,IIT Delhi, Alumini of JECRC]	75	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12
7	Advancing Software Proficiency	Two days Workshop	21/05/2021	Er.Abhijeet Patankar	60	PO1, PO2, PO3, PO4, PO5, PO10, PO11 PSO1, PSO2
8	Essential Aptitude Skills	Training on Quant Verbal Logical Apptitute	21/08/2020	Mr. Deepak (Face Academy)	50	PO1, PO2, PO3, PO4, PO6, PO7, PO11
9	Core Interpersonal Skills	Soft Skill Training	25/08/2020	Mr. Deepak (Face Academy)	50	PO1, PO2, PO3, PO4, PO6, PO7, PO11
10	Research Practices and Methodology	National Conference NCETCESD-(2020-2021)	29/06/2021	Dr. B.L Nagar (Prof. JNU)	90	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO11, PO12

2.2 Teaching - Learning Processes (100) Total Marks 100.00

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

Institute Marks : 25.00

A. Adherence to Academic Calendar

Step 1: Jaipur Engineering and Research Centre (JECRC), Jaipur follows the academic calendar as given by the Rajasthan Technical University, Kota.

Step 2: As per the tentative academic calendar from the affiliating university and as per the curriculum planning, academic calendar of the institute is prepared, and institute adhere to the same and follow-up of the same is carried out on regular basis.

Step 3: The planning for Continuous Internal Evaluation (CIS) is provided by IQAC to each department and as per the tentative calendar, two internal examinations and continuous evaluation in laboratory / project work / others is carried out. Based the same, course outcomes are evaluated on regular basis and slow/fast learners are identified. Various corrective measures are taken for slow learners to improve their performance through continuous evaluation.

B. Use of various instructional methods and pedagogical initiatives

1. Discuss about Vision and Mission, Program Outcomes, Program Specific Outcome, Program educational objectives and course outcomes.
2. **Centre of Excellence:** The two Centres of Excellence, established by UltraTech and CADD Centre in the Civil Engineering Department of JECRC Jaipur, mark a pivotal step in bridging the gap between academia and industry. These centres provide students with advanced technical skills through hands-on training using cutting-edge software and materials, preparing them for industry challenges. They offer access to modern tools and innovative techniques, ensuring students stay aligned with current trends in civil engineering. This collaboration enhances learning by enabling practical applications of theoretical concepts. By developing a workforce attuned to industry demands, the centres contribute to students professional growth and solidify JECRC's reputation as a leader in engineering education.
3. **Virtual lab:** The Virtual Labs initiative in the Civil Engineering Department of JECRC Jaipur is a vital step in enhancing experiential learning. These labs allow students to perform complex experiments in a simulated environment, overcoming limitations of physical resources and accessibility. By providing hands-on experience with real-world scenarios, Virtual Labs bridge the gap between theoretical concepts and practical applications. They foster innovation, improve problem-solving skills, and ensure students are industry-ready by offering a cost-effective and efficient way to explore advanced civil engineering techniques.
4. **Collaborative Learning:** Students gain understanding and build knowledge by engaging in group discussions, where they explore course-related topics and issues together. This approach is commonly used in labs and design classes.
5. **Power-point presentations:** Power Point presentations are an effective tool in the teaching and learning process, providing students with an opportunity to actively engage in the learning experience. When students create and deliver PPT presentations, it helps develop a variety of important skills, including research, organization, communication, and critical thinking.
6. **Case Studies:** This approach involves individuals or groups of students collaborating to examine a real-world scenario presented in a case study, focusing on identifying challenges and exploring possible solutions.
7. **Digital Library:** The library offers an extensive collection of reference books and textbooks from leading publishers, access of e-journals available, along with a variety of research journals. Students also have access to IS Codes, NPTEL (lectures and videos), presentations and previous years university papers. These resources are updated regularly to ensure the latest content.
8. **Brainstorming:** Students are engage in seminar classes beyond the academic curriculum, where they discuss real-life case studies covering various civil engineering topics. Assignments focused on real-world challenges and develop practical solutions. Advanced learners are participate in competitions hosted by the Theos Club and other institute cells. A minor projects have assigned to second-year students to promotes critical thinking, allowing them to create charts, models, and other presentations to showcase innovative approaches. Events such as the Renaissance, site visits, expert talks, and interactions with industry professionals play a crucial role in enhancing students creativity and problem-solving abilities.
9. **MOOCS Courses:** Massive Open Online Courses (MOOCs) are a recent development in the global academic landscape. While the effectiveness of MOOCs in knowledge dissemination is still a topic of discussion, they are rapidly gaining acceptance in academic circles as a valuable tool for enhancing students learning experiences. MOOCs facilitate lifelong learning, offering individuals the chance to update their skills and knowledge throughout their careers. At JECRC, we have been leveraging MOOCs from platforms like NPTEL and SWAYAM since 2008 to complement our educational initiatives and enhance our delivery methods.
10. **Google Classroom and Assignment:** Google Classroom has become a vital tool in modern engineering education, simplifying the teaching and learning process by providing a virtual space where educators and students can interact, share resources, and track progress. It streamlines assignment distribution, submission, and feedback, making the learning experience more organized and accessible.
11. **Project Based Learning:** Project-Based Learning (PBL) is a student-centered approach that integrates hands-on projects with theoretical knowledge, particularly effective in engineering education. In this model, students actively engage in real-world problems, develop solutions, and apply technical skills in a practical context.
12. **Clubs :** Various clubs are student-run organizations that provide hands-on experience, networking, and project opportunities for aspiring engineers. These clubs often host workshops, guest lectures, hackathons, and various events.
13. **Use of software in teaching learning:** Software has become an integral part of modern education, transforming teaching and learning processes. Various software tools enhance accessibility, interactivity, and personalization, benefiting both students and instructors.
14. **Faculty Diary:** The Faculty Diary is a concise record for improving teaching and learning, covering course and program outcomes, lesson plans, lecture objectives and outcomes, class questions, and new knowledge learnt**.**

C Quality of Laboratory Experience about Conducting Experiments, Recording Observations, Analysis of Data etc.

Procedure of about the Conducting of experiments:

- Laboratory work is conducted as per university curriculum allocates two to three hours for laboratory sessions in lab courses, where students carry out all specified experiments.
- To address any gaps in the curriculum, provisions are made to conduct one or two additional experiments beyond the syllabus for relevant courses.
- Each laboratory is equipped with excellent facilities for conducting experiments. A faculty member and a lab assistant are assigned to each practical session.
- The lab in-charge prepares a lab manual that details the experiments and is made available to students during their lab sessions.
- Students conduct experiments in groups as per roster chart organized by the respective lab faculty, and they record their observations in lab notebooks, which are then verified by the faculty.

Table 2.2.1 (A): Continuous Assessment in the Laboratory

Experiment List (As per RTU, Kota Syllabus)	
Exp:- 1	Tests on Mild steel and HYSD Bar –To determine compressive and tensile Strength, yield strength, percentage elongation etc..
Exp:- 2	To Conduct Tests on Cement and concrete cubes/ core to establish their strength
Exp:-3	To conduct hardness test on mild steel, carbon steel, brass and aluminum specimens.
Exp:-4	To determine the impact strength of steel by Izod and Charpy test.
Exp:-5	To determine the Modulus of Rupture of Wooden Beam.
Exp:-6	To study and perform Fatigue test on a given material and to determine fatigue strength of the material.
Exp:-7	To determine the stiffness of the spring and modulus of rigidity of the spring wire.
Exp:-8	To conduct torsion test on mild steel or cast iron specimens to find out modulus of rigidity
Content Beyond Syllabus	
Exp:-9	To determine the Shear strength of mild steel by UTM.
Exp: 10	To determine the Bending strength of mild steel by UTM.

Laboratory Plan

Experiment No.	**BATCH (A/B)**											
	Turn-1	**Turn-2**	**Turn-3**	**Turn-4**	**Turn-5**	**Turn-6**	**Turn-7**	**Turn-8**	**Turn-9**	**Turn-10**	**Turn-11**	**Turn-12**

	A	B	C	D	E	**First Internal Viva**	-	-	-	-	-	**Second Internal Viva** **Finalization of marks**
	E	A	B	C	D		-	-	-	-	-	
	D	E	A	B	C		-	-	-	-	-	
	C	D	E	A	B		-	-	-	-	-	
	B	C	D	E	A		-	-	-	-	-	
	-	-	-	-	-		A	B	C	D	E	
	-	-	-	-	-		E	A	B	C	D	
	-	-	-	-	-		D	E	A	B	C	
	-	-	-	-	-		C	D	E	A	B	
	-	-	-	-	-		B	C	D	E	A	

Sub-Groups	**Roll Numbers**		
	A1	**A2**	**A3**
A	1-4	21-24	41-44
B	5-8	25-28	45-48
C	9-12	29-32	49-52
D	13-16	33-36	53-56
E	17-20	37-40	57-60

The integration of Information and Communication Technology (ICT) in laboratories is used. To enhance revision and learning, an objective-type technical quiz has been implemented.

● Encourage faculty members to attend Faculty Development Programs (FDPs), MOOCs/ SWAYAM courses.

● Encouraging Lab technicians to attend training sessions on technical and non-technical topics, work etiquette, etc.

● Laboratory manuals are prepared based on the prescribed syllabus and beyond the prescribed syllabus and experiments are conducted following the Roster chart.

● Before initiating each Laboratory course, the faculty members provide appropriate instructions to perform the Laboratory task.

● Students" queries are answered properly in the Laboratory.

● Laboratory file completion and performance of students in each Laboratory session are evaluated by the respective faculty member. Results of the experiments are correlated with the IS standards to evaluate the possible use.

● Laboratory activities encourages the critical thinking level among the students.

● The Laboratory assignments for each course are designed for students to utilize the opportunity to learn beyond the syllabus.

D. Methodology to support weak students:

Some students are observed to have a slower grasping ability. To enhance their academic performance, mentoring is provided for these students. They are typically identified based on their mid-term examination and class test results. Friendly counseling sessions are organized to help them address psychological and educational challenges, enabling them to achieve their goals more effectively. Additionally, they receive extra study materials, subject notes, and assignments. Remedial/ Extra classes are held to focus on critical questions and topics that require further explanation. Class Coordinators inform parents about any frequent absenteeism. Moreover, students undergo placement-related training, including a series of mock interviews, to better prepare for their placement drives.

E. Encouragement to bright students:

Bright students exhibit a high level of engagement during classroom instruction and laboratory sessions. To expand their knowledge base, expert sessions featuring professionals from academia and industry are organized. These students are encouraged to participate in MOOCs to further enhance their understanding. The curriculum is enriched with additional experiments that extend beyond standard coursework, and virtual labs are utilized to broaden the knowledge spectrum for fast learners. Various support structures, including the Training & Placement Cell, E-Cell, and Centre of Excellence, have been established to foster their overall development. Additionally, numerous student-run clubs offer further opportunities for engagement. The department also conducts Campus Recruitment Training (CRT) programs and soft skills training specifically tailored for students preparing for careers in diverse industries. The T&P cell organizes virtual campus drives to align students career interests, and experienced faculty members conduct GATE preparation classes.

F. Quality of classroom teaching:

The quality of classroom teaching is assured and monitored through:

a. A classroom teaching demonstration is evaluated by an expert team to ensure the presence of basic teaching skills.

b. Faculty Development Programs

c. Planning of course delivery by preparing a course plan and course coverage.

d. Monitoring through video and audio camera through the projector installed in classroom.

G. Student Feedback is taken at the end of every semester through Google form to identify the areas of improvement for enhancing the quality of teaching learning process. Feedbacks are analyzed by the IQAC. Action is taken on the feedback through counseling of those faculty members who have secured low scores and negative comments, if any by the HOD to motivate them and get improve their skills and abilities.

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20) Institute Marks : 20.00

Process of Preparing Internal Semester Question Papers:

Step 1. The Internal semester question paper for each subject is divided into different sections as per IQAC guidelines. While preparing the question paper, previous university exam papers of university (RTU), GATE, IES, PSU and other competitive exams are taken into consideration.

Step 2. The question paper is designed as per Bloom's Taxonomy and course outcomes.

Step 3. Quality of internal semester question papers (prepared by the respective faculty) are scrutinized and checked by department's moderation and scrutinizing committee and also checked by an external expert. If any question paper needs up-gradation, concerned faculty is instructed to revise that question paper accordingly.

Step 4. Moderation committee selects final set of question paper for internal exam and then exam cell proceed for photocopies of question papers.

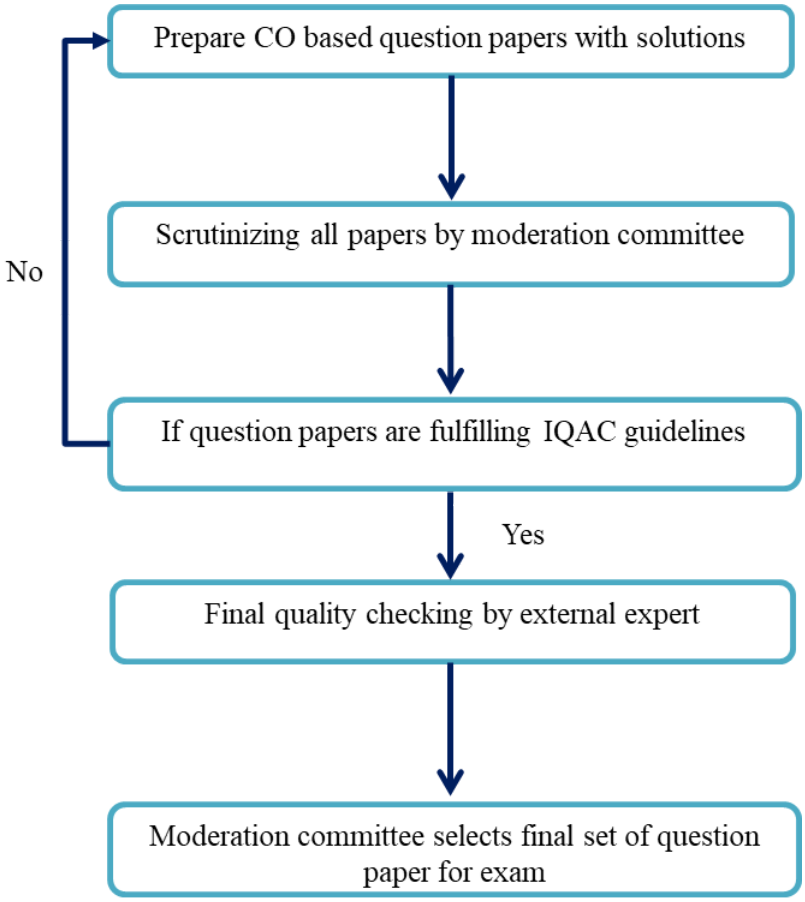


Figure 2.2.2 (A): Process of Preparation of Question Papers of Internal Examination

Process of Evaluation of Internal Semester Question Papers and Assignments:

Step 1. After conduction of internal theory exam each course handling faculty member evaluates the answer sheets within a stipulated time limit. Further the solutions are discussed in the class which enables students to understand their mistakes. Answer books are shown by respective faculties to students and important key points are discussed to improve self-learning.

Step 2. Grievance forms related to evaluation of answer sheets are provided to the unsatisfied students (if any) and necessary action is taken by concerned faculty within stipulated time to resolve that grievance.

Step 3. After satisfaction of students faculties carried out analysis of course outcomes then identify slow and fast learners and submit their internal marks to the exam cell. Students who achieve more than 60% marks in all course outcomes are considered as fast learners and remaining students as slow learners.

Step 4. Faculty members provide assignments having questions from previous year university question papers/GATE/IES/PSU exams etc. to fast learners. Additionally assignments of CO based questions are given and a retest is taken for improvement of slow learner students to achieve the outcomes of the courses and promote the self-learning. Assignments are also discussed with slow learner students. Each faculty further mentor his slow learner students to attain the course outcomes (COs) of his course.

Step 5. After evaluation of all assignments of slow and fast learners each faculty member prepares the total internal marks, which include the student's performance in all the internal exams (MTT-1 and MTT-2), retest (if taken), assignments etc. After scaling the final internal marks are submitted to exam cell for uploading on university web portal.

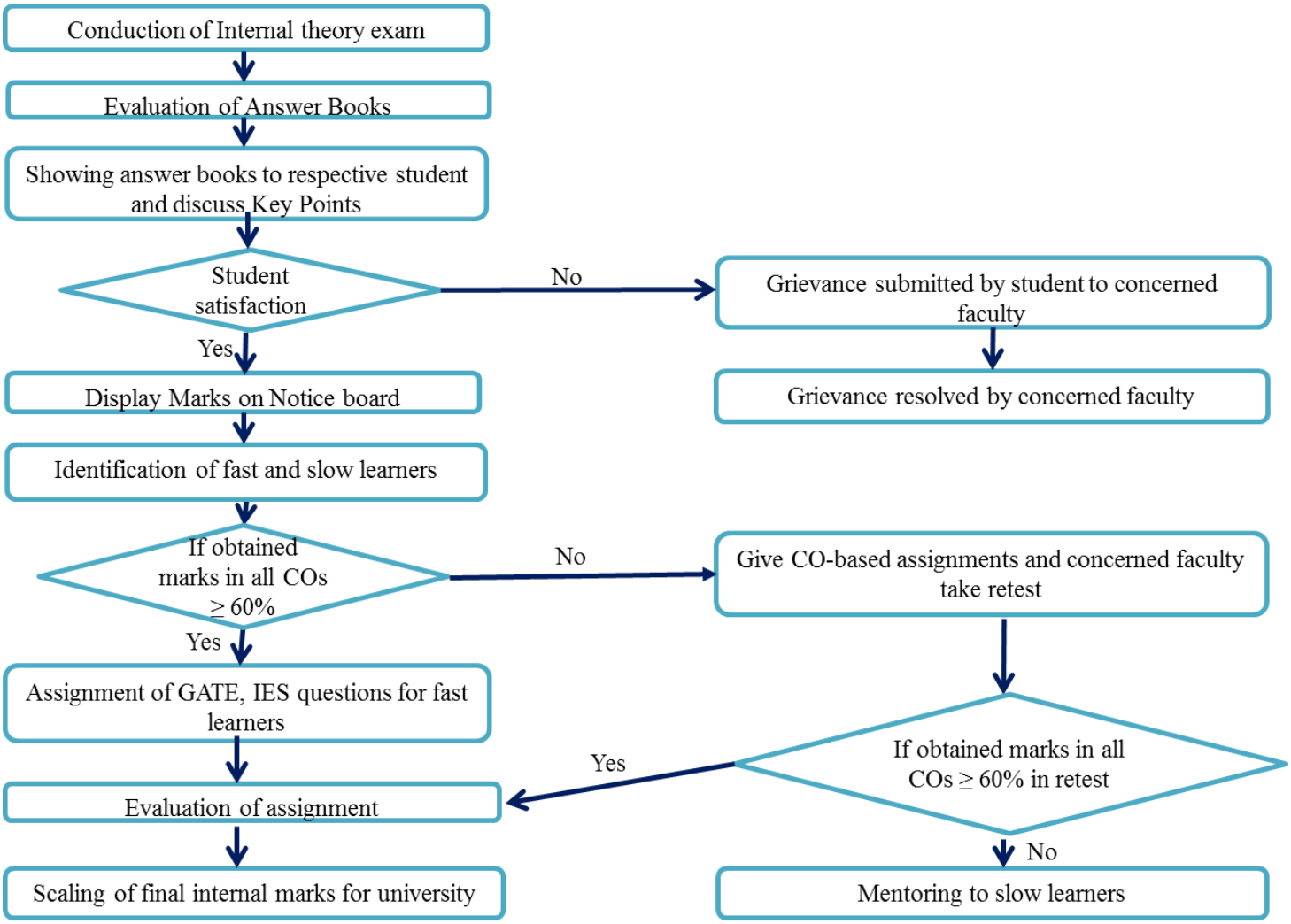


Figure 2.2.2 (B): Process of Evaluation of Internal Examination

To ensure the quality of internal semester question papers the department has drafted a committee named as moderation and scrutinizing committee, which work as per IQAC guidelines. The following faculties are members of this committee.

The departmental moderation committee maintains the quality of question papers as per IQAC guidelines in discussion with faculty members. All questions in the question papers are mapped with course outcomes and thus identification of slow learner and fast learner is carried out based on predefined targets.

Table 2.2.2 (A):Moderation and scrutinizing Committee (2023-24)

S.No.	Faculty	Qualification	Designation	Role
1	Dr. Krishan Kumar Saini	B.E, M.E, Ph.D	HOD	Chairperson
2	Dr. Ankit Modi	B.E, M.Tech, Ph.D	Associate Professor	Member
3	Mr. Hetram Sharma	B.Tech, M.Tech,	Assistant Professor	Member
4	Mr. Ashish Boraida	B.Tech, M.Tech,	Assistant Professor	Member
5	Mr. Javed Ul Islam	B.Tech, M.Tech,	Assistant Professor	Member

DEPARTMENT OF CIVIL ENGINEERING

MTT-I Exam (Set-A)

Academic Year 2023-24 (Odd Semester)

Course	:	**B.Tech. - Civil Engineering**	**Date**	:	4-Oct-2023
Semester/ Section	:	VII / A & B	**Time Duration**	:	01:30 Hours
Subject & Subject Code	:	Environmental Engineering and Disaster Management & 7AG6-60.2	**Max. Marks**	:	40

Course Outcomes

CO1	Students will be able to **describe** key concepts in environmental engineering and **explain** human impacts on natural resources.
CO2	Students will be able to **analyze** disaster types and **evaluate** disaster management strategies.
CO3	Students will be able to **apply** sustainable development principles and **create** solutions for environmental challenges.
CO4	Students will be able to **identify** environmental regulations and **examine** their implications, while **recommending** best practices for disaster risk reduction.

Q. No.	CO	Questions	Marks
		PART- A: Attempt All Questions (5x2 = 10 Marks)	
1.	CO-1	Discuss in brief the Environmental Engineering. [ESE - 1993]	2
2.	CO-1	Illustrate the Disaster management? [UPSC - 2001]	2
3.	CO-2	Write pH of drinking water.	2
4.	CO-2	Explain Water sanitation.	2
5.	CO-2	Outline the sources of water supply.	2
		PART-B: Attempt ANY THREE Questions (3x5 = 15 Marks)	
1.	CO-1	Describe the components of environment in short. [RPSC - 2019]	5
2.	CO-1	Write down steps/ways to meet the water crisis.	5
3.	CO-1	Elaborate scope and importance of Environmental Engineering. Why do we say that any study of the environment becomes an interdisciplinary one? [SSC JEC (Main) - 2018]	5
4.	CO-1	Predict the requirements for urban and rural water supply system. How does intake and transportation of water affect its quality?	5
		PART-C: Attempt ANY THREE Question (3x5 = 15 Marks)	
1.	CO-2	Write in brief, standards of drinking water.	5
2.	CO-2	Describe, how will you measure the quality of drinking water? [ESE - 2000]	5
3.	CO-2	Find the importance of sanitation. How will you aware the society about sanitation? [RPSC - 2013]	5
4.	CO-2	Explain the various stages of water treatment? Draw neat sketch and show various stages.	5

2.2.3 Quality of student projects (25)

Institute Marks : 25.00

The project work carried out by the student generally reflects their learning level during the program and knowledge of all the POs while implementing their project work on various technical / social challenges of the society. To ensure the quality and monitoring of projects, department analyse continuous evaluation and progress through Project assessment Committee. Based on the rubrics student projects are evaluated and continuous monitoring is done by the project coordinator with concerned faculty mentor of the project.

Project identification

- Projects are identified based on their relevance to course learning outcomes, industry requirements, and societal impact.
- Faculty members suggest project topics considering the curriculum, area of interest, and latest trends etc.
- Students may propose projects based on personal interests, internships, or industry interaction.
- Projects with industry collaborations are encouraged to address real-world problems.

Project Allotment

- Project coordinator issues a circular to all faculty members to provide the list of five projects to be given to the students according to their specialisation.
- Faculty members list with their specialization is circulated among students before start of the semester.
- Students discuss their ideas with faculty members according to faculty specialization.
- Faculty members prepare group of students having same type of interest/field /idea with combination of Strong and weak students.
- Faculty members modify their ideas.
- The project ideas received are filtered by the Project assessment committee on the basis of CO"s i.e. Environment, Cost, Ethics, Safety, and Usefulness of the project.
- Final list of finalized projects has been made and display on notice board.

Table 2.2.3 (A): Basic Criterion for the Selection or Rejection of Project

S.No.	Title of project	Project	Evaluation (10)					Relevance with PO'S	Remarks
		Guide	Use fullness of the project (3)	Safety (2)	Ethics & Communication (2)	Project Management (3)	Total (10)	Relevance with PO'S	
1	x		2	2	2	2	8	PO1, PO2, PO3, PO6, PO8, PO9, PO11, PO12, PSO1 PSO2	ACCEPT
2	y		1	0	1	1	3	PO1, PO2, PO3, PO7	REJECT

Project Continuous Monitoring

· Project coordinator displays the deadline on notice board for the progress report presentations and final submission of the project report.

· Each group has to summit progress report to the respective guide.

· Progress report presentation followed by viva-voce has been carried out monthly in a semester in front of Project assessment committee, then Project assessment committee review the progress and gives suggestions.

Project Evaluation

· A presentation followed by viva voce is also carried out at the end of semester in front of the external examiner and other students.

· Each group of students has to submit a report of their work along with the role of each team member after semester.

· The project exhibition is carried out at the end of semester. Student/group of students demonstrated the project in front of external examiner and other students.

· All the students are mandatory 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 institution are invited during the presentation for expert comments.

· All the papers in the form of conference proceeding is also maintained in the department and also uploaded on website as link given below.

· All the project titles are mapped with all the Program outcomes (POs) and Program specific outcomes (PSOs) for evaluation of POs and PSOs attainment as per rubric.

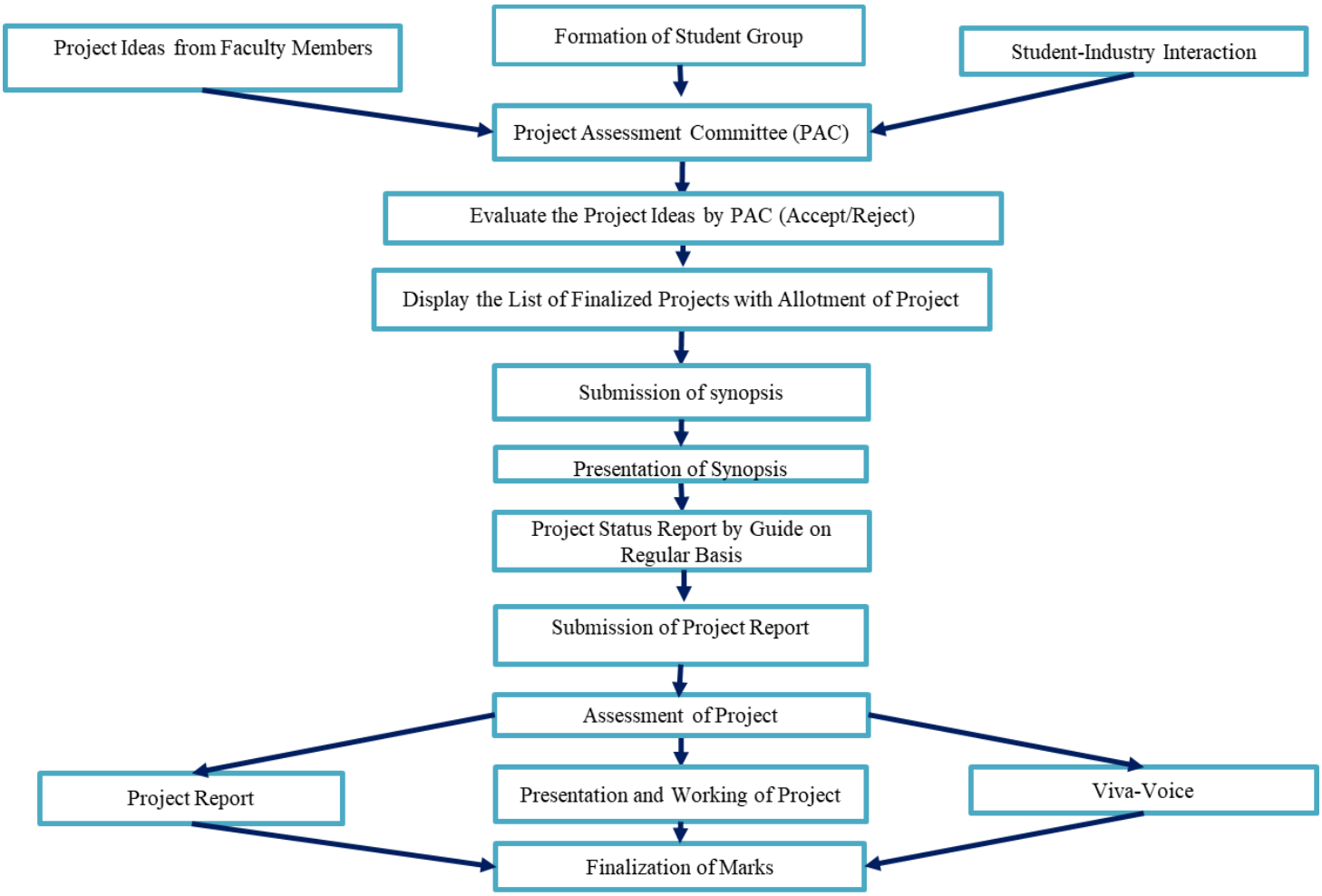


Figure 2.2.3 (A): Process of Allotment & Evaluation of Project

Table 2.2.3 (B): Project Assessment

Internal Assessment						Total
Presentation 1(15)			Presentation 2(15)			
Content	Communication Skill	Status	Content	Communication Skill	Status	
5	5	5	5	5	5	30
Presentation 3(15)			Presentation 4(15)			
Content	Communication Skill	Status	Content	Communication Skill	Status	
5	5	5	5	5	5	30
External Assessment						40
Total						100

Impact Analysis:

- Students gain increased exposure to industry practices, fostering a deeper understanding of real-world applications and trends in their respective fields.
- The technical capabilities of students are significantly enhanced, equipping them with advanced skills and knowledge that meet industry standards and requirements.
- Students experience improved placement rates in core industry sectors, reflecting the growing recognition of their technical expertise and professional preparedness.
- Students acquire practical work experience, which enriches their learning, strengthens their resumes, and prepares them for challenges in the professional world.
- Students develop a comprehensive understanding of the practical challenges and processes within the industry, allowing them to approach problems with greater confidence and insight.

Table 2.2.3 (C): Project Allotted in the year (2021-22)

2021-2022		
S.No.	**Project Title**	**Relevance with PO'S**
1	Traffic Simulation and Modelling of specific areas	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO9,PO10, PO11, PO12
2	study on application of hydrostatic law of fluid	PO1,PO2, PO3,PO4, PO5,6, PO7, PO8,PO9,PO10, PO11, PO12
3	Building Information Modelling	PO1,PO2, PO3, PO5,PO6, PO8,PO9,PO10, PO11, PO12,PSO1
4	Study On Canal Irrigation Scheme	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO9,PO10, PO11, PO12
5	Study on application of Bernoulli theorem.	PO1,PO2, PO3,PO4,PO9,PO10, PO11, PO12

6	Accident Analysis of Specific Areas	PO1,PO2, PO3,PO4, ,PO6,PO9,PO10, PO11, PO12
7	Case study on high-rise building	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO9,PO10, PO11, PO12
8	Utilization of Industrial Waste in Construction	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO11, PO12
9	Power generation using speed breakers	PO1,PO2, PO3,PO4, PO5,PO6, PO9,PO10, PO11, PO12
10	Experimental Study On M-25 Concrete grade mix with glass powder as a replacenmen of cement in Concrete	PO1,PO2, PO3,PO4, PO5, PO7, PO8, PO11, PO12
11	Zero Waste Initiative of JECRC Foundation	PO1,PO2, PO3,PO4,PO6, PO7, PO8,PO9,PO10, PO11, PO12,PSO2
12	Study on construction waste	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO9,PO10, PO11, PO12,PSO2
13	Earthquake Resistant Construction Techniques	PO1,PO2, PO3,PO4,PO6, PO7, PO8,PO9,PO10, PO11, PO12
14	Analysis Of Traffic Flow	PO1,PO2, PO3,PO4, PO5, PO8,PO9,PO10, PO11, PO12
15	Study on fly ash as filler in a bituminous concrete	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO9,PO10, PO11, PO12
16	Coir Geotextiles For Pavement Construction	PO1,PO2, PO3,PO4, PO6,PO7, PO8, PO11, PO12
17	Signal Design.	PO1,PO2, PO3,PO4, PO5,PO6,PO9,PO10, PO11, PO12
18	self-compacting concrete	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO9,PO10, PO11, PO12
19	Experimental study on M-25 concrete grade mix with stone dust as a replacement of sand in concrete	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO9,PO10, PO11, PO12
20	A study of Reliability of bus service schedule in dehradun city	PO1,PO2, PO3,PO4, PO5,PO6, ,PO9,PO10, PO11, PO12
21	Recycling Of Plastics	PO1,PO2, PO3,PO4, PO5,PO6, PO7, PO8,PO9,PO10, PO11, PO12,PSO1
22	Partial Replacement Of Cement With Glass Powder	PO1,PO2, PO3,PO4, PO5, PO7, PO8,PO9,PO10, PO11, PO12

Table 2.2.3 (D): Project Allotted in the year (2022-23)

2022-2023		
S. No.	**Project Title**	**Relevance with PO'S**
1	Comparative Case study of Plastic Road with Bituminous Road	PO1, PO2, PO3,PO4,PO5,PO7,PO8 PO9, PO10, PO11, PO12,
2	Zero Energy building: Need of Future	PO1, PO2, PO3,PO4,PO5,PO7, PO8,PO9, PO10, PO11, PO12, PSO1,PSO2
3	Study on waste treatment techniques for utilisation in various cities of India	PO1, PO2, PO3,PO4,PO5,PO7, PO8,PO9, PO10, PO11, PO12,
4	Jaipur Metro-The White elephant Project	PO1, PO2, PO3,PO4,PO5,PO7, PO8,PO9, PO10, PO11, PO12,
5	Utilization Of Crushed Red Clay Tiles Partial Replacement Of Fine Aggregate In Mortar Mix"	PO1, PO2, PO3,PO4,PO5,PO7, PO8,PO9, PO10, PO11, PO12,
6	Use Of SCC for Sustainable Yet Economic Development	PPO1,PO2,PO3,PO4,PO5, PO7,PO8,PO9, PO10, PO11, PO12
7	Comparative case studies of BIM projects	PO1,PO2,PO3,PO4,PO5,PO7, PO10, PO11, PO12,PSO1
8	stabilization of soil by using fly ash,CKD, LKD	PO1,PO2,PO3,PO4,PO5, PO7, PO8,PO9, PO10, PO11, PO12
9	Highway failure and their maintenance on NH552	PO1,PO2,PO3,PO4,PO5,PO7, PO8,PO9, PO10, PO11, PO12
10	case study on earthquake resistant structures in Japan	PO1,PO2,PO3,PO4,PO5, PO6,PO7, PO8,PO9, PO10, PO11, PO12
11	Study on Air Pollution in Jaipur City	PO1,PO2 PO3,PO5, PO6, PO7, PO8,PO9, PO10, PO11, PO12
12	TRAFFIC VOLUME STUDIES AND COGNITIVE SOLUTIONS (Inida Gate Jaipur)	PO1,PO2,PO3,PO5, PO6, PO7,PO9, PO10, PO11, PO12
13	Study of concrete usnig foundry waste in M-25 Concrete	PO1,PO2,PO3 PO4, PO5 , PO7, PO8,PO9,PO10, PO11, PO12
14	Study on Global Earthquake Resistant Techniques for Implementation in Various Seismic Zones of India	PO1, PO2, PO3,PO4,PO5, PO6, PO7, PO8,PO9, PO10, PO11, PO12
15	Influence of the ground territory on response of the Earthquake as per Indian Standards	PO1, PO2, PO3,PO4,PO5, PO6, PO7,PO8,PO9, PO10, PO11, PO12
16	Study on Morphing Structures	PO1, PO2, PO3,PO4,PO5, PO6,, PO8,PO9, PO10, PO11, PO12
17	Case Study on Delhi- Mumbai Express Way	PO1, PO2, PO3,PO5, PO6, PO7, PO8, PO10, PO11, PO12
18	Revolutionizing Domestic Waste Treatment & Management; Sustainable Approaches for a Cleaner Future	PO1, PO2, PO3,PO4,PO5, PO6, PO7, PO8,PO9, PO10, PO11, PO12
19	Durability of cement concrete	PO1, PO2, PO3,PO4,PO5, ,PO7, PO8,PO9, PO10, PO11, PO12
20	Study on Weter absorbing Road	PO1, PO2, PO3,PO4,PO5, PO6,PO9, PO10, PO11, PO12
21	Design for fire incidents in Underground Passenger metro rail system	PO1, PO2, PO3,PO4,PO5, PO6, PO7, PO8,PO9, PO10, PO11, PO12
22	Comparative study between two sewage treatment plants and their conclusions (Delhi STP and Dehlawas Jaipur)	PO1, PO2,PO3,PO4,PO5, PO7,PO8,PO9, PO10, PO11, PO12

Table 2.2.3 (E): Project Allotted in the year (2023-24)

2023-2024

S. No	Project topic	Relevance with PO'S
1	Aquifers zones in semi-arid regions of Rajasthan	PO1,PO2,PO4,PO6,PO7,PO8,PO9,PO10,PO11,PO12
2	use plastic and fly ash as soil stabilizer	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
3	Project title : Soil stabilization using recycled mortar powder	PO1,PO2,PO3,PO4,PO6,PO7,PO8,PO9,PO10,PO11,PO12
4	Investigating The Impact Of Cbr On Subgrade Shear Strength In Flexible Pavement	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
5	comparative study on municipal solid waste management	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
6	Study on Stabilization of soil using recycled material	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
7	why more earthquake happened in India for past few years	PO1,PO2,PO4,PO7,PO8,PO9,PO10,PO11,PO12
8	utilisation of waste material in manufacturing of concrete cubes	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10,PO11,PO12,PSO1
9	Utilization of Industrial Waste in Concrete	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
10	soil stabilization using coconut shell vs jute fibre	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
11	Soil stabilization using recycled brick powder	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
12	water quality assessment of sitapura industrial area jaipur	PO1,PO2,PO4,PO6,PO7,PO8,PO9,PO10,PO11,PO12
13	Comparative analysis of concrete using recycled Aggregates	PO1,PO2,PO3,PO4,PO6,PO7,PO8,PO9,PO10,PO11,PO12
14	Study on socio economic impact of highway failure and safety	PO1,PO2,PO3,PO4,PO6,PO8,PO9,PO10,PO11,PO12
15	Earthquake Resistance Design	PO1,PO2,PO3,PO4,,PO6,PO7,PO8,PO9,PO10,PO11,PO12
16	Design concrete mix for RCC ESR while using plastic waste material"	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
17	Study On Use of plastic waste in flexible pavement construction	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
18	Utilization of Mild Steel fibre in concrete mix design for Pump House	PO1,PO2,PO3,PO4,PO5,PO6,,PO8,PO9,PO10,PO11,PO12
19	Comparative study on different interchange in Jaipur city	PO1,PO2,PO3,PO4,,PO6,PO8,PO9,PO10,PO11,PO12
20	Study on Public transport in Jaipur city	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
21	Partial Replacement of Cement with Egg Shell Powder and Silica Fumes	PO1,PO2,PO3,PO4,PO6,PO8,PO9,PO10,PO11,PO12
22	Exploring the impact of bacteria on GGBFS concrete properties	PO1,PO2,PO3,PO4,PO6,PO8,PO9,PO10,PO11,PO12
23	Causes and Prevention of Road accidents	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
24	Enhancing Strength Properties of Concrete through the Integration of Steel Fiber and Rice husk Ash	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12

Table 2.2.3 (F): Student Projects Related to the Centre of excellence in "Sustainable Development" (Established by Ultra Tech)

S. No	Project Topic	Relevance with POs
1	Pervious Concrete	PO1,PO2,PO4,PO6,PO7,PO8,PO9,PO10,PO11,PO12
2	Litecon Concrete	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
3	Cement Manufacturing Process	PO1,PO2,PO3,PO4,PO6,PO7,PO8,PO9,PO10,PO11,PO12
4	Aqua Seal Concrete	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
5	Type for Readymix Mortar Adhesives	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
6	Reinforcement Structures Models	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12

Figure 2.2.3 (B): Glimpse; Student Projects

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

(A) Industry-attached laboratories

1. Centre of Excellence in “Sustainable Development” (Established by Ultra Tech)

2. Centre of Excellence in “CAD Lab” (Established by CADD Centre)

Table 2.2.4 (A): Industry-attached laboratories

Lab Name	Description	Utilization
COE in Sustainable Development (Established by Ultra Tech)	Conduct workshop, training program etc.	Directly/indirectly we can support to construction industry by providing them consultancy services
COE in CAD Lab (Established by CADD Centre)	Conduct workshop, training program etc.	Directly/indirectly we can support to construction industry by providing them consultancy services

(B) Industry involvement in the program design and partial delivery of any regular courses for students

The institute is affiliated to Rajasthan Technical University Kota and we are in the compliance of the syllabus designed by RTU which gives us a minimum scope for industry involvement in the program design. However, by analysing the results of program outcome assessment in terms of direct and indirect assessments &, necessary actions recommended by Industry to improve the program curriculum. The Program coordinators discuss the results with faculty to identify the need for improvement.

Figure 2.2.4 (A): Industry Interaction

The educational reform of linking technical education with industry is one of the important educational innovations emerging in this country. Interaction between institute and industry is now widely recognized as an essential requirement to train and develop the right kind of manpower necessary to sustain and promote industrial and economical growth. To strengthen interaction with industries and to keep our students updated with the latest trends in civil engineering, the department has implemented following initiatives.

- Department entered into an MoU with CADD CENTRE, Jaipur for the benefit of the civil engineering students in the field of design.
- Department entered into an MoU with Ultra Tech, Jaipur for the benefit of the civil engineering students in the field of design.
- Special lecture by experts from industries have been conducted for exposing the industrial needs to the students.
- Students are permitted to take training at various industries.
- All students undertake summer/winter vacation training/Internship in industries which is mandatory.
- Faculty members/ department training/Internship and placement officer encourage the students to visit a wide range of technical exhibitions to keep them abreast of the scenario prevailing in their field of study. Thus the students undergoing the co-curricular training program get multi-faceted exposure to their respective engineering discipline.
- Industrial visits have been carried out along with the faculty members to bridge the gap between theoretical concepts and practical implications of the same.

Table 2.2.4 (B): Delivery of Appropriate Courses by Industry Experts

S. No.	Year	Title of Course	Delivered by
1	2023-24	Campus Recruitment Training (CRT)	FACE & WAE
2	2022-23	Campus Recruitment Training (CRT)	FACE & WAE
3	2021-22	Campus Recruitment Training (CRT)	FACE & WAE
4	2020-21	Campus Recruitment Training (CRT)	FACE & WAE

Expert Talks by Industry Experts/ Academician

Expert talks are organized for the benefit of students and faculty by inviting experts from reputed research organizations and industries. The details of delivery of expert talks delivered by industry experts/academician are given in Table 2.2.4B below.

Table 2.2.4 (C): Expert Talks Delivered by Industry Experts/Academician

S. No	Lecture/ Workshop/industrial visit	Topic	Resource person	Name of organization	Date
(2023-24)					
1	Workshop	Critical Thinking and Aptitude Skills	Mr.Rohit Kumar	(Face Academy)	24/07/2023 - 26/07/2023
2	Workshop	Professional Soft Skills Development	Mr. Sachin Bhosale	(WAE Academy)	27/07/2023 - 29/07/2023
3	Workshop	Facilitating Remote Access to Multidisciplinary Science and Engineering Labs	Mr. Prateek Sharma Mr.Shivam Sundaram	Virtual Lab, IIT Delhi	16/12/2023

4	Workshop	Artificial Intelligence (AI) Workshop	Aman and Aditya (Asquare)	JECRC Incubation Centre	12/04/2024
5	Workshop	Research Practices and Methodology	Dr.Suresh Kumar sankhala	(Prof. M.B.M Jodhpur)	17/05/2024 - 18/05/2024
6	Workshop	Innovation in civil engineering lab	Mr. Prateek Sharma Mr.Shivam Sundaram	Virtual Lab, IIT Delhi	29/05/2024
7	Industrial Visit (Jantar Mantar)	Detailed knowledge of Vastu Shastra	Mr. Mukesh Kumar	Jantar Mantar, Jaipur	06/03/2023
8	Industrial visit (Survey Camp)	Real-World Applications of Field Survey Knowledge	Mr. Abhishek Mudgal	Chandwaji, Jaipur, Rajasthan	27/04/2024 - 30/04/2024
9	Guest Lecture	Leaders Talk – A Session by Mr. Shantanu Naidu	Mr. Shantanu Naidu	General Manager-Tata Sons	26/08/2023
10	Guest Lecture	Guest Lecture on “Inventiveness and originality”	Anirudh Kala	CEO of Celebal Technologies	18/09/2023
11	Guest Lecture	Guest Lecture on “Entreprethon”	Ravi Nandan Sinha	Director of Development at MSME Business Forum	19/09/2023
12	Guest Lecture	Guest Lecture on “The value of entrepreneurship”	Mr. Inderjeet Singh,	Commissioner at the Division of IT & Communication, Rajasthan	20/09/2023
13	Guest Lecture	Tech Exploration And Innovation Journey	Abhinav Sharma and Mr. Standford DSouza	Microsoft Azure X JIC	16/03/2024
14	Guest Lecture	Advanced Practices in CAD Drawing	Er. Pawan Brahm Bhatt	(Director, M/S Brahmbhatt Consultancy	19/03/2024
15	Guest Lecture	Advanced Practices in Hydraulic Bridge Model	Dr. OM Prakash Choudhury	(HOD Civil- JNU)	19/03/2024
16	Guest Lecture	Innovative Solutions for Waste Utilization	Dr.Vishal Saxena	Assistant Professor (JECRC)	21/03/2024
17	Guest Lecture	Guest Lecture On “Career Guidance”	Mr.Devender Nayak & Praveen Kumar	Civil Engg. Educator (Zone Tech)	01/04/2024
18	Guest Lecture	Guest Lecture on “Career Guidance On Civil Software”	Mr.Ravi Kumar Swami	Director CadeMate.Pvt.Ltd.	02/04/2024
19	Guest Lecture	Guest Lecture On “Importance Of Civil Software”	Mr. Hitesh B. Lahoti	Director (CESA)	02/04/2024
20	Guest Lecture	Guest Lecture on “ Pre-Placement Talk”	Mr.Mukesh Aggrawal	Associate Professor (JECRC)	03/04/2024

Table 2.2.4 (D): Expert Talks Delivered by Industry Experts/Academician

S. No	Lecture/ Workshop/industrial visit	Topic	Resource person	Name of organization	Date
(2022-23)					
1	Workshop	Critical Thinking and Aptitude Skills	Mr. Deepak	(Face Academy)	05/07/2022 - 06/07/2022
2	Workshop	Professional Soft Skills Development	Mr. Deepak	(WAE Academy)	07/07/2022

3	Workshop	Facilitating Remote Access to Multidisciplinary Science and Engineering Labs	Mr. Prateek Sharma Mr.Shivam Sundaram	Virtual Lab, IIT Delhi	16/12/2022
4	Workshop	Content Writing Workshop	Sapan Mittal, Vishakha Singh	JECRC Incubation Centre	25/01/2023
5	Workshop	Graphic Designing Workshop	Khush Goyal, Aayushi Singh	JECRC Incubation Centre	27/01/2023
6	Workshop	PR, Relationship Building & Leadership Skills	Tarun Saraswat	JECRC Incubation Centre	29/01/2023
7	Workshop	Hands on Workshop on StaadPro	Mr.Bharat Singhal	Vision 4 structure	11/05/2023 - 13/05/2023
8	Workshop	Research Practices and Methodology	Dr.Suresh Kumar sankhala	(Prof. M.B.M Jodhpur)	17/05/2023 - 18/05/2023
9	Workshop	Innovation in civil engineering	Mr. Prateek Sharma Mr.Shivam Sundaram	Virtual Lab, IIT Delhi	14/06/2023
10	Industrial Visit	On-site Visit to the Dam	Mr. Rakesh	(AEN-WRD)	21/09/2022
11	Industrial Visit	Water Treatment Plant Exploration	Miss Pooja karwasara	(AEN-PHED)	21/09/2022
12	Industrial Visit (CDOS,Jaipur)	Diverse Rock Testing Methods	Jasvant Singh	CDOS at Sitapura	06/12/2022
13	Industrial visit (Survey Camp)	Real-World Applications of Field Survey Knowledge	Mr. Abhishek Mudgal	Chandwaji, Jaipur, Rajasthan	30/03/2023 - 01/04/2023
14	Industrial visit (Jantar Mantar)	Detailed knowledge of Vastu Shastra	Mr. Mukesh Kumar	Jantar Mantar, Jaipur	28/04/2023
15	Guest Lecture	Real-World Structural Engineering Solutions Using STAAD Pro	Mr. Hitesh B. Lahoti	Civil Engg. Software Academy	27/09/2022
16	Guest Lecture	Enhancing Proficiency in Software Tools	Er. Ashutosh Kumar	Yumay Civil Creations	22/10/2022
17	Guest Lecture	Advanced Practices in CAD Drawing	Er. Pawan Brahm Bhatt	(Director, M/S Brahmbhatt Consultancy	13/04/2023
18	Guest Lecture	Advanced Practices in Hydraulic Bridge Model	Dr. OM Prakash Choudhury	(HOD Civil-JNU)	16/02/2023
19	Guest Lecture	Innovative Water Tank Design Using Thermocol	Dr. ManMohan	Assistant Professor (JECRC)	17/02/2023
20	Guest Lecture	Civil Engineering Knowledge Quiz	Dr. Avani Pareek	Assistant Professor (JECRC)	14/04/2023
21	Guest Lecture	Innovative Solutions for Waste Utilization	Dr.Vishal Saxena	Assistant Professor (JECRC)	15/04/2023

22	Guest Lecture	Guest Lecture on “Kartavya Path Blog”	Mr. Vijay Shekhar Sharma	Paytm Founder, CEO	26/06/2023
23	Startup Conclave	Open to Entrepreneurs, Startups in Jaipur, Students, and Aspiring Entrepreneurs	OP Godara Sanjit Sihag & Laav Bharadwaj etc.	Cofounder Tinkerly, Cofounder & MD MyTeam11 & Founder HiCentrik	07/12/2022

Table 2.2.4 (E): Expert Talks Delivered by Industry Experts/Academician

S. No	Lecture/ Workshop/industrial visit	Topic	Resource person	Name of organization	Date
(2021-22)					
1	Workshop	Fundamental of Programming	Mr.Teekam Choudhary	(Face Academy)	03/07/2021 - 04/07/2021
2	Workshop	Data Structure Algorithm	Mr.Teekam Choudhary	(WAE Academy)	10/07/2021 - 11/07/2021
3	Workshop	Programming: Core Concepts and Practices	Mr.Teekam Choudhary	(Face Academy)	17/07/2021 - 18/07/2021
4	Workshop	“Covid Care and Immunity Enhancement	Prof. R.A. Gupta	Rajasthan Technical University, Kota	08/07/2021 - 10/07/2021
5	Workshop	Offering Remote Lab Solutions for Science and Engineering Disciplines	Mr. Prateek Sharma Mr.Shivam Sundaram	Virtual Lab, IIT Delhi	12/10/2021
6	Workshop	Research Exploration and Analysis	Dr. B.L Nagar	(Prof. JNU)	17/06/2021 - 18/06/2021
7	Industrial Visit (CDOS,Jaipur)	Different Approaches in Rock Testing	Jasvant Singh	CDOS at Sitapura	17/11/2021 - 18/11/2021
8	Industrial visit (Jantar Mantar)	Detailed knowledge of Vastu Shastra	Mr. Mukesh Kumar	Jantar Mantar, Jaipur	11/03/2022
9	Industrial visit (Survey Camp)	Mastering Practical Field Survey Methods	Mr. Abhishek Mudgal	Chandwaji, Jaipur, Rajasthan	30/03/2022 - 01/04/2022
10	Guest Lecture	Software skill Enhancement	Mr. Ravi Kumar Swami	CadeMate.Pvt.Ltd.	10/03/2022
11	Guest Lecture	Advanced Practices in CAD Drawing	Er. Pawan Brahm Bhatt	(Director, M/S Brahmbhatt Consultancy	17/05/2022
12	Guest Lecture	Innovative Civil Engineering Knowledge Quiz	Dr. Avani Pareek	Assistant Professor (JECRC)	18/04/2022
13	Guest Lecture	Advanced Practices of water tank deisgn	Dr. ManMohan	Assistant Professor (JECRC)	18/05/2022

14	Guest Lecture	Innovative Solutions for Waste Utilization	Dr.Vishal Saxena	Assistant Professor (JECRC)	18/02/2022

Table 2.2.4 (F): Expert Talks Delivered by Industry Experts/Academician

S. No	Lecture/ Workshop/industrial visit	Topic	Resource person	Name of organization	Date
(2020-21)					
1	Workshop	Essential Aptitude Skills	Mr. Deepak	(Face Academy)	21/08/2020 - 24/08/2020
2	Workshop	Core Interpersonal Skills	Mr. Deepak	(WAE Academy)	25/08/2020
3	Workshop	Advancing Software Proficiency	Er.Abhijeet Patankar	CadCentre, Jaipur	21/05/2021 - 22/05/2021
4	Workshop	Research Practices and Methodology	Dr. B.L Nagar	(Prof. JNU)	29/06/2021 - 30/06/2021
5	Guest Lecture	Innovative Approaches in Remote Sensing & GIS	Prof. D. Nagesh Kumar	(Associate Faculty, IIS-Banglore	21/08/2020
6	Guest Lecture	Extensive Knowledge of Construction Industry Practices	Prof. Lucio Soibelman	(Prof. Los Angeles, California, USA)	22/10/2020
7	Guest Lecture	Aligning Syllabus Understanding with Career Guidance	Mr. Suneel Kumar Tiwari	(Sr.FacultyMade-Easy Delhi)	08/01/2021
8	Guest Lecture	Advanced Insights into Simple Stress-Strain Behaviour	Mahesh Jain	[M.Tech,IIT Delhi, Alumini of JECRC]	20/05/2021

C. Impact Analysis of Industry Interaction

Table 2.2.4 (G): Impact Analysis of Industry Interaction

S. No.	Course Details	Proportion of Students	Impact
1.	Industry Visits of local Industry in second year of program	All	Exposure to industry: awareness of local industrial scenario
2.	Industrial cum educational tour during III year sixth semester	All	Exposer of national industrial scenario
3.	Lectures by Industrial Experts	All	Awareness of working in industry, awareness of growth prospects and similar issues of industry expectations from fresh engineers, awareness of business procedures, familiarization with real life experiences.
4.	Campus Recruitment Training	All	Enhance chance of campus placement in various companies
5.	Infosys Campus Connect program	All	Enhance chance of campus placement with Infosys

Figure 2.2.4 (A): Glimpse; Industrial Interaction

2.2.5 Initiative related to industry internship/summer training (15)

Institute Marks : 15.00

Rajasthan Technical University provides minimum 15 days industrial training for 2nd year students and 45 days industrial training for 3rd, 4th year students as per RTU curriculum.

Students are also encouraged to participate in industrial orientation programme from time to time.

The process of allotment of summer internships is as follows:

- Initially Department issue a letter for industry internship for every student.
- Students will show this letter to respective company/organization from where they want to pursue their training programme.
- Company will acknowledge to college (department) letter of industry training.
- Once the company approval comes, department will take review on that particular company profile and if it is found appropriate for training then only students are allowed to pursue their training from that company.
- After that, department issue approval letter for industry training.
- After completion of training, company issued a certificate or evaluation letter.
- Students have to submit their Xerox copy industry training certificate.
- A presentation followed by viva-voce is taken on their industry training in next semester on which they have to submit a report.
- Final evaluation will be done and marks will be given for industry internship programme.

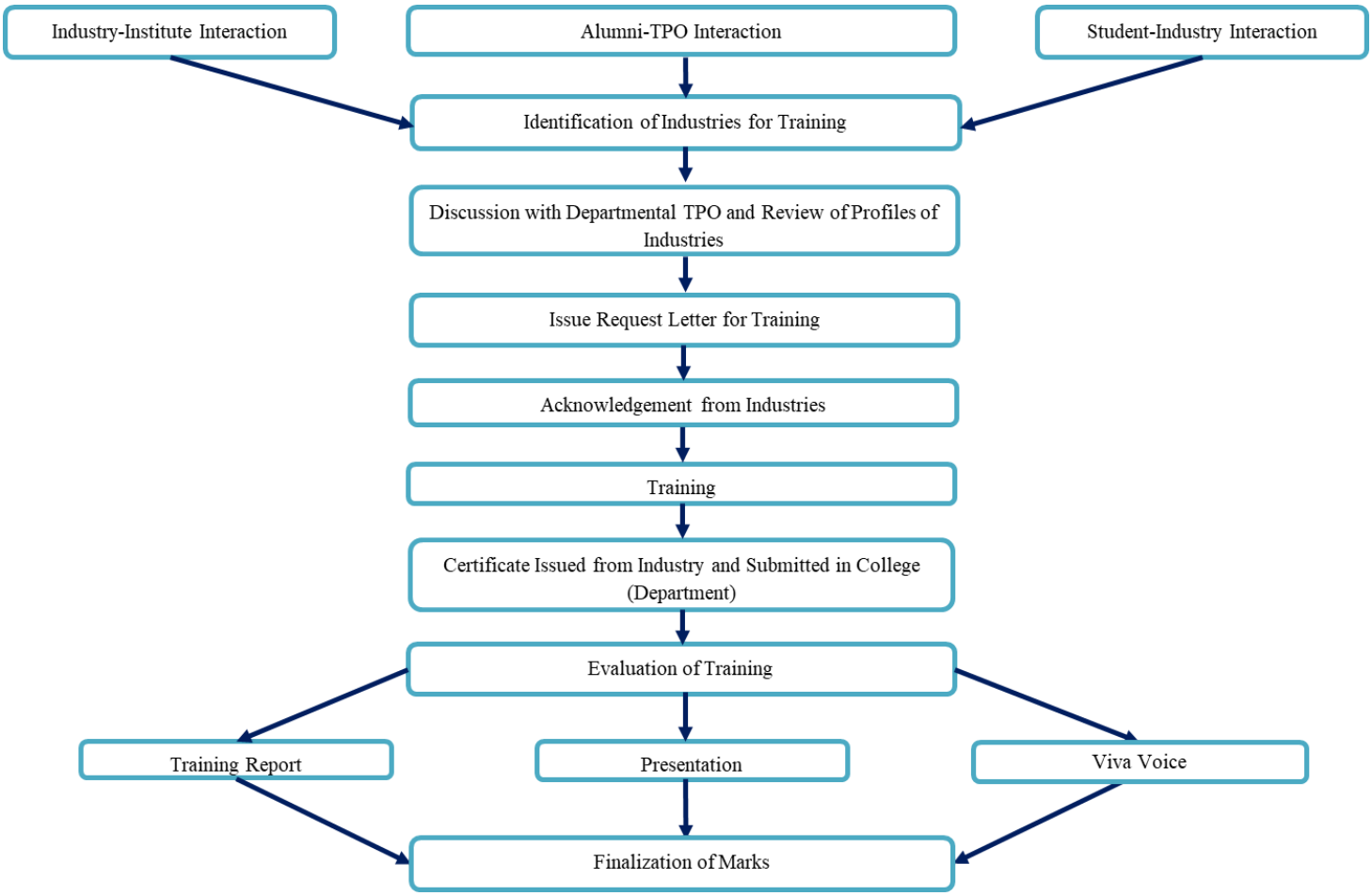


Figure 2.2.5 (A): Process of Evaluation of Industrial Training

The department improve industry-institution relationships by organizing industrial visits, training sessions, and various activities for students.

Table 2.2.5 (A): Organised industrial visits, training and activities (2023-24)

S. No.	Event	No. of Students
1.	Mandatory Industrial training after 3rd year and 2nd year to all students for 45 Days	120
2.	Mandatory industrial training of 15 Days after first Year	60
3.	Analytical skill enhancement through FACE & WAE academy	33
4.	Industrial visit	45 in each visit
5.	Add-on courses (Technical Training/workshops)	30 in each course

Impact Analysis of Industrial visit

- Students gain practical experience, connecting classroom theory with real-world applications in the industry.
- The visit sparks a greater interest and deeper engagement with the subjects being studied.
- It inspires students to work harder and pursue careers in top industries.
- The experience provides valuable insights into industry standards and workplace culture, helping students prepare for their future professional careers.

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120) Total Marks 120.00

Define the Program specific outcomes

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20) Total Marks 20.00

:

PSO1	To prepare students to design multistory buildings with recent state of art and technology.
PSO2	To design buildings with aspect of Vastu shastra and Green building technology.

3.1.1 Course Outcomes(COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5) Institute Marks : 5.00

Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	C2 06	Course Year :	2023-2024

Course Name	Statements
C2 06.1	Students will be able to explain the definitions and types of fluids, including properties such as viscosity, surface tension, and specific gravity
C2 06.2	Students will be able to apply principles of fluid statics to calculate pressure in various contexts, using devices like manometers and Bourdon gauges
C2 06.3	Students will be able to analyze flow kinematics, including the distinction between laminar and turbulent flow, and apply the equation of continuity to fluid motion
C2 06.4	Students will be able to evaluate fluid dynamics using Bernoulli's equation and investigate real-world applications of laminar flow in pipe systems and their implications for engineering design

Course Name :	C2 05	Course Year :	2023-2024

Course Name	Statements
C2 05.1	Students will be able to describe the ability, behaviour of metal under the action of external forces
C2 05.2	Students will be able to construct shear force diagram and bending moment diagram for different type of beam for different loading
C2 05.3	Student will be able to solve problem on torsional member and structural members
C2 05.4	Student will be able to solve problem based on the Slope & Deflection of beam under the external loading, and recommend methods for analyzing complex loading scenarios in real-world applications

Course Name :	C3 05	Course Year :	2023-2024

Course Name	Statements
C3 05.1	Students will be able to describe irrigation concepts and explain the current status of irrigation in India, focusing on soil moisture and crop water relations
C3 05.2	Students will be able to analyze consumptive water use and compare irrigation water quality standards across regions
C3 05.3	Students will be able to apply canal irrigation theories to design channels and assess diversion head works for various flows
C3 05.4	Students will be able to evaluate dam design principles and create a comprehensive water resource management strategy, incorporating innovative irrigation and hydrology techniques

Course Name :	C3 12	Course Year :	2023-2024

Course Name	Statements
C3 12.1	Students will be able to describe the definition, classification, sources, and composition of solid waste, along with traditional disposal methods
C3 12.2	Students will be able to analyze waste collection components, including container characteristics, vehicles, and transfer stations
C3 12.3	Students will be able to explain the characteristics of solid wastes and identify waste processing techniques, emphasizing waste minimization and the 3 R principle
C3 12.4	Students will be able to design management strategies for hazardous waste, including e-waste, and evaluate advancements and regulations in waste management practices

Course Name :	C4 12	Course Year :	2023-2024

Course Name	Statements
C4 12.1	Students will be able to describe key concepts in environmental engineering and explain human impacts on natural resources.
C4 12.2	Students will be able to analyze disaster types and evaluate disaster management strategies.
C4 12.3	Students will be able to apply sustainable development principles and create solutions for environmental challenges.
C4 12.4	Students will be able to identify environmental regulations and examine their implications, while recommending best practices for disaster risk reduction.

Course Name :	C4 02	Course Year :	2023-2024

Course Name	Statements
C4 02.1	Students will be able to describe key disaster concepts and explain their relationship with development and climate change.
C4 02.2	Students will be able to analyze various disaster types and compare preventive measures across geological, hydro-meteorological, biological, technological, and manmade disasters.
C4 02.3	Students will be able to assess India's disaster profile and identify lessons learned from mega disasters and risk mapping.

C4 02.4	Students will be able to evaluate the disaster management cycle and create a disaster response plan that leverages community resources and inter-agency collaboration for resilience and recovery.

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5) Institute Marks : 5.00

1 . course name : C206

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	2	3	3	3	3	3	2	3	2	2	2	3
C206.2	3	2	1	2	2	1	3	2	1	3	2	2
C206.3	2	2	2	1	3	3	2	1	2	1	1	2
C206.4	3	2	1	1	2	2	2	1	3	1	2	3
Average	**2.50**	**2.25**	**1.75**	**1.75**	**2.50**	**2.25**	**2.25**	**1.75**	**2.00**	**1.75**	**1.75**	**2.50**

2 . course name : C205

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	2	2	3	2	1	3	2	1	3	2	2	1
C205.2	3	2	2	3	2	2	2	2	1	1	2	2
C205.3	3	1	1	2	2	2	1	3	2	2	3	3
C205.4	2	2	1	3	3	2	1	2	1	1	2	1
Average	**2.50**	**1.75**	**1.75**	**2.50**	**2.00**	**2.25**	**1.50**	**2.00**	**1.75**	**1.50**	**2.25**	**1.75**

3 . course name : C305

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	2	2	1	1	2	2	1	1	1	1	2
C305.2	3	3	2	2	2	2	2	1	2	1	1	3
C305.3	3	3	3	3	2	3	2	2	2	1	2	2
C305.4	3	3	3	3	2	2	3	2	2	2	2	3
Average	**3.00**	**2.75**	**2.50**	**2.25**	**1.75**	**2.25**	**2.25**	**1.50**	**1.75**	**1.25**	**1.50**	**2.50**

4 . course name : C312

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	2	1	1	2	3	3	2	1	2	2	3
C312.2	3	2	2	1	3	2	2	2	2	2	1	3
C312.3	3	2	2	2	3	2	2	2	2	2	1	3
C312.4	3	2	2	2	3	2	2	2	2	3	2	3
Average	**3.00**	**2.00**	**1.75**	**1.50**	**2.75**	**2.25**	**2.25**	**2.00**	**1.75**	**2.25**	**1.50**	**3.00**

5 . course name : C412

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	3	2	2	2	3	3	3	2	2	1	1	3
C412.2	3	3	2	2	2	3	3	1	1	1	1	2
C412.3	3	3	2	2	2	2	3	2	2	2	2	3
C412.4	3	2	3	3	2	3	3	2	1	1	1	3
Average	**3.00**	**2.50**	**2.25**	**2.25**	**2.25**	**2.75**	**3.00**	**1.75**	**1.50**	**1.25**	**1.25**	**2.75**

6 . course name : C402

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	3	3	3	3	3	3	2	2	1	2	2
C402.2	2	3	3	3	3	3	3	2	2	1	2	2
C402.3	3	3	3	3	3	2	2	2	2	1	2	2
C402.4	3	2	3	2	3	2	2	2	2	1	2	2
Average	**2.75**	**2.75**	**3.00**	**2.75**	**3.00**	**2.50**	**2.50**	**2.00**	**2.00**	**1.00**	**2.00**	**2.00**

1 . Course Name : C206

Course	PSO1	PSO2
C206.1	2	2
C206.2	1	2
C206.3	1	3
C206.4	3	2
Average	**1.75**	**2.25**

2 . Course Name : C205

Course	PSO1	PSO2
C205.1	2	3
C205.2	3	3
C205.3	2	2
C205.4	3	2
Average	**2.50**	**2.50**

3 . Course Name : C305

Course	PSO1	PSO2
C305.1	1	1
C305.2	1	1
C305.3	2	2
C305.4	2	2
Average	**1.50**	**1.50**

4 . Course Name : C312

Course	PSO1	PSO2
C312.1	1	2
C312.2	1	2
C312.3	1	3
C312.4	2	2
Average	**1.25**	**2.25**

5 . Course Name : C412

Course	PSO1	PSO2
C412.1	1	1
C412.2	1	1
C412.3	1	1
C412.4	1	1
Average	**1.00**	**1.00**

6 . Course Name : C402

Course	PSO1	PSO2
C402.1	1	1
C402.2	1	1
C402.3	1	1
C402.4	1	1
Average	**1.00**	**1.00**

3.1.3 - A Program level Course-PO matrix of all courses INCLUDING first year courses (10) Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3CE2-01	3	3	3	2	2	3	1	1	1	2	1	1
3CE1-02	3	2	2	2	2	3	3	3	2	2	2	2
3CE3-04	3	2	2	3	3	3	2	2	2	2	3	2
3CE4-05	3	2	2	1	2	1	1	1	1	1	1	3
3CE4-06	3	3	2	2	3	3	3	2	2	2	2	3
3CE4-07	3	3	1	1	2	3	3	1	1	1	1	3
3CE4-08	3	2	2	3	3	3	2	2	2	2	3	2
3CE4-21	3	3	1	2	3	1	2	1	1	1	2	3
3CE4-22	3	2	2	2	2	3	2	3	2	2	2	2
3CE4-23	3	3	3	1	1	1	1	1	1	1	1	3
3CE4-24	3	3	2	1	2	2	3	1	1	1	1	3
3CE4-25	3	3	2	2	2	3	2	3	1	3	2	2
3CE7-30	3	3	2	2	2	2	2	3	2	3	2	2
4CE2-01	3	3	3	2	2	3	1	1	1	2	1	1
4CE1-03	3	3	2	2	3	2	3	2	2	2	2	3
4CE3-04	3	2	3	3	2	2	1	1	1	2	1	1
4CE4-05	3	2	2	3	2	3	2	2	2	2	3	2
4CE4-06	3	3	2	2	2	3	3	2	2	2	2	3
4CE4-07	3	1	1	1	3	3	2	1	1	1	1	2
4CE4-08	3	3	3	3	3	2	2	1	2	1	2	1
4CE4-21	3	3	2	2	2	2	2	2	3	3	2	3
4CE4-22	3	3	3	3	3	2	2	1	2	1	2	1
4CE4-23	2	3	2	2	3	2	2	1	2	1	2	2
4CE4-24	3	3	2	3	1	3	1	1	3	2	2	1
4CE4-25	3	3	3	3	3	2	3	1	3	1	2	1
5CE3-01	3	3	3	2	2	3	2	2	2	2	2	3
5CE4-02	3	3	3	3	2	3	3	2	2	2	2	2
5CE4-03	3	3	3	3	1	2	3	2	2	1	2	2
5CE4-04	3	3	3	3	3	2	2	1	2	1	2	1
5CE4-05	3	3	3	3	2	3	3	2	2	2	2	3
5CE5-11	2	3	2	2	2	3	2	2	2	2	3	2
5CE5-14	3	3	3	1	2	2	2	1	1	1	1	3
5CE4-21	3	2	2	3	1	2	3	1	1	1	1	1
5CE4-22	3	3	3	3	3	2	3	1	3	1	2	1
5CE4-23	2	2	3	3	2	2	3	2	2	2	2	3
5CE7-30	3	3	3	2	3	3	2	2	3	3	3	3
6CE3-01	3	3	2	2	3	2	2	2	2	2	2	3
6CE4-02	3	3	3	3	2	2	3	3	2	2	2	2
6CE4-03	3	3	2	1	1	2	2	2	1	1	1	3
6CE4-04	3	3	3	3	2	2	2	1	1	1	1	2
6CE4-05	3	3	3	2	2	3	1	1	1	1	1	2
6CE5-12	3	2	2	2	3	3	3	2	2	3	2	3
6CE5-16	3	3	3	2	3	2	2	2	3	3	2	2
6CE4-21	3	3	2	2	1	3	3	1	1	1	1	3
6CE4-22	3	2	2	1	1	2	2	1	1	1	2	1
6CE4-23	3	3	2	1	1	3	1	1	2	2	2	2
6CE4-24	3	3	2	2	2	3	3	2	2	1	2	2

6CE4-25	3	3	2	2	2	3	3	2	2	2	1	3
7CE4-01	3	3	2	2	3	3	3	2	2	2	2	2
7AG6-60.1	3	3	3	3	3	3	3	2	2	2	2	3
7CE4-21	3	3	2	3	2	2	1	2	3	2	1	2
7CE4-22	3	3	1	1	1	2	1	2	2	2	2	2
7CE4-23	2	2	2	3	3	3	3	3	3	3	3	3
7CE4-24	3	3	3	2	2	3	3	2	3	2	2	3
7CE7-30	2	3	3	3	2	3	3	3	3	2	3	3
7CE7-40	3	3	2	3	1	3	1	1	3	2	2	1
8CE4-01	3	3	2	2	2	2	2	2	2	2	3	2
8TT6-60.2	3	3	3	3	3	3	3	2	2	1	2	2
8CE4-21	3	3	2	1	2	2	2	2	2	2	2	2
8CE4-22	3	2	2	2	2	2	2	2	2	2	2	2
8CE7-50	3	3	2	3	3	3	2	1	2	2	2	3
1FY2-01	3	3	2	1	1	1	0	0	1	1	0	1
1FY2-02	3	2	1	1	1	1	0	0	1	1	0	1
1FY2-03	2	1	1	1	0	1	2	0	1	1	0	1
1FY2-04	0	0	1	0	0	2	0	2	2	3	1	2
1FY2-05	0	0	2	0	0	3	2	3	2	1	0	1
1FY2-06	3	2	2	1	1	1	0	0	1	1	0	1
1FY2-07	3	1	2	1	0	1	1	0	1	1	0	1
1FY2-08	3	3	2	2	2	2	3	3	3	2	2	3
1FY2-09	3	3	3	3	2	3	3	3	2	3	2	2
1FY2- 20	2	1	1	0	0	1	0	1	2	1	0	1
1FY2-21	2	2	2	1	1	2	2	2	2	1	1	1
1FY1- 22	0	0	0	0	2	2	0	2	2	3	1	2
1FY1- 23	0	0	1	0	0	3	3	3	1	1	0	1
1FY3- 24	2	2	2	1	1	0	0	0	1	1	0	1
1FY3- 25	3	3	2	2	2	2	2	1	2	2	2	2
1FY3- 26	3	3	2	2	2	0	1	1	3	1	1	1
1FY3-27	3	2	2	2	3	3	3	2	2	3	2	2
1FY3- 28	3	2	2	1	3	1	2	0	1	1	0	1
1FY3- 29	3	2	2	1	3	1	2	0	1	1	0	1
2FY2-01	3	3	2	1	1	1	0	0	1	1	0	1

3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses :

Course	PSO1	PSO2
1FY2-09	2	2
1FY3-27	2	2
3CE1-02	3	3
3CE2-01	1	1
3CE3-04	3	3
3CE4-05	3	3
3CE4-06	2	3
3CE4-07	2	3
3CE4-08	3	3
3CE4-21	2	3
3CE4-22	3	3
3CE4-23	3	3
3CE4-24	3	3

3CE4-25	3	2
3CE7-30	3	2
4CE1-03	2	3
4CE2-01	1	1
4CE3-04	1	1
4CE4-05	3	3
4CE4-06	3	3
4CE4-07	3	3
4CE4-08	3	2
4CE4-21	3	3
4CE4-22	2	2
4CE4-23	3	3
4CE4-24	2	1
4CE4-25	2	2
5CE3-01	2	1
5CE4-02	2	2
5CE4-03	1	3
5CE4-04	2	1
5CE4-05	2	2
5CE4-21	2	3
5CE4-22	2	1
5CE4-23	1	1
5CE5-11	3	3
5CE5-14	2	3
5CE7-30	3	2
6CE-04	3	2
6CE3-01	3	1
6CE4-02	2	2
6CE4-03	1	2
6CE4-05	3	2
6CE4-21	1	2
6CE4-22	3	2
6CE4-23	3	2
6CE4-24	1	2
6CE4-25	1	2
6CE5-12	2	3
6CE5-16	1	2
7AG6-60.2	1	1
7CE4-01	2	2
7CE4-21	2	3
7CE4-22	2	2
7CE4-23	3	3
7CE4-24	1	1
7CE7-30	3	3
7CE7-40	2	1
8CE4-01	2	2
8CE4-21	1	1
8CE4-22	1	1
8CE7-50	3	3

8TT6-60.2	1	1

3.2 Attainment of Course Outcomes (50) Total Marks 50.00

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

Institute Marks : 10.00

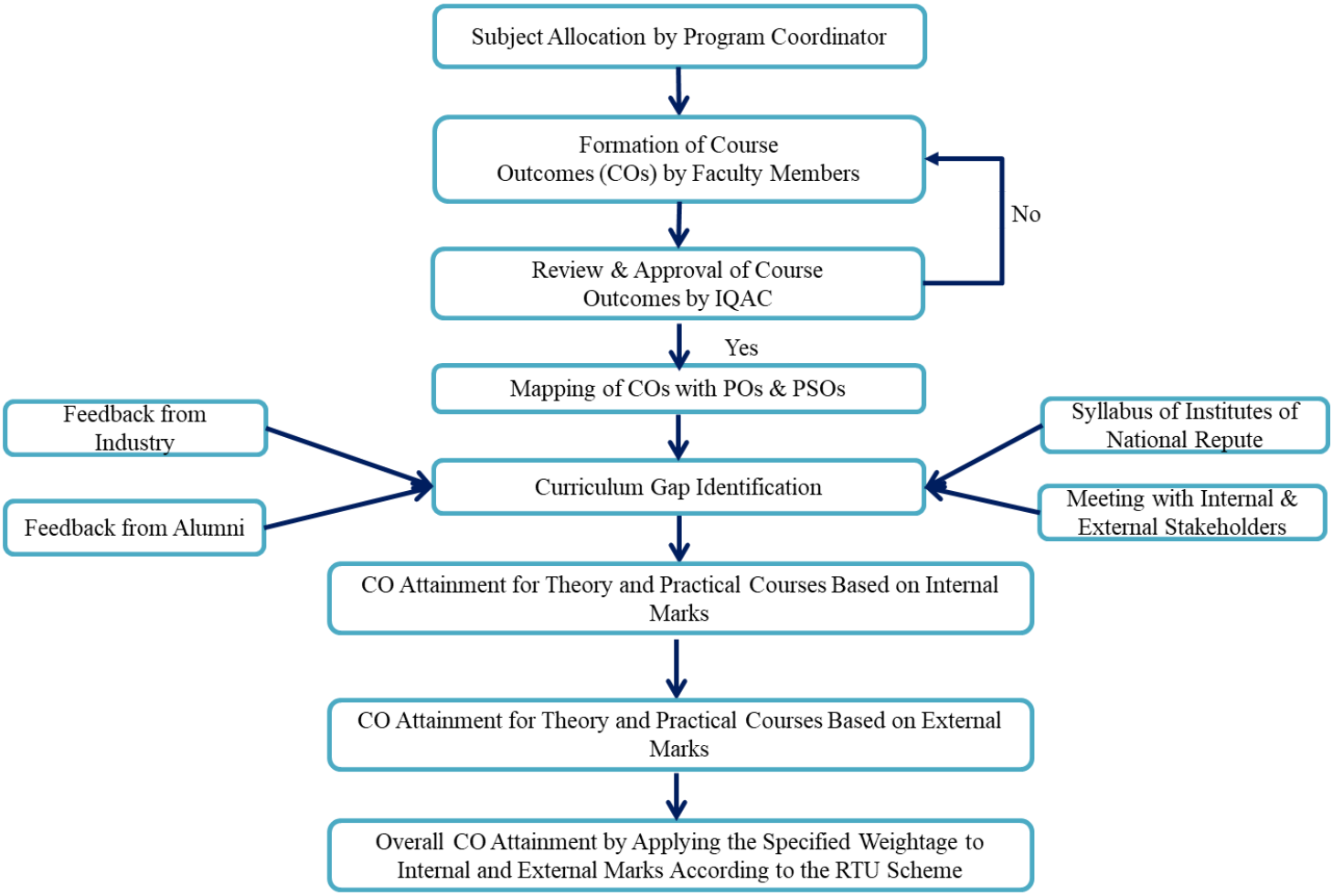


Figure 3.2.1 (A): Methodology for Direct Attainment of Course Outcomes

Process for Collecting Data to Evaluate Course Outcomes in Theory Courses

- **Internal and External Exams**
  - *Internal Exams*: Attainment level of Course Outcomes (CO) is determined from midterm exams and assignments.
  - *External Exams*: Data is collected from university examination results.

The identification of slow learners and advanced learners is based on their performance in the mid-term examinations. The threshold for distinguishing between slow learners and advanced learners is set at 60% of the maximum marks allocated for the mid-term paper. Assignments are tailored and provided to students according to their performance. Additionally, re-internal examinations are conducted for the identified slow learners to assess and track their progress.

Assessment of Theory Courses

Performance Level Benchmarking and Internal CO Attainment for Theory Courses

- The threshold for the course is defined as the minimum percentage of marks that students must achieve. This serves as a benchmark for calculating attainment levels, with the department setting the threshold at 60%.
- Calculation of the percentage attainment by dividing the number of students who score equal or above the benchmark by the total number of students who attempted the CO. The attainment percentage is obtained by taking the ratio of students scoring equal or above the threshold to the total students appearing for that particular CO.
- Determination of the CO attainment as the percentage of students in the class who scored equal or more than the threshold percentage of marks in the respective CO.

Performance Level Benchmarking and External CO Attainment for Theory Courses

- The RTU exam paper is not designed to align with CO-based assessments.
- As a result, all COs are treated equally, with CO1, CO2, CO3, and CO4 being considered equivalent.
- CO attainment is calculated as the percentage of students in the class who scored above the threshold percentage of marks for the respective CO.
- The department has set the threshold for each CO at 60%.

Final CO Attainment for Theory Courses

The final CO attainment evaluation process for students in theory courses include both components: 70% for the external examination and 30% for the internal examination or, As per RTU Scheme.

Final CO attainment = 70% weightage of external examination + 30% weightage of internal examination (*Subjected to the RTU Scheme)

Final CO attainment = 0.7x+0.3y

Where x = External examination attainment

y = Internal examination attainment

Data Collection Process for Evaluating Course Outcomes in Practical Courses

Assessment of Practical Courses

For practical courses, the evaluation consists of a 40% component for the external examination and a 60% component for the internal examination.

- **Internal Exam (Sessional)**: 60%

- **External Exam (Practical)**: 40%
- **Grand Total**: 100%

Internal Assessment Components (60%)

The internal assessment for practical courses involves a systematic process of continuous evaluation to ensure comprehensive monitoring of student's performance. This process includes regular assessments conducted throughout the duration of the course, rather than relying solely on a single examination. Key components may include:

1. **Mid Term Exam I**: Includes conducting experiments and viva-voce
2. **Mid Term Exam II**: Includes conducting experiments and viva-voce
3. **Performance in Conducting Lab Experiments** during the semester
4. **Quality of Lab Records**
5. **Attendance and Punctuality** in submitting lab records

Performance Level Benchmarking and Internal CO Attainment for Practical Courses

- The threshold for the course is defined as the minimum percentage of marks that students must achieve. This serves as a benchmark for calculating attainment levels, with the department setting the threshold at 60%.
- Calculation of the percentage attainment by dividing the number of students who score equal or above the benchmark by the total number of students who attempted the CO. The attainment percentage is obtained by taking the ratio of students scoring equal or above the threshold to the total students appearing for that particular CO.
- Determination of the CO attainment as the percentage of students in the class who scored equal or more than the threshold percentage of marks in the respective CO.

External Examination Components (40%)

- Includes conducting experiments, quiz, and viva-voce.

Performance Level Benchmarking and External CO Attainment for Practical Courses

- The threshold for the course is defined as the minimum percentage of marks that students must achieve. This serves as a benchmark for calculating attainment levels, with the department setting the threshold at 60%.
- Calculation of the percentage attainment by dividing the number of students who score equal or above the benchmark by the total number of students who attempted the CO. The attainment percentage is obtained by taking the ratio of students scoring equal or above the threshold to the total students appearing for that particular CO.
- Determination of the CO attainment as the percentage of students in the class who scored equal or more than the threshold percentage of marks in the respective CO.

Final CO Attainment for Practical Courses

The final calculation of CO attainment for practical courses, consists of a 40% component for the external examination and a 60% component for the internal examination as per the RTU scheme.

Final CO attainment = 40% weightage of external examination + 60% weightage of internal examination (*Subjected to the RTU Scheme)

Final CO attainment = 0.4x+0.6y

Where x = External examination attainment

y = Internal examination attainment

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

Course Code	COs	2021-22 Internal Attainment (X)	2021-22 External Attainment (Y)	2021-22 Final Attainment (0.3*X+0.7*Y)	2022-23 Internal Attainment (X)	2022-23 External Attainment (Y)	2022-23 Final Attainment (0.3*X+0.7*Y)	2023-24 Internal Attainment (X)	2023-24 External Attainment (Y)	Fi (
3CE2-01	CO1	1.00	0.29	0.51	0.91	0.10	0.34	1.00	0.82	
	CO2	1.00	0.29	0.51	0.99	0.10	0.37	1.00	0.82	
	CO3	1.00	0.29	0.51	0.99	0.10	0.37	1.00	0.82	
	CO4	1.00	0.29	0.51	0.91	0.10	0.34	1.00	0.82	
3CE1-02	CO1	1.00	0.76	0.83	0.91	0.37	0.53	0.33	0.15	
	CO2	1.00	0.76	0.83	0.99	0.37	0.55	0.43	0.15	
	CO3	1.00	0.76	0.83	0.99	0.37	0.55	0.43	0.15	
	CO4	1.00	0.76	0.83	0.91	0.37	0.53	0.33	0.15	
3CE3-04	CO1	1.00	0.73	0.81	0.97	0.06	0.34	1.00	0.28	
	CO2	1.00	0.73	0.81	0.99	0.06	0.34	1.00	0.28	
	CO3	1.00	0.73	0.81	0.99	0.06	0.34	1.00	0.28	
	CO4	1.00	0.73	0.81	0.97	0.06	0.34	1.00	0.28	
3CE3-05	CO1	0.97	0.52	0.65	0.99	0.30	0.51	1.00	0.87	
	CO2	0.98	0.52	0.66	0.99	0.30	0.51	1.00	0.87	
	CO3	0.98	0.52	0.66	0.99	0.30	0.51	1.00	0.87	
	CO4	0.97	0.52	0.65	0.99	0.30	0.51	1.00	0.87	
3CE3-06	CO1	1.00	0.54	0.68	0.99	0.05	0.33	1.00	0.35	
	CO2	1.00	0.54	0.68	0.99	0.05	0.33	1.00	0.35	
	CO3	1.00	0.54	0.68	0.99	0.05	0.33	1.00	0.35	
	CO4	1.00	0.54	0.68	0.99	0.05	0.33	1.00	0.35	
3CE3-07	CO1	1.00	0.94	0.96	0.99	0.52	0.66	1.00	0.52	
	CO2	1.00	0.94	0.96	0.99	0.52	0.66	1.00	0.52	
	CO3	1.00	0.94	0.96	0.99	0.52	0.66	1.00	0.52	
	CO4	1.00	0.94	0.96	0.99	0.52	0.66	1.00	0.52	
3CE3-08	CO1	1.00	0.61	0.73	0.99	0.38	0.56	1.00	0.62	
	CO2	1.00	0.61	0.73	0.99	0.38	0.56	1.00	0.62	
	CO3	1.00	0.61	0.73	0.99	0.38	0.56	1.00	0.62	
	CO4	1.00	0.61	0.73	0.99	0.38	0.56	1.00	0.62	

		Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
3CE4-21	CO1	1.00	1.00	1.00	0.99	0.99	0.99	0.83	1.00	
	CO2	1.00	1.00	1.00	0.99	0.99	0.99	0.83	1.00	
	CO3	1.00	1.00	1.00	0.99	0.99	0.99	0.83	1.00	
3CE4-22	CO1	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO2	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO3	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
3CE4-23	CO1	1.00	1.00	1.00	0.99	0.91	0.96	1.00	1.00	
	CO2	1.00	1.00	1.00	0.99	0.91	0.96	1.00	1.00	
	CO3	1.00	1.00	1.00	0.99	0.91	0.96	1.00	1.00	
3CE4-24	CO1	1.00	1.00	1.00	0.99	0.87	0.94	1.00	1.00	
	CO2	1.00	1.00	1.00	0.99	0.87	0.94	1.00	1.00	
	CO3	1.00	1.00	1.00	0.99	0.87	0.94	1.00	1.00	
3CE4-25	CO1	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO2	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO3	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
3CE7-30	CO1	1.00	1.00	1.00	0.99	0.94	0.97	1.00	1.00	
	CO2	1.00	1.00	1.00	0.99	0.94	0.97	1.00	1.00	
	CO3	1.00	1.00	1.00	0.99	0.94	0.97	1.00	1.00	

Course Code	COs	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.3*X+0.7*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.3*X+0.7*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
4CE2-01	CO1	1.00	0.40	0.58	0.99	0.48	0.63	1.00	0.68	
	CO2	1.00	0.40	0.58	0.99	0.48	0.63	1.00	0.68	
	CO3	1.00	0.40	0.58	0.99	0.48	0.63	1.00	0.68	
	CO4	1.00	0.40	0.58	0.99	0.48	0.63	1.00	0.68	
4CE1-03	CO1	1.00	0.77	0.84	0.99	0.40	0.58	1.00	0.65	
	CO2	1.00	0.77	0.84	0.99	0.40	0.58	1.00	0.65	
	CO3	1.00	0.77	0.84	0.99	0.40	0.58	1.00	0.65	
	CO4	1.00	0.77	0.84	0.99	0.40	0.58	1.00	0.65	
4CE3-04	CO1	1.00	0.42	0.59	0.99	0.35	0.54	1.00	0.68	
	CO2	1.00	0.42	0.59	0.99	0.35	0.54	1.00	0.68	
	CO3	1.00	0.42	0.59	0.99	0.35	0.54	1.00	0.68	
	CO4	1.00	0.42	0.59	0.99	0.35	0.54	1.00	0.68	
4CE4-05	CO1	0.97	0.61	0.71	0.99	0.29	0.50	1.00	0.22	
	CO2	0.98	0.61	0.72	0.99	0.29	0.50	1.00	0.22	
	CO3	0.98	0.61	0.72	0.99	0.29	0.50	1.00	0.22	
	CO4	0.97	0.61	0.71	0.99	0.29	0.50	1.00	0.22	
4CE4-06	CO1	0.98	0.46	0.62	0.99	0.21	0.44	1.00	0.62	
	CO2	1.00	0.46	0.62	0.99	0.21	0.44	1.00	0.62	
	CO3	1.00	0.46	0.62	0.99	0.21	0.44	1.00	0.62	
	CO4	0.98	0.46	0.62	0.99	0.21	0.44	1.00	0.62	

4CE4-07	CO1	1.00	0.87	0.91	0.99	0.92	0.94	1.00	0.57		
	CO2	1.00	0.87	0.91	0.99	0.92	0.94	1.00	0.57		
	CO3	1.00	0.87	0.91	0.99	0.92	0.94	1.00	0.57		
	CO4	1.00	0.87	0.91	0.99	0.92	0.94	1.00	0.57		
4CE4-08	CO1	1.00	0.97	0.98	0.99	0.64	0.74	1.00	0.50		
	CO2	1.00	0.97	0.98	0.99	0.64	0.74	1.00	0.50		
	CO3	1.00	0.97	0.98	0.99	0.64	0.74	1.00	0.50		
	CO4	1.00	0.97	0.98	0.99	0.64	0.74	1.00	0.50		

		Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
4CE4-21	CO1	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO2	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO3	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
4CE4-22	CO1	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO2	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
	CO3	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	
4CE4-23	CO1	1.00	0.99	1.00	0.99	0.99	0.99	0.97	0.98	
	CO2	1.00	0.99	1.00	0.99	0.99	0.99	0.97	0.98	
	CO3	1.00	0.99	1.00	0.99	0.99	0.99	0.97	0.98	
4CE4-24	CO1	1.00	0.98	0.99	0.99	0.99	0.99	1.00	1.00	
	CO2	1.00	0.98	0.99	0.99	0.99	0.99	1.00	1.00	
	CO3	1.00	0.98	0.99	0.99	0.99	0.99	1.00	1.00	
4CE4-25	CO1	1.00	0.98	0.99	0.99	0.99	0.99	1.00	1.00	
	CO2	1.00	0.98	0.99	0.99	0.99	0.99	1.00	1.00	
	CO3	1.00	0.98	0.99	0.99	0.99	0.99	1.00	1.00	

Course Code	COs	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.2*X+0.8*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.3*X+0.7*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
5CE3-01	CO1	0.99	0.28	0.42	1.00	0.75	0.82	0.99	0.83	
	CO2	0.99	0.28	0.42	1.00	0.75	0.82	0.99	0.83	
	CO3	0.99	0.28	0.42	1.00	0.75	0.82	0.99	0.83	
	CO4	0.99	0.28	0.42	1.00	0.75	0.82	0.99	0.83	
5CE4-02	CO1	0.99	0.55	0.64	1.00	0.28	0.49	0.99	0.53	
	CO2	0.99	0.55	0.64	1.00	0.28	0.49	0.99	0.53	
	CO3	0.99	0.55	0.64	1.00	0.28	0.49	0.99	0.53	
	CO4	0.99	0.55	0.64	1.00	0.28	0.49	0.99	0.53	
5CE4-03	CO1	0.99	0.33	0.46	1.00	0.16	0.41	0.99	0.57	
	CO2	0.99	0.33	0.46	1.00	0.16	0.41	0.99	0.57	
	CO3	0.99	0.33	0.46	1.00	0.16	0.41	0.99	0.57	
	CO4	0.99	0.33	0.46	1.00	0.16	0.41	0.99	0.57	
5CE4-04	CO1	0.99	0.25	0.40	1.00	0.15	0.41	0.99	0.56	
	CO2	0.99	0.25	0.40	1.00	0.15	0.41	0.99	0.56	
	CO3	0.99	0.25	0.40	1.00	0.15	0.41	0.99	0.56	
	CO4	0.99	0.25	0.40	1.00	0.15	0.41	0.99	0.56	
5CE4-05	CO1	0.99	0.38	0.51	1.00	0.50	0.65	0.99	0.73	
	CO2	0.99	0.38	0.51	1.00	0.50	0.65	0.99	0.73	
	CO3	0.99	0.38	0.51	1.00	0.50	0.65	0.99	0.73	
	CO4	0.99	0.38	0.51	1.00	0.50	0.65	0.99	0.73	
5CE5-11	CO1	0.99	0.82	0.86	1.00	0.39	0.58	0.99	0.74	
	CO2	0.99	0.82	0.86	1.00	0.39	0.58	0.99	0.74	
	CO3	0.99	0.82	0.86	1.00	0.39	0.58	0.99	0.74	
	CO4	0.99	0.82	0.86	1.00	0.39	0.58	0.99	0.74	
5CE5-14	CO1	0.98	0.70	0.76	1.00	0.64	0.75	0.99	0.43	
	CO2	0.99	0.70	0.76	1.00	0.64	0.75	0.99	0.43	
	CO3	0.99	0.70	0.76	1.00	0.64	0.75	0.99	0.43	
	CO4	0.98	0.70	0.76	1.00	0.64	0.75	0.99	0.43	

		Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
5CE4-21	CO1	0.97	0.97	0.97	1.00	1.00	1.00	0.99	0.99	
	CO2	0.97	0.97	0.97	1.00	1.00	1.00	0.99	0.99	
	CO3	0.97	0.97	0.97	1.00	1.00	1.00	0.99	0.99	
5CE4-22	CO1	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.99	
	CO2	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.99	
	CO3	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.99	
5CE4-23	CO1	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.99	
	CO2	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.99	
	CO3	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.99	
5CE7-30	CO1	0.99	0.99	0.99	1.00	1.00	1.00	0.94	0.99	
	CO2	0.99	0.99	0.99	1.00	1.00	1.00	0.94	0.99	
	CO3	0.99	0.99	0.99	1.00	1.00	1.00	0.94	0.99	

Course Code	COs	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.2*X+0.8*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.3*X+0.7*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
6CE3-01	CO1	1.00	0.72	0.78	1.00	0.55	0.69	1.00	0.39	
	CO2	1.00	0.72	0.78	1.00	0.55	0.69	1.00	0.39	
	CO3	1.00	0.72	0.78	1.00	0.55	0.69	1.00	0.39	
	CO4	1.00	0.72	0.78	1.00	0.55	0.69	1.00	0.39	

6CE4-02	CO1	1.00	0.68	0.75	1.00	0.45	0.62	1.00	0.26		
	CO2	1.00	0.68	0.75	1.00	0.45	0.62	1.00	0.26		
	CO3	1.00	0.68	0.75	1.00	0.45	0.62	1.00	0.26		
	CO4	1.00	0.68	0.75	1.00	0.45	0.62	1.00	0.26		
6CE4-03	CO1	1.00	0.88	0.90	1.00	0.54	0.68	1.00	0.83		
	CO2	1.00	0.88	0.90	1.00	0.54	0.68	1.00	0.83		
	CO3	1.00	0.88	0.90	1.00	0.54	0.68	1.00	0.83		
	CO4	1.00	0.88	0.90	1.00	0.54	0.68	1.00	0.83		
6CE4-04	CO1	1.00	0.55	0.64	1.00	0.33	0.53	1.00	0.13		
	CO2	1.00	0.55	0.64	1.00	0.33	0.53	1.00	0.13		
	CO3	1.00	0.55	0.64	1.00	0.33	0.53	1.00	0.13		
	CO4	1.00	0.55	0.64	1.00	0.33	0.53	1.00	0.13		
6CE4-05	CO1	1.00	0.83	0.87	1.00	0.67	0.77	1.00	0.76		
	CO2	1.00	0.83	0.87	1.00	0.67	0.77	1.00	0.76		
	CO3	1.00	0.83	0.87	1.00	0.67	0.77	1.00	0.76		
	CO4	1.00	0.83	0.87	1.00	0.67	0.77	1.00	0.76		
6CE5-12	CO1	1.00	0.89	0.91	1.00	0.71	0.80	1.00	0.78		
	CO2	1.00	0.89	0.91	1.00	0.71	0.80	1.00	0.78		
	CO3	1.00	0.89	0.91	1.00	0.71	0.80	1.00	0.78		
	CO4	1.00	0.89	0.91	1.00	0.71	0.80	1.00	0.78		
6CE5-16	CO1	1.00	0.87	0.89	1.00	0.47	0.63	1.00	0.50		
	CO2	1.00	0.87	0.89	1.00	0.47	0.63	1.00	0.50		
	CO3	1.00	0.87	0.89	1.00	0.47	0.63	1.00	0.50		
	CO4	1.00	0.87	0.89	1.00	0.47	0.63	1.00	0.50		

		Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
6CE4-21	CO1	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	
	CO2	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	
	CO3	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	
6CE4-22	CO1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
6CE4-23	CO1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
6CE4-24	CO1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
6CE4-25	CO1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	CO3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Course Code	COs	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.2*X+0.8*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.2*X+0.8*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
7CE4-01	CO1	1.00	0.68	0.75	1.00	0.10	0.28	1.00	0.61	
	CO2	1.00	0.68	0.75	1.00	0.10	0.28	1.00	0.61	
	CO3	1.00	0.68	0.75	1.00	0.10	0.28	1.00	0.61	
	CO4	1.00	0.68	0.75	1.00	0.10	0.28	1.00	0.61	
7AG6-60.2	CO1	1.00	0.80	0.84	1.00	0.18	0.35	1.00	0.68	
	CO2	1.00	0.80	0.84	1.00	0.18	0.35	1.00	0.68	
	CO3	1.00	0.80	0.84	1.00	0.18	0.35	1.00	0.68	
	CO4	1.00	0.80	0.84	1.00	0.18	0.35	1.00	0.68	

		Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
7CE4-21	CO1	1.00	1.00	1.00	0.95	0.92	0.94	1.00	0.99	
	CO2	1.00	1.00	1.00	0.95	0.92	0.94	1.00	0.99	
	CO3	1.00	1.00	1.00	0.95	0.92	0.94	1.00	0.99	
7CE4-22	CO1	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.99	
	CO2	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.99	
	CO3	1.00	1.00	1.00	0.95	0.95	0.95	1.00	0.99	
7CE4-23	CO1	1.00	1.00	1.00	0.95	0.95	0.95	0.99	1.00	
	CO2	1.00	1.00	1.00	0.95	0.95	0.95	0.99	1.00	
	CO3	1.00	1.00	1.00	0.95	0.95	0.95	0.99	1.00	
7CE4-24	CO1	1.00	1.00	1.00	0.94	0.94	0.94	1.00	0.99	
	CO2	1.00	1.00	1.00	0.94	0.94	0.94	1.00	0.99	
	CO3	1.00	1.00	1.00	0.94	0.94	0.94	1.00	0.99	
7CE7-30	CO1	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	
	CO2	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	
	CO3	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	
7CE7-40	CO1	0.99	1.00	1.00	0.94	0.94	0.94	1.00	1.00	
	CO2	0.99	1.00	1.00	0.94	0.94	0.94	1.00	1.00	
	CO3	0.99	1.00	1.00	0.94	0.94	0.94	1.00	1.00	

Course Code	COs	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.2*X+0.8*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.2*X+0.8*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
8CE4-01	CO1	1.00	0.70	0.76	0.97	0.44	0.54	1.00	0.78	
	CO2	1.00	0.70	0.76	0.97	0.44	0.54	1.00	0.78	
	CO3	1.00	0.70	0.76	0.97	0.44	0.54	1.00	0.78	
	CO4	1.00	0.70	0.76	0.97	0.44	0.54	1.00	0.78	

8TT6-60.2	CO1	1.00	0.68	0.74	0.97	0.16	0.32	1.00	0.88
	CO2	1.00	0.68	0.74	0.97	0.16	0.32	1.00	0.88
	CO3	1.00	0.68	0.74	0.97	0.16	0.32	1.00	0.88
	CO4	1.00	0.68	0.74	0.97	0.16	0.32	1.00	0.88

		Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Final Attainment (0.6*X+0.4*Y)	Internal Attainment (X)	External Attainment (Y)	Fi (
8CE4-21	CO1	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.94	
	CO2	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.94	
	CO3	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.94	
8CE4-22	CO1	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.99	
	CO2	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.99	
	CO3	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.99	
8CE7-50	CO1	1.00	1.00	1.00	0.97	0.97	0.97	1.00	1.00	
	CO2	1.00	1.00	1.00	0.97	0.97	0.97	1.00	1.00	
	CO3	1.00	1.00	1.00	0.97	0.97	0.97	1.00	1.00	

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50) Total Marks 50.00

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

Institute Marks : 10.00

In Outcome-Based Education (OBE), assessment is conducted through multiple processes designed to identify, collect, and analyze data to evaluate the achievement of Program Educational Objectives (PEOs), Program Outcomes (POs), and Course Outcomes (COs).

- Continuous internal assessment is required to fulfill COs, POs, and PSOs. The institution adheres to OBE principles, which evaluate student performance, knowledge, and skills through defined Course Outcomes, Program Outcomes, and Program Specific Outcomes. COs are designed for each course, with each CO mapped to relevant POs/PSOs.
- The Internal Quality Assurance Cell (IQAC) oversees the effective implementation of evaluation reforms for the attainment of COs, POs, and PSOs. The IQAC has developed tools to assess these attainments and sets a target attainment level of 60% for COs across all courses.

PO and PSO Attainment
Attainment levels of each PO and PSO are assessed through both direct and indirect measurement methods:

Direct Attainment
Direct attainment of POs or PSOs is calculated by mapping each CO to the corresponding PO or PSO, multiplying by the CO attainment, and dividing the total by 100. Assessment tools used include:

- Internal Exams
- University Exams
- Assignments
- Seminars
- Project Evaluation
- Training/Internships

Direct POs/PSOs Attainment = [CO-PO/CO-PSO Mapping * CO attainment]/100

Indirect Attainment
Indirect attainment is measured using various tools categorized under academic achievements, placements, extracurricular activities, and feedback:

- **Placement Assessment**: Evaluates student placements, higher studies, PSU placements, and GATE qualifications.
- **Co-Curricular Assessment**: Assesses participation in technical and social activities, conferences, and workshops.
- **Feedback Assessment**: Gathers insights from alumni and students at program exit and at the end of each semester.

v. IQAC assigns weightage to each tool in relation to each PO. An Excel sheet is then used to calculate PO attainment levels. Each tool is evaluated according to defined rubrics, with the attained values recorded based on rubric criteria.

Indirect Attainment

	PO1			
	Parameters	Target	Attainment	Rubrics
INDIRECT	Placement	3	3	≥70% students placed then Target achieved Else = Pro rata
	Co-curricular Activities	2	2	≥80% students attended then Target achieved Else = Pro rata
	Course Exit Survey	3	2.5	Pro rata
	Student Exit Survey	3	2.22	Pro rata
	Alumni Survey	3	2.6	Pro rata
		2.8	2.46	

	PSO1			
INDIRECT	Placement	3	3	≥70% students placed then Target achieved Else = Pro rata
	Co-curricular Activities	1	1	≥80% students attended then Target achieved Else = Pro rata
	Course Exit Survey	2	1.8	Pro rata
	Student Exit Survey	2	1.52	Pro rata
	Alumni Survey	2	1.7	Pro rata
		2	1.80	

Note: All other POs calculation is same with different weightages

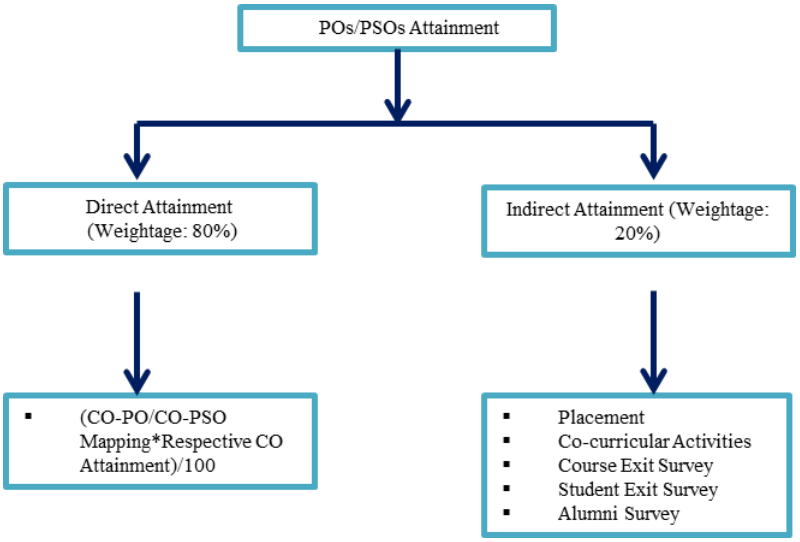


Figure 3.3.1 (B): PO Assessment Tool

3.3.2 Provide results of evaluation of PO&PSO (40) Institute Marks : 40.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3CE2-01: ADVANCE ENGINEERING MATHEMATICS-I	0.80	1.07	0.80	0.71	0.71	1.07	0.36	0.36	0.36	0.71	0.36	0.36
3CE1-02: TECHNICAL COMMUNICATION	1.35	1.08	1.08	0.94	0.94	1.35	1.21	1.22	0.94	1.08	0.95	0.94
3CE3-04: ENGINEERING MECHANICS	0.77	0.60	0.60	0.85	0.77	0.77	0.60	0.68	0.60	0.60	0.85	0.60
3CE4-05: SURVEYING	1.53	0.89	1.02	0.51	0.64	0.51	0.51	0.51	0.51	0.51	0.51	1.53
3CE4-06: FLUID MECHANICS	0.83	0.74	0.58	0.58	0.83	0.74	0.74	0.58	0.66	0.58	0.58	0.83
3CE4-07: BUILDING MATERIALS AND CONSTRUCTION	1.65	1.98	0.66	0.66	0.99	1.98	1.98	0.66	0.66	0.66	0.66	1.82
3CE4-08: ENGINEERING GEOLOGY	1.26	1.12	1.12	1.26	1.26	1.26	0.98	1.12	0.98	0.98	1.40	0.98
3CE4-21: SURVEYING LAB	2.97	2.97	0.99	1.32	2.64	0.99	1.32	0.99	0.99	0.99	1.32	2.97
3CE4-22: FLUID MECHANICS LAB	2.31	1.98	1.98	1.32	1.32	2.31	1.98	2.31	1.32	1.98	1.65	1.65
3CE4-23: COMPUTER AIDED CIVIL ENGINEERING DRAWING	2.56	2.88	2.88	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	2.88
3CE4-24: CIVIL ENGINEERING MATERIALS LAB	2.82	2.19	1.57	0.94	1.25	1.88	2.19	0.94	0.94	0.94	0.94	2.82
3CE4-25: GEOLOGY LAB	2.31	2.31	1.65	1.65	1.32	2.31	1.98	2.31	0.99	2.31	1.32	1.65
3CE7-30: INDUSTRIAL TRAINING	2.26	2.26	1.29	1.62	1.62	1.94	1.94	2.59	1.29	2.26	1.62	1.62
4CE2-01: ADVANCE ENGINEERING MATHEMATICS-II	1.42	1.89	1.42	1.26	1.26	1.89	0.63	0.63	0.63	1.26	0.63	0.63
4CE1-03: MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING	1.45	1.31	1.02	1.02	1.45	1.16	1.31	0.87	1.16	0.87	0.87	1.31
4CE3-04: BASIC ELECTRONICS FOR CIVIL ENGINEERING APPLICATIONS	1.62	1.08	1.62	1.62	1.08	1.08	0.54	0.54	0.54	1.08	0.54	0.54
4CE4-05: STRENGTH OF MATERIALS	1.25	0.88	0.88	1.25	1.00	1.13	0.75	1.00	0.88	0.75	1.13	0.88
4CE4-06: HYDRAULICS ENGINEERING	1.21	0.99	0.88	0.77	0.66	0.99	1.10	0.66	0.55	0.55	0.66	1.21
4CE4-07: BUILDING PLANNING	2.82	0.94	0.94	0.94	2.35	2.82	1.65	0.94	0.94	0.94	0.94	1.88
4CE4-08: CONCRETE TECHNOLOGY	2.22	2.22	2.22	2.22	2.22	1.48	1.48	0.74	1.48	0.74	1.48	0.74
4CE4-21: MATERIAL TESTING LAB	2.97	2.64	1.98	1.32	1.32	1.65	1.98	1.98	2.31	2.97	1.32	2.31
4CE4-22: HYDRAULICS ENGINEERING LAB	2.97	2.97	2.97	2.97	2.97	1.98	1.98	0.99	1.98	0.99	1.98	0.99
4CE4-23: BUILDING DRAWING	1.98	2.97	1.98	1.98	2.97	1.98	1.32	0.99	1.98	0.99	1.65	1.98
4CE4-24: ADVANCED SURVEYING LAB	2.97	2.97	1.98	2.97	0.99	2.97	0.99	0.99	2.97	1.98	1.98	0.99
4CE4-25: CONCRETE LAB	2.97	2.97	2.97	2.97	2.97	1.98	2.97	0.99	2.97	0.99	1.98	0.99
5CE3-01: CONSTRUCTION TECHNOLOGY AND EQUIPMENT	2.05	1.85	1.85	1.44	1.64	1.85	1.03	1.44	1.03	1.64	1.23	2.26
5CE4-02: STRUCTURE ANALYSIS-I	1.35	1.10	1.35	1.23	0.61	1.10	1.47	0.74	0.86	0.74	0.74	0.61
5CE4-03: DESIGN OF CONCRETE STRUCTURES	1.13	1.13	1.13	1.03	0.41	0.82	1.23	0.51	0.51	0.41	0.51	0.51
5CE4-04: GEOTECHNICAL ENGINEERING	1.23	1.23	1.23	1.23	1.23	0.82	0.82	0.41	0.82	0.41	0.82	0.41

5CE4-05: WATER RESOURCE ENGINEERING	1.95	1.79	1.63	1.46	1.14	1.46	1.46	0.98	1.14	0.81	0.98	1.63
5CE5-11: AIR & NOISE POLLUTION AND CONTROL	1.16	1.31	1.02	1.16	1.16	1.31	1.16	1.16	1.16	1.02	1.45	1.16
5CE5-14: REPAIR AND REHABILITATION OF STRUCTURES	1.88	1.69	2.25	0.75	0.94	1.31	0.94	0.75	0.75	0.75	0.75	2.06
5CE4-21 : CONCRETE STRUCTURES DESIGN	2.67	1.67	1.67	2.67	1.00	2.00	3.00	1.00	1.00	1.00	1.00	1.00
5CE4-22 : GEOTECHNICAL ENGINEERDING LAB	3.00	3.00	3.00	3.00	3.00	2.00	3.00	1.00	3.00	1.00	2.00	1.00
5CE4-23: WATER RESOURCES ENGINEERING DESIGN LAB	1.67	1.67	2.33	2.33	2.00	1.33	2.33	1.67	2.00	1.33	2.00	2.33
5CE7-30: INDUSTRIAL TRAINING	3.00	2.67	2.33	2.00	2.33	2.33	2.00	2.00	2.33	2.33	2.67	3.00
6CE3-01: WIND AND SEISMIC ANALYSIS	2.07	1.90	1.38	1.21	1.55	1.38	1.04	1.38	1.04	1.38	1.38	2.07
6CE4-02: STRUCTURAL ANALYSIS-II	1.71	1.55	1.71	1.55	0.78	1.24	1.86	1.40	1.09	0.93	1.24	0.78
6CE4-03: ENVIRONMENTAL ENGINEERING	1.70	1.70	1.19	0.68	0.68	1.36	1.36	1.36	0.68	0.68	0.68	1.53
6CE4-04: DESIGN OF STEEL STRUCTURES	1.59	1.33	1.46	1.33	0.66	1.06	0.66	0.53	0.53	0.53	0.53	0.66
6CE4-05: ESTIMATING & COSTING	2.12	2.12	1.73	1.54	1.16	1.73	0.77	0.77	0.77	0.77	0.77	1.54
6CE5-12: SOLID AND HAZARDOUS WASTE MANAGEMENT	2.40	1.60	1.40	1.20	2.20	1.80	1.80	1.60	1.40	1.80	1.20	2.40
6CE5-16: GEOGRAPHIC INFORMATION SYSTEM & REMOTE SENSING	1.73	1.58	1.42	0.95	1.58	0.79	0.79	1.10	1.73	1.42	0.95	1.26
6CE4-21: ENVIRONMENTAL ENGINEERING DESIGN AND LAB	3.00	3.00	1.67	1.33	1.00	3.00	3.00	1.00	1.00	1.00	1.00	2.33
6CE4-22: STEEL STRUCTURES DESIGN	3.00	2.00	1.33	1.00	1.00	2.00	1.67	1.00	1.00	1.00	1.33	1.00
6CE4-23: QUANTITY SURVEYING AND VALUATION	3.00	2.67	1.33	1.00	1.00	3.00	1.00	1.00	1.33	1.33	1.67	2.00
6CE4-24: WATER AND EARTH RETAINING STRUCTURES DESIGN	2.67	2.67	2.00	1.67	1.33	2.67	2.67	1.33	1.33	1.00	1.33	2.00
6CE4-25: FOUNDATION ENGINEERING	2.67	2.67	2.00	1.67	1.33	2.67	2.67	1.33	1.33	1.33	1.00	2.33
7CE4-01: TRANSPORTATION ENGINEERING	0.84	0.63	0.56	0.56	0.63	0.63	0.70	0.56	0.56	0.49	0.49	0.42
7AG6-60.2 ENVIRONMENTAL ENGINEERING AND DISASTER MANAGEMENT	1.05	0.88	0.79	0.79	0.79	0.96	1.05	0.61	0.53	0.44	0.44	0.96
7CE4-21: ROAD MATERIAL TESTING LAB	2.82	2.82	1.88	2.19	1.88	1.57	0.94	1.25	2.19	1.88	0.94	1.88
7CE4-22: PROFESSIONAL PRACTICES AND FIELD ENGINEERING LAB	2.85	2.85	0.95	0.95	0.95	1.90	0.95	1.27	1.90	1.27	1.58	1.27
7CE4-23: SOFT SKILLS LAB	1.90	1.90	1.90	2.53	2.22	2.53	2.85	2.53	2.22	2.22	2.22	2.53
7CE4-24: ENVIRONMENTAL MONITORING AND DESIGN LAB	2.51	2.82	2.51	1.88	1.57	2.19	2.82	1.57	2.19	1.57	1.25	2.19
7CE7-30: PRACTICAL TRAINNIG	1.90	2.22	2.22	2.22	1.90	2.22	2.85	2.22	2.22	1.90	2.22	2.85
7CE7-40: SEMINAR	2.82	2.82	1.88	2.82	0.94	2.82	0.94	0.94	2.82	1.88	1.88	0.94
8CE4-01 PROJECT PLANNING AND CONSTRUCTION MANAGEMENT	1.62	1.35	0.81	0.81	0.68	0.81	0.81	1.08	1.08	1.08	1.49	1.08
8TT6-60.2: DISASTER MANAGEMENT	0.88	0.88	0.96	0.88	0.96	0.80	0.80	0.64	0.64	0.32	0.64	0.64
8CE4-21: PROJECT PLANNING AND CONSTRUCTION MANAGEMENT LAB	2.91	2.59	1.29	0.97	1.62	1.29	1.62	1.62	1.94	1.62	1.94	1.62
8CE4-22: PAVEMENT DESIGN	2.26	1.94	1.94	1.62	1.29	1.29	1.29	1.62	1.62	1.62	1.29	1.62
8CE7-50: PROJECT	2.91	2.91	1.94	2.91	2.91	2.91	1.94	0.97	1.62	1.94	1.62	2.91
PO Attainment	2.13	2.03	1.61	1.53	1.47	1.57	1.40	1.20	1.50	1.43	1.25	1.61

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.05	1.91	1.56	1.46	1.39	1.64	1.49	1.13	1.29	1.17	1.21	1.51
InDirect Attainment	2.47	2.49	1.81	1.82	1.80	1.31	1.06	1.47	2.36	2.49	1.39	2.00

PSO Attainment

Course	PSO1	PSO2
3CE1-02: TECHNICAL COMMUNICATION	1.22	1.35
3CE2-01: ADVANCE ENGINEERING MATHEMATICS-I	0.36	0.36
3CE3-04: ENGINEERING MECHANICS	0.77	0.77
3CE4-05: SURVEYING	1.15	1.40
3CE4-06: FLUID MECHANICS	0.58	0.74
3CE4-07: BUILDING MATERIALS AND CONSTRUCTION	0.83	1.82
3CE4-08: ENGINEERING GEOLOGY	1.54	1.40
3CE4-21: SURVEYING LAB	1.98	2.64
3CE4-22: FLUID MECHANICS LAB	2.64	2.31
3CE4-23: COMPUTER AIDED CIVIL ENGINEERING DRAWING	2.88	2.24

3CE4-24: CIVIL ENGINEERING MATERIALS LAB	2.82	2.82
3CE4-25: GEOLOGY LAB	2.64	1.98
3CE7-30: INDUSTRIAL TRAINING	2.26	1.62
4CE1-03: MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING	0.87	1.45
4CE2-01: ADVANCE ENGINEERING MATHEMATICS-II	0.63	0.63
4CE3-04: BASIC ELECTRONICS FOR CIVIL ENGINEERING APPLICATIONS	0.54	0.54
4CE4-05: STRENGTH OF MATERIALS	1.25	1.25
4CE4-06: HYDRAULICS ENGINEERING	1.21	1.21
4CE4-07: BUILDING PLANNING	2.35	2.82
4CE4-08: CONCRETE TECHNOLOGY	1.67	0.93
4CE4-21: MATERIAL TESTING LAB	2.31	2.64
4CE4-22: HYDRAULICS ENGINEERING LAB	1.98	1.32
4CE4-23: BUILDING DRAWING	2.64	2.31
4CE4-24: ADVANCED SURVEYING LAB	1.98	0.99
4CE4-25: CONCRETE LAB	1.98	1.32
5CE3-01: CONSTRUCTION TECHNOLOGY AND EQUIPMENT	1.44	0.82
5CE4-02: STRUCTURE ANALYSIS-I	0.74	0.98
5CE4-03: DESIGN OF CONCRETE STRUCTURES	0.41	0.92
5CE4-04: GEOTECHNICAL ENGINEERING	0.82	0.41
5CE4-05: WATER RESOURCE ENGINEERING	0.98	0.98
5CE4-21: CONCRETE STRUCTURES DESIGN	2.00	3.00
5CE4-22: GEOTECHNICAL ENGINEERDING LAB	2.00	1.00
5CE4-23: WATER RESOURCES ENGINEERING DESIGN LAB	1.00	1.00
5CE5-11: AIR & NOISE POLLUTION AND CONTROL	1.60	1.45
5CE5-14: REPAIR AND REHABILITATION OF STRUCTURES	1.31	1.88
5CE7-30: INDUSTRIAL TRAINING	2.33	1.67
6CE3-01: WIND AND SEISMIC ANALYSIS	1.90	0.69
6CE4-02: STRUCTURAL ANALYSIS-II	0.93	1.24
6CE4-03: ENVIRONMENTAL ENGINEERING	0.68	1.19
6CE4-04: DESIGN OF STEEL STRUCTURES	1.59	1.06
6CE4-05: ESTIMATING & COSTING	2.31	1.54
6CE4-21: ENVIRONMENTAL ENGINEERING DESIGN AND LAB	1.00	1.67
6CE4-22: STEEL STRUCTURES DESIGN	3.00	2.00
6CE4-23: QUANTITY SURVEYING AND VALUATION	3.00	2.00
6CE4-24: WATER AND EARTH RETAINING STRUCTURES DESIGN	1.00	1.67
6CE4-25: FOUNDATION ENGINEERING	1.00	1.67
6CE5-12: SOLID AND HAZARDOUS WASTE MANAGEMENT	1.00	1.80
6CE5-16: GEOGRAPHIC INFORMATION SYSTEM & REMOTE SENSING	0.63	0.79
7AG6-60.2 ENVIRONMENTAL ENGINEERING AND DISASTER MANAGEMENT	0.35	0.35
7CE4-01: TRANSPORTATION ENGINEERING	0.35	0.35
7CE4-21: ROAD MATERIAL TESTING LAB	1.88	2.19
7CE4-22: PROFESSIONAL PRACTICES AND FIELD ENGINEERING LAB	1.27	1.58
7CE4-23: SOFT SKILLS LAB	2.22	2.22
7CE4-24: ENVIRONMENTAL MONITORING AND DESIGN LAB	0.94	0.94
7CE7-30: PRACTICAL TRAINNIG	2.22	2.22
7CE7-40: SEMINAR	1.88	0.94
8CE4-01 PROJECT PLANNING AND CONSTRUCTION MANAGEMENT	0.68	0.81
8CE4-21: PROJECT PLANNING AND CONSTRUCTION MANAGEMENT LAB	0.97	0.97
8CE4-22: PAVEMENT DESIGN	0.97	0.97
8CE7-50: PROJECT	2.91	2.26
8TT6-60.2: DISASTER MANAGEMENT	0.32	0.32
PSO Attainment	1.55	1.51

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.49	1.42
InDirect Attainment	1.81	1.85

4 STUDENTS' PERFORMANCE (150) Total Marks 122.94

:

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2023-24 (CAY)	2022-23 (CAYm1)	2021-22(CAYm2)	2020-21(CAYm3)	2019-20(CAYm4)	2018-19 (CAYm5)	2017-18 (CAYm6)
Sanctioned intake of the program(N)	60	90	120	120	120	120	120
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	55	67	115	115	117	120
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	6	5	9	3	15	3	11
Separate division students, If applicable (N3)	0	0	1	1	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	66	60	77	119	130	120	131

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2023-24 (CAY)	66	0	0	0	0
2022-23 (CAYm1)	60	35	0	0	0
2021-22 (CAYm2)	77	36	40	0	0
2020-21 (CAYm3)	119	115	76	71	0
2019-20 (LYG)	130	63	78	73	73
2018-19 (LYGm1)	120	58	53	53	51
2017-18 (LYGm2)	131	62	69	66	65

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2023-24 (CAY)	66	0	0	0	0
2022-23 (CAYm1)	60	37	0	0	0
2021-22 (CAYm2)	77	55	48	0	0
2020-21 (CAYm3)	119	115	113	110	0
2019-20 (LYG)	130	114	129	125	122
2018-19 (LYGm1)	120	117	119	119	115
2017-18 (LYGm2)	131	120	131	129	127

4.1 Enrolment Ratio (20) Total Marks 16.00

Institute Marks : 16.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2023-24 (CAY)	60	60	100.00
2022-23 (CAYm1)	90	55	61.11
2021-22 (CAYm2)	120	67	55.83

Average [(ER1 + ER2 + ER3) / 3] : 72.31

Assessment : 16.00

4.2 Success Rate in the stipulated period of the program (40) Total Marks 31.35

4.2.1 Success rate without backlogs in any semester / year of study (25) Institute Marks : 17.00

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	130.00	120.00	131.00
Y Number of students who have graduated without backlogs in the stipulated period	93.00	83.00	82.00
Success Index [SI = Y / X]	0.72	0.69	0.63

Average SI [(SI1 + SI2 + SI3) / 3] : 0.68

Assessment [25 * Average SI] : 17.00

4.2.2 Sucess rate in stipulated period (15) Institute Marks : 14.35

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	130.00	120.00	131.00
Y Number of students who have graduated in the stipulated period	122.00	115.00	127.00
Success Index [SI = Y / X]	0.94	0.96	0.97

Average SI[(SI1 + SI2 + SI3) / 3]: 0.96

Assessment [15 * Average SI] : 14.35

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

4.3 Academic Performance in Third Year (15) Total Marks 12.08

Institute Marks : 12.08

Academic Performance	CAYm3 (2020-21)	LYG (2019-20)	LYGm1 (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	8.06	7.96	8.60
Total number of successful students(Y)	110.00	125.00	119.00
Totalnumber of students appeared in the examination(Z)	113.00	129.00	119.00
API [X*(Y/Z)]:	7.85	7.71	8.60

Average API [(AP1 + AP2 + AP3)/3] : 8.05

Assessment [1.5 * AverageAPI] : 12.08

4.4 Academic Performance in Second Year (15) Total Marks 11.38

Institute Marks : 11.38

Academic Performance	CAYm2 (2021-22)	CAYm3 (2020-21)	LYG (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	8.27	9.19	7.93
Total number of successful students (Y)	48.00	113.00	129.00
Total number of students appeared in the examination (Z)	65.00	119.00	129.00
API [X * (Y/Z)]	6.11	8.73	7.93

Average API [(AP1 + AP2 + AP3)/3] : 7.59

Assessment [1.5 * AverageAPI] : 11.38

4.5 Placement, Higher Studies and Entrepreneurship (40) Total Marks 32.13

Institute Marks : 32.13

Item	LYG (2019-20)	LYGm1 (2018-19)	LYGm2 (2017-18)
Total No of Final Year Students(N)	125.00	119.00	129.00
No of students placed in the companies or government sector(X)	75.00	85.00	89.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	12.00	12.00	8.00
No of students turned entrepreneur in engineering/technology (Z)	6.00	4.00	9.00
x + y + z =	93.00	101.00	106.00
Placement Index [(X+Y+Z)/N] :	0.74	0.85	0.82

Average Placement [(P1 + P2 + P3)/3] : 0.80

Assessment [40 * Average Placement] : 32.13

Program Name :
Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AARIF MOHAMMAD	19E1JCCEM30P001	Best Indian Water Proofing Company, Jaipur	Best Indian Water Proofing Company, Jaipur
2	AARYAN KHANDELWAL	19E1JCCEM40P003	Pinnacle Infotech, Jaipur	Offer Letter 26 June 2023
3	ABHIMANYU SINGH SHEKHAWAT	19E1JCCEM40P005	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022
4	ABHISHEK	19E1JCCEM40P006	Entrepreneur - Krishna Infrastructre, Jhunjhunu	08AOLPS3687Q1ZP
5	ADITYA PAREEK	19E1JCCEM40P009	Pinnacle Infotech, Jaipur	PIS05200
6	AKSHAT PURI	19E1JCCEM40P012	Entrepreneur - GRS Builders Planners & Engineers, Jaipur	Visiting Card
7	ANIKET SHARMA	19E1JCCEM40P013	Master of Business Administration	Master of Business Administration
8	ANKIT	19E1JCCEM40P015	Inspirit Institute of Communication Skills, Jodhpur	Offer Letter 20 May 2023
9	ANKIT KUMAR CHAUBEY	19E1JCCEM40P016	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022
10	ANKIT VIJAY	19E1JCCEM40P017	ADP Private Limited, Pune	Offer Letter 06 Jan 2023
11	ARVIND NAGAR	19E1JCCEM30P018	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022
12	AYUSHI SINGH	19E1JCCEF40P023	Learning Routes, Gurugram	Offer Letter 19 Oct 2022
13	DEEPANSHU	19E1JCCEM10P031	TATA Consultancy Services Limited, Mumbai	Email 30 Sept 2022
14	DEEPENDRA KALWAR	19E1JCCEM30P032	ConsultAdd Services Private Limited, Pune	Offer Letter 22 Sept 2022
15	GEETANSH CHHABRA	19E1JCCEM40P039	Pinnacle Infotech, Jaipur	Offer Letter 26 June 2023
16	HARDIK MALHOTRA	19E1JCCEM10P041	ADP Private Limited, Pune	Offer Letter 06 Jan 2023
17	HARSH MITTAL	19E1JCCEM40P042	Adani Estate Management Private Limited, Ahmedabad	30139839
18	HRISHABH MISHRA	19E1JCCEM45P045	Indian Army	Indian Army
19	JAIPAL PRAJAPAT	19E1JCCEM30P046	LTI Mindtree, Mumbai	Email 14 Oct 2022
20	KARAN KUMAR	19E1JCCEM30P049	Pinnacle Infotech, Jaipur	Offer Letter 26 June 2023
21	KAUSHAL BANSAL	19E1JCCEM40P050	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022
22	LAGNESH KANWAT	19E1JCCEM20P054	Master of Business Administration, JECRC University Jaipur	24MBAN0407
23	MAHESH PRAJAPATI	19E1JCCEM30P059	Girnarsoft Automobile Private Limited, Jaipur	Offer Letter 27 Feb 2023
24	MANAN BIWAL	19E1JCCEM10P061	Master of Technology, MNIT Jaipur	2024PCV5183
25	MOHD ANISH MIRZA	19E1JCCEM30P064	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022
26	MOHIT SHARMA	19E1JCCEM40P066	Master of Technology, TIET Patiala	8024250004
27	MORMUKUT CHAUHAN	19E1JCCEM40P067	Master of Technology, NIT Suratkal	232TS020
28	NAV SHARMA	19E1JCCEM40P069	Master of Business Administration, NMIMS Mumbai	80512400012
29	NEEL KUMAR BAIRWA	19E1JCCEM10P070	Jaro Education, Gurugram	Email 18 Nov 2022
30	NISHANT MALI	19E1JCCEM35P072	Pinnacle Infotech, Jaipur	PIS05496
31	PAWAN	19E1JCCEM35P075	TATA Consultancy Services Limited, Mumbai	2565296
32	PRIYANSH SAINI	19E1JCCEM30P079	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022
33	RAHUL KUMAWAT	19E1JCCEM30P082	Entrepreneur - Ramdev Creations, Jaipur	Entrepreneur - Ramdev Creations, Jaipur
34	RAHUL SHARMA	19E1JCCEM40P086	Swem Water Tech India Private Limited, Jaipur	Swem Water Tech India Private Limited, Jaipur
35	RAHUL SHARMA	19E1JCCEM40P087	Entrepreneur - Mohan Lal Construction, Jaipur	08AOFPS4196C1ZQ
36	RAKESH SUTHAR	19E1JCCEM30P088	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022
37	SACHIN CHAUHAN	19E1JCCEM40P090	Entrepreneur - Shiv Construction, Jaipur	Visiting Card
38	SATYAM KUMAR JHA	19E1JCCEM45P096	Master of Business Administration, NICMAR Pune	P2371029
39	SHIVRAJ SINGH	19E1JCCEM30P102	Entrepreneur - Maa Kesar Rajputi Poshak, Jhalawar	Entrepreneur
40	SNEHA SANWAL	19E1JCCEF30P106	Narayan Value Tech Advisors, Jaipur	Offer Letter 01 Feb 2024
41	SOMESHWAR SINGH	19E1JCCEM40P108	Sobha Developers Limited, Jaipur	SDL/HR/AS/220
42	SUMIT SALOTRI	19E1JCCEM40P110	Bergenia Consultant Services Private Limited, Mumbai	Bergenia Consultant Services Private Limited, Mumbai
43	TARUN YADAV	19E1JCCEM30P113	Master of Technology, JECRC University, Jaipur	24MCIN0004
44	TUSHAR SHARMA	19E1JCCEM40P116	Friscon Solutions, Jaipur	Email 04 Oct 2022
45	VISHAL RAJPUROHIT	19E1JCCEM40P123	Usha Electronics, Khavda	64659
46	YASH TANK	19E1JCCEM30P124	ADP Private Limited, Pune	Offer Letter 04 Jan 2023
47	ADITYA DADHICH	20E1JCCEM40P200	Master of Technology, IIT Hyderabad	CE24MTECH14008
48	AYUSH SONI	20E1JCCEM30P201	Master of Technology, MBM University Jodhpur	M24P819612
49	HON VIKRANT APPASAHEB	20E1JCCEM30P203	IRB Infrastructure Developers Limited (IRB), Mumbai	403894
50	KISHAN BHAWAT	20E1JCCEM40P205	Denave India Private Limited, Noida	Offer Letter 10 Sept 2024
51	KRISHNA SHARMA VAIRAGI	20E1JCCEM35P206	H.G. Infra Engineering Limited, Jaipur	Email 20 Dec 2022

52	SACHIN KUMAR	20E1JCCEM35P213	Master of Technology, SGT University Gurugram	231316010
53	TANU DESHWAR	20E1JCCEF45P214	Master of Technology, MBM University Jodhpur	J23P456803
54	YUVRAJ SINGH	20E1JCCEM40P215	Verzeo Edutech Private Limited, Bengaluru	VZ22C2105
55	AARTI CHANDRAWAT	19E1JCCEF20P002	Raj Infotech, Jaipur	RIPL/HR/2023/18
56	ABDUL RAUF	19E1JCCEM30P004	Upflairs Private Limited, Jaipur	UPL/JPR/2023/123
57	ABHISHEK GUPTA	19E1JCCEM40P007	Oxymora Technology Private Limited, Jaipur	HR/JPR/2023/110
58	ADARSH KUMAR	19E1JCCEM10P008	Multi CAD Solution, Jaipur	2023/55
59	AGAM	19E1JCCEM30P010	Delvex Innovations Private Limited, Jaipur	Delv/2023/50
60	ANJNA KUMARI	19E1JCCEF10P014	Raj Infotech, Jaipur	RIPL/HR/2023/22
61	AVINASH MEENA	19E1JCCEM20P022	Academy of CAD and Robotics, Jaipur	HR/2023/OL/30
62	CHANDRAVEER SINGH SHEKHAWAT	19E1JCCEM40P026	Oxymora Technology Private Limited, Jaipur	HR/JPR/2023/111
63	CHIRAG PARASHAR	19E1JCCEM40P027	Multi CAD Solution, Jaipur	2023/70
64	DEEPAK JAKHAR	19E1JCCEM30P028	Delvex Innovations Private Limited, Jaipur	Delv/2023/57
65	DEVANSHU	19E1JCCEM30P033	Delvex Innovations Private Limited, Jaipur	Delv/2023/60
66	DIVYA PATIDAR	19E1JCCEF35P035	Raj Infotech, Jaipur	RIPL/HR/2023/19
67	DUSHYANT KAMAL	19E1JCCEM10P036	Academy of CAD and Robotics, Jaipur	HR/2023/OL/29
68	GARIMA MAMORIA	19E1JCCEF40P037	Multi CAD Solution, Jaipur	2023/58
69	GUNJAN GUPTA	19E1JCCEF40P040	Academy of CAD and Robotics, Jaipur	HR/2023/OL/28
70	HARSH OMPRAKASH MEENA	19E1JCCEM20P043	Upflairs Private Limited, Jaipur	UPL/JPR/2023/130
71	JYOTI PANCHAL	19E1JCCEF30P047	Upflairs Private Limited, Jaipur	UPL/JPR/2023/131
72	KAPIL	19E1JCCEM10P048	Multi CAD Solution, Jaipur	2023/59
73	KRISHAN KANT MITTAL	19E1JCCEM40P051	RNS Infotech, Jaipur	RNS/HR/2023/8
74	KULDEEP SAHANI	19E1JCCEM30P053	Cmos Computers, Jaipur	258
75	LOKESH KUMAR GURJAR	19E1JCCEM30P056	Bhargava Associates, Jaipur	BA/2023/88
76	MAMTA	19E1JCCEF30P060	Academy of CAD and Robotics, Jaipur	HR/2023/OL/26
77	MAYANK TAMBOLI	19E1JCCEM30P063	Multi CAD Solution, Jaipur	2023/62
78	NITESH KUMAR SAINI	19E1JCCEM30P073	Kaushalya Enterprises, Jaipur	Rect./2022-23/42
79	PRAVEEN KUMAR YADAV	19E1JCCEM30P078	Academy of CAD and Robotics, Jaipur	HR/2023/OL/25
80	PRIYANSHU SHARMA	19E1JCCEM45P080	Bhargava Associates, Jaipur	BA/2023/89
81	RAHUL CHOUDHARY	19E1JCCEM30P081	Cmos Computers, Jaipur	259
82	RAHUL SAIN	19E1JCCEM30P085	RNS Infotech, Jaipur	RNS/HR/2023/11
83	SAJAD HUSSAIN	19E1JCCEM25P092	Multi CAD Solution, Jaipur	2023/63
84	SARANSH SHARMA	19E1JCCEM40P095	Kaushalya Enterprises, Jaipur	Rect./2022-23/37
85	SHUBHAM SHARMA	19E1JCCEM40P105	Delvex Innovations Private Limited, Jaipur	Delv/2023/66
86	SONU KULDEEP	19E1JCCEF10P109	Bhargava Associates, Jaipur	BA/2023/92
87	UJJWAL SHARMA	19E1JCCEM40P118	Kaushalya Enterprises, Jaipur	Rect./2022-23/39
88	VEDIKA SAINI	19E1JCCEF30P120	Bhargava Associates, Jaipur	BA/2023/93
89	VIDHAN SHARMA	19E1JCCEM40P121	RNS Infotech, Jaipur	RNS/HR/2023/13
90	YASHI BISHNOI	19E1JCCEF30P125	Academy of CAD and Robotics, Jaipur	HR/2023/OL/23
91	HIMANSHU JONWAL	20E1JCCEM10P202	Bhargava Associates, Jaipur	BA/2023/95
92	MICHAEL JATAV	20E1JCCEM10P209	Cmos Computers, Jaipur	254
93	RAHUL CHOUDHARY	20E1JCCEM30P212	Bhargava Associates, Jaipur	BA/2023/98

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	MOHAMMED NOFIL	18E1JCCEM30P058	MSc FT Management, Queen Mary University of London	240106098
2	NARENDRA KUMAWAT	18E1JCCEM30P062	Master of Urban and Rural Planning, IIT Roorkee	24511013
3	NEELAM MEENA	18E1JCCEF20P063	Wipro Limited	Email 01-Nov-2021
4	NEHA MEHAR	18E1JCCEF20P065	Wipro Limited	Email 01-Nov-2021
5	NIKHIL JAIN	18E1JCCEM40P066	Pinnacle Infotech, Jaipur	Email 22-Dec-2021
6	NIKHIL SAINI	18E1JCCEM30P067	Municipal Coorporation, Bharatpur	IRGY/2022-23/15649
7	PARTH JAIN	18E1JCCEM40P073	MBA in Construction Project Management Amity University Uttar Pradesh	2023-2025
8	PRIYESH UNNITHAN	18E1JCCEM40P082	Ashiana Housing Limited, Delhi	Ashiana/HR/OL/2022
9	RAHUL JANGID	18E1JCCEM30P085	Mahima Real Estate Private Limited, Jaipur	MREPL0782
10	RAHUL YADAV	18E1JCCEM30P086	Entrepreneur - Tokyo Concrete & Construction, Khairthal Tijara	08AAWFT4751H1ZJ
11	RAVI MEENA	18E1JCCEM20P089	TEDOT Group, Jaipur	info@tedot.in
12	RAVINDER SINGH	18E1JCCEM30P090	Master of Business Administration, Chandigarh University	24IMB12052
13	RITIK JAIN	18E1JCCEM40P091	Infosys Limited	HRD/3T/1002321261/24-25
14	RITIK KUMAR PRAJAPATI	18E1JCCEM30P092	Desire Ebergy Solutions Private Limited, Jaipur	DESPL/HR/2022/Mar/30-05
15	SANCHAY AGRAWAL	18E1JCCEM40P094	Futuresafe Technologies Pvt Ltd (Siterecon), Noida	29-Mar-2022
16	SANJANA BIRANIYA	18E1JCCEF30P095	Municipal Coorporation, Bikaner	2022/16825-27
17	SAURABH UMARWAL	18E1JCCEM10P097	Pinnacle Infotech, Jaipur	Email 22-Dec-2021
18	MO ROMAN	18E1JCCEM30P057	Monarch innovation Private Limited, Ahmedabad	Monarch innovation Private Limited, Ahmedabad
19	TEEKAM CHAND SAHU	18E1JCCEM30P110	Entrepreneur - Sahu Contrator Sawariya	08HGUPS6246F1ZK
20	HARSH VARDHAN	18E1JCCEM45P038	Iderdeep Construction Company, Hyderabad	22112022-25052024
21	SHIVANI SHEKHAR	18E1JCCEF35P099	MBA in Data Science and Analytics, Manipal University Jaipur	MBA in Data Science and Analytics, Manipal University Jaipur
22	SUDARSHAN DEV VAISHNAV	18E1JCCEM30P103	Municipal Council, Asind, Bhilwara	466402074599
23	SUMIT MINA	18E1JCCEM20P104	Master of Technology, IIT Roorkee	24522005
24	ANUJ KUMAR VIJAY	18E1JCCEM40P017	Ashiana Housing Limited, Delhi	Ashiana/HR/OL/2022
25	BHARAT DUDI	18E1JCCEM30P020	Government of India	GS-204938P
26	BHARAT SINGH	18E1JCCEM40P021	Alfen System Private Limited, Jaipur	EMP05042343
27	BHAVY KUMAR JAIN	18E1JCCEM40P022	Pinnacle Infotech, Jaipur	Email 22-Dec-2021
28	BHUPENDRA SINGH RAJPUROHIT	18E1JCCEM40P023	Accenture	Email 25-Sept-2021
29	CHANDRADEEP SINGH SHEKHAWAT	18E1JCCEM40P024	Ashiana Housing Limited, Delhi	Ashiana/HR/OL/2022
30	DEVESH SHARMA	18E1JCCEM40P026	Master of Technology, MNIT Jaipur	2024PCE5089
31	DHANUJAY NAIN	18E1JCCEM30P028	Metacube Software Private Limited, Jaipur	Email 21-Oct-2021
32	DHRUV VISHWAKARMA	18E1JCCEM30P030	Precision Design and Engineering Private Limited, Jaipur	PDE-161
33	DIVYANSH PAREEK	18E1JCCEM40P031	Futuresafe Technologies Pvt Ltd (Siterecon), Noida	31-Mar-2022
34	GAURAV BOHARA	18E1JCCEM20P032	Core3D Game Art, Jaipur	23-Feb-2022
35	HARISH SAINI	18E1JCCEM30P035	Junior Technical Assistant, Government of Rajasthan	2023/2279
36	HARSH VARDHAN SHEKHAWAT	18E1JCCEM40P039	Larsen & Toubro Limited, Barmer	6659
37	HARSHIT GUPTA	18E1JCCEM40P041	Accenture	Email 25-Sept-2021
38	HITESH KUMAR	18E1JCCEM10P043	Master of Business Administration, Chandigarh University	23MBA10183
39	JASPINDER KAUR	18E1JCCEF30P045	Ashiana Housing Limited, Delhi	Ashiana/HR/OL/2022
40	KARTIK KAMRA	18E1JCCEM40P048	Kamra Traders, Hanumangarh	F-15219
41	KULDEEP SUTHAR	18E1JCCEM30P049	Accenture	Email 25-Sept-2021
42	MANOJ SAINI	18E1JCCEM30P052	DHB Group, Jaipur	01-Feb-2024
43	MAYANK ARYA	18E1JCCEM10P053	The Indian Hume Pipe Company Limited, Jaipur	IHP/JPR/Staff/087
44	MAYANK DADHICH	18E1JCCEM40P055	Consulting Engineers Group Limited	Email 06-Dec-2021
45	ABHINAV KARELA	18E1JCCEM10P002	Delvex Innovations Private Limited, Jaipur	Delv/2022/150
46	AJAY DEV GURJAR	18E1JCCEM30P008	Academy of CAD and Robotics, Jaipur	HR/2022/OL/50
47	AJAY SINGH PAVAIYA	18E1JCCEM40P009	Delvex Innovations Private Limited, Jaipur	Delv/2022/154
48	AKSHAY PUROHIT	18E1JCCEM40P012	Upflairs Private Limited, Jaipur	UPL/JPR/2022/22
49	ASHISH RAJORA	18E1JCCEM10P019	Multi CAD Solution, Jaipur	2022/80

50	DEEPAK KUMAR NENIWAL	18E1JCCEM10P025	Delvex Innovations Private Limited, Jaipur	Delv/2022/159
51	DHEERAJ KUMAWAT	18E1JCCEM30P029	Multi CAD Solution, Jaipur	2022/82
52	GAURAV NAGAR	18E1JCCEM30P033	Upflairs Private Limited, Jaipur	UPL/JPR/2022/28
53	HARSH JARWAL	18E1JCCEM10P036	Academy of CAD and Robotics, Jaipur	HR/2022/OL/53
54	HARSH SHARMA	18E1JCCEM40P037	RNS Infotech, Jaipur	RNS/HR/2022/103
55	IFTIQAR AHMAD	18E1JCCEM25P044	Kaushalya Enterprises, Jaipur	Rect./2021-22/71
56	KAMAL YOGI	18E1JCCEM40P046	Delvex Innovations Private Limited, Jaipur	Delv/2022/168
57	KANAD MEENA	18E1JCCEM20P047	Kaushalya Enterprises, Jaipur	Rect./2021-22/85
58	MAJID SALAM RATHER	18E1JCCEMX5P051	Upflairs Private Limited, Jaipur	UPL/JPR/2022/30
59	MAYANK BARADA	18E1JCCEM10P054	Multi CAD Solution, Jaipur	2022/83
60	MEHUL AIRAN	18E1JCCEM40P056	Academy of CAD and Robotics, Jaipur	HR/2022/OL/54
61	MOHAMMED RAMEEZ SOLANKI	18E1JCCEM30P059	Delvex Innovations Private Limited, Jaipur	Delv/2022/174
62	MOHIT KUMAR	18E1JCCEM10P060	Academy of CAD and Robotics, Jaipur	HR/2022/OL/58
63	MUKUL TANWAR	18E1JCCEM10P061	Kaushalya Enterprises, Jaipur	Rect./2021-22/86
64	PANKAJ UDAI	18E1JCCEM10P071	Bhargava Associates, Jaipur	BA/2022/8
65	PARAS SHARMA	18E1JCCEM40P072	Upflairs Private Limited, Jaipur	UPL/JPR/2022/31
66	PIYUSH CHATURVEDI	18E1JCCEM40P075	Multi CAD Solution, Jaipur	2022/85
67	PRAKANSHU BANSAL	18E1JCCEM40P076	Kaushalya Enterprises, Jaipur	Rect./2021-22/88
68	PRAVESH KUMAR	18E1JCCEM20P078	Bhargava Associates, Jaipur	BA/2022/10
69	PRIYANKA LOYAL	18E1JCCEF40P081	RNS Infotech, Jaipur	RNS/HR/2022/110
70	RAGHAV JOSHI	18E1JCCEM40P084	RNS Infotech, Jaipur	RNS/HR/2022/111
71	ROHIT KUMAR	18E1JCCEM40P093	Upflairs Private Limited, Jaipur	UPL/JPR/2022/32
72	SANJAY SHARMA	18E1JCCEM40P096	Academy of CAD and Robotics, Jaipur	HR/2022/OL/60
73	TARUN DEV SINGH	18E1JCCEM45P108	Pinnacle Infotech, Jaipur	Email 22-Dec-2021
74	VARUN PRAKASH MITTAL	18E1JCCEM40P113	Pinnacle Infotech, Jaipur	PIS05469
75	VIKAS KUMAR MAHAWAR	18E1JCCEM10P115	Master of Technology, MNIT Jaipur	2024PCW5287
76	VINAYAK SHARMA	18E1JCCEM40P116	Master of Technology, MNIT Jaipur	2024PCW5284
77	VIRAJ CHOUHAN	18E1JCCEM30P117	Consulting Engineers Group Limited, Jaipur	Email 06-Dec-2021
78	YASH KUMAR SHARMA	18E1JCCEM40P119	Municipal Council, Churu	15882-87
79	YOGESH MEENA	18E1JCCEM20P120	Entrepreneur - Get Better Studios LLP, Jaipur	08AAYFG2111L1Z3
80	BHAVYA JAIN	18E1JCCEM40P300	Infosys Limited	HRD/3T/1004440506/22-23
81	RAVI SHARMA	18E1JCCEM40P302	Government of India	7(122)/2023/2390
82	AKASH KUMAR PRAJAPAT	18E1JCCEM30P303	Master of Technology, NIT Karnataka	Master of Technology, NIT Karnataka
83	DANISH SIDDIQUI	19E1JCCEM40P200	The University of Adelaide, South Australia	1893094
84	MUKUL	19E1JCCEM40P201	Municipal Council, Tonk	10813
85	SWARN RAJ SINGH	19E1JCCEM15P202	Master of Technology, IIT Kanpur	Master of Technology, IIT Kanpur
86	AAKASH SHARMA	18E1JCCEM40P001	SmartDocs Business Solutions Pvt Ltd, Jaipur	50206
87	ABHISHEK GAUTAM	18E1JCCEM40P003	STARTWITH BASICX Private Limited, Jaipur	31-May-2023
88	ABHISHEK PAREEK	18E1JCCEM40P005	Pinnacle Infotech, Jaipur	Email 22-Dec-2021
89	ADITYA KHANDELWAL	18E1JCCEM40P007	Entrepreneur - Aditya Agro Industries, Bundi	08IFBPK2698Q1ZH
90	AKHILESH OJHA	18E1JCCEM40P011	Pinnacle Infotech, Jaipur	Email 22-Dec-2021
91	AMAN SHARMA	18E1JCCEM40P013	Master of Technology, MNIT Jaipur	2023PCE5118
92	ANJALI MAHAWAR	18E1JCCEF10P014	Wipro Limited	Email 01-Nov-2021
93	ANMOL PAREEK	18E1JCCEM40P015	Entrepreneur - Gopinath Construction Company, Tonk	08EGHPP3751C1ZD
94	ANUJ KUMAR GOYAL	18E1JCCEM40P016	RITES Limited, Gurgaon	17332
95	SHUBHAM RAWAT	18E1JCCEM40P101	Academy of CAD and Robotics, Jaipur	HR/2022/OL/61
96	SOURABH KUMAR REGAR	18E1JCCEM10P102	Bhargava Associates, Jaipur	BA/2022/11
97	SURENDRA SOLANKI	18E1JCCEM10P107	RNS Infotech, Jaipur	RNS/HR/2022/112
98	TARUN MEENA	18E1JCCEM20P109	Bhargava Associates, Jaipur	BA/2022/13
99	VIBHANSHU JAIN	18E1JCCEM40P114	RNS Infotech, Jaipur	RNS/HR/2022/115
100	VIVEK KUMAR MEENA	18E1JCCEM20P118	Bhargava Associates, Jaipur	BA/2022/14
101	MUDIT SHARMA	18E1JCCEM40P301	RNS Infotech, Jaipur	RNS/HR/2022/118

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AASHISH KUMAR VERMA	17E1JCCEM10P001	Master of Technology, IIT Dhanbad	Acad/605001/M.Tech 2021 Admission/(202409)
2	ABDUL RAUF	17E1JCCEM30P002	Orion Infra Consulting Pvt Ltd, Dungarpur	Offer letter 06 May 2024
3	ADITYA MAMODIA	17E1JCCEM40P005	Academia Guru, Sonipat	Email 14 Dec 2020
4	AMAN KAUSHIK	17E1JCCEM40P006	National Highways Authority of India, Delhi	2003039137
5	ANIL SAINI	17E1JCCEM30P009	Central Public Works Department, Delhi	1817,14 Jun 2024
6	ANKIT KUMAR YADAV	17E1JCCEM30P014	Justice and Law Department, Rajasthan	Justice and Law Department, Rajasthan
7	ARPIT MANGDHANA	17E1JCCEM40P015	Architectural Company in Jaipur	Architectural Company in Jaipur
8	ASHISH KUMAR DWIVEDI	17E1JCCEM40P018	Genpact India Private Limited, Jaipur	703293207
9	ASHOK CHAUDHARY	17E1JCCEM30P020	Chaudhary Computers, Jaipur	Chaudhary Computers, Jaipur
10	ASHUTOSH GARG	17E1JCCEM40P022	Ashiana Housing Limited, New Delhi	Ashiana/HR/OL/2021,27.07.2021
11	ASHWEENI KUMAR	17E1JCCEM45P023	Entrepreneur - A B Industry and Buildcon, Jharkhand	20ACBFA5782G1ZQ
12	AVINASH JAIN	17E1JCCEM40P024	TATA Consultancy Services Limited Mumbai	1949602
13	BHARAT KUMAR CHOUDHARY	17E1JCCEM30P026	Marwar Cement Plant Jodhpur	MCL/HR/2024,01.09.2024
14	CHHAYANK VERMA	17E1JCCEM10P030	MSc : University of Nottingham, England	Admission letter 12 April 2024
15	CHIRAG JAIN	17E1JCCEM40P031	Kantar, Bengaluru	70075134
16	DEEPANSHU JAIN	17E1JCCEM40P032	Chegg India, Bengaluru	Email 06 Dec 2020
17	DEEPANSHU MEWARA	17E1JCCEM30P033	Infoshore Software Private Limited, Jaipur	Infoshore Software Pvt Ltd Jaipur
18	DESHNA JAIN	17E1JCCEF40P034	Metacube Software Private Limited, Jaipur	10 August, 2022
19	DHANANJAI CHATURVEDI	17E1JCCEM40P035	E2V LLP	11.10.2020
20	DHEERAJ THOLIA	17E1JCCEM30P036	Entrepreneur - Manoj Construction Company Surajgarh	08AHMPK2105M1Z8
21	DINESH CHAUHAN	17E1JCCEM40P037	Office of the Deputy Commissioner of Customs, Hyderabad	S/01/ESTT/02/2016-ACC-PFI
22	DIWAKAR JAIMAN	17E1JCCEM40P038	Academia Guru, Sonipat	Email 14 Dec 2020
23	GAUTAM MITTAL	17E1JCCEM40P041	I-Process services Private Limited, Gurugram	01.02.2024
24	HRISHIKESH TINKER	17E1JCCEM30P046	Pinnacle Infotech Jaipur	20740671,05.03.2021
25	IRFAN KHAN	17E1JCCEM40P047	Adroit Group, Jaipur	C8RJBIK001
26	JAI MANWANI	17E1JCCEM40P048	Pinnacle Infotech, Jaipur	20740495
27	KARTIK NAIR	17E1JCCEM40P050	Master of Technology, NIT Suratkal	1019457
28	MAHESH SINGH CHAUHAN	17E1JCCEM45P051	Department of Post Office, Indore	1.2/GDS/125/24-25
29	MAHIMA SHARMA	17E1JCCEF40P052	E2V LLP	Email 11.10.2020
30	MANISH RAJWANI	17E1JCCEM40P054	Our Bus India Pvt Ltd	Offer letter 27 March 2023
31	MAYANK PUROHIT	17E1JCCEM40P055	E2V LLP	Email 11.10.2020
32	MAYANK SHARMA	17E1JCCEM40P056	JS design Jaipur	Offer Letter 13 Aug 2024
33	MAYANK TIWARI	17E1JCCEM40P057	Master of Technology, NIT Suratkal	222CM033
34	MOHAMMED BAASIR KHAN	17E1JCCEM40P060	Junior Accountant, Government of Rajasthan	F.4E(1)(6)-/398,26.09.2024
35	MOHIT AGNIHOTRI	17E1JCCEM40P061	Entrepreneur - Gayatri Creation, Jaipur	08CLGPA1924A1ZT
36	MOHIT AGRAWAL	17E1JCCEM40P062	Chegg India, Bengaluru	Via mail 06.12.2020
37	MOHIT KANSAL	17E1JCCEM40P063	Pinnacle Infotech, Jaipur	20740448
38	MOHIT KUMAR MEENA	17E1JCCEM20P064	Ministry of Parliamentary Affairs, Delhi	13.03.2024
39	MUKUL KAWALIA	17E1JCCEM20P066	Punjab National Bank	Punjab National Bank
40	NAVIN JANGIR	17E1JCCEM30P068	MS, University of Adelaide	1931157
41	NIKHIL AGRAWAL	17E1JCCEM40P070	Entrepreneur - Krishna Trading Company, Sawaimadhopur	Entrepreneur - Krishna Trading Company, Sawaimadhopur
42	NIKHIL MAGHNANI	17E1JCCEM40P071	Pinnacle Infotech, Jaipur	20741903
43	NITESH KUMAR MEENA	17E1JCCEM20P072	State Bank of India	State Bank of India
44	RAHUL KUMAR KATARA	17E1JCCEM40P080	TRU INC, Chandigarh	TRU INC, Chandigarh
45	ROHIT TANWAR	17E1JCCEM45P087	Chegg India, Bengaluru	Via mail 06.12.2020
46	ROUSHAN KUMAR	17E1JCCEM15P088	RCD, Govt of Jharkhand	132298901731
47	SANDEEP YADAV	17E1JCCEM30P092	Entrepreneur - Family Contractor	Entrepreneur - Family Contractor
48	SANWARA GURJAR	17E1JCCEM30P094	Academia Guru, Sonipat	Email 14 Dec 2020
49	SATENDRA GURJAR	17E1JCCEM30P096	KPMG, Gurugram	142950
50	SAWARMAL SHARMA	17E1JCCEM40P098	Master of Technology, IIT Kanpur	22103062 Mtech/CE
51	SHAHID HUSSAIN MALIK	17E1JCCEM35P100	Ircon International Limited, Jammu	Ircon International Limited, Jammu

52	SHARAD SHARMA	17E1JCCEM40P101	Balakrishna Consulting LLP, Bengaluru	Balakrishna Consulting LLP, Bengaluru
53	SHUBHAM MALIK	17E1JCCEM45P103	E2V LLP	Email 11.10.2020
54	SHUBHAM SHARMA	17E1JCCEM40P105	GA Infra Private Limited, Jaipur	DESPL/HR/2024/JUN/04-01
55	SIMRAN	17E1JCCEF25P106	Government of Rajasthan	5636
56	SOURABH SHARMA	17E1JCCEM40P107	Entrepreneur - R.K.Architecturial Works Ajmer	08ANEPS0704N1ZS
57	SURAJ PAREEK	17E1JCCEM40P108	Decision Foundry, Pune	666
58	TANMAY JAIN	17E1JCCEM40P110	Master of Technology, NIT Surat	P22TP008
59	TANMAY KOOLWAL	17E1JCCEM40P111	Entrepreneur - Rely Coaching Institute Jaipur	Visiting card
60	TOSH RAJPUROHIT	17E1JCCEM40P112	Chegg India, Bengaluru	Via mail 06.12.2020
61	TUSHAR JEENGAR	17E1JCCEM10P113	Statusneo Technology Consulting Private Limited, Gurugram	Offer Letter 04 May 2023
62	UJJWAL SUTHAR	17E1JCCEM30P114	Synoriq, Jaipur	1320
63	VANSHITA TIWARI	17E1JCCEF40P116	Academia Guru, Sonipat	Email 14 Dec 2020
64	VARNIKA JAIN	17E1JCCEF40P117	Pinnacle Infotech, Jaipur	20741487
65	VINAY YADAV	17E1JCCEM30P119	Aashiana Housing Limited, Delhi	Ashiana/HR/OL/2021,27.07.2021
66	VIVEK SEHRA	17E1JCCEM20P121	Master of Technology, IIT Delhi	2022CEP2361
67	YASH JAIN	17E1JCCEM40P123	Chegg India, Bengaluru	Email 06 Dec 2020
68	YASH JAIN	17E1JCCEM40P124	Chegg India, Bengaluru	Email 06 Dec 2020
69	YASH SINGODIA	17E1JCCEM30P126	Pinnacle Infotech, Jaipur	PIS03598
70	YOGESH KUMAR MEENA	17E1JCCEM20P127	Master of Technology :-Universirty of Technology, Jaipur	SETMT1607220024
71	RAGHUVIR SINGH RATHORE	17E1JCCEM40P300	INDIAN ARMY	Confidential
72	SHIPRA SHARMA	17E1JCCEF40P301	Pinnacle Infotech, Jaipur	20741693
73	VIJAY KUMAR SHARMA	17E1JCCEM40P303	Ghumantu Tech Private Limited, Jaipur	AALCG6041K
74	AKSHIT BOHRA	18E1JCCEM40P200	Hedge and Sachs Financials INC-Dubai	Hedge and Sachs Financials INC-Dubai
75	JITESH GUPTA	18E1JCCEM40P202	VEEAR Analytics, Jaipur	Veear_EMP_115
76	KARTIK KUMAWAT	18E1JCCEM30P203	Pinnacle Infotech, Jaipur	PIS03599
77	MANISHA KAUSHIK	18E1JCCEF40P204	Engineer - Civil Construction Company	Engineer - Civil Construction Company
78	NARENDRA SINGH KASANA	18E1JCCEM30P205	Entrepreneur :-M/s Shubham Constructions Jaipur	08AKGPK366P1ZE
79	RAHUL SHARMA	18E1JCCEM30P207	Somyakriti Architecture, Jaipur	Offer Letter 19 Oct 2024
80	SHIVANSH SHARMA	18E1JCCEM40P210	Academia Guru, Sonipat	Email 14 Dec 2020
81	VIKAS BUHADIYA	18E1JCCEM10P211	Chegg India, Bengaluru	Email 06 Dec 2020
82	ABHISHEK CHHOLAK	17E1JCCEM20P003	Multi CAD Solution, Jaipur	2021/551
83	ANAND KUMAR	17E1JCCEM45P007	Upflairs Private Limited, Jaipur	UPL/JPR/2021/60
84	ANIL KUMAR	17E1JCCEM10P008	Bhargava Associates, Jaipur	BA/2021/61
85	ANIRUDDH SINGH	17E1JCCEM40P010	Multi CAD Solution, Jaipur	2021/560
86	ANIRUDDHA SINGH BHATI	17E1JCCEM40P011	Upflairs Private Limited, Jaipur	UPL/JPR/2021/67
87	ARUN	17E1JCCEM15P016	Academy of CAD and Robotics, Jaipur	HR/2021/OL/11
88	ASHISH CHAUHAN	17E1JCCEM30P017	Multi CAD Solution, Jaipur	2021/552
89	ASHU KEMLA	17E1JCCEM20P021	Bhargava Associates, Jaipur	BA/2021/60
90	BHASKAR SAINI	17E1JCCEM30P027	Kaushalya Enterprises, Jaipur	Rect./2020-21/6
91	GAURAV SONI	17E1JCCEM30P040	Kaushalya Enterprises, Jaipur	Rect./2020-21/7
92	GRANTH SHARMA	17E1JCCEM30P042	Academy of CAD and Robotics, Jaipur	HR/2021/OL/10
93	HARSH DHAKAD	17E1JCCEM30P044	Bhargava Associates, Jaipur	BA/2021/58
94	MILAN SHARMA	17E1JCCEM40P059	Kaushalya Enterprises, Jaipur	Rect./2020-21/9
95	MONIKA CHOUDHARY	17E1JCCEF30P065	Academy of CAD and Robotics, Jaipur	HR/2021/OL/5
96	NAMAN GOYAL	17E1JCCEM40P067	Upflairs Private Limited, Jaipur	UPL/JPR/2021/73
97	PIYUSH MEENA	17E1JCCEM20P076	Multi CAD Solution, Jaipur	2021/555
98	PRIYANKA	17E1JCCEF30P078	Kaushalya Enterprises, Jaipur	Rect./2020-21/13
99	RAJAT PAREEK	17E1JCCEM40P082	Upflairs Private Limited, Jaipur	UPL/JPR/2021/70
100	ROHIT KUMAR CHOUDHARY	17E1JCCEM30P086	Academy of CAD and Robotics, Jaipur	HR/2021/OL/8
101	SACHIN MATORIA	17E1JCCEM10P090	Academy of CAD and Robotics, Jaipur	HR/2021/OL/8
102	SARANSH JINDAL	17E1JCCEM40P095	Multi CAD Solution, Jaipur	2021/556
103	TANAY MATHUR	17E1JCCEM40P109	Bhargava Associates, Jaipur	BA/2021/57

104	VIDHI SHEKHAR SHUKLA	17E1JCCEM45P118	Bhargava Associates, Jaipur	BA/2021/59
105	VIVEK SONI	17E1JCCEM45P122	Multi CAD Solution, Jaipur	2021/559
106	GAURAV PURI	17E1JCCEM30P302	Kaushalya Enterprises, Jaipur	Rect./2020-21/14

4.6 Professional Activities (20) Total Marks 20.00

4.6.1 Professional socities/ chapters and organizing engineering events (5)

Institute Marks : 5.00

Indian Green Building Council (IGBC):

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government and civil society, through advisory and consultative processes.

The Indian Green Building Council (IGBC), part of the Confederation of Indian Industry (CII) was formed in the year 2001. The vision of the council is, "To enable a sustainable built environment for all and facilitate India to be one of the global leaders in the sustainable built environment by 2025".

Key Focus Areas

- Introduction to Green Buildings & Green Built Environment
- Site Selection & Planning
- Water Conservation
- Energy Management
- Sustainable Building Materials.
- Environment Friendly Indoors.
- Case studies
- Facilitate uptake of low carbon products & technologies
- Encourage reusing, repurposing and upcycling
- Enhance the logistics operations
- Identify opportunities to increase environmental performance
- Transition towards renewable energy
- Increase the credibility of data

Benefits to Students

- Enable students to become industry-ready.
- Exposure to Green concepts in design, construction & operation of buildings.
- Exposure to Green Building trends & technologies.
- Acquire knowledge on IGBC Green Building Rating Systems.

Figure 4.6.1 (A): Indian Green Building Council (IGBC) Membership Certificate

Activities by Indian Green Building Council (IGBC) (2022-23):

- On World Nature Conservation Day, the institute hosted an enlightening expert talk by Dr. D.N. Pandey, IFS (PCCF, Forest Department, Govt. of Rajasthan), shedding light on critical conservation strategies and the role of individuals in preserving nature.
- A Bird House Making and Distribution activity was held during World Environment Day celebrations, emphasizing the importance of biodiversity and ecological balance. Students crafted birdhouses, promoting habitats for avian species and fostering a sense of environmental responsibility.

These initiatives highlighted the institute's commitment to sustainability and conservation. Together, they inspired the community to actively engage in protecting the planet.

Table 4.6.1 (A): Activities by Indian Green Building Council (IGBC) (2022-23)

S. No.	Activity Name
1	Expert talk by Dr. D.N. Pandey, IFS (PCCF, Forest Department, Govt. of Rajasthan) on the occasion of World Nature Conservation Day
2	In celebration of World Environment Day, a bird house making & distribution in significance of promoting biodiversity and ecological balance

Activities by Indian Green Building Council (IGBC) (2023-24):

- To celebrate World Bamboo Day (2023-24), a vibrant DIY initiative titled *"Bamboo Project"* showcased ten innovative and sustainable projects using bamboo. The list included creative ideas like Bamboo Home Decorating, a unique Bamboo Shoe Stand, and even a Bamboo Floating Boat, emphasizing both functionality and artistry. Highlights also featured eco-friendly essentials like the Bamboo Pen Stand, Bamboo Lamp, and Bamboo Candle & Decoration, which were perfect for enhancing living spaces. For nature lovers, the Bamboo Bird House and Bamboo Plant Décor offered opportunities to blend sustainability with greenery.

Table 4.6.1 (B): Bamboo project (DIY Projects by bamboo) on the occasion of World Bamboo Day (2023-24)

S. No.	Project Name
1	Bamboo Home Decorating
2	Bamboo Shoe Stand
3	Bamboo Floating Boat
4	Bamboo Bird House
5	Bamboo Pen Stand
6	Bamboo Lamp
7	Bamboo Candle & Decoration
8	Bamboo House
9	Bamboo Plant Decor
10	Bamboo Rack

- To mark World Environment Day (2023-24), students participated in the *"Pot Painting"* activity, showcasing their creativity while promoting eco-consciousness. Through vibrant designs and meaningful themes, the activity highlighted the importance of sustainable living and environmental care.

Figure 4.6.1 (B): Glimpse; Activities by Indian Green Building Council (IGBC)

Table 4.6.1 (A): Professional Society/Chapters

S. No	Professional Societies / Chapter/ Clubs/ Committees	Date of Issue /Establishment	Remarks	Faculty Coordinator
1	Associate member in "The Institution of Engineers (India)"	2019	Membership of faculty member from the Civil engineering department	Dr. Krishan Kumar Saini
2	Chartered Engineer (India) authorized by the Institution of Engineers (India)	2019	Membership of faculty member from the Civil engineering department	Dr. Krishan Kumar Saini
3	Member in International association of engineers (IAENG)	2021	Membership of faculty member from the Civil engineering department	Dr. Krishan Kumar Saini
4	Professional member at NOBEL Professional foundation approved by ministry of corporate affairs, Government of India.	2022	Membership of faculty member from the Civil engineering department	Dr. Krishan Kumar Saini
5	Member, The Institution of Engineers	1992	Membership of faculty member from the Civil engineering department	Dr. Mayank Varshney
6	Member, The Institute of Valuers	1992	Membership of faculty member from the Civil engineering department	Dr. Mayank Varshney
7	Member, The Insurance Institute of India	1996	Membership of faculty member from the Civil engineering department	Dr. Mayank Varshney
8	Member, The Institute of Civil Engineers	2001	Membership of faculty member from the Civil engineering department	Dr. Mayank Varshney
9	Member, The Indian Institute of Interior Designers	2003	Membership of faculty member from the Civil engineering department	Dr. Mayank Varshney
10	Member, International Association of Engineers (IAENG)	12/7/2021	Membership of faculty member from the Civil engineering department	Dr. Kuldeep Singh Kulhar
11	Member, The Indian Society For Technical Education (ISTE)	2021	Membership of faculty member from the Civil engineering department	Dr. Kuldeep Singh Kulhar
12	Member, Institute of Research Engineers and Doctors (IRED)	6/7/2021	Membership of faculty member from the Civil engineering department	Dr. Kuldeep Singh Kulhar

13	Member, International Association of Engineers (IAENG)	15/07/2021	Membership of faculty member from the Civil engineering department	Mr. Javed Ul Islam
14	Member, International Association of Engineers (IAENG)	11/07/2021	Membership of faculty member from the Civil engineering department	Mr. Teekam Singh
15	Member, International Association of Engineers (IAENG)	12/07/2021	Membership of faculty member from the Civil engineering department	Mr. Hetram Sharma
16	Member, International Association of Engineers (IAENG)	01/06/2020	Membership of faculty member from the Civil engineering department	Mr. Yogesh Kumar Agarwal
17	Member, International Association of Engineers (IAENG)	08/06/2020	Membership of faculty member from the Civil engineering department	Mr. Pradeep Kumar Jain
18	Member, International Association of Engineers (IAENG)	24/09/2020	Membership of faculty member from the Civil engineering department	Mr. Jitesh Kumar Jain
19	Chartered Engineer (India) authorized by the Institution of Engineers (India)	2021	Chartered Engineer (India) authorized by the Institution of Engineers (India)	Mr. Jitesh Kumar Jain

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

Institute Marks : 5.00

Table 4.6.2 (A): List of Publication of Newsletters

S. No.	Academic Year	Name of the Newsletter	Month and Year of Publication	Name of the Editor	Name of the Publisher
1	2023-24	Constructo-July-Dec2022	Every Six Month	Mr.Javed Ul Islam	Civil Department
2	2023-24	Constructo-Jan-June-2023	Every Six Month	Mr.Javed Ul Islam	Civil Department
3	2022-23	Constructo-July-Dec2022	Every Six Month	Mr.Javed Ul Islam	Civil Department
4	2022-23	Constructo-Jan-June-2023	Every Six Month	Mr.Javed Ul Islam	Civil Department
5	2021-22	Constructo-July-Dec2022	Every Six Month	Ms. Nida Khanam	Civil Department
6	2021-22	Constructo-Jan-June-2023	Every Six Month	Ms. Nida Khanam	Civil Department
7	2020-21	Constructo-July-Dec2022	Every Six Month	Ms. Nida Khanam	Civil Department
8	2020-21	Constructo-Jan-June-2023	Every Six Month	Ms. Nida Khanam	Civil Department

Figure 4.6.2 (A): Sample of Published Newsletters

4.6.3 Participationininter-institute events by students of the program of study (10)

Institute Marks : 10.00

Table 4.6.3 (A): Details of Participation in Inter-Institute Events by Students (2023-24)

S. No.	Session	Name of Activity	Name of Event/Company (Venue)	Name of Students
1	2023-24	Badminton (Boys)	Varchas-2023	Raman Agarwal
2	2023-24	Badminton (Boys)	Varchas-2023	Naman Sahay Bhatnagar
3	2023-24	Cricket	SKIT Cricket Tournament	Aman Sharma
4	2023-24	Badminton (Boys) Winner	Inter Year league-2023	Naman Sahay Bhatnagar
5	2023-24	Football (Boys) Winner	Inter Year league-2023	Abhinav
6	2023-24	Volleyball (Boys) Runner Up	Inter Year league-2023	Daksh
7	2023-24	Badminton (Boys) Winner	Inter Year league-2023	Raman Agarwal
8	2023-24	Badminton (Boys) Runner Up	Inter Year league-2023	Naman Bhatnagar
9	2023-24	Badminton (Double) Winner	Inter Year league-2023	Raman Agarwal
10	2023-24	Badminton (Double) Winner	Inter Year league-2023	Naman Bhatnagar
11	2023-24	Badminton (Boys) Runner Up	Inter Year league-2023	Harshit Verma
12	2023-24	Badminton (Boys) Runner Up	Inter Year league-2023	Manish patidar
13	2023-24	Badminton (Girls) Winner	Inter Year league-2023	Anjali
14	2023-24	Badminton (Girls) Winner	Inter Year league-2023	Sonali
15	2023-24	Badminton (Mixed) Winner	Inter Year league-2023	Sonali
16	2023-24	Badminton (Boys) 1st Position	Inter Year league-2023	Raman Agarwal
17	2023-24	Badminton (Boys) 1st Position	Inter Year league-2023	Naman Sahay Bhatnagar
18	2023-24	Cricket (II Runner Up)	Inter Year League-2023	Naveen Kumar
19	2023-24	Kabaddi (Runner Up)	Inter Year League-2023	Rahul Jonwal
20	2023-24	Badminton	Inter Year League-2023	Pritam Patidar
21	2023-24	Kabaddi	Inter Year League-2023	Vishal Meena
22	2023-24	Cricket (Runner Up)	Inter Year League-2023	Tarunpal Singh Rajpurohit
23	2023-24	Kabaddi (Runner Up)	Inter Year League-2023	Tarunpal Singh Rajpurohit
24	2023--24	Crypto Mining (Winner)	Inter Year League-2023	Tarunpal Singh Rajpurohit
25	2023-24	Kabaddi (Runner Up)	Inter Year League-2023	Shubham Yadav
26	2023-24	Cricket	Inter Year League-2023	Harshit Chippa
27	2023-24	Kabaddi (Runner Up)	Inter Year League-2023	Kushlendra Yadav
28	2023-24	Badminton	Inter Year League-2023	Mukul Prajapati
29	2023-24	Chess	National Level Technical Fest-2024	Rohit Kumawat
30	2023-24	Basketball	National Level Technical Fest-2024	Priyavardhan Singh Rathore
31	2023-24	Cad-Darshan (Winner)	National Level Technical Fest-2024	Aditya Pareek
32	2023-24	CAD-DARSHAN (Runner Up)	National Level Technical Fest-2024	Nishant Mali
33	2023-24	CAD-DARSHAN (Runner Up)	National Level Technical Fest-2024	Yash Goyal
34	2023-24	Dexterity (Winner)	National Level Technical Fest-2024	Aditya Gupta
35	2023-24	Dexterity (Runner Up)	National Level Technical Fest-2024	Harsh Sharma
36	2023-24	Dexterity (Runner Up)	National Level Technical Fest-2024	Samyak Goswami
37	2023-24	Best Out of Waste (Winner)	National Level Technical Fest-2024	Nikita Agarwal
38	2023-24	Best Out of Waste (Runner Up)	National Level Technical Fest-2024	Pooja Garg

39	**2023-24**	Best Out of Waste (Runner Up)	National Level Technical Fest-2024	Yash Goyal
40	**2023-24**	Cricket	Inter Year League-2023	Abhay Vyas
41	**2023-24**	Cricket	Inter Year League-2023	Aman Sharma
42	**2023-24**	Cricket	Inter Year League-2023	Gaurav Kumar

Table 4.6.3 (B): Details of Participation in Inter-Institute Events by Students (2022-23)

S. No.	Session	Name of Activity	Name of Event/Company (Venue)	Name of Students
1	2022-23	Football (Winner)	Interbranch Football Tournament	Hrishabh Mishra
2	2022-23	Cricket	Varchas-2022 (IIT,Jodhpur)	Rehansh Sharma
3	2022-23	Cricket	Varchas-2022 (IIT,Jodhpur)	Naman Sahay Bhatngar
4	2022-23	Cricket	Varchas-2022 (IIT,Jodhpur)	Abhay Vyas
5	2022-23	Badminton (Boys)	Varchas-2022 (IIT,Jodhpur)	Manish Patidar
6	2022-23	Badminton (Boys)	Varchas-2022 (IIT,Jodhpur)	Harshit Verma
7	2022-23	Badminton (Boys)	Varchas-2022 (IIT,Jodhpur)	Naman Sahay Bhatnagar
8	2022-23	Badminton (Boys)	Varchas-2022 (IIT,Jodhpur)	Raman Agarwal
9	2022-23	Badminton (Winner)	Shauryamanthan'23	Naman Sahay Bhatnagar
10	2022-23	Badminton (Runner-Up)	Sphoorti'23	Naman Sahay Bhatnagar
11	2022-23	Badminton (Winner)	Lamhe -2022	Manish Patidar
12	2022-23	Kho-Kho	Sports-Meet	Rehansh
13	2022-23	Badminton (Winner)	Taxila Business School	Manish Patidar
14	2022-23	Badminton (Winner)	Taxila Business School	Naman Sahay Bhatnagar
15	2022-23	Badminton (Winner)	Taxila Business School	Raman Agarwal
16	2022-23	Badminton (Winner)	RTU Sports tournament	Naman Sahay Bhatnagar
17	2022-23	Badminton (Winner)	RTU Sports tournament	Manish Patidar
18	2022-23	Badminton (Winner)	RTU Sports tournament	Raman Agarwal
19	2022-23	Badminton (Winner)	West Zone Tournament Indore	Naman
20	2022-23	Badminton (Winner)	West Zone Tournament Indore	Raman
21	2022-23	CAD-DARSHAN (Winner)	National Level Technical Fest-2023	Aditya Pareek
22	2022-23	CAD-DARSHAN (Runner up)	National Level Technical Fest-2022	Nishant Mali
23	2022-23	CAD-DARSHAN (Runner up)	National Level Technical Fest-2023	Yash Goyal
24	2022-23	MANTHAN (Winner)	National Level Technical Fest-2023	Aditya Gupta
25	2022-23	MANTHAN (Runner up)	National Level Technical Fest-2023	Harsh Sharma
26	2022-23	MANTHAN (Runner up)	National Level Technical Fest-2023	Samyak Goswami
27	2022-23	ZENITH(Winner)	National Level Technical Fest-2023	Yashika Singh Bhati
28	2022-23	ZENITH(Winner)	National Level Technical Fest-2023	Priyanka Sharma

29	2022-23	ZENITH (Runner up)	National Level Technical Fest-2023	Priyanka
30	2022-23	ZENITH (Runner up)	National Level Technical Fest-2023	Sachin
31	2022-23	ZENITH (Runner up)	National Level Technical Fest-2023	Yash Goyal
32	2022-23	ZENITH (Runner up)	National Level Technical Fest-2023	Rachit Surolia

Table 4.6.3 (C): Details of Participation in Inter-Institute Events by Students (2021-22)

S. No.	Session	Name of Activity	Name of Event/Company (Venue)	Name of Students
1	2021-22	Carrom (Runner up)	Inter Year League-2021	Yuvraj
2	2021-22	Carrom (Runner up)	Inter Year League-2021	Rehansh
3	2021-22	75m Sprint (Winner)	Inter Year League-2021	Kanad Meena
4	2021-22	Badminton (Winner)	Inter Year League-2021	Raman Agarwal
5	2021-22	Badminton (Winner)	Inter Year League-2021	Shruti Saini
6	2021-22	Badminton (Runner up)	Inter Year League-2021	Prince Gemini
7	2021-22	Badminton (Winner)	Inter Year League-2021	Naman
8	2021-22	Badminton (Winner)	Inter Year League-2021	Raman
9	2021-22	Badminton (Runner up)	Inter Year League-2021	Prince Gemini
10	2021-22	Badminton (Runner up)	Inter Year League-2021	Nishant
11	2021-22	Cricket	Varches(IIT Jodhpur)	Abhay Vyas
12	2021-22	Cricket	Varches(IIT Jodhpur)	Rehansh Sharma
13	2021-22	Cricket	Varches(IIT Jodhpur)	Rahul Kumar
14	2021-22	Volleyball	Varches(IIT Jodhpur)	Manish Patidar
15	2021-22	CAD-DARSHAN (Winner)	National Level Technical Fest-2022	Aditya Pareek
16	2021-22	CAD-DARSHAN (Runner up)	National Level Technical Fest-2022	Nishant Mali
17	2021-22	CAD-DARSHAN (Runner up)	National Level Technical Fest-2024	Yash Goyal
18	2021-22	MANTHAN	National Level Technical Fest-2024	Aditya Gupta
19	2021-22	MANTHAN	National Level Technical Fest-2024	Harsh Sharma
20	2021-22	MANTHAN	National Level Technical Fest-2024	Samyak Goswami
21	2021-22	ZENITH (Winner)	National Level Technical Fest-2024	Yashika Singh Bhati
22	2021-22	ZENITH (Winner)	National Level Technical Fest-2024	Priyanka Sharma
23	2021-22	ZENITH (Runner up)	National Level Technical Fest-2024	Priyanka
24	2021-22	ZENITH (Runner up)	National Level Technical Fest-2024	Sachin
25	2021-22	ZENITH (Runner up)	National Level Technical Fest-2024	Yash Goyal

26	2021-22	ZENITH (Runner up)	National Level Technical Fest-2024	Rachit Surolia
27	2021-22	Best Out of Waste (Winner)	National Level Technical Fest-2024	Nikita Agarwal
28	2021-22	Best Out of Waste (Runner up)	National Level Technical Fest-2024	Pooja Garg
29	2021-22	Best Out of Waste (Runner up)	National Level Technical Fest-2024	Yash Goyal

Table 4.6.3 (D): Details of Participation in Inter-Institute Events by Students (2020-21)

S. No.	Session	Name of Activity	Name of Event/Company (Venue)	Name of Students
1	2020-21	Talking Tales (Winner)	Inter Year League-2021	Yashi Bishnoi
2	2020-21	Shorgul (street play) (III Position)	Inter Year League-2021	Aaryan khandelwal
3	2020-21	TAMBOLA (III Position)	Inter Year League-2021	Anjali Agrawal
4	2020-21	TAMBOLA (II Position)	Inter Year League-2021	Akshat khandelwal
5	2020-21	Herculean Trial (Winner)	Inter Year League-2021	Lagnesh kanwat

Figure 4.6.3 (A): Glimpse; Sports Events

Figure 4.6.3 (B): Sample Certificates

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 138.68

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with Institution(Ye
Krishan Kumar Saini	EVHPS1407M	ME/M. Tech and PhD	22/07/2020	Structural Engineering	7	0	0	Associate Professor	09/06/2023	09/12/2020	Regular	Yes
HETRAM SHARMA	DXSPS0731J	M.E/M.Tech	17/04/2018	Transportation Engineering	3	0	0	Assistant Professor		09/01/2017	Regular	Yes
Mr. Jitesh Kumar Jain	BDAPK2004G	B.E/B.Tech	10/03/2010	CIVIL ENGINEERING	3	0	0	Assistant Professor		04/01/2016	Regular	Yes
Mr. Teekam Singh	DXDPS0084M	M.E/M.Tech	19/01/2015	Transportation Engineering	3	0	0	Assistant Professor		16/08/2017	Regular	Yes
Mr. Pradeep Kumar Jain	AVHPJ3092P	M.E/M.Tech	08/01/2024	Environmental Engineering	3	0	0	Assistant Professor		16/01/2017	Regular	Yes
Mr. Sumit Saini	DIOPS5034K	M.E/M.Tech	14/12/2020	PRODUCTION ENGINEERING	2	0	0	Assistant Professor		23/09/2013	Regular	Yes
Mr. Ashish Boraida	AUGPB8419E	M.E/M.Tech	07/03/2017	THERMAL ENGINEERING	3	0	0	Assistant Professor		02/01/2017	Regular	Yes
YOGESH KUMAR AGARWAL	BPTPA1138N	M.E/M.Tech	17/04/2018	STRUCTURAL ENGINEERING	3	0	0	Assistant Professor		02/01/2017	Regular	Yes
SWARNIMA	GDAPS1683A	M.E/M.Tech	02/07/2019	GEO-TECHNICAL ENGINEERING	7	0	0	Assistant Professor		10/12/2020	Regular	Yes
ABHINAV AGGARWAL	AQMPA8644C	M.E/M.Tech	01/08/2018	INFRASTRUCTURE ENGINEERING	6	0	0	Assistant Professor		09/12/2020	Regular	Yes
NARENDRA KUMAR JAIN	AXSPJ7896C	M.E/M.Tech	18/09/2017	STRUCTURAL ENGINEERING	1	0	0	Assistant Professor		05/06/2023	Regular	Yes
RUCHI RATHORE	CCTPR6601R	M.E/M.Tech	14/12/2020	STRUCTURAL ENGINEERING	0	0	0	Assistant Professor		05/06/2023	Regular	Yes
SHYAM SUNDER SHARMA	IRWPS6560N	M.E/M.Tech	20/01/2024	STRUCTURAL ENGINEERING	0	0	0	Assistant Professor		18/01/2024	Regular	Yes
AJAY SHARMA	GQWPS6049P	ME/M. Tech and PhD	05/01/2024	GEO-TECHNICAL ENGINEERING	1	0	0	Assistant Professor		05/06/2023	Regular	Yes
SONU SINGH	GDXPS0856Q	ME/M. Tech and PhD	23/01/2024	WATER RESOURCES ENGINEERING	0	0	0	Associate Professor		05/06/2023	Regular	Yes
NARENDRA SIPANI	CQFPS6230M	M.E/M.Tech	31/07/2017	ENVIRONMENTAL ENGINEERING	0	0	0	Assistant Professor		17/07/2017	Regular	Yes
SHIVANGNI KHANDELWAL	DMRPK5017F	M.E/M.Tech	31/07/2018	TRANSPORTATION ENGINEERING	0	0	0	Assistant Professor		07/08/2018	Regular	Yes
JAVED UL ISALAM	ACDPI5971M	M.E/M.Tech	14/12/2020	STRUCTURAL ENGINEERING	2	0	0	Assistant Professor		16/08/2022	Regular	Yes
SUDHIR	GFUPS2762Q	M.E/M.Tech	31/03/2018	STRUCTURAL ENGINEERING	0	0	0	Assistant Professor		16/12/2019	Regular	No
ANJANA POONIA	BFBPP1238J	M.E/M.Tech	16/09/2008	CHEMICAL ENGINEERING	0	0	0	Assistant Professor		08/06/2020	Contractual	No
AKHIL MAHESHWARI	BEDPM3733E	M.E/M.Tech	31/12/2015	STRUCTURAL ENGINEERING	0	0	0	Assistant Professor		02/01/2017	Regular	No
NIDA KHANAM	EMOPK3514H	M.E/M.Tech	13/05/2019	STRUCTURAL ENGINEERING	0	0	0	Assistant Professor		25/07/2016	Regular	No
MAYANK VARSHNEY	AAFPV2774H	ME/M. Tech and PhD	30/07/2016	GREEN AND SUSTAINABLE BUILDINGS	0	0	0	Professor		12/04/2023	Contractual	Yes
YOGENDRA KUMAR SHARMA	AOQPS5689R	B.E/B.Tech	31/07/1992	CIVIL ENGINEERING	0	0	0	Assistant Professor		30/03/2021	Regular	Yes
GHANSHYAM	BZGPG0170F	B.E/B.Tech	16/11/2020	CIVIL ENGINEERING	0	0	0	Assistant Professor		31/07/2020	Regular	Yes
ANKITMODI	BJFPM2714J	ME/M. Tech and PhD	28/12/2021	Environmental Engineering	3	0	0	Associate Professor		03/01/2022	Regular	Yes

5.1 Student-Faculty Ratio (20) Total Marks 10.00

Institute Marks : 10.00

UG

No. of UG Programs in the Department 1

Bachelor of Technology						
Year of Study	CAY (2023-24)		CAYm1 (2022-23)		CAYm2 (2021-22)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	90	6	120	5	120	8
3rd Year	120	0	120	0	120	0
4th Year	120	0	120	0	120	0
Sub-Total	**330**	**6**	**360**	**5**	**360**	**8**
Total	**336**		**365**		**368**	

Grand Total	336	365	368

PG

No. of PG Programs in the Department 0

Grand Total			

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 0

Description	CAY(2023-24)	CAYm1 (2022-23)	CAYm2 (2021-22)
Total No. of Students in the Department(S)	336 **Sum total of all (UG+PG) students**	365 **Sum total of all (UG+PG) students**	368 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	17 **F1**	15 **F2**	14 **F3**
Student Faculty Ratio(SFR)	19.76 **SFR1=S1/F1**	24.33 **SFR2=S2/F2**	26.29 **SFR3=S3/F3**
Average SFR	23.46 **SFR=(SFR1+SFR2+SFR3)/3**		
F=Total Number of Faculty Members in the Department (excluding first year faculty)			

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

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

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2023-24)	16	1
CAYm1(2022-23)	15	0
CAYm2(2021-22)	13	1

Average SFR for three assessment years : 23.46

Assessment SFR : 10

5.2 Faculty Cadre Proportion (25) Total Marks 8.00

Institute Marks : 8.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	1.00	0.00	3.00	2.00	11.00	14.00
CAYm1(2022-23)	2.00	0.00	4.00	1.00	12.00	14.00
CAYm2(2021-22)	2.00	0.00	4.00	0.00	12.00	13.00
Average Numbers	1.67	0.00	3.67	1.00	11.67	13.67

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 8.00

5.3 Faculty Qualification (25)

Total Marks 10.68

Institute Marks : 10.68

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2023-24(CAY)	3	14	16.00	13.44
2022-23(CAYm1)	2	13	18.00	10.00
2021-22(CAYm2)	1	13	18.00	8.61

Average Assessment : 10.68

5.4 Faculty Retention (25)

Total Marks 15.00

Institute Marks : 15.00

Description	2022-23	2023-24
No of Faculty Retained	13	10
Total No of Faculty	18	18
% of Faculty Retained	72	56

Average : 64.00

Assessment Marks : 15.00

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

Total Marks 20.00

Institute Marks : 20.00

Innovation by the faculty in teaching and learning

In the teaching-learning process, innovative approaches aim to help students gain new knowledge and skills and get high test scores. In addition to using traditional teaching strategies including Blackboard instruction, sharing of resources, and two-way contact in each class, department faculty members also use innovative teaching strategies in the classroom. To improve their "teaching skills" and the students "learning process" the innovations that faculty members have employed are demonstrated by this series of initiatives.

1. NPTEL/SWAYAM courses are used for extensive learning and assignments.

2. Interacting with Faculty Members for Learning - Engaging with the teacher face-to-face encourages students to speak with them about issues.

3. Internal/External Internships for Technical Proficiency and Skill Development – During the summer vacation period department arranges Internal/External Internships for students to learn software of civil Engineering field, industrial tour and concrete and bitumen mix design etc.

4. To facilitate interactive learning Using Google Classroom or in offline mode - Students are involved to an active learning mode by faculty members through Google/offline classroom and analytical/technical quiz is also conducted.

5. Assignments per unit in each subject are provided to the students both in theory and laboratory for better understanding and improved outcomes of the problem.

6. Presentations with Power Point – Students are recommended to present their seminar, internship and project work to enhance their presentation skill.

7. Industrial and Field Visits - Industrial and Field Visits are regularly conducted to enhance the industrial/field practical approach of the students.

8. Expert Lectures from experienced academicians/industry persons are organised regularly in several disciplines for students to come across the technological advancements in the respective fields.

9. Beyond Curricula Content - Beyond Curricula Content is delivered by faculty members corresponding to their subjects and laboratory experiments for emerging advancement learning skills of the students.

10. Publication in the Journal of International Reputation and Conferences - Both students and faculty members regularly participate in national and international conferences and journals by presenting research papers. By publication students learn about the research gap, advancement in technology and selection of their project for final term.

11. Availability of E-Content – In the central library students is provided the access to numerous E-contents to keep them update with the research work going on all around.

12. Incubation Cell – The JECRC Incubation Cell has been established for innovation for advanced research, entrepreneurship and start-ups.

13. Virtual Laboratories: Students are provided with links of certain online virtual lab platform audio-visual presentations.

14. Following Blooms taxonomy - All of the departments subjects have their midterm exams prepared strictly according to Blooms taxonomy.

15. Faculty involvement in workshops, FDPs, and STTPs, among other events - To stay up with the advanced level of knowledge and abilities, faculty members are being encouraged to take part in staff development programs, webinars, short-term courses, and seminars on advanced themes.

16. Communication with Alumni - In order to connect with students and share their experiences, alumni are being invited to take part in national and international seminars, conferences, and guest lectures.

17. Transparency in Evaluation System - To prevent student inconsistencies, the midterm exam answer copies are presented to the student's right after the assessment.

18. Prioritizing the Development of Skills - In various fields of civil engineering, several kinds of student workshops are occasionally organized.

19. Soft Skill Training & Capus Recruitment training (CRT) - All students take Capus Recruitment training (CRT) and soft skill classes as part of their curriculum.

20. Concept Learning - Various charts and models used by faculty members for better understanding of the students.

21. Extra classes for weak students – Extra classes are scheduled for weak/slow learner students to cope with the issues.

22. Mentor-mentee system – Each faculty member is assigned mentorship of a group of students for their overall grooming.

23. Group leaders in project/lab - Group leaders are selected among a student group for project preparation or conduction of lab experiments to lead the group.

24. Teaching using projector - By enabling group participation in presentations, games, video content, and other group activities in a single session, interactive projectors can boost student engagement.

25. Concept based lab manuals - Laboratory Improvement future trends, under this the faculty member handling the lab session prepare a outcome based result oriented manual with possible use.

26. Innovation in assessments - Special assessment procedure is designed and implemented to collect the attainment levels of course outcomes and program outcomes on frequent basis.

27. Innovation in Evaluations - The process to enhance the understanding level and presentation skills is used.

28. Govt jobs cell – Faculty members prepare the students seeking Government Jobs and PSUs according to their syllabus and pattern/mode of examination.

29. Add-on Courses: Recent trends-based add-on courses are organized through industries.

30. Centre of Excellence: The two Centres of Excellence, established by UltraTech and CADD Centre in the Civil Engineering Department of JECRC Jaipur, mark a pivotal step in bridging the gap between academia and industry. These centres provide students with advanced technical skills through hands-on training using cutting-edge software and materials, preparing them for industry challenges. They offer access to modern tools and innovative techniques, ensuring students stay aligned with current trends in civil engineering. This collaboration enhances learning by enabling practical applications of theoretical concepts. By developing a workforce attuned to industry demands, the centres contribute to students professional growth and solidify JECRC's reputation as a leader in engineering education.

31. Project Based Learning: Project-Based Learning (PBL) is a student-centered approach, Students motivate through in real-world problems, develop solutions, and apply technical skills in a practical context.

5.6 Faculty as participants in Faculty development/training activities/STTPs (15) Total Marks 15.00

Institute Marks : 15.00

Name of the faculty	Max 5 Per Faculty		
	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (CAYm3)
Dr. Krishan Kumar Saini	4.00	4.00	3.00
Mr. Hetram Sharma	3.00	4.00	3.00
Mr. Jitesh Kumar Jain	4.00	3.00	4.00
Mr. Teekam Singh	5.00	4.00	3.00
Mr. Pradeep Kumar Jain	5.00	3.00	3.00
Mr. Yogesh Kumar Agarwal	4.00	4.00	2.00
Ms. Swarnima	3.00	2.00	2.00
Mr. Sumit Saini	3.00	3.00	2.00
Mr. Ashish Boraida	3.00	3.00	2.00
Mr. Abhinav Aggarwal	3.00	3.00	2.00
Mr. Javed Ul Isalam	4.00	0.00	0.00
Mr. Narendra Sipani	2.00	2.00	2.00
Mr. Sudhir	2.00	2.00	2.00
Mr. Akhil Maheshwari	2.00	2.00	2.00
Ms. Nida Khanam	2.00	1.00	2.00
Dr. Mayank Varshney	2.00	2.00	2.00
Mr. Yogendra Kumar Sharma	2.00	2.00	2.00
Sum	53.00	44.00	38.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	16.80	18.25	18.40
Assessment [3*(Sum / 0.5RF)]	18.93	14.47	12.39

Average assessment over 3 years: 15.26

5.7 Research and Development (30) Total Marks 20.00

5.7.1 Academic Research (10)

Institute Marks : 10.00

Table 5.7.1 (A): Details of Academic Research during assessment years

S.No.	Name of Faculty	Research paper Publication	Books/Book Chapters	Ph.D. guided/Ph.D. Awarded	Patent
1	Dr. Krishan Kumar Saini	7	4	Ph.D. Awarded	3
2	Mr. Hetram Sharma	3			2
3	Mr. Jitesh Kumar Jain	3			
4	Mr. Teekam Singh	3			2
5	Mr. Pradeep Kumar Jain	3			2
6	Mr. Sumit Saini	2			
7	Mr. Ashish Boraida	3			
8	Mr. Yogesh Kumar Agarwal	3			4
9	Ms. Swarnima	7			1
10	Mr. Abhinav Aggarwal	6			2
11	Mr Narendra Kumar Jain	1			
12	Mr.Ruchi Rathore	0			1
13	Mr Shyam Sunder Sharma	0			
14	Dr. Ajay Sharma	1		Ph.D. Awarded	1
15	Dr. Sonu Singh	0		Ph.D. Awarded	
16	Mr. Narendra Sipani	0			
17	Ms. Shivangi Khandelwal	0			
18	Mr. Javed Ul Isalam	2			2
19	Mr. Sudhir	0			
20	Ms. Anjana Poonia	0			
21	Mr. Akhil Maheshwari	0			
22	Ms. Nida Khanam	0			
23	Dr. Mayank Varshney	2	1		
24	Mr. Yogendra Kumar Sharma	0			
25	Mr. Ghanshyam	0			
26	Dr. Ankitmodi	3	3		

Table 5.7.1 (B): Details of Doctorate of Philosophy

Name of Faculty Member	Ph.D awarded on	Institute	Title of thesis	Supervisor's Name
Dr. Krishan Kumar Saini	22.11.2021	MBM Jodhpur	An experimental study on durability aspect of self-compacting concrete with respect to carbonation and chloride penetration	Dr. Suresh Singh Sankhla
Dr. Sonu Singh	23.01.2024	NIT Hamirpur	Aquifer hydraulic characterization for assessment of potential ground water zones in hilly terrain	Dr. Vijay Shankar & Dr. Joseph Tripura
Dr. Ajay Sharma	00.04.24	MNIT Jaipur	Utility of construction & demolition waste aggregates as fill material for Embankments/ Earth structures	Dr. Neha Shrivastav

5.7.2 Sponsored Research (5)

Institute Marks : 0.00

2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Mission Amrit Sarovar - Jal Dharohar Sanrakshan Internship	36 Days	AICTE	200000.00
			Total Amount(X): 200000.00

2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

5.7.3 Development Activities (10)

Institute Marks : 10.00

Product Development:

Table 5.7.3 (A): Products/Models Developed

S. No.	Title
1	Rainwater Harvesting
2	Bascule Bridge
3	Types Of Shallow Foundations
4	Flyover And Underpass
5	Drainage System
6	Cable And Suspension Bridge
7	Bamboo Home Decorating
8	Bamboo Shoe Stand
9	Bamboo Boat
10	Bamboo Floating Boat
11	Bamboo Bird House
12	Bamboo Bridge
13	Bamboo Lamp
14	Bamboo Candle & Decoration
15	Bamboo Pen Stand
16	Bamboo House
17	Pervious Pavement Model
18	Pervious Concrete
19	Litecon Concrete
20	Cement Manufacturing Process
21	Aqua Seal Concrete
22	Type for Readymix Mortar Adhesives
23	Reinforcement Structures Models

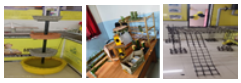


Figure 5.7.3 (A): Glimpse; Developed Products/Models

Research Laboratories

- Centre of Excellence laboratory: Ultra Tech
- Centre of Excellence laboratory: CADD Centre
- Environmental Engineering Laboratory
- Material Testing Laboratory
- Computer-Aided Design Laboratory
- Concrete and Highway laboratory
- Geotechnical laboratory
- Project Laboratory

Figure 5.7.3 (B): Glimpse; Research Laboratories

Instruction Materials:

Table 5.7.3 (B): Instruction Materials

Sr. No.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Lab manual	Provide all practical Lab Manual to student	Practical Guidance	Students	All Experimental Knowledge	PO1, PO2, PO3, PO4, PO6, PO7, PO8, PO9, PO10, PO11, PO12
2	Videos	Created by faculties	To make students aware of Latest technology	Students	Technical Knowledge	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
3	Knowledge Wall	Subject Model	Basic ideas of Experiments	Students	Basic Knowledge of Experiments	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12

4	Virtual Lab	Expression of interest for setting up virtual lab Nodal centre	For availing students the environment of Virtual Lab	Students and Faculties	Digital Experimental Technical Knowledge	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
5	Digital Library	Reference Books, E-Journals, Journals, NPTEL & SWAYAM etc.	Resources for teaching and learning	Students and Faculties	Knowledge Improvement	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12

Working Models/ Charts/ Monograms Etc.

Table 5.7.3 (C): Working Models/ Charts/ Monograms

S.No.	Title
1	Rainwater Harvesting
2	Bascule Bridge
4	Flyover And Underpass
5	Drainage System
6	Cable And Suspension Bridge
7	Bamboo Home Decorating
8	Bamboo Shoe Stand
9	Bamboo Boat
10	Bamboo Floating Boat
11	Bamboo Bird House
12	Bamboo Bridge
13	Bamboo Lamp
14	Bamboo Candle & Decoration
15	Bamboo Pen Stand
16	Bamboo House
17	Pervious Pavement Model
18	Pervious Concrete
19	Litecon Concrete
20	Cement Manufacturing Process

Figure 5.7.3 (C): Glimpse; Working Models/ Charts/ Monograms

Table 5.7.3 (D): Patent details

S.No.	Inventors	Title of Patent	Application No.	Date of Publica
1	Dr. Krishan Kumar Saini Mr. Hetram Sharma Mr. Teekam Singh Mr. Javed Ul Islam Ms. Swarnima Kumari Mr. Abhinav Aggarwal Mr. Sumit Saini Mr. Yogesh Kumar Agarwal	AN EFFICIENT STRUCTURAL DESIGN OF PREFABRICATED CONCRETE BUILDINGS FOR EARTHQUAKE RESISTANCE	202311016638	17/03/2023
2	Dr. Krishan Kumar Saini Dr. Suresh Singh Sankhala Dr. Sangeeta Parihar Dr. Tarun Gehlot Mr. Praveen Kumar Gahlot Mr. Mohit Bhoot Mr. Kapil Gandhi Mr. Pradeep Kumar Jain Mr. Yogesh Kumar Agarwal	DEVELOPMENT OF MACHINE LEARNING BASED SYSTEM FOR REAL TIME DETERMINATION OF DURABILITY OF CONCRETE MATERIALS FOR ASSISTING CIVIL ENGINEERING	202211016563 A	06/05/2022

3	Dr. Krishan Kumar Saini Dr. Suresh Singh Sankhala Dr. Sangeeta Parihar Dr. Tarun Gehlot Mr. Praveen Kumar Gahlot Mr. Mohit Bhoot Mr. Kapil Gandhi Mr. Pradeep Kumar Jain Mr. Yogesh Kumar Agarwal Mr. Naveen Kumar Meena	METHOD FOR CONSTRUCTION OF BRICK MATERIAL COMPRISING VEGETABLE FIBRES AGGLOMERATED USING A HEMP CONCRETE	202211029009 A	27/05/2022
4	Dr.S.Krishna Mohan Dr. Barmavatu Praveen Mr.Yogesh Kumar Agarwal Mr. Gourav Kalra Dr Lalit Garg Dr. K. Satya Narayana Dr Rahul Dev Gupta Dr. Ganugapenta Ramesh	MECHANISM FOR DETECTION AND PREVENTION OF WATER AND MUD INRUSH IN UNDERGROUND CONSTRUCTION USING SPATIAL ANALYSIS	202041026400 A	03/07/2020
5	Dr.A.Clementking Ms.S.Rani Mr. Neeraj Chandnani Mr. Yogesh Kumar Agarwal Dr.Kudaravalli Sai Manoj Dr Chiranjeevi Paritala Dr. Shaik Khaleel Ahamed Dr S.V.N. Sreenivasu Mr.Ανανταναταη G.V. S	WATER IMPURITY DETECTION USING INTERNET OF THINGS (IOT) FOR SMART CITY	202041025992 A	03/07/2020

5.7.4 Consultancy(from Industry) (5) Institute Marks :

2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount

2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

5.8 Faculty Performance Appraisal and Development System (FPADS) (30) Total Marks 30.00

Institute Marks : 30.00

Faculty Performance Appraisal and Development System

The primary goal of the faculty performance appraisal and development system (FPADS) is to provide a transparent framework that will encourage all faculty members to continuously improve their performance in providing excellent research and education at JECRC. The Credit Points obtained will be used to evaluate a faculty members overall performance over the course of an academic year. Faculty members are advised to attend FDP's organised internally/externally for their academic growth.

The following uses will be made of the outcomes of the evaluation.

1. Granting yearly pay band increments.

2. Promotion or career advancement award.

3. Every faculty members ongoing growth is monitored and recorded for quick reference and feedback from students is also collected. Further appreciation/advisory is given to faculty members based on their performance.

4. Faculty performance appraisal system motivates the faculty members their self-improvement including opting for higher study.

The report from the faculty performance appraisal system is divided into two sections.

- Faculty members are required to complete a self-assessment.
- Remarks of HOD as the Reporting Officer, IQAC as Reviewing Officer and Principal of the Institute as Approving Officer.

The credit points to be earned by faculty members are categorised into five sections given below:

Jaipur Engineering College and Research Centre, Jaipur

FACULTY APPRAISAL FORM (Session 2023-24)

(September-2022 onwards)

Total 200 points

Name of Faculty Member: Department:

Designation:

S. No.	Item Name	Points obtained	Annexure attached with page No.
A)	**Academic Activities (60)**		
	1. Total theory subjects taught during the year..... (20) 70% students getting more than B grade or 70% marks in theory subject Otherwise Prorata. 2. Student Feedback & Action Taken Report (10). 3.Course file based on OBE (5) 4.Assessment and evaluation process of the affiliating university & other university (5). 5. Teaching Learning: (10) • Certification Courses Earned through MOOCs (SWAYAM/NPTEL/NITTTR/etc.) X 5 • Online lectures for SWAYAM/NPTEL/other reputed platform X (5) • Value added courses or other facilities development/ Experiments using Virtual Lab. X 5 • Video Lecture on portal/ Innovation in teaching learning X (5). 6.Faculty Development Program or workshop attended by faculty (10) • Number of FDP attended X (5 for 5 days/ one week or above) • Number of workshop attended X (1 for 1-Day workshop; 2 for 2-4 days workshop; 5 for 5 days / one week or above).		
B)	**Research Activities (50)**		

	1. Paper Publication • Number of papers in SCI/SCIE/ESIC/ web of science Journals X (15). • Number of paper published in Scopus or UGC approved Journals X (10). • Number of other Journals ISSN publication X (5). • Number of Paper in Indexed conferences X (5). • Number of book chapter published in proceeding with ISSN/ISBN NO. X (5) • Number of Patent published X (5). • Book / Monograph publication with ISBN No.X (5) • Number of Patent granted/ Research project granted X (10) • Registered for Ph.D., Ph.D. or M.Tech Co-Supervisor X (5)		
C)	**Extension Activities (60)**		
	1. .Activity organized : (20) • National conference of repute X (5) • International conference of repute X (10) • FDP /Workshop (AICTE, TEQIP, NITTTR, etc.) Expert Talk X (5) • Expert Talk/Lecture X (5) • Hackathon/ Ideathon / Boatathon (5) • Skill Development Activity (5) 2. TPO/IQAC team member (20). 3. (A)Consultancy per lacs X (5), (B) Collaboration with any other institute or industry X (5) 4. Any award received other then JECRC (5). • Session chair in conference • Guest lecture/ Invited talk • Social awards / etc. 5. Extra Curricular Activities (5) • Coordinator sports and games • Coordinator Departmental clubs • Coordinator Social Activities like Soch / Zarurat / Aashyein / Suhasini /SRC/ FFJ etc. • Coordinator of technical / social or any other activity.		
D)	**Administrative Activities (10)**		
	1. Member of Institutional Bodies or Member of examination Cell (5) 2. Class Coordinator or Time Table Coordinator (5) 3. Mentors-(Academic/Placement/NPTEL, etc.) (5) 4. Industrial Tour and Visit Coordinator/ E-magazine (5) 5.Virtual Laboratory / Laboratory Coordinator or Project / Seminar Coordinator (5) 6. Departmental SDO / NAAC/NBA (5)		
E)	**HOD recommendation (20)**		
Total (200)			

Note: HOD will verify the documentary proof.

Signature of Faculty Signature of HOD IQAC (Reviewing Officer)

Signature of Principal

Jaipur Engineering College and Research Centre, Jaipur

FACULTY APPRAISAL FORM (Session 2023-24)

(September-2022 onwards)

Total 200 points

Name of Faculty Member: Department:

Designation:

Checklist for MTT analysis for the year 2022–23

Subject: No. of Students: Semester and Section:

S. No	Details	MTT-1		MTT-2	
		Yes	No	Yes	No
1	Selection of paper as per rule				
2	MTT paper as per RTU Guidelines				
3	Solution submitted				
4	Copies shown to students				
5	Notice for Grievance				
6	Analysis based on CO submitted				
7	Target achieved or not (No. of students having > 60% marks:)				
	If not action taken				
9	Assignment based on IES, GATE, reference book etc (minimum 50 questions in each assignment)				
10	Evaluation and discussion of assignment				

MTT-1: Signature of HOD Signature of faculty

MTT-2: Signature of HOD Signature of faculty

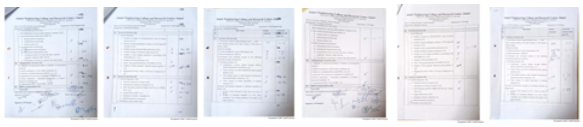


Figure 5.8 (A): Sample Faculty Appraisal Forms

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10) Total Marks 10.00

Institute Marks : 10.00

Institute has a policy to invite / appoint visiting faculty, adjunct faculty and Emeritus Professor as and when demanded by the Program for particular academic needs of the program. Such type of appointment is apart from regular faculty members.

Table 5.9 (A) List of Visiting/Adjunct/Emeritus Faculty (2023-24)

S.No.	Name of Faculty	Course	Hrs
1	Mr. Ajay Swarnkar	Quantitative Ability	20
		Logical Reasoning	10
		Verbal Ability	6
		Human Resources	8
		Group Discussion	8
			Total Hours = 52

Table 5.9 (B) List of Visiting/Adjunct/Emeritus Faculty (2022-23)

S.No.	Name of Faculty	Course	Hrs
1	Mr. Prasad C	Quantitative Ability	20
		Logical Reasoning	10
		Verbal Ability	6
		Human Resources	8
		Group Discussion	8
			Total Hours = 52

Table 5.9 (C) List of Visiting/Adjunct/Emeritus Faculty (2021-22)

S.No.	Name of Faculty	Course	Hrs
1	Mr. Deepak Guruswamy	Quantitative Ability	20
		Logical Reasoning	10
		Verbal Ability	6
		Human Resources	8
		Group Discussion	8
			Total Hours = 52

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 30.00

Institute Marks : 30.00

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Basic Civil Engineering Lab (1FY3- 27) / (2FY3-27)	30	• Metric Chain • Tape • Cross-Staff • Prismatic Compass with Stand • • Surveyor Compass with Stand • • Auto Level with Stand • Tilting Level with Stand • Dumpy Level with Stand • Total Station with Stand • pH Meter (Digital)	32hrs	Ghanshyam Choudhary	Technical Assistant	Diploma in Civil
2	Surveying Lab (3CE4-21)	26	• Total Station with Stand • Auto Level with Stand • Tilting Level with Stand • Theodolite With Stand • Dumpy Level with Stand • Surveyor Compass with Stand • Prismatic Compass with Stand • Prism Square • Optical Square • Cross-staff with Stand • Hand Level • Abney Level • Chains • Wooden Pegs • Arrow	9hrs	Kamlesh Bairwa	Technical Assistant	Diploma in Civil
3	Fluid Mechanics Lab (3CE4-22)	26	• Apparatus of Bernoulli's theorem • Apparatus of Venturi-meter • Apparatus of Orifice-meter • Apparatus of Metacentric Height • Apparatus of orifice • Apparatus of mouthpiece • Apparatus of V-notch	6hrs	Hemraj Saini	Technical Assistant	Diploma in Civil
4	Civil Engineering Materials Lab (3CE4-24)	26	• CTM machine • Square Water Tank • Impact Testing Machine • Measuring Tap	6hrs	Kamlesh Bairwa	Technical Assistant	Diploma in Civil
5	Geology Lab (3CE4-25)	26	• Mineral Samples • Rock Samples • Charts of Geological Structures • Maps Models of Geological Structures	6hrs	Hemraj Saini	Technical Assistant	Diploma in Civil
6	Material Testing Lab (4CE4-21)	26	• Universal Testing Machine • Spring Testing Machine • Torsion Testing Machine • Impact Testing Machine • Hardness Testing Machine • Fatigue Testing Machine	6hrs	Prem Phoolfagar	Technical Assistant	Diploma in Civil
7	Hydraulics Engineering Lab (4CE4-22)	26	• Apparatus of minor losses • Apparatus of frictional losses • Apparatus of Impact of Jet • Apparatus of Venturi-meter • Apparatus of Hydraulic Flume	6hrs	Hemraj Saini	Technical Assistant	Diploma in Civil
8	Advanced Surveying Lab (4CE4-24	26	• Total Station with Stand • Theodolite With Stand • Cross Staff Stand • Fiber Tapes • Plane Table Instrument Box • Levelling Staff • Plumbing Fork	6hrs	Kamlesh Bairwa	Technical Assistant	Diploma in Civil
9	Concrete Lab (4CE4-25)	26	• Slump Test Apparatus • Vicat Apparatus • Weighing Machine • Flow Table Apparatus • Brass Sieve Set • Compressive Testing Machine • Compaction Factor Apparatus • Vibrating Machine • Le- Chatelier Apparatus • Pycnometer Water Measuring Jar	9hrs	Kamlesh Bairwa	Technical Assistant	Diploma in Civil
10	Geotechnical Engineering Lab (5CE4-22)	20	• Hydrometer • Pycnometer • Casagrande's apparatus • Glass Plate tool box • Core Cutter • Sand Replacement apparatus • Proctor Test Apparatus • Unconfined Compression Test • Direct Shear Test • Tri-axial Test • Oven dry • Swelling Pressure • CBR Apparatus • Consolidometer • Falling Head/ Constant Head Meter • Weighing Machine • Cone Penetrometer • IS Sieve	18hrs	Prem Phoolfagar	Technical Assistant	Diploma in Civil
11	Environmental Engineering Design and Lab (6CE4-21)	20	• pH Value Apparatus (Digital) • Crucible • Dedicator • Digital D.O.Meter • BOD Incubator • COD Apparatus • Model of Sanitary Arrangements • Conductivity • Drying oven • Conical flask • Wash bottle • Funnel • Standard flask • Brunette stand • Pipette • Beaker 500/200/100/50 ml • Measuring cylinder 100/10 ml	18hrs	Prem Phoolfagar	Technical Assistant	Diploma in Civil
12	Road Material Testing Lab (7CE4-21)	20	• Aggregate Impact Test Apparatus • Weighing Machine • Standard Thickness Gauge • Length Gauge • Set of IS Sieves • Los Angeles Abrasion Testing Machine • Tar Viscometer • Water Bath • Ductility Test Machine • Ring and Ball Apparatus • Marshall Stability Test Machine with accessories • Oven • Enamel Tray • Cylindrical Measures	12hrs	Kamlesh Bairwa	Technical Assistant	Diploma in Civil

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25) Total Marks 25.00

Institute Marks : 25.00

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	CAD Centre (Centre of Excellence)	MOU signed with CAD Lab, Train for CAD, 3D printing & soft tools	For bridge the skill gap between the individuals & industry.	Students	Software Knowledge & Skill Enhancement for career	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
2	Ultra Tech (Centre of Excellence)	MOU signed with Ultra Tech Centre, Organize technical seminars, workshops, and training Programmes & arrange industrial visits, seminars and guest lectures	For Mentoring, Guidenance & Developing skills in the area of construction industry	Students	Research Development & Skill Enhancement for career	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
3	Lab manual	Provide all practical Lab Manual to student	Practical Guidance	Students	All Experimental Knowledge	PO1, PO2, PO3, PO4, PO6, PO7, PO8, PO9, PO10, PO11, PO12
4	Videos	Created by faculties	To make students aware of Latest technology	Students	Technical Knowledge	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
5	Knowledge Wall	Subject Model	Basic ideas of Experiments	Students	Basic Knowledge of Experiments	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
6	Virtual Lab	Expression of interest for setting up virtual lab Nodal centre	For availing students the environment of Virtual Lab	Students and Faculties	Digital Experimental Technical Knowledge	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
7	Smart Class/ Lab Facility	Ethernet / Wi-Fi / Projector	Providing high Speed connectivity & Projector	Students and Faculties	Project, Seminar, Subjects	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
8	Digital Library	Reference Books, E-Journals, Journals, NPTEL & SWAYAM etc.	Resources for teaching and learning	Students and Faculties	Knowledge Improvement	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12

6.3 Laboratories: Maintenance and overall ambiance (10) Total Marks 10.00

Institute Marks : 10.00

Maintenance:

- All the Laboratories in the Department are well equipped with Components and Equipment required for conducting experiments given in the Syllabus and beyond.
- We have Projector Facilities & Air-Conditioned **Laboratory** in Research & Development Laboratory, CAD Laboratory etc.
- All the Laboratories are equipped with good technical supporting staff available during working hours and beyond.
- Individual student performs his assigned Laboratories work.
- All the Laboratories have white board facility.
- The Laboratory has good ambience as well as equipment, which are arranged in a proper way that students feel very comfortable for doing their experiments.
- Informative notice boards containing safety, Do's & Don'ts are maintained.
- As per the requirements minor repairs are carried out by the technical staff.
- Major repairs are outsourced as per the institutional policy.
- Department maintains a stock register of equipment purchased.

Code of conduct for the laboratories:

- Wearing ID card is mandatory.
- The students have to come prepared for the experiments as per the cycle of experiments.
- Regularity and punctuality must be adhered to without fail.
- The students shall carry observation book and Laboratory record duly completed compulsorily.
- Attendance for all the laboratory and internal tests is compulsory.
- Students must handle laboratory equipment as per the instructions and should help in maintaining the laboratory clean and tidy.
- Disciplinary actions are taken against any student found indulging or meddling with systems/equipment configuration.

Table 6.3 (A): Lab Audit 2023-24

Sr. No.	Laboratory Name	Laboratory Incharge	Room No.	Internal Auditors	External Auditors
1	Basic Civil Engineering Laboratory	Mr. Jitesh Kumar Jain & Mr. Yogendra	CLG-19	Dr. Ruchi Mathur & Mr. Hetram Sharma	Dr. Mayank Varshney & Mr. Pankaj Saini
2	Fluid Mechanics Laboratory	Mr. Ashish Boraida	CLG-13	Dr. M. P. Singh & Dr. Ajay Sharma	Dr. Mayank Varshney & Mr. Pankaj Saini
3	Geology Laboratory	Dr. Ankit Modi & Mr. Sumit Saini	CF-18	Dr. Prerak Bhardwaj & Mr. Ashish Barodia	Dr. Mayank Varshney & Mr. Pankaj Saini
4	Civil Engineering Materials Laboratory	Mr. Ashish Boraida & Ms. Shivangi Khandelwal	CLG-9	Dr. Sandeep Vyas & Mr. Javed Ul Islam	Dr. Mayank Varshney & Mr. Pankaj Saini
5	Surveying Laboratory	Mr. Hetram Sharma & Ms. Swarnima	CLG-19	Dr. Ruchi Mathur & Mr. Abhinav Aggarwal	Dr. Mayank Varshney & Mr. Pankaj Saini
6	Material Testing Laboratory	Mr. Sumit Saini	DG-03	Dr. M. P. Singh & Dr. Ankit Modi	Dr. Mayank Varshney & Mr. Pankaj Saini
7	Geotechnical Engineering Laboratory	Mr. Javed Ul Islam & Mr. Narendra Sipani	CLG-10	Dr. Prerak Bhardwaj & Mr. Teekam Singh	Dr. Mayank Varshney & Mr. Pankaj Saini
8	Road Material Testing Laboratory	Mr. Jitesh Kumar Jain	CLG-17	Dr. Sandeep Vyas & Mr. Pradeep Kumar Jain	Dr. Mayank Varshney & Mr. Pankaj Saini
9	Hydraulic Engineering Laboratory	Mr. Ashish Boraida	CLG-13	Dr. M. P. Singh & Mr. Sumit Saini	Dr. Mayank Varshney & Mr. Pankaj Saini
10	Advanced Surveying Laboratory	Mr. Narendra Jain & Mr. Abhinav Aggarwal	CLG-19	Dr. Ruchi Mathur & Ms. Swarnima	Dr. Mayank Varshney & Mr. Pankaj Saini
11	Concrete Laboratory	Dr. Ajay Sharma	CLG-9	Dr. Sandeep Vyas & Mr. Jitesh Kumar Jain	Dr. Mayank Varshney & Mr. Pankaj Saini
12	Environmental Engineering Design and Laboratory	Dr. Sonu Singh	CF-16	Dr. Prerak Bhardwaj & Mr. Yogesh Kumar Agarwal	Dr. Mayank Varshney & Mr. Pankaj Saini

Table 6.3 (B): Lab Audit 2022-23

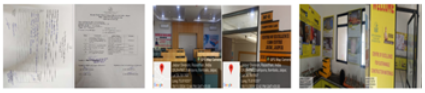
Sr. No.	Laboratory Name	Laboratory Incharge	Room No.	Internal Auditors	External Auditors
1	Basic Civil Engineering Laboratory	Mr. Jitesh Kumar Jain & Mr. Yogendra	CLG-19	Dr. Ruchi Mathur & Mr. Teekam Singh	Dr. Mayank Varshney & Mr. Pankaj Saini

2	Fluid Mechanics Laboratory	Mr. Ashish Boraida	CLG-13	Dr. M. P. Singh & Mr. Jitesh Kumar Jain	Dr. Mayank Varshney & Mr. Pankaj Saini
3	Geology Laboratory	Dr. Ankit Modi & Mr. Ashish Boraida &	CF-18	Dr. Prerak Bhardwaj & Mr. Pradeep Kumar Jain	Dr. Mayank Varshney & Mr. Pankaj Saini
4	Civil Engineering Materials Laboratory	Mr. Narendra Sipani & Ms. Shivangi Khandelwal	CLG-9	Dr. Sandeep Vyas & Mr. Abhinav Aggarwal	Dr. Mayank Varshney & Mr. Pankaj Saini
5	Surveying Laboratory	Mr. Hetram Sharma & Ms. Swarnima	CLG-19	Dr. Ruchi Mathur & Mr. Javed Ul Islam	Dr. Mayank Varshney & Mr. Pankaj Saini
6	Material Testing Laboratory	Mr. Sumit Saini	DG-03	Dr. M.P. Singh & Mr. Narendra Sipani	Dr. Mayank Varshney & Mr. Pankaj Saini
7	Geotechnical Engineering Laboratory	Mr. Narendra Sipani & Mr. Javed Ul Islam	CLG-10	Dr. Prerak Bhardwaj & Ms. Swarnima	Dr. Mayank Varshney & Mr. Pankaj Saini
8	Road Material Testing Laboratory	Mr. Jitesh Kumar Jain	CLG-17	Dr. Sandeep Vyas & Mr. Sumit Saini	Dr. Mayank Varshney & Mr. Pankaj Saini
9	Hydraulic Engineering Laboratory	Mr. Ashish Boraida	CLG-13	Dr. M. P. Singh & Mr. Narendra Sipani	Dr. Mayank Varshney & Mr. Pankaj Saini
10	Advanced Surveying Laboratory	Mr. Hetram Sharma & Mr. Abhinav Aggarwal	CLG-19	Dr. Ruchi Mathur & Mr. Yogesh Kumar Agarwal	Dr. Mayank Varshney & Mr. Pankaj Saini
11	Concrete Laboratory	Mr. Yogesh Kumar Agarwal & Mr. Sudhir Panwar	CLG-9	Dr. Sandeep Vyas & Mr. Hetram Sharma	Dr. Mayank Varshney & Mr. Pankaj Saini
12	Environmental Engineering Design and Laboratory	Mr. Javed Ul Islam & Ms. Anjana Poonia	CF-16	Dr. Prerak Bhardwaj & Mr. Ashish Barodia	Dr. Mayank Varshney & Mr. Pankaj Saini

Table 6.3 (C): Lab Audit 2021-22

Sr. No.	Laboratory Name	Laboratory Incharge	Room No.	Internal Auditors	External Auditors
1	Basic Civil Engineering Laboratory	Mr. Jitesh Kumar Jain & Mr. Yogendra	CLG-19	Dr. Ruchi Mathur & Mr. Jitesh Kumar Jain	Dr. Mayank Varshney & Mr. Pankaj Saini
2	Fluid Mechanics Laboratory	Mr. Ashish Boraida	CLG-13	Dr. M. P. Singh & Mr. Narendra Sipani	Dr. Mayank Varshney & Mr. Pankaj Saini
3	Geology Laboratory	Mr. Pradeep Kumar Jain	CF-18	Dr. Prerak Bhardwaj & Mr. Teekam Singh	Dr. Mayank Varshney & Mr. Pankaj Saini
4	Civil Engineering Materials Laboratory	Mr. Narendra Sipani & Ms. Shivangi Khandelwal	CLG-9	Dr. Sandeep Vyas & Mr. Hitesh Nagar	Dr. Mayank Varshney & Mr. Pankaj Saini
5	Surveying Laboratory	Mr. Hetram Sharma & Ms. Swarnima	CLG-19	Dr. Ruchi Mathur & Mr. Sumit Saini	Dr. Mayank Varshney & Mr. Pankaj Saini
6	Material Testing Laboratory	Mr. Sumit Saini	DG-03	Dr. M.P. Singh & Mr. Hitesh Nagar	Dr. Mayank Varshney & Mr. Pankaj Saini
7	Geotechnical Engineering Laboratory	Dr. Ankit Modi & Mr. Hitesh Nagar	CLG-10	Dr. Prerak Bhardwaj & Mr. Abhinav Aggarwal	Dr. Mayank Varshney & Mr. Pankaj Saini
8	Road Material Testing Laboratory	Mr. Jitesh Kumar Jain	CLG-17	Dr. Sandeep Vyas & Mr. Pradeep Kumar Jain	Dr. Mayank Varshney & Mr. Pankaj Saini
9	Hydraulic Engineering Laboratory	Mr. Ashish Boraida	CLG-13	Dr. M. P. Singh & Mr. Yogesh Kumar Agarwal	Dr. Mayank Varshney & Mr. Pankaj Saini
10	Advanced Surveying Laboratory	Mr. Hetram Sharma & Mr. Abhinav Aggarwal	CLG-19	Dr. Ruchi Mathur & Mr. Mr. Ashish Barodia	Dr. Mayank Varshney & Mr. Pankaj Saini

11	Concrete Laboratory	Mr. Yogesh Kumar Agarwal & Mr. Sudhir Panwar	CLG-9	Dr. Sandeep Vyas & Ms. Nida Khanam	Dr. Mayank Varshney & Mr. Pankaj Saini
12	Environmental Engineering Design and Laboratory	Mr. Narendra Sipani & Ms. Anjana Poonia	CF-16	Dr. Prerak Bhardwaj & Mr. Hetram Sharma	Dr. Mayank Varshney & Mr. Pankaj Saini



(A) (B) (C)

Figure 6.3 (A): (A) Sample of Laboratory Audit Report (2023-24) (B) COE CADD Centre (C) COE Ultra Tech

The laboratory maintenance schedule in Civil Engineering, JECRC is as below:

Table 6.3 (D): Laboratory Maintenance Schedule

Sr. No	Task	Frequency Daily/ Weekly/ Monthly/ Yearly	Performed By
1	Laboratory cleaning	Daily	Cleaning staff
2	Checking, repairing and adjustment of measuring instruments	Monthly	Technical Assistant
3	Alignment and greasing of machines	-	Technical Assistant
4.	Use of blowers for cleaning of Computer accessories	Monthly	Attendant/Sub-staff
5.	Desktop table and accessories repairing	Monthly	Development wing
6.	Testing and repairing of Computer accessories	Quarterly	ICT Cell
7.	Projectors and other ICT facility maintenance	Monthly	ICT Cell
8.	Testing of Earthling and Loose wiring	Quarterly	Technical Assistant

Overall Ambiance Maintenance: The officer and staff deployment for maintenance repair and services are given below:

Table 6.3 (E): Overall Ambiance Maintenance

Sr. No.	Items	Officers concerned for development, maintenance and repair
1	Land, building and furniture	Estate and Establishment Officer, Development Officer, Support Staff
2	Laboratory Equipment	HOD, Faculty-in-charge, Administrator and Technical Support Staff
3	Electrical Maintenance	Development Officer, Support Staff
4	AC maintenance	Development Officer, Support Staff
5	Computer/ ICT	Head ICT Cell, System Engineers and Technical Support Staff
6	Other Resource Management	Resource Management Officer and Support Staff

6.4 Project laboratories (5) Total Marks 5.00

Institute Marks : 5.00

Project laboratories; Facilities:

The Civil Engineering Department is equipped with a dedicated **Project Laboratory** designed to support both academic and research-oriented projects. This state-of-the-art facility includes:

- **Project Models:** A collection of physical models that demonstrate innovative engineering designs and concepts, aiding in better visualization and understanding.
- **Charts and Monograms:** Comprehensive visual aids that simplify complex engineering principles, enhancing the learning process.

This laboratory serves as a vibrant hub for students, facilitating project development, and presentations. Its contribution to practical and experiential learning has been significant, ensuring that students are industry-ready and capable of addressing real-world engineering challenges.

Centres of Excellence:

In addition to the Project Laboratory, the department hosts two Centres of Excellence that enhance research capabilities and promote industry-academia collaboration:

- **Centre of Excellence in Sustainable Development (Established by UltraTech):** Focuses on sustainable practices in civil engineering, providing students with exposure to cutting-edge materials and techniques in the construction industry.
- **Centre of Excellence in CAD Laboratory (Established by CADD Centre):** Specializes in advanced computer-aided design and modeling, ensuring students are proficient in modern design software and methodologies.

These centres play a crucial role in fostering innovation and enhancing project work, benefiting both the institute and the industry through mutual collaboration.

Additional Laboratories Contributing to Projects and Research:

The regular laboratories of the Civil Engineering Department also play a significant role in supporting project and research activities. These include:

- Environmental Engineering Laboratory
- Material Testing Laboratory
- Computer-Aided Design Laboratory
- Concrete and Highway Laboratory
- Geotechnical Laboratory

Project laboratories; Utilization:

The facilities in the Project Laboratory and Centres of Excellence are utilized for various academic, research, and industry-focused activities, as outlined below:

Student Projects:

- Facilitates the development of innovative and practical project models.
- Provides resources and guidance for undergraduate project work.
- Supports interdisciplinary research projects in civil engineering.

Industry Collaborations:

- Enables joint projects and research initiatives with industry partners.
- Promotes the adoption of sustainable and advanced techniques through industry-sponsored programs.
- Offers students exposure to real-world challenges and solutions in collaboration with industry experts.

Hands-on Practices:

- Provides opportunities for students to use advanced tools and equipment for practical learning.
- Enhances proficiency in utilizing modern technologies and methodologies relevant to civil engineering.

Field Application Knowledge:

- Facilitates the application of theoretical concepts to real-world scenarios through projects and research activities.
- Helps students understand and address field challenges using laboratory findings and simulations.

Skill Development:

- Enhances students' skills in designing, testing, and analyzing engineering solutions.
- Promotes proficiency in software tools through the Centre of Excellence in CAD Lab.

Workshops and Seminars:

- Regularly hosts training sessions, workshops, and expert lectures to keep students updated on the latest industry trends and technologies.

Sustainability Research:

- The Centre of Excellence in Sustainable Development focuses on eco-friendly practices and materials, equipping students with knowledge of sustainable engineering principles.

These facilities contribute holistically to the students academic growth, industry readiness, and research aptitude, making them well-equipped for successful engineering careers.

Figure 6.4 (B): Glimpse; Project Models

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Basic Civil Engineering Lab	First Aid Box, Fire extinguisher, Mask, Gloves, Shoes, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
2	Civil Engineering Materials Lab	First Aid Box, Fire extinguisher, Safety Glasses or Goggles, Work Gloves, Hearing Protection, Dust Masks/Respirators, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
3	Concrete Lab	First Aid Box, Fire extinguisher, Safety Glasses or Goggles, Hearing Protection, Dust Masks/Respirators, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
4	Environmental Engineering Design and Lab	First Aid Box, Fire extinguisher, Proper Labeling, Chemical Storage, Gloves, Face Masks/Respirators, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
5	Fluid Mechanics Lab	First Aid Box, Fire extinguisher, Sprinkler, Electrical Fuses of correct ratings, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
6	Geology Lab	First Aid Box, Fire extinguisher, Gloves, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
7	Geotechnical Engineering Lab	First Aid Box, Fire extinguisher, use earplugs, Wear Dust Masks/Respirators, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
8	Advanced Surveying Lab	First Aid Box, Fire extinguisher, Mask, Gloves, Shoes, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
9	Hydraulic Engineering Lab	First Aid Box, Fire extinguisher, First-Aid Box, Sprinkler, Electrical Fuses of correct ratings, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
10	Road Material Testing Lab	First Aid Box, Fire extinguisher, Safety Goggles, Rubber Gloves, Cotton Gloves, Welding Apron, Dust Proof Mask, Safety Helmet, Asbestos Gloves, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
11	Surveying Lab	First Aid Box, Fire extinguisher, Mask, Gloves, Shoes, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding
12	Material Testing Lab	First Aid Box, Fire extinguisher, First-Aid Box, Sprinkler, Electrical Fuses of correct ratings, Display of Laboratory instructions/guidelines in the laboratory, Calibrated, ensured proper wiring and grounding

7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Total Marks 20.00

Institute Marks : 20.00

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.89	2.14	• Performance data suggests students struggle with integrating mathematical and scientific knowledge effectively in practical problem-solving scenarios. • The lower-than-expected attainment value points to a need for enhanced focus on core engineering fundamentals and applied learning approaches in Civil Engineering coursework.
Actions; 1. Faculty members of the relevant subjects have shared numerical and analytical problems with the students and evaluated their performance to implement the action. 2. Students have been encouraged to voice their difficulties in design and numerical subjects, and the concerned teachers have resolved them. 3. Remedial/Extra classes have been arranged. Following Technical activities have been organized by department to achieve the target: 1. Industrial visit at Jantar Mantar. 2. Organized Expert Lecture on Importance of Software for Civil Engineering. 3. Organized Survey Camp – 2023-24 4. Organized Workshop on “Virtual Labs” In association with IIT, Delhi. 5. Organized Technical Event: “DEXTERITY”. 6. Organized Technical Event Cad-Darshan (AutoCAD Competition). 7. Organized “National Conference on Emerging Trends in Civil Engineering for Sustainable Development (NCETCESD -2023)”. 8. Organized Carrier Guidance Seminar on Civil Software. 9. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 10. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 2 : Problem Analysis			
PO 2	2.76	2.02	• Low PO2 attainment suggests students face challenges analyzing complex Civil Engineering problems with core principles. • Students show difficulty in researching and formulating solutions based on literature. • Gaps indicate a need to enhance analytical skills for substantiated problem-solving.
Actions; 1. Faculty members of the concerned subjects have shared numerical and analytical problems with the students and evaluated their solutions to fulfill the action taken. 2. Students were motivated and asked about their difficulties in design and numerical subjects, and these concerns have been addressed by the subject teachers. 3. Remedial/Extra classes have been arranged Following Technical activities have been organized by department to achieve the target: 1. Industrial visit at Jantar Mantar 2. Organized Expert Lecture on Importance of Software for Civil Engineering 3. Organized Survey Camp – 2023-24 4. Organized Workshop on “Virtual Labs” In association with IIT, Delhi 5. Organized Technical Event: “DEXTERITY” 6. Organized Technical Event Cad-Darshan (AutoCAD Competition) 7. Organized “National Conference on Emerging Trends in Civil Engineering for Sustainable Development (NCETCESD -2023)” 8. Organized Carrier Guidance Seminar on Civil Software 9. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 10. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 3 : Design/development of Solutions			
PO 3	2.26	1.61	• Results indicate gaps in student’s abilities to design Civil Engineering components or processes with societal and cultural awareness. • The discrepancy highlights a need for stronger emphasis on integrating health, safety, and environmental considerations into design skills.
Actions; 1. Various technical sessions were organized by industrial experts and academicians. 2. Students were encouraged and motivated enrolling in online courses such as NPTEL, Coursera, etc. 3. To enhance indirect attainment, students were motivated to participate in projects and training-related activities. Following Technical activities have been organized by department to achieve the target: 1. Organized Technical Event: “DEXTERITY”. 2. Organized Technical Event Cad-Darshan (AutoCAD Competition). 3. Organized Expert Lecture on Importance of Software for Civil Engineering. 4. Organized Carrier Guidance Seminar on Civil Software. 5. Organized Workshop on “Virtual Labs” In association with IIT, Delhi. 6. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 7. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.17	1.53	• Low attainment for PO4 indicates students face challenges in using research-based methods to investigate and solve complex Civil Engineering problems. • Assessment data shows gaps in student’s skills in experiment design, data analysis, and synthesis for valid conclusions. • Results suggest a need to strengthen research and analytical competencies to improve problem investigation and solution validation skills.
Actions; 1. Conducted Virtual Labs workshop to enhance the knowledge of laboratory experiments. 2. Remedial/extra classes were arranged for subjects with low attainments. 3. Faculty members were advised to arrange site visits and workshops for students so they can tackle typical design problems. 4. To enhance indirect attainment, students were motivated to engage in projects and training-related activities. Following Technical activities have been organized by department to achieve the target: 1. Organized “National Conference on Emerging Trends in Civil Engineering for Sustainable Development (NCETCESD -2023)”. 2. Organized Technical Event Cad-Darshan (AutoCAD Competition).			
PO 5 : Modern Tool Usage			
PO 5	2.14	1.47	• Low attainment for PO5 suggests students struggle with selecting and applying modern engineering and IT tools effectively in Civil Engineering tasks. • Results show gaps in students’ ability to use prediction and modeling tools, indicating a need for improved technical skills. • The discrepancy highlights a need for enhanced training in tool usage and an understanding of tool limitations in complex engineering applications.
Actions; 1. Students were encouraged to participate in various academic activities, including project exhibitions, quizzes, and industrial visits on various platforms. 2. Faculty members were encouraged to learn and integrate the knowledge of latest software tools into their teaching. Following Technical activities have been organized by department to achieve the target: 1. Organized Expert Lecture on Importance of Software for Civil Engineering. 2. Organized Carrier Guidance Seminar on Civil Software. 3. Organized Workshop on “Virtual Labs” In association with IIT, Delhi. 4. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 5. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 6 : The Engineer and Society			
PO 6	2.26	1.58	• Results indicate gaps in understanding the responsibilities and impacts of engineering decisions on society and public welfare. • This discrepancy highlights a need for stronger emphasis on integrating contextual knowledge and ethical considerations into professional practice.
Actions; 1. Students were motivated to make projects to address various issues and challenges of society and environment. 2. Students were motivated to take active participation in various engineering events to know about the role of engineering in development of society. Following Technical activities have been organized by department to achieve the target: 1. Organized Engineer’s Day Celebration-2023. 2. Organized Teacher’s Day Celebration 2023. 3. Organized Hindi Diwas Celebration 2023. 4. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 5. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 7 : Environment and Sustainability			
PO 7	2.01	1.40	• This discrepancy indicates a need for stronger focus on sustainability and environmental responsibility in engineering practices.

Actions: 1. To increase the awareness about environment and sustainability from the basic level, Environmental related Event has been organized in the department. 2. It was observed that role of students towards environment and global awareness was satisfactory. Following Technical activities have been organized by department to achieve the target: 1. Organized Event: “Best Out of Waste”. 2. Organized Technical Event: “DEXTERITY”. 3. Organized Technical Event Cad-Darshan (AutoCAD Competition). 4. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 5. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 8 : Ethics			
PO 8	1.68	1.20	• The discrepancy highlights a need to strengthen ethical awareness and responsibility in professional conduct.
Actions; 1. Students are able to apply ethical principal and responsibilities of engineering practice. Following Technical activities have been organized by department to achieve the target: 1. Organized “National Conference on Emerging Trends in Civil Engineering for Sustainable Development (NCETCESD -2023)”. 2. Organized Technical Event Cad-Darshan (AutoCAD Competition). 3. Organized Technical Event: “DEXTERITY”. 4. Organized Event: “Best Out of Waste”. 5. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 6. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 9 : Individual and Team Work			
PO 9	2.04	1.51	• Low attainment for PO9 suggests students struggle with effective teamwork and leadership in diverse, multidisciplinary Civil Engineering settings. • The discrepancy highlights a need to improve skills in both independent work and team dynamics.
Actions: 1. Group based project allocation and implementation. 2. Individual seminar presentations by the students. 3. Orientation of Projects in the 6th Semester. Following Technical activities have been organized by department to achieve the target: 1. Organized Event: “Best Out of Waste”. 2. Organized Technical Event: “DEXTERITY”. 3. Organized Technical Event Cad-Darshan (AutoCAD Competition). 4. Organized Survey Camp – 2023-24. 5. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 6. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 10 : Communication			
PO 10	1.96	1.44	• Results show gaps in writing clear reports, design documentation, and delivering effective presentations. • The discrepancy highlights a need to enhance communication skills, particularly in technical writing and presenting engineering ideas clearly.
Actions: 1. Soft skill classes for the students. 2. English module integration in Campus Recruitment Training (CRT) program for 6th semester students. 3. Individual seminar and presentations for students. Following Technical activities have been organized by department to achieve the target: 1. Organized Seminar on Pre-Placement talk. 2. Organized CRT Programme. 3. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 4. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 11 : Project Management and Finance			
PO 11	1.82	1.24	• Results indicate gaps in student’s ability to manage projects effectively, both individually and in team leadership roles. • The discrepancy highlights a need for stronger integration of management principles in project-based learning and team environments.
Actions: 1. Group based project allocation. 2. Participation in various academic and extra-curricular activities as an individual and team. 3. Faculty members were motivated to learn and incorporate the knowledge of new software tools in teaching Following Technical activities have been organized by department to achieve the target: 1. Organized Applications of AutoCAD in Civil Engg. Drawing 2. Organized Seminar on “Career Guidance on Software" 3. Organized Seminar on Importance of Civil Software & Internship 4. Organized Workshop on StadPro 2023 5. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 6. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PO 12 : Life-long Learning			
PO 12	2.20	1.61	• Results show limited preparedness and ability to engage in independent learning beyond the academic setting. • The discrepancy highlights a need for increased emphasis on fostering self-directed learning and adapting to technological advancements in Civil Engineering.
Actions: 1. Guest lectures and workshop are conducted for imparting life-long learning to students. Following Technical activities have been organized by department to achieve the target: 1. Organized “Seminar on Career Guidance”. 2. Organized Expert Lecture on Importance of Software for Civil Engineering. 3. Organized Workshop on “Virtual Labs” In association with IIT, Delhi. 4. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 5. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			

PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To prepare students to design multistory buildings with recent state of art and technology.			
PSO 1	2.13	1.55	• Results show gaps in understanding recent advancements in building design, indicating a need for more exposure to current tools and methods. • The discrepancy highlights a need for enhanced training in cutting-edge technologies and best practices for multistory building design.
Actions; 1.Various student workshops, webinars, technical sessions, and Industrial Visit etc., are planned throughout the academic year to help students develop their understanding of theory as well as practical skills. Following Technical activities have been organized by department to achieve the target: 1.Organized Seminar on Importance of Civil Software & Internship 2. Organized Workshop on Staad Pro 2023. 3. Organized Applications of AutoCAD in Civil Engg. Drawing. 4. National Conference On Emerging Trends In Civil Engineering For Sustainable Development-2023-24. 5. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 6. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			
PSO 2 : To design buildings with aspect of Vastu shastra and Green building technology.			
PSO 2	2.13	1.50	• Results indicate limited understanding and application of sustainable and culturally relevant design aspects. • The discrepancy highlights a need for improved integration of Vastu and green building practices in design projects and coursework.
Actions; 1. Various student workshops, webinars, technical sessions, Industrial visit etc., are planned throughout the academic year to help students develop their understanding of theory as well as practical skills. Following Technical activities have been organized by department to achieve the target: 1. Organized Industrial visit at Jantar Mantar. 2. Organized Survey Camp – 2023-24. 3. Organized National Conference On Emerging Trends In Civil Engineering For Sustainable Development-2023-24. 4. “Bamboo Project” activity by Indian Green Building Council (IGBC) (2023-24). 5. “Pot Painting” activity by Indian Green Building Council (IGBC) (2023-24).			

7.2 Academic Audit and actions taken thereof during the period of Assessment (10) Total Marks 10.00

Institute Marks : 10.00

1. An Overview

Auditing is the backbone of an effective organizations. This academic audit cell will discuss the performances of the audit process in detail and subsequently will analyze the several steps to improve the process of audit.

2. Objectives of Academic Audit

- To enhance the teaching and learning process and to ensure quality of technical education throughout the system
- To take care functionalities of technical education.
- To provide feedback mechanism used for assessing the performance of teachers by students and for curricular development.
- To provide Computer, internet and library facilities available.

a) Academic Audit: Tasks Related to Students:

Academic Audit of students is being carried out for following purpose:

1. To monitor attendance of students and take actions in the case of students who are irregular.

2. To analyze mid-term results of students and take necessary actions.

Academic Audit Process:

1. Preparation of Academic Audit Files

The department prepares academic records, including:

- Course Files
- Laboratory Files
- Feedback Files
- Any other supporting documents.

2. Internal Audit

Conducted within the department to evaluate and validate the prepared academic records.

3. Verification by Academic Audit Coordinator & Head of Department (HOD)

The Academic Audit Coordinator and HOD review the findings of the internal audit.

If discrepancies are found, the records are sent back for corrections.

4. External Audit

Conducted by an external panel comprising:

- Conveners of the Audit Process
- Academic Audit Experts

5. Verification by External Experts

External auditors evaluate the documentation and findings of the internal audit to ensure compliance with academic standards.

6. Submission of Final Audit Report

A comprehensive audit report is compiled and submitted after internal and external audits.

7. Corrective Actions (if needed)

Based on feedback from audits, the department undertakes necessary corrective measures and updates the records.

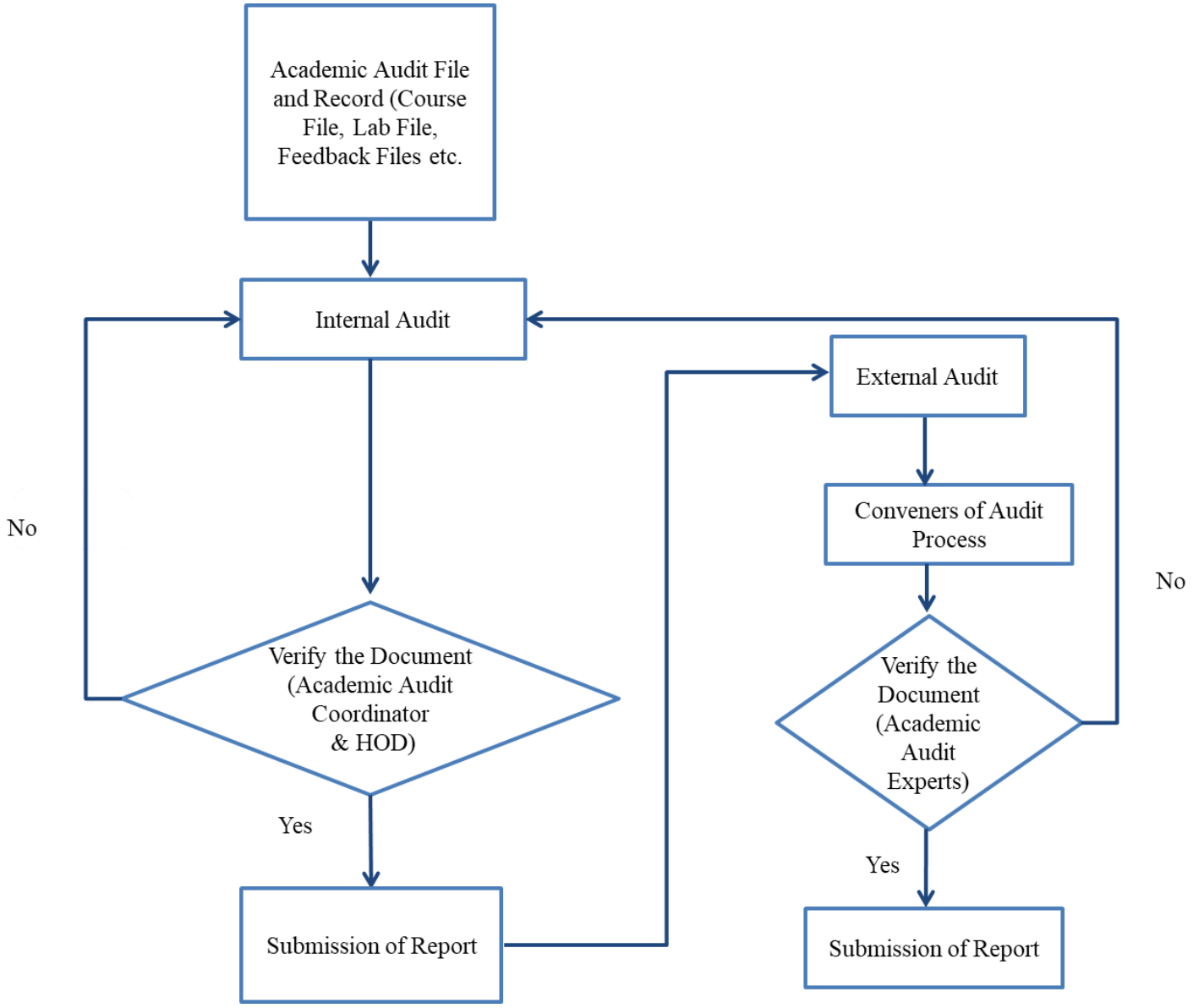


Figure 7.2 (A): Academic Audit Process

Table 7.2 (A): Academic Audit related to Students

Task	Responsibility	Data Obtained	Frequency	Action Taken	Implementation	Effectiveness
1. To monitor attendance of students and take actions in the case of students who are not regular.	Class Coordinator	Consolidated Attendance	Fort-nightly	Counsel students in case of short of attendance, Telephonic discussion with parents Letter to parents, arrange meeting with HOD/Deputy Head, Class coordinator	Being implemented by Class Coordinator. Monitoring fortnightly by HOD/ Deputy Head Submission to Principal office	1.Being followed 2. Decrease in number of students having short attendance. 3.Overall attendance is improving
2. To monitor midterm results of students and take actions in the case of weak students.	Examiners (Faculty members) Monitoring task: HOD / Deputy HOD	Award list of subjects submitted at examination incharge. Weak students were highlighted who obtained less than 60% marks.	At the end of mid-term tests	Assignments were given and extra classes were scheduled for students.	1. Implemented by individual faculty members. 2. Monitoring By HOD/Deputy HOD	1. Improvement in results of weak students.. 2. Improvement of overall result.
3. To monitor continuous evaluation in practical subjects.	Examiners (Faculty members) Monitoring task: HOD / Deputy HOD	Continuous evaluation sheet were checked. Weak students were highlighted.	Randomly at sudden inspection.	Weak students were engaged in extra lab hours.	1. Implemented by individual faculty members. 2. Monitoring By HOD/Deputy HOD	Improvement in practical learning of the students.

4. To analyze University results, and suggest steps to improve results in future.	Class Coordinator & Exam Cell	Result analysis consisting of (a) Course wise result of individual faculty member (b) Details of Failed students (c) Result analysis as per format	After declaration of results by the university.	Less performing faculty members is mentored by Senior faculty members. Extra classes are scheduled for difficult subjects.	1. Implemented by individual faculty members. 2. Monitoring By HOD/Deputy HOD	Improvement in results were shown.

b) Tasks Related to Faculty Members:

Academic Audit related to Faculty Members is being carried out for following tasks:

1. To monitor course files.
2. To audit classroom teaching, laboratory & sessional classes.
3. To check mid-term question papers.
4. To monitor mid-term answer scripts.
5. To monitor course completion.
6. To obtain feedback from students and give feedback to faculty members based on feedback.

Table 7.2 (B): Academic Audit Tasks related to Faculty Members

Task	Responsibility	Data Obtained	Frequency	Action Taken	Implementation	Effectiveness
1. To monitor course files, laboratory and sessional work.	HOD/ Deputy HOD/ Any other nominated by HOD	Course files, Continuous evaluative sheet are checked. Suggestion are given to the concerned.	Monthly	Any good work reported to HOD for implementing in course file also for discussion in department meeting. Any other work which does not improve after suggestion report to HOD for further counseling/ Guidance to Faculty member	Being implemented	Course files and continuous evaluation sheet are being prepared by faculty members
2. To Audit classroom teaching, tutorials, laboratory & sessional classes.	HOD or any other senior faculty member nominated by HOD	Data related to inspection of classroom engagement of students.	Randomly during sudden inspection	Suggestion for improvement usually given after the visit. Report to HOD for good as well as deplore work if necessary Feedback to Faculty & Staff	Implementation by visit of HOD	Data available. Improvement in results to be seen.
3.To check midterm question papers	Question paper moderation committee.	Question paper with marking scheme	Before the midterm examination	Faculty members were given instruction wherever necessary.	Implementation in presence of moderation committee	Quality of question papers is improving
4. To monitor course completion.	HOD or any other senior faculty member nominated by HOD	Data about how much course has been completed	Before Mid term examinations.	Asking to faculty member if course completion is slow If required, provide them extra/more class to respective faculty	Being done regularly	Course completion
5. To obtain feedback from students and sharing that feedback to faculty members based on feedback data	Class Coordinator	Collective feedback of students summarized by class coordinator	Monthly during Class Coordinator meeting and collectively after the completion of semester	Feedback obtained by students is shared with faculty member and if any improvement is required to informed faculty member by HOD	Feedback obtained and analyzed.	Obtaining data very Effective. Feedback to faculty on a regular basis is effective.

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10) Total Marks 10.00

Institute Marks : 10.00

Table 7.3 (A): Placement, higher studies and entrepreneurship for past three years

Item	CAYm1 (2022-23)	CAYm2 (2021-22)	CAYm3 (2020-21)
Total No. of Final Year Students (N)	125	119	129
No. of students placed in companies or Government Sector (x)	76	85	89
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	12	12	8
No. of students turned entrepreneur in engineering/technology (z)	05	04	09
x + y + z =	93	101	106
Placement Index : (x + y + z)/N	0.74	0.85	0.82
Average placement= (P1 + P2 + P3)/3	0.80		
Assessment Points = 40 x average placement	32.13		

Table 7.3 (B): Placement Details

Year	Percentage of Students placed	Average Package	Maximum Package	Major core industry recruiters
2022-23	72%	3.6 Lac	5 Lac	Ashiana Housing Ltd , Pinnacle Infotech, H.G. Infra Engineering Limited
2021-22	84%	3.3 Lac	6 Lac	Ashiana Housing Ltd , Pinnacle Infotech, H.G. Infra Engineering Limited, Consulting Engineers Group
2020-21	81%	2.5 Lac	4 Lac	Ashiana Housing Ltd , Pinnacle Infotech, H.G. Infra Engineering Limited

7.4 Improvement in the quality of students admitted to the program (10)

Total Marks 10.00

Institute Marks : 10.00

Item		2023-24	2022-23	2021-22
National Level Entrance Examination	No of students admitted	12	12	16
Joint Entrance Examination	Opening Score/Rank	81531	88988	126761
	Closing Score/Rank	589867	659043	611467
State/ University/ Level Entrance Examination/ Others	No of students admitted	48	42	54
12th Basis	Opening Score/Rank	87	95	99
	Closing Score/Rank	54	51	56
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	6	5	8
Lateral Entry in Engineering	Opening Score/Rank	83	92	81
	Closing Score/Rank	64	68	71
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		63	70	78

8 FIRST YEAR ACADEMICS (50)

Total Marks 44.07

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Total Marks 5.00

Institute Marks : 5.00

Please provide First year faculty information considering load for the particular program

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associated is 'No')
							CAY	CAYm1	CAYm2			
Rekha Mittal	BCEPM3790G	M.Sc. and PhD	01/01/2008	Inorganic Chemistry	Professor	26/02/2010	100	100	100	Yes	Regular	
Barkha Srivast	BWPPS1303G	M.Sc. and PhD	07/10/2017	Organic Chemistry	Associate Professor	11/09/2006	100	100	100	Yes	Regular	
Rekha Vijay	AQJPV4495K	M.Sc	01/05/2015	Physical Chemistry	Assistant Professor	25/07/2012	100	100	100	Yes	Regular	
Umesh Kumar	AGHPP4837F	M.Sc. and PhD	01/03/2008	Cosmology and Relativity	Professor	26/07/2003	100	100	100	Yes	Regular	
Ruchi Mathur	AOPPM9479L	M.Sc. and PhD	19/02/2015	Special Function	Professor	19/07/2004	100	100	100	Yes	Regular	
Sunil Kumar Sr	BPSPS0006J	M.Sc. and PhD	01/03/2010	Differential Geometry	Associate Professor	05/01/2016	100	100	100	Yes	Regular	
Tripati Gupta	AHPPG4947A	M.Sc. and PhD	01/08/2010	Special Function	Associate Professor	02/01/2017	100	100	100	Yes	Regular	
Vishal Saxena	BJQPS6740B	M.Sc. and PhD	24/04/2012	Special Function	Associate Professor	09/09/2017	100	100	100	Yes	Regular	
Kashish Parwa	AWKPP3733F	M.Sc. and PhD	01/02/2015	Operation Research	Associate Professor	10/08/2018	100	100	100	Yes	Regular	
Sudhir Kumar I	AFGPD6201H	M.Sc. and PhD	01/08/1994	Plasma Physics	Professor	10/11/2000	100	100	100	Yes	Regular	
Ram Kishan M	ALZPM8190P	M.Sc. and PhD	30/01/2006	Semiconducting thin film	Professor	31/07/2013	100	100	100	Yes	Regular	
Manoj Pathak	AZXPP0888K	M.Sc. and PhD	17/12/2022	Semiconducting Materials	Associate Professor	01/08/2000	100	100	100	Yes	Regular	
Seema Bansal	AKMPG1385J	M.Sc. and PhD	01/05/2019	Comndense Mater Physics	Associate Professor	25/03/2021	100	100	100	Yes	Regular	
Anita Jain	AIHPJ0122H	M.A and Ph.D	17/08/2014	Library Science	Professor	19/04/2000	100	100	100	Yes	Regular	
Rajesh Kumar	BDBPS1973B	M.A and Ph.D	20/09/2011	Physical education and Sports	Professor	28/11/2006	100	100	100	Yes	Regular	
Kamlesh Maha	AMVPM2110J	M.A and Ph.D	20/02/2020	Best Library	Associate Professor	07/07/2003	100	100	100	Yes	Regular	
Saguna Chatur	AFHPC3165N	M.Phil	01/07/1990	Industry Relation	Associate Professor	21/05/2015	100	100	100	Yes	Regular	
Sonia Khubcha	GHAPK6917B	M.A and Ph.D	30/10/2021	English Language Teaching	Associate Professor	19/08/2019	100	100	100	Yes	Regular	
Ramesh Singh	AIQPR7416P	MBA	01/01/2016	HR	Assistant Professor	25/11/2020	100	100	100	Yes	Regular	
Pranshu Sharm	EYSPS1461K	MBA	10/01/2021	Operation and Marketing	Assistant Professor	08/10/2020	100	100	100	Yes	Regular	
Priyanka Shukl	FOLPS2629L	MBA	21/02/2014	HR Management	Assistant Professor	25/11/2020	100	100	100	Yes	Regular	
Tarun Saraswa	CTQPS6068D	MBA	24/06/2014	Human values	Assistant Professor	10/06/2021	100	100	100	Yes	Regular	
Gajendra Kuma	BLQPS5891H	M.E/M.Tech	01/01/2006	Computer Science	Associate Professor	14/10/2006	100	100	100	Yes	Regular	
Yogita Punjabi	BIPPP2666H	M.E/M.Tech	10/04/2013	Image Processing	Assistant Professor	08/01/2011	100	100	100	Yes	Regular	
Ram Singh	BQDPS6091P	B.E/B.Tech	26/08/2005	Electrical Engineering	Assistant Professor	17/08/2007	100	100	100	Yes	Regular	
Praveen Goyal	AWIPG6475H	B.E/B.Tech	12/12/2013	Electrical Engineering	Assistant Professor	13/07/2016	100	100	100	Yes	Regular	
Suresh Gurjar	EBWPS2540L	B.E/B.Tech	19/03/2016	Electrical Engineering	Assistant Professor	10/09/2020	100	100	100	Yes	Regular	
Yogendra Kum	AOQPS5689R	B.E/B.Tech	01/01/1992	Civil Engineering	Assistant Professor	30/03/2021	100	100	100	Yes	Regular	

Jitesh Kumar J	BDAPK2004G	B.E/B.Tech	01/01/2008	Civil Engineering	Assistant Professor	04/01/2016	100	100	100	Yes	Regular	
Dilip Prajapati	AZBPP5053C	M.E/M.Tech	27/09/2019	Production engineering	Assistant Professor	06/09/2013	100	100	100	Yes	Regular	
Akhilesh Paliwa	CPSPP3593N	M.E/M.Tech	07/10/2014	Industrial engineering	Assistant Professor	03/01/2017	100	100	100	Yes	Regular	
Nitin Chhabra	AUEPC0203F	M.E/M.Tech	20/08/2020	Production engineering	Assistant Professor	31/01/2014	100	100	100	Yes	Regular	
Jitendra Kumar	BEDPG1771G	M.E/M.Tech	14/12/2020	Production engineering	Assistant Professor	25/03/2014	100	100	100	Yes	Regular	
Ravi Yadav	ABIPY0989K	M.E/M.Tech	14/12/2020	Mechanical Engineering	Assistant Professor	26/07/2012	100	100	100	Yes	Regular	
Avani Pareek	AUJPP4760F	M.Sc. and PhD	01/10/2020	Physico Chemical and Biological Standardization of yashada Bhasma	Associate Professor	08/04/2021	100	100	100	No	Regular	27/06/2024
Ashok Singh S	ASSPS8571J	M.Sc. and PhD	22/08/2008	General Polynomials and special function with application	Professor	10/08/2018	100	100	100	No	Regular	16/08/2024
Sarita Poonia	BFEPP2131M	M.Sc. and PhD	14/08/2015	special function	Associate Professor	29/08/2010	100	100	100	No	Regular	19/03/2024
Ghanshyam	BZGPG0170F	B.E/B.Tech	01/01/2020	Civil Engineering	Assistant Professor	16/08/2020	100	100	100	No	Regular	12/04/2024
Shalini Kulshre	AIGPK2859R	M.Sc. and PhD	01/08/2003	Applied Chemistry	Professor	18/01/2024	100	0	0	Yes	Regular	
Yaghvendra Ku	APKPK8239A	MS and PhD	27/09/2011	Theory of Transcendental function with Application	Associate Professor	18/01/2024	100	0	0	Yes	Regular	
Sarita Garg	AFNPG7291R	M.Sc. and PhD	01/02/1998	Application of SSNTD in radiation measurement	Professor	15/07/2023	100	0	0	Yes	Regular	
Ritambhara	BTCPR2037J	M.E/M.Tech	01/07/2016	Microelectronics	Assistant Professor	02/08/2017	0	100	100	Yes	Regular	
Hemant bansal	APGPB2872J	M.E/M.Tech	21/09/2015	Production Engineering	Assistant Professor	02/01/2017	100	0	0	Yes	Regular	
Neelu Jain	ANHPJ1340C	M.A and Ph.D	25/07/2020	English	Assistant Professor	18/02/2015	0	0	100	No	Regular	11/05/2022
Rashmi Kaushi	CLMPK7282F	M.A and Ph.D	06/01/2023	English and humanities	Assistant Professor	09/09/2019	0	100	100	No	Regular	08/11/2023
Rajendra Kuma	AGPVG7205J	M.E/M.Tech	22/07/2014	Mechanical Engineering	Assistant Professor	17/09/2007	0	100	100	No	Regular	12/07/2024
Madhu Choudh	BGYPC0442F	M.E/M.Tech	29/01/2022	MI and DIP	Assistant Professor	21/03/2022	100	100	0	Yes	Regular	
Palak Jindal	AMHPN6656J	M.E/M.Tech	16/05/2016	Mechanical	Assistant Professor	04/01/2017	0	0	100	No	Regular	23/08/2023
Shibu Joy	AFYPJ5494G	MBA	01/07/2007	HR	Assistant Professor	20/12/2022	100	100	0	Yes	Regular	
Shridhar H	BYXPP5934J	MA	15/02/2019	Human values	Assistant Professor	17/12/2022	100	100	0	Yes	Regular	
Krishan Kumar	CJFPS0681D	MA	21/03/2015	Humanities	Assistant Professor	16/01/2023	100	100	0	Yes	Regular	
Ruchi Sha	BRQPS9012J	ME/M. Tech and PhD	22/02/2018	VLSI and ES	Professor	10/07/2023	100	0	0	Yes	Regular	
Pradeep Kuma	AZZPK7939A	M.Sc. and PhD	13/12/2011	Condenced Matter	Associate Professor	14/04/2023	100	0	0	Yes	Regular	
Medhavi Jain	AITPJ9399Q	M.A and Ph.D	21/03/2015	English	Assistant Professor	01/11/2022	100	100	0	Yes	Regular	
Anil Kumar Sin	BCSPS1938N	MBA	14/08/2014	HR	Assistant Professor	08/04/2021	0	100	100	No	Regular	23/10/2023
Srikant Bansal	AZWPB3081B	M.E/M.Tech	21/07/2017	Mechanical Engineering	Assistant Professor	01/08/2016	0	100	100	No	Regular	30/11/2022
Hukum Chand	AXAPC7807L	M.E/M.Tech	10/02/2018	Mechanical Engineering	Assistant Professor	27/07/2012	0	100	100	Yes	Regular	

Satya Prakesh	BJQPS8962K	M.E/M.Tech	07/10/2015	Mechanical Engineering	Assistant Professor	20/01/2016	100	0	100	Yes	Regular	
Noopur Bl	APUPB2240Q	MBA	31/07/2010	HR	Assistant Professor	19/08/2020	0	100	100	No	Regular	20/11/2023
Preeti Gai	CUBPG6564Q	MBA	08/11/2011	HR	Assistant Professor	19/08/2020	0	100	100	No	Regular	10/10/2023
Kamakshi	AZHPN4017E	MBA	21/08/2019	HR	Assistant Professor	20/08/2020	0	100	100	No	Regular	23/11/2023
Kartik Sai	GAXPS0339K	MBA	06/01/2018	HR	Assistant Professor	08/04/2021	0	100	100	No	Regular	20/09/2023
Manmohan Sid	BNPPS2864D	ME/M. Tech and PhD	29/12/2018	Production Engineering	Associate Professor	02/01/2017	100	0	0	Yes	Regular	
Arun Sahu	FPZPS7761P	M.Sc	27/10/2016	Special Function	Assistant Professor	03/08/2020	0	100	100	No	Regular	13/11/2023
Bhawana Saini	HTDPS0784N	M.Sc	24/07/2017	Material Science	Assistant Professor	08/03/2020	0	100	100	No	Regular	20/09/2023
Lalit Kumar Sh	BQSPS3044K	M.E/M.Tech	07/10/2023	Manufacturing system Engineering	Assistant Professor	13/08/2007	100	100	0	Yes	Regular	
Raj Kumar	ANAPR4957L	M.Sc. and PhD	28/02/2006	material Science	Associate Professor	16/02/2019	0	0	100	No	Regular	21/10/2022
Saroj Parihar	FFHPS5593M	MA	18/09/2018	Engilish	Assistant Professor	04/09/2019	0	100	100	No	Regular	10/07/2023

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2021-22(CAYm2)	990	55	18	5
2022-23(CAYm1)	990	57	17	5
2023-24(CAY)	990	52	19	5
Average	990	54	18	5

8.2 Qualification of Faculty Teaching First Year Common Courses (5) Total Marks 3.00

Institute Marks : 3.00

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2021-22	20	18	49	3.00
2022-23	20	18	49	3.00
2023-24	23	15	49	3.00

Average Assessment: 3.00

8.3 First Year Academic Performance (10) Total Marks 6.07

Institute Marks : 6.07

Academic Performance	2023-24	2022-23	2021-22
Mean of CGPA or mean percentage of all successful students(X)	5.99	5.82	9.39
Total Number of successful students(Y)	37.00	55.00	115.00
Total Number of students appeared in the examination(Z)	55.00	67.00	115.00
API [X*(Y/Z)]	4.03	4.78	9.39

Average API[(AP1+AP2+AP3)/3] : 6.07

Assessment [1.5 * Average API] : 6.07

8.4 Attainment of Course Outcomes of first year courses (10) Total Marks 10.00

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5) Institute Marks : 5.00

Assessment Process for collecting data to evaluate course outcomes in Theory Courses

It includes two assessments as follows:

- **Internal Assessment**

Data for assessment of each Course Outcome (CO) is determined on the basis of two mid-term test, CO improvement exam, assignment and presentations.

- **External Assessment**

Data is collected from university (RTU) examination results.

The identification of slow learners and advanced learners is based on their performance in the mid-term examinations. Assignments are tailored and provided to students according to their performance. Additionally, CO improvement examinations are conducted for the identified slow learners to assess and track their progress.

Assessment of Theory Courses

- **Internal Assessment Tools**
  - Mid-Term Examinations (two exams)
  - Assignments & Presentations

Target for Internal CO Attainment for theory courses: A target of 60% was set for calculating CO attainment on the basis of average performance of students.

Target for External CO Attainment for theory courses:

- The RTU exam papers are not based on Course Outcomes.
- As a result, attainment was considered as complete university result and >=B grade was taken as target.

Final CO Attainment for Theory Courses

The final CO attainment evaluation process for students in theory courses includes both components:

70% for the external examination and 30% for the internal examination.

Final CO attainment = 70 % weightage of external examination + 30% weightage of internal examination (*Subjected to the RTU Scheme)

Final CO attainment = 0.7x+0.3y

Where x = CO attainment based on external examination (RTU examination)

y = CO attainment based on Internal examination, assignment & presentations

Assessment process for collecting data to evaluate Course Outcomes in Practical Courses

Assessment of Practical Courses

For practical courses, the evaluation includes 40% component based on the external examination and 60% component based on the internal examination.

- **Internal Exam (Sessional)**: 60 %
- **External Exam (Practical)**: 40 %
- **Grand Total**: 100%

Internal Assessment Component (60%)

The internal assessment for practical courses involves a systematic process of continuous evaluation to ensure comprehensive monitoring of student's performance. This process includes regular assessments conducted throughout the duration of the course.

Key components may include:

1. **Performance:** During the semester
2. **Lab record preparation:** Record of all performed experiments
3. **Viva Voce/Quiz:** conducted during the semester
4. **Attendance and Punctuality: I**n submitting lab records & in time checking

Target for calculating attainment: A target of 60% was set for calculating CO attainment on the basis of average performance of students.

External Examination Components (40%)

- Includes conduction of external exam for performance of experiment and viva-voce.

Target for calculating attainment: Target was set 60%

CO Attainment for Practical Courses

Final CO Attainment for Practical Courses

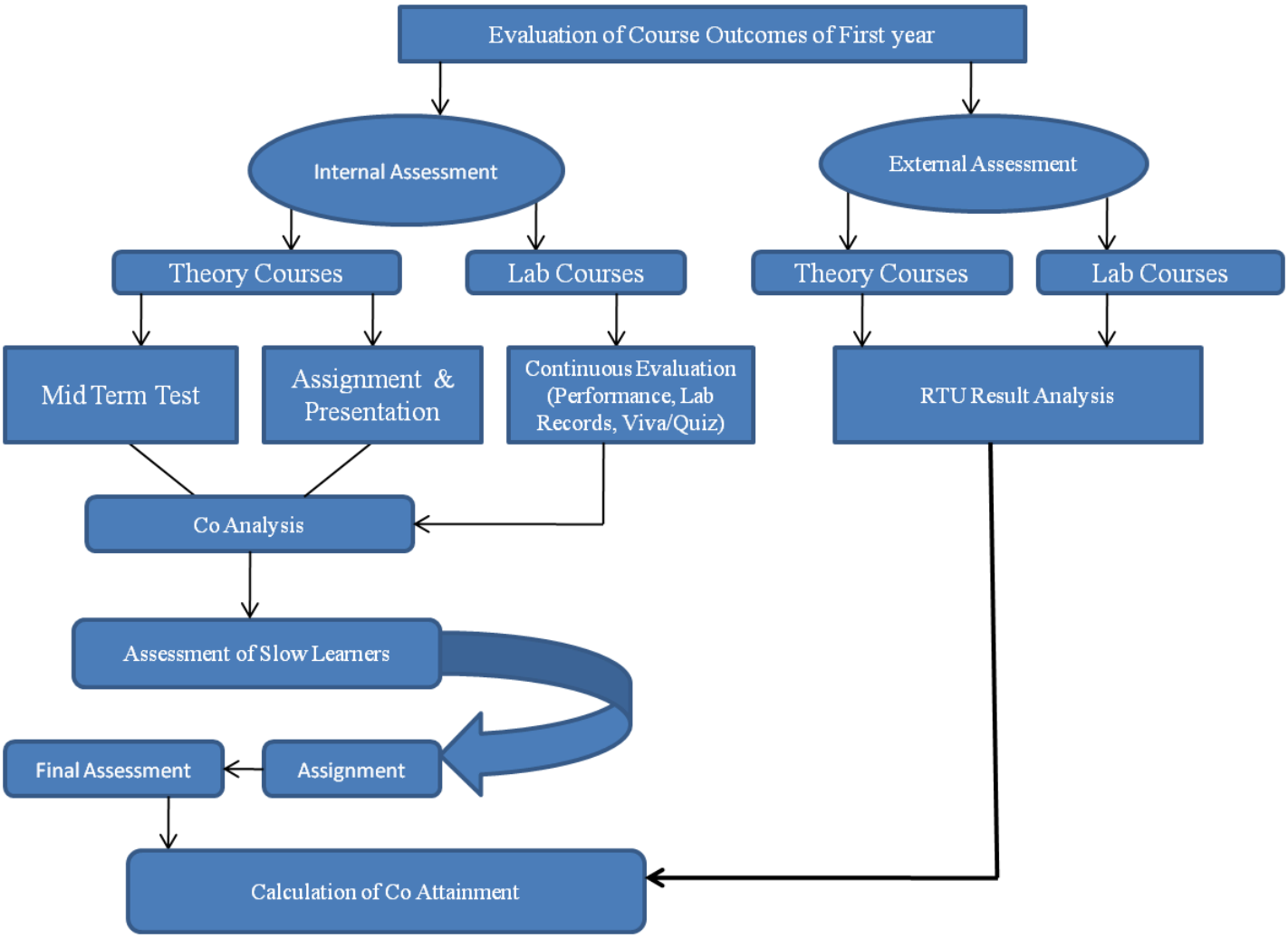
The final calculation of CO attainment for practical courses, consists of 40% component for the external examination and 60% component for the internal examination as per the RTU scheme.

Final CO attainment = 40 % weightage of external examination + 60% weightage of internal examination (*Subjected to the RTU Scheme)

Final CO attainment = 0.4x+0.6y

Where x = CO attainment based on external examination (RTU examination)

y = CO attainment based on Internal assessment



8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Institute Marks : 5.00

B. Tech. First Year

CO ATTAINMENT FOR YEAR 2021-22

S. N.	Course Code	Course Name	Attainment
1	1FY2-01	Engineering Mathematics	1
2	1FY2-02	Engineering Physics	1
3	1FY2-03	Engineering Chemistry	1
4	1FY1-04	Communication Skills	2
5	1FY1-05	Human Values	2
6	1FY3-06	Programming For Problem Solving	1
7	1FY3-07	Basic Mechanical Engineering	2
8	1FY3-08	Basic Electrical Engineering	1
9	1FY3-09	Basic Civil Engineering	2
10	1FY2-20	Engineering Physics Lab	3
11	1FY2-21	Engg. Chemistry Lab	3
12	1FY1-22	Language Lab	3
13	1FY1-23	Human Values Activities	3
14	1FY3-24	Computer Programming Lab	3
15	1FY3-25	Manufacturing Practices Workshop	3
16	1FY3-26	Basic Electrical Engineering Lab	3
17	1FY3-27	Basic Civil Engineering Lab	3
18	1FY3-28	Computer Aided Engineering Graphics	3
19	1FY3-29	Computer Aided Machine Drawing	3
			2.26

B. Tech. First Year

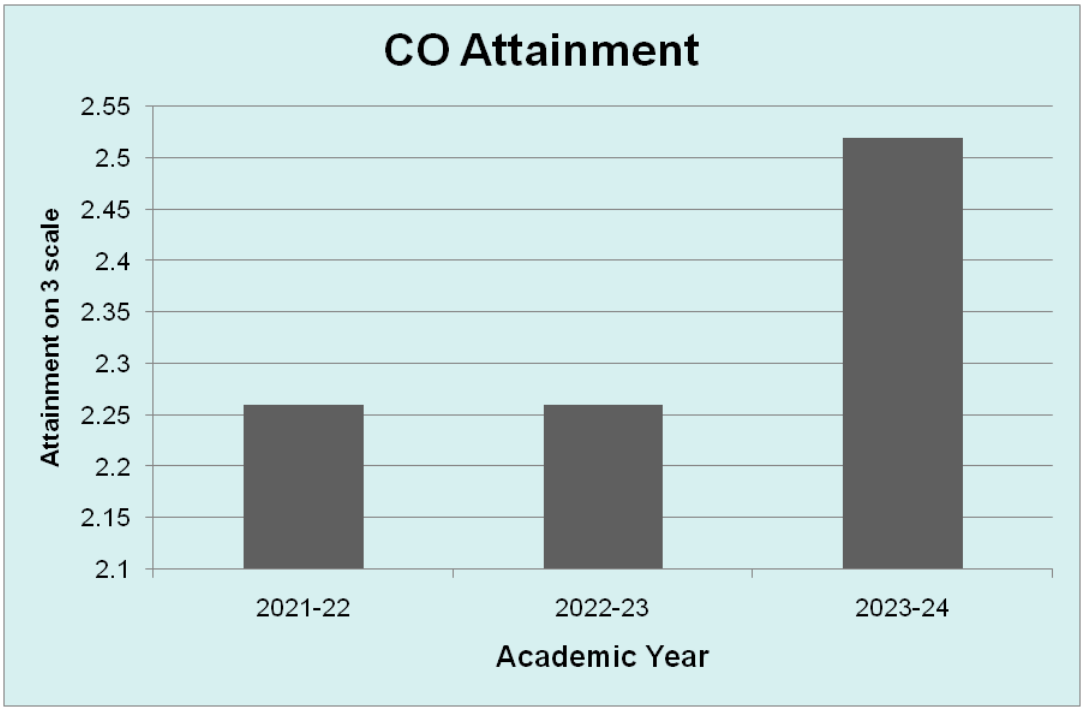
CO ATTAINMENT FOR YEAR 2022-23

S. N.	Course Code	Course Name	Attainment
1	1FY2-01	Engineering Mathematics	1
2	1FY2-02	Engineering Physics	1
3	1FY2-03	Engineering Chemistry	1
4	1FY1-04	Communication Skills	3
5	1FY1-05	Human Values	2
6	1FY3-06	Programming For Problem Solving	1
7	1FY3-07	Basic Mechanical Engineering	2
8	1FY3-08	Basic Electrical Engineering	1
9	1FY3-09	Basic Civil Engineering	1
10	1FY2-20	Engineering Physics Lab	3
11	1FY2-21	Engg. Chemistry Lab	3
12	1FY1-22	Language Lab	3
13	1FY1-23	Human Values Activities	3
14	1FY3-24	Computer Programming Lab	3
15	1FY3-25	Manufacturing Practices Workshop	3
16	1FY3-26	Basic Electrical Engineering Lab	3
17	1FY3-27	Basic Civil Engineering Lab	3
18	1FY3-28	Computer Aided Engineering Graphics	3
19	1FY3-29	Computer Aided Machine Drawing	3
			2.26

B. Tech. First Year

CO ATTAINMENT FOR YEAR 2023-24

S. N.	Course Code	Course Name	Attainment
1	1FY2-01	Engineering Mathematics	2
2	1FY2-02	Engineering Physics	2
3	1FY2-03	Engineering Chemistry	2
4	1FY1-04	Communication Skills	2
5	1FY1-05	Human Values	2
6	1FY3-06	Programming For Problem Solving	2
7	1FY3-07	Basic Mechanical Engineering	2
8	1FY3-08	Basic Electrical Engineering	2
9	1FY3-09	Basic Civil Engineering	2
10	1FY2-20	Engineering Physics Lab	3
11	1FY2-21	Engg. Chemistry Lab	3
12	1FY1-22	Language Lab	3
13	1FY1-23	Human Values Activities	3
14	1FY3-24	Computer Programming Lab	3
15	1FY3-25	Manufacturing Practices Workshop	3
16	1FY3-26	Basic Electrical Engineering Lab	3
17	1FY3-27	Basic Civil Engineering Lab	3
18	1FY3-28	Computer Aided Engineering Graphics	3
19	1FY3-29	Computer Aided Machine Drawing	3
			2.52



8.5 Attainment of Program Outcomes from first year courses (20) Total Marks 20.00

8.5.1 Indicate results of evaluation of ezch relevant PO and/ or PSO, if applicable (15) Institute Marks : 15.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1FY2-01	3	3	2	1	2	1	2	0	3	2	0	1
1FY2-02/2FY2-02	2	1	0	0	1	0	0	0	1	0	0	1
1FY2-03/2FY2-03	2	1	1	1	0	2	1	0	0	1	0	1
1FY1-04/2FY1-04	0	0	1	0	0	0	2	0	0	3	0	1
1FY1-05/2FY1-05	0	0	2	0	0	3	2	3	2	1	0	1
1FY3-06/2FY3-06	2	1	1	1	1	0	0	0	0	1	0	1
1FY3-07/2FY3-07	3	1	2	0	0	1	2	2	1	2	2	2
1FY3-08/2FY3-08	3	3	2	2	2	0	0	0	2	1	0	1
1FY3-09/2FY3-09	2	1	1	0	0	1	1	1	1	1	1	1
1FY2-20/2FY2-20	2	1	0	0	0	0	0	0	2	0	0	1
1FY2-21/2FY2-21	2	2	0	1	0	0	1	0	1	2	0	0
1FY1-22/2FY1-22	0	1	0	0	0	1	0	0	3	3	0	1
1FY1-23/2FY1-23	0	0	1	0	0	3	3	3	1	1	0	1
1FY3-24/2FY3-24	2	2	2	0	1	0	0	1	1	2	0	1
1FY3-25/2FY3-25	3	2	1	1	0	1	1	0	1	1	1	2
1FY3-26/2FY3-26	3	3	2	2	2	0	1	1	3	1	1	1
1FY3-27/2FY3-27	2	2	1	0	1	1	1	1	2	1	0	1
1FY3-28/2FY3-28	3	2	3	1	2	2	2	3	2	3	2	3
1FY3-29/2FY3-29	3	2	2	2	2	2	2	2	2	3	2	3
2FY2-01	3	3	2	1	2	1	2	0	3	2	0	1

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.35	1.59	1.47	1.17	1.42	1.52	1.50	1.73	1.77	1.65	1.33	1.23
Direct Attainment	2.49	1.81	1.62	1.29	1.58	1.58	1.63	1.87	1.82	1.72	1.48	1.31
CO Attainment	2.49	1.81	1.62	1.29	1.58	1.58	1.63	1.87	1.82	1.72	1.48	1.31

PSOs Attainment:

Course	PSO1	PSO2
1FY2-01	1	0
1FY2-02/2FY2-02	0	0
1FY2-03/2FY2-03	0	1
1FY1-04/2FY1-04	0	0
1FY1-05/2FY1-05	0	0
1FY3-06/2FY3-06	0	0
1FY3-07/2FY3-07	1	1
1FY3-08/2FY3-08	0	1
1FY3-09/2FY3-09	1	1
1 FY2-20/2FY2-20	1	0
1 FY2-21/2 FY2-21	0	0
1 FY2-22/2 FY2-22	0	0
1 FY1-23/2FY1-23	0	0
1FY3-24/2FY3-24	0	0
1FY3-25/2FY3-25	0	0
1FY3-26/2FY3-26	0	1
1FY3-27/2FY3-27	2	2
1FY3-28/2FY3-28	1	0
1FY3-29/2FY3-29	1	0
2FY2-01	1	0
PSO Attainment	1.12	1.17

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.12	1.17

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)

Institute Marks : 5.00

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.10	1.56	Lack of understanding of basic concepts of mathematics, Physics, Mechanics and their application
Action 1: Prerequisites for all the subjects were discussed before commencement of semester. Action 2: Expert lectures were conducted to improve the engineering fundamentals. Action 3: Subject notes & videos were made available on college website to help students			
PO 2 : Problem Analysis			
PO 2	1.59	1.10	Students were unable to formulate or analyze complex engineering problems by the knowledge of science and mathematics through first year subjects.
Action 1: Students were given assignments based on the problems of GATE, RTU and others competitive examinations. Action 2: Students were motivated to write review papers and present them. Action 3: Students were mentored to participate in technical events/Ideathon/ Hackathon inside and outside the college.			
PO 3 : Design/development of Solutions			
PO 3	1.70	1.61	•More technical events need to be introduced during first year to develop design and development aptitude in students.
Action 1: Students were mentored to participate in coding based contests Action 2: Different engineering problems were addressed through minor projects in First Year.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	.90	.69	•Student's participation in the events where they can deal with complex problems, need to be improved.
Action 1: Students were given chance to present their idea/ prototype and work with JECRC Incubation Cell. Action 2: Participation in coding contests, workshops and other related activities was emphasized. Action 3: Students were encouraged to review the problems addressed in research papers from different journals.			
PO 5 : Modern Tool Usage			
PO 5	1.52	1.15	•Trainings and add-on courses should be added for First Year students to improve learning of modern tools and technologies.
Action 1:Add on workshops based on modern tool usage like various programming languages and cyber security were conducted for First Year students Action 2: First year students participated in various technical club activities of the institute and learnt product development using modern tools.			
PO 6 : The Engineer and Society			
PO 6	1.40	1.04	•Students needed exposure to assess the social, health & cultural issues through application of reasoning.
Action 1: Students were made to participate in activities like "Aanandam" where the students performed the activities like plantations, save water & save energy etc. Action 2: Many social activities were organized at institute level like Blood Donation camp where, they worked as coordinators and managed the mechanism and conduction of the event. Action 3: Students participated in various social activities like Zarurat (where the students taught the under privilege children after college hours), Cleanliness dive, food and cloth distribution drive etc.			
PO 7 : Environment and Sustainability			
PO 7	1.21	.95	•The awareness and understanding related to global and environmental issues need to be improved.
Action 1: Webinars were conducted to address the environmental and sustainability issues in engineering. Action 2: Students were encouraged to indulge in projects addressing environmental issues and recycling best out of waste. Action 3: Activities like Cleanliness Drive and Tree Plantation, No Food wastage campaign were organized to address environmental and sustainability issues.			
PO 8 : Ethics			
PO 8	1.02	.87	•Students must understand the need of professional ethics and professional behaviors with their peers and seniors.
Action1: Students as well as faculty members attended workshop on Universal Human Values for better understanding of professional ethics & responsibilities. Action2: Students were encouraged to join the technical as well as social clubs at institute. Action 3: Students were mentored by their mentors to learn ethics and behave in similar manner.			
PO 9 : Individual and Team Work			
PO 9	1.50	1.18	•Students need to be mentored for team work & to become team leaders starting from their First Year only
Action 1: Students were appointed as team leaders or coordinators in various technical & extracurricular activities introduced in first year. Action 2: They participated as a team in technical activities like Hackathons and cultural activities.			
PO 10 : Communication			
PO 10	1.70	1.35	•The communication, presentation and report writing skills are to be further improved among the students.
Action 1: Language Lab activities such as group discussions, power writing and public speaking were conducted. Action 2: Students were encouraged for self-learning though MOOCs courses and gave presentations in class. Action 3: Students were made to prepare and present the presentations in their regular classes from their curriculum of each subject.			
PO 11 : Project Management and Finance			
PO 11	.78	.62	•There was very little scope for students in first year to learn project management and finance.
Action 1: They were made to work in teams and make projects by working on every aspect of development of projects. Action 2: First year students were motivated to be organizers of technical events in the department.			
PO 12 : Life-long Learning			
PO 12	1.75	1.29	•Participation in technical activities and understanding of new technology is to be improved in first year.

Action 1: Students were motivated to explore and learn online courses through NPTEL, Swayam, Coursera etc. as per the need of technological change. Action 2: Students were made to join various technical and social clubs of the college to recognize the need of changing technology.

PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To prepare students to design multistory buildings with recent state of art and technology.			
PSO 1	.50	.37	Knowledge about recent state of art and new technology may be improvised
Students were encouraged to prepare project on designing multi story buildings using new technology. Students were made to visit under construction sites for gaining practical knowledge.			
PSO 2 : To design buildings with aspect of Vastu shastra and Green building technology.			
PSO 2	.53	.23	Needs more information about Vastu and green Building Technology
Students were encouraged to attend Expert lecture on Green Building Technology and Vastu Shastra.			

9 STUDENT SUPPORT SYSTEMS (50) Total Marks 50.00

9.1 Mentoring system to help at individual level (5) Total Marks 5.00

Institute Marks : 5.00

Introduction: Mentoring of students is an essential feature to render equitable service to all our students having varied background and to solve or address personal/ psychological problems of students.The mentor is a model, a guide by the side, a motivator, a trainer and a counselor to the student. Mentoring entails informal communication, usually face-to-face and during a sustained period of time,where faculty mentors serve as a resource who will respond to encourage students to actively participate in academic, professional, career, personal growth, etc., for necessary advice/guidance/help.

Mentor's Responsibilities:

- Keeps the records of student's profile in the prescribed format
- Maintains the records of absentees, problems/issues
- Explains to students the academic rules and regulation.
- Communicates with parents of students to discuss students performance, any attendance issues and future plan .
- Gives guidance and information to plan for career advancement and industry internship.
- Gives guidance to students for selecting project topic, project guide, counsel them on back papers and debarred courses.
- Evaluate Student Progress and Performance in Tests.
- Informing students about the profile of companies coming for recruitment as per information obtained from placement department.
- Engage the Student beyond the Classroom especially for communication practices and emphasize the importance of communication for sure success.
- Keep the department / panel members informed, if any student is not taking his/her sessions seriously.
- Guide students for technical interview, Group Discussion and Personal Interviews for companies in campus recruitment training program.
- Guide students for skill enhancements activities and all around developments.

Mentoring Diagram

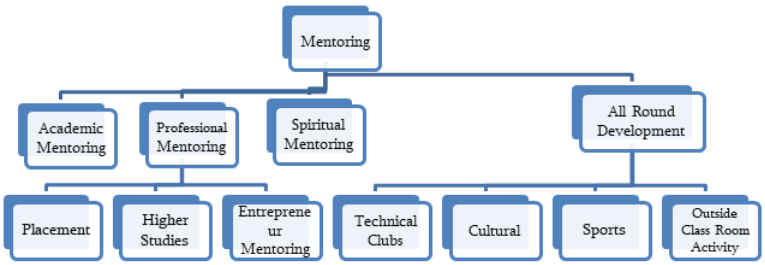


Fig 9.1a: Professional Guidance/Career Advancement

Academic Mentoring

- Based on academic record, students with good performance are encouraged to achieve next higher level of performance and slow learners are motivated and guided to improve the performance.
- The mentors counsel the students for their low attendance, low performance in examination (with the emphasis on the reason(s) of low attendance and performance).
- Information of academic schedules and e-learning resources are shared to enhance their knowledge.
- Counsel irregular students to laboratory classes to attend regularly and complete backlog experiments during specified extra hours.
- Faculty members encourage students to do project based learning.

An effective student mentoring system has already been implemented in the college to mentor throughout activities, performance and over all development of students.

S.No.	Type of Mentoring	Name of Incharge
1	Professional Mentoring	Mr. PK Tiwari(Retd.IPS)
		Mr. Mukt Bihari & Dr S N Gupta
2	Entrepreneur Mentoring	Mr. Tarun Saraswat
3	Spritual Mentoring	Mr. Mukesh Agarwal
4	Higher Studies Mentoring	Ms.Priyanka Shukla
5.	Student Development Officer	Mr. Pranshu Sharma
		Ms. Mohak Khanduja

Professional Mentoring

- The students are encouraged and guided to register themselves in the professional bodies to create awareness and enhance the knowledge about the various activities.
- Industry based training is offered to students to improve their chances of employability.
- Students are encouraged to develop their oral and written communication skills by writing articles and presenting in national and international conferences.
- The projects are designed based on real time scenarios to apprise students about the working culture of industry and industry expectation.

We have Human Resource & Development cell (HRD), senior advisor and many senior dignitaries who guide students for their career and placement.

Different interactive sessions for students with Mr. P.K.Tiwari,Dr. S. N.Gupta (senior advisor), Mr. Mukut Bihari and other senior member are organized to motivate and guide them for enhancing career.

Pre Placement training Program by ALUMNI

- Orientation of the students prior to Placement session.
- Aptitude Training.
- Mock online aptitude practice test.
- Technical training through labs.
- Mock online technical practice test.
- One to one career counselling and guidance to all the students.
- Mock Group Discussion practice.
- Personality development activities.
- Life skill trainings.
- Verbal and written communication trainings.
- Company specific trainings.
- Mock face to face interviews.
- Industry visits.
- Internship opportunities.
- Participation in Hackathon and other coding challenge contests

Entrepreneurship Mentoring

JIC cell was established for encouraging and inspiring students for startups and entrepreneur. Various interactive sessions for students with alumni and startup representative are organized to know the importance of being an entrepreneur and ways to get financial assistance to become an entrepreneur.

JIC Cell is responsible for:

- Initiative and Development of Startups/Incubations
- Initiative towards centre of excellence
- Interaction with industry persons
- Motivate students, guide and help them in the same direction.

Institute has success stories for every pass out year as a result of incubation center.

S.No.	Activity Name	Link
1	PARICHAY- ORIENTATION'22	https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/JIC-2022-2023.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/JIC-2022-2023.pdf)
2	STARTUP CONCLAVE	
3	Incubation Program - Empowering Entrepreneurship at JECRC	
4	Orientation Program - JECRC Incubation Centre	
5	LinkedIn Professional Platform	
6	Content Writing Workshop - JECRC Incubation Centre	
7	Graphic Designing Workshop - JECRC Incubation Centre	
8	Video Editing Workshop - JECRC Incubation Centre	
9	PR, Relationship Building & Leadership Skills Workshop- JECRC Incubation Centre	https://jecrcfoundation.com/jf-data/AQAR2023-24/JECRC-Incubation-Centre.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/JECRC-Incubation-Centre.pdf)
10	National Roadshow for G20 - DIA: MeitY Start-up Hub & JIC	
11	Technical Induction | Induction 2.0	
12	IT Startup Day - Empowering JECRC Students in the Startup Ecosystem	
13	Makerspace E-Wonders Exhibition - Turning E-Waste into Innovation	
14	Kartavya Path Blog Launch In Association with JIC	
15	Launch of JECRC Civil Services Society	
16	Leaders Talk – A Session by Mr. Shantanu Naidu	

Career Mentoring /Higher studies

- Students are supported to take up online certification courses offered by MOOC/NPTEL/SWAYAM to strengthen the qualification for their academic progression. This also helps them to achieve higher career paths in the applied areas of their specializations.
- Career guidance and counseling is provided by senior faculty members and placement Co-coordinators
- Value added training programs are arranged to enhance their placement opportunities as well as to support their research in industry. Students are also encouraged to take up international professional certification. This helps the students to improve their profiles for future.

Spiritual Mentoring

A special initiative has been taken by our institute in the form of SPIRITUAL RESEARCH CELL. The cell was established on 6th October, 2016. The inauguration was done by the auspicious presence of the Executive Secretary, Brahmakumaris& Vice Chairman, Rajyoga Education & Research Foundation, RajyogiMruthyunjaya Ji, Dr. U.S Agarwal, Principal, SMS Medical College, Jaipur and Meditation Expert, B K Sushma Ji. This cell motivates students mentally and builds up their confidence.

Spritual Cell Activities 2022-23

- **Events:**

https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/SRC-events.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/SRC-events.pdf)

Projects:

https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/SRC-Project.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/SRC-Project.pdf)

- **All round Development Mentoring**

In all departments of the Institution, mentoring is a continuous process where faculty mentors serve as a resource who will respond to many questions that meets their needs and interests,encourage students to actively participate in different activities realistic in scope and counsel the students on any other academic, professional, personal growth, etc., for necessary advice/guidance/help. Different technical and non technical clubs are in the institute for overall development of students.

S. No	Technical Club	S.No	Non Technical Club	S.No	Social Club	S.No	COE
1	Xananoids Club.	8	Student Development Officer Club	15	Zarurat Club	20	JECRC CoE Science and Spirituality.
2	Moonrider Club	9	Green campus Club. (IGBC)	16	Soch Club.	21	JECRC CoE E-Vehicle Automation .
3	OSA (Optical Society).	10	NSS Club.	17	Aashayein Club	22	JECRC CoE MG Motors
4	IEEE Club	11	Sports Club.	18	Suhasni Club	23	JIC
5	Marvel Cart	12	Cultural Club	19	Atrangi Club		
6	Makers Space.	13	Alumni Cell.				
7	Toastmasters Club.	14	Fruitful JECRC Club.				

These activities are not meant just for fun and frolic. They are in fact catalysts that develop qualities like leadership, team work, time management and stress handling in our students from the very beginning. One of the main reason why our students have done wonderfully well year after year in their campus placements is that they are not just so technically sound but are also ready to face the challenges of the world brimming with confidence.The role of the faculty as a mentor is one of nurturing support for a student during the transition period in academic, professional as well as personal growth.

Student Development Officer is responsible for the overall development of students. His responsibility is to encourage students to participate in different co curricular and extracurricular activities.

- Planning, developing and delivering a variety of student services and activities (co-curricular and extracurricular activities).
- Motivate and engage students activity in the campus.
- Handles promotions of college events manual and e-promotions
- Encourage students to participate in different Cultural and sports activities.

Mentor-Mentee:

https://jecrcfoundation.com/jf-data/AQAR2023-24/Mentor-Mentee%20CE.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Mentor-Mentee%20CE.pdf)

Number of students per mentor : 20

Frequency of Meetings : Fortnightly (and need based)

S.No	Year of Students List	Link	Year of Faculty List	Link
1	2023-24 Student list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Student-List-2023-24.pdf)	2023-24 Faculty list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Faculty-List-2023-24-Final.pdf)
2	2022-23 Student List	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-2/List-of-students.pdf)	2022-23 Faculty list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/2.4.1.%20Faculty%20List%202022-23.pdf)

9.2 Feedback analysis and reward /corrective measures taken, if any (10) Total Marks 10.00

Institute Marks : 10.00

Feedback collected for all courses: YES

Feedback collection process:

Feedback mechanism is well organised system in the college. Computerized feedback is collected from students for all courses. Students Feedback on all courses are taken during once in every semester about various aspects of the teaching learning process adopted by the faculty members.

The feedback collected from students is first analyzed by internal quality assessment committee (IQAC).The process commences with a communication to all the departments regarding nomination of faculty coordinators. The faculty coordinators involved in the feedback process are responsible for data collection. Collection of feedback forms for all the subjects from the students based on parameters specified in feedback form.

All the students are informed via e-mail / SMS / WhatsApp regarding corresponding instructions. Feedbacks are taken for all theory, laboratories, and project work etc.

The feedbacks are analysed based on a set of questionnaires defined by the Institute. The evaluation is graded based on the scale of one to five.

Scale of feedback system is as follows:

1-Below Average, 2- Satisfactory, 3- Good, 4-Very Good, 5-Excellent

An average score percentage from total number of feedbacks given is assessed to analyze the feedback.

All the department are informed via e-mail / SMS / WhatsApp to download their feedback reports online after completion of the analysis process.

All the feedback reports are made available to the concerned HoD in the Computerized using google form. The consolidated reports across the departments are available in IQAC.

Feedback analysis process:

The feedbacks are analysed based on a set of questionnaires defined by the Institute. All theory courses/laboratories/projects are evaluated based on a set of questionnaires. Each of these questionnaires is graded on a scale of one to five by the students.

System of reward process:

Faculty reward is given based on the following factors:

Based on the consolidated feedback and faculty self-appraisal reports, the faculty members are appraised about their performance. Some of the faculty members are appreciated and awarded, in recognition of their exemplary efforts of

- Resourcefulness
- Innovations in bringing about the change
- Dependability in their work
- Expertise used and developed in academics, research and patenting

Necessary corrective actions taken for the faculty members whose feedback score is less than the institution standard, are as given below.

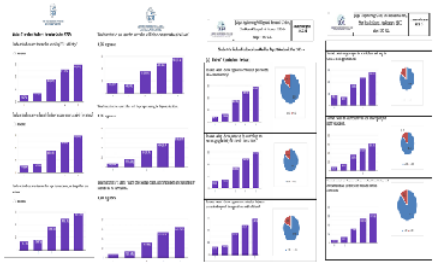
- Head of the Department chairing the senior faculty members advise the faculty member suitably with regard to clarity in explanation.
- Promoting and encouraging faculty to attend the faculty development programs (FDP), short term programme (STP), Conferences, MOOC'S, Guest lectures, industry visit.
- Enhancing their academic skill set with the peer support within a stipulated time period.

The performance is reviewed regularly.

Feedback form, Response and Analysis Report 2023-24

S. No	Particular	Form	Analysis	Action Taken
1	Student feedback on teaching learning 2023-24	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Student-feedback-on-teaching-learning%202023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Final-Teaching-Learning-analysis-Graph-Report-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Feedback-action-taken/Teaching%20Learning%20Feedback%20Action%20Taken.pdf)
2	Student Curriculum Feedback 2023-2024	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Student-Curriculum-Feedback-2023-2024.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Final-Student-Curriculum-Analysis-Graph-Report-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Feedback-action-taken/Curriculumn%20Action%20Taken.pdf)
3	Student's Facility Feedback Form 2023-24	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Students-Facility-Feedback-Form-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Final-Student-Facility-analysis-For-Session-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Feedback-action-taken/Student%20Facility%20feedback%20Action%20Taken.pdf)
4	Student feedback form Infrastructure 2023-24	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Student-feedback-Form-Infrastructure-2023-2024.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Final-Student-Infrastructure-analysis-graph-Report-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Feedback-action-taken/Student%20Infrastructure%20feedback.pdf)
5	Alumni Feedback Form 2023-2024	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Alumni-Feedback-Form-2023-2024.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Final-Alumni-Feedback-analysis-graph-report-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Feedback-action-taken/Alumni%20Feedback%20action%20taken.pdf)

6	Parent's feedback Form 2023-24	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Parents-Feedback-Form-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Final-Parents-Feedback-analysis-graph-report-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Parent%20action%20taken%20(1).pdf)
7	Teacher feedback form 2023-2024	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Teacher-feed-back-form-02023-2024.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Final-Employee-Feedback-analysis-graph-report-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Teacher%20action%20taken%20(1).pdf)
8	Employer feedback form 2023-24	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Employer%20Feed%20back%20Form%202023-2024.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/employer%20analysis.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/employer%20action%20taken.pdf)



Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers

- To what extent the teacher covered entire syllabus as prescribed by University.
- To what extent the teacher covered relevant topics beyond syllabus.
- To what extent do you agree with the effectiveness of teacher in terms of technical content/ course content.
- To what extent do you agree with the effectiveness of teacher in terms of communication skills.
- To what extent do you agree with the effectiveness of teacher in terms of use of teaching aids/E-content.
- To what extent do you rate the pace on which contents were covered.
- To what extent is the teacher motivation and inspiration for students to learn.
- To what extent does the teacher support the development of students in practical demonstration and hands-on training.
- To what extent is the clarity of expectations of students.
- To what extent do you agree with the feedback provided to the student regarding progress regularly.
- To what extent do you agree with the willingness to offer help and advice to students.
- To what extent does the teacher motivate students to participate in extracurricular activities.
- To what extent does the teacher use modern teaching aids, handouts, suitable references,PowerPoint presentations, web resources, etc.
- To what extent do the institute/ teacher inculcate soft skills, life skills, and employ ability skills to make ready for the work.
- To what extent do the institute/ teacher use student-centric methods, such as experiential learning, participative learning, Hands on training, practical demonstration and problem-solving methodologies for enhancing learning experiences.

9.3 Feedback on facilities (5) Total Marks 5.00

Institute Marks : 5.00

Institute regularly collect and analyze feedback from students and other stakeholders on various issues. After analyzing 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.

Student Facility Feedback form - https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Students-Facility-Feedback-Form-2023-24.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/feedback/Students-Facility-Feedback-Form-2023-24.pdf)

Feedback forms: https://jecrcfoundation.com/iqac/feedback-forms (https://jecrcfoundation.com/iqac/feedback-forms)

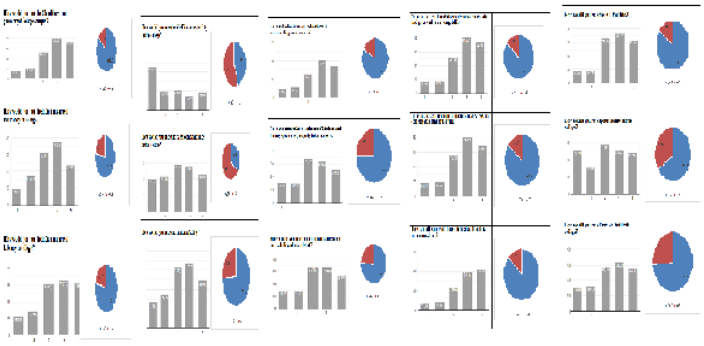
Analysis: https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-1/1.4.2-Feedback-mechanism-and-analysis.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-1/1.4.2-Feedback-mechanism-and-analysis.pdf)

Action Taken: https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-1/1.4.1-Action-Taken-on-Feedback.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-1/1.4.1-Action-Taken-on-Feedback.pdf)

https://jecrcfoundation.com/jf-data/AQAR2023-24/Student%20Facility%20Action%20Taken.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Student%20Facility%20Action%20Taken.pdf)

Student Feedback Form Analysis Report Academic Year 2023-24

A. **Student's Facility Feedback analysis Report**



Student's Facility Feedback Form about Department received from students and summary as follows:

Parameters	Responses (In %)	
	≥60	<60
How would you rate the Cleanliness and greenery of college campus?	84.8	15.2
How would you rate the infrastructure of laboratory in college?	77.6	22.4
How would you rate the infrastructure of Library in college?	78.5	21.5
How would you rate the Wi-Fi internet facility in the college?	46	54
How would you rate the classroom ambience in the college?	34	66
How would you rate the canteen facility?	74.1	25.9
To what extent you agree that hostel surroundings are secure.	83	17
To what extent the cleanliness of kitchen and dining space are properly taken care of.	75	25
How would you rate the cooperativeness and accessibility of hostel staff?	76.6	23.4
To what extent bus drivers demonstrates safe and preventive driving skills.	86	14
To what extent transport facility at JECRC is dependable and punctual.	85.3	14.7
How would you rate the spiritual cell facility for counselling?	87	13
How would you rate the ICT facilities?	85	15
How would you rate sports facility in the college?	65.4	34.6
How would you rate First Aid facility in college?	73.7	26.3
How would you rate the grievances regarding facility?	78.3	21.7

IQAC Coordinator **IQAC Chairperson**

List of facilities at departmental/institute level for support of the students:

S.No	Facility	Remarks
1	Mentors facility	Mentor has been allotted to a group of students.
2	Support provided to students from SC/ST, OBC and economically weaker sections	Help to acquire scholarship from central and/ or state government of India.
3	Entrepreneurship cell / JIC	The responsibility of JIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and innovation while they are in formative years. This cell is also highlight innovative projects carried out by institution's faculty and students
4	Students to participate in various competitions at National/International level	Relaxation in the attendance given those students which are participating in the different competitions.
5	Medical assistance to students	Availability of Ambulance in the campus and Tie-up with hospital (APEX Hospital, Jaipur)
6	Organizing additional classes for professional improvement of students	The additional classes are regularly conducted by Training & Placement Cell for the campus Placement.
		Study material providing towards students, whenever is required.
7	Support for "slow learners"	Remedial classes for slow learners.
		Mentoring facility is providing.
8	Support for "Advance learners"	To organised expert lectures.
		To provide study material.
		To organised trainings, seminars and industrial visits.
9	Skill development (spoken English, computer literacy, etc.,)	Spoken English classes offered to the students for improvement in the communication skill.
		For improvement of technical skill, offering the various online courses such as NPTEL, SWAYAM, etc.
10	Exposure of students to other institution for higher learning and internship	Industrial training provided to the students.
		Interaction with the corporate world by interaction with guest lecturers from reputed institutions and industries.
		Different training programs are organised .
11	Anti-Ragging Committee	The committee is constituted to handle to ensure a ragging free environment in and outside the campus and address ragging related issues if any. It performs following roles and responsibilities:
		To create the awareness about Anti Ragging act and punishments among the students and the appropriate law in force.
		To create the awareness about Ragging constitutes .
		To prohibit, prevent and eliminate the source of ragging including any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student.
		To prohibit undisciplined activities by any student or students this causes or is likely to cause hardship or psychological harm or to raise fear in any fresher.

12	Library Facility	Central library provides on line and offline access to a large number of full text journals, books, databases from various publishers and e-journals.
13	Transportation Facility	The Institute self reliance in providing transport facility to the students. We have made arrangements for College buses for students as well as staff. This makes them free from mental tension of driving or taking public transport system, to come to the college and go back, so that they can fully concentrate on their studies.
14	Mess and Canteen Facility	Canteen is a place where everyone i.e. students, teachers and other staff members can relax in a comfortable atmosphere. The college canteen is much more than merely an eating place. There is an attractive well equipped canteen on the campus. The canteen provides healthy, tasty eatables fruit juices, hot and cold beverages to the students and faculties at subsidised rates.
15	Hostel Facility	The institute believes that hostels help to develop group dynamics amongst student and widen their socio-cultural horizon as well. Keeping this in mind, we have made provision for excellent hostel facilities for students. The institution provides excellent play fields, gymnasium and cultural hall for extracurricular activities for the development of the student's personality.
16	Wi-Fi Campus	Apart from computer laboratory with internet facility, the Wi-Fi for providing continuous and uninterrupted internet connectivity to students and faculty members is available in the campus.
17	Auditorium and Conference Room	1. Institute provides two Auditorium hall of 500 and 200 seating capacity for the departmental activities. 2. The conference/Seminar hall is available for organising expert lectures & other programmes. 3. A well furnished fully Air-conditioned meeting room with equipped available for conducting of mock test, GD, industrial instruction and other T&P activities for students.
18	Women's Grievance Cell	It helps women to gain control over their own lives and gives the ability to make strategic choices of life. This cell is constituted to create a harmonious environment and enable women to discharge their responsibilities at workplace with dignity. The functioning of following cell is given below:

S.No	Facility	How feedback is taken	Type of Record	Action Taken
1	Hostel Sh V.K. Singhal (CAO /Chief warden)	Entry in the register / discussion with warden / written application / Grievance cell	About Stay in the hostel	Sharing of room changed from 4 to 3
			About Food	Student committee and warden
			About Timing	Boys and girls timings are fixed but on demand as per requirement permission is provided.
			Maintenance	Entry in register and corrective action
			Medical Exigency	Ambulance register
2	Transport Sh. Ravi Bhatnagar (Bus Incharge)	Written application with Bus In charge	Route	Recorded with bus in charge and appropriate action is taken
			Fees	
			Flexibility / Maintenance of buses	

3	Library Dr. Anita Jain (Chief Librarian)	Departments are taking feedback related to library and thus submitted to librarian	Timing Books Publication E-books Swayam	Appropriate action taken by Library incharge
4	Sports Dr. Rajesh Sharma (Sports Incharge)	Feedback taken by sports incharge	Ground Participation	Sports incharge takes appropriation decision
5	Over all maintenance Sh. Yogendra Sharma	Feedback from Block Incharges	About maintenance & Safety	

Corrective measures:

- Fully Automated Library with RFID (Radio Frequency Identification
- Smart Computer Centre with 250 Seating Capacity
- Computer centre with 86 inch interaction panel and six 55 inch LED screens.
- Digital library for NPTEL, Swayam, Mooc's etc.
- Smart class rooms
- Amount spent on infrastructure of JIC is 22.5 million INR
- Fire-fighting equipment's installed in the campus
- Sewage treatment plant
- Water cooler with Reverse osmosic (RO) available in every block.
- Recreation of Canteen facility
- Renovation of mess facility in girls hostel.

9.4 Self-Learning (5) Tota

Institute

Introduction:

Self-Learning method is an individualized method of learning collecting information, processing it, and retaining it without the needs for another individual to teach it. For s or learning beyond syllabus during the semesters we provide information sharing material and orgnize different types of activities like workshop, training, conferences, clul quiz etc. Activities related to Experiential learning (EL), Participative Learning (PL) and Problem Solving (PS) methodologies are embedded into the teaching learning proces has introduced various add on courses viz.Embedded system and robotics, machine learning, cloud computing, digital marketing,3-D printing, etc. and other add on course the feedback from alumni, employer and other stakeholders. Various platforms viz. Swayam, NPTEL, Swayam Prabha, Video lectures by faculty and other teaching learning made available on website.Virtual lab through IIT Delhi is an initiative towards experiential learning. Students taking internships through internshala are also appreciate which is beyond curriculum. Most of students are engaged in these learnings at the institute level.

Availability of Facility, Materials and Scope for Learning

S.No	Self-Learning Sources	Tools / Support
1	Web based learning	Swayam: https://swayam.gov.in/ (https://swayam.gov.in/) NPTEL: https://onlinecourses.nptel.ac.in/ (https://onlinecourses.nptel.ac.in/)
2	e-Books & digital books	Central and departmental Library
3	Books, magazines, journals, newspaper clippings	Central and departmental Library
4	Virtual Labs	It is to provide remote-access to simulation-based Labs in various disciplines of Science and Engineering. The project is coordinated by IIT Delhi .
5	Online Content	Advanced computer centre
6	Lectures, instructional materials by faculty members	Online through links on websites and Google classrooms
7	Internship/ summer trainings	Internships, summer trainings offered to the students to enhance the real-time knowledge and exposure of the students.
8	Digital Library	E-contents of different topics.
9	Technical clubs	Students are encouraged to become members of different clubs such as moonrider clubs,Marval Cart, Xananoid etc. for the career enhancement and self-learning
10	Campus recruitment training	Creativity, lateral thinking and communication / people management skills are essential Components for progress in any sphere. Students are encouraged to develop these through goal setting exercises, group discussions, mock interviews and presentations.
11	Mock Training	Special classes conduct to improve Aptitude, Reasoning (Verbal and nonverbal), Soft skill and communication of students for placement purpose.
12	Technical Events	Technical Events: To enhance the technical knowledge.
13	Industry visits	Industrial visit: To bridge the gap between Industry and academia, various modules are covered.
14	Conferences/workshops	Training program / Workshop / Seminars / International / National Conferences: To enhance knowledge and develop technical skill. For sharing new ideas and innovation common platform is provided.
15	Social Activities	All round development essentially means intellectual, physical, moral, sensible and social development. A. Zarurat B. Soch C. Aashayein D. Suhasini E. NSS
16	Spiritual Training	Enhance the mental capacity of students to focus better

17	Professional bodies	Students are encouraged to become members of professional bodies like Toast master,OSA, IEEE, SAE,etc. for the career enhancement and self-learning.
18	Entrepreneurship Cell	It is primarily responsible for fostering the business mind among students and assisting budding entrepreneurs by providing them with necessary resources
19	Assignments	It enabled students to go through the topics in a more elaborate manner in order to explore the academic topic which lead to an overall better learning experience for students. Assignments help the students to understand the subject in a more detailed pattern.
20	Project based learning	Project based learning offered to the students to enhance the real-time knowledge and exposure of the students.
21	Cultural Activities	Personality improvement through different cultural activities.
22	Sports	Team management and overall students development through different sports activities
23	ADD-ON courses	Addon course enhance the advanced skill according to present scenario.

Online MOOC'S

S. No	Name of Student	MOOCs Platform	Certificate Link
1	Pranjal Sharma	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
2	Khushveer Gurjar	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
3	Akshi Maheshwari	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
4	Sakshi Jain	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
5	Rohit Pareek	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
6	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
7	Akshat Goyal	NPTEL	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
8	Akshat Goyal	NPTEL	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
9	Akshat Goyal	NPTEL	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
10	Akshita Grg	NPTEL	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
11	Akshi Maheshwari	NPTEL	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
12	Akshi Maheshwari	NPTEL	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
13	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
14	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
15	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
16	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
17	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
18	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)

19	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/17nO6jUD1ki87sAJxLmKT5PX9zowVIiAK0n0eIx9ol1imn01Xlpt2HYeUN2MX3fDdx (https://drive.google.com/drive/u/0/folders/17nO6jUD1ki87sAJxLmKT5PX9zowVIiAK0n0eIx9ol1imn01Xlpt2HYeUN2MX3fDd
20	GUDDU MAHAWAR	Infosys Springboard	https://drive.google.com/file/d/1XudO-Jsh05BDROiwv10l5lTFqBiy3GtK/view (https://drive.google.com/file/d/1XudO-Jsh05BDROiwv10l5lTFqBiy3GtK/view)
21	Samridhi Sisodia	Great learning	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
22	Nitin kumawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
23	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_d (https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_
24	Pankhuri Jain	Infosys Springboard	https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_d (https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_
25	Sankalap vijayvergiya	Great learning	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
26	Mitul Chhajed	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
27	Pankhuri Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
28	Tanish gupta	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
29	Sonakshi Gupta	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
30	Mohit Garg	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
31	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
32	Aksht jain	Udemy	https://drive.google.com/file/d/1HXAjUGy_i2Frg-O0mrgrcwX4UAZQn0Vl/view (https://drive.google.com/file/d/1HXAjUGy_i O0mrgrcwX4UAZQn0Vl/view)
33	Akshat Shrimal	CPP buzz	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
34	kalash Sharma	Great learning	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
35	HIMANSHU VYAS	CPP buzz	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
36	dheeraj garg	CPP buzz	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
37	Devang pareek	IIITAllahabad	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
38	Akshi Maheshwari	CPP buzz	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
39	Jatin Agrawal	CPP buzz	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
40	Mridul dve	Udemy	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
41	Khushal jangid	CPP buzz	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
42	HARSH SHARMA	Great learning	https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM (https://drive.google.com/drive/folders/1EdlgCwbv91L5CSj4D_4GfCJgWk2cuTXM)
43	Punit Tyagi	Infosys Springboard	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
44	Raghav Bansal	Apna college	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
45	Tanish Gupta	Sclaer	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
46	Somya Mittal	Great learning	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
47	Mansi Yadav	Sclaer	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
48	Pallav maheswari	Sclaer	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
49	pankaj jarwal	Sclaer	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
50	Saurav Singh	Great learning	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)

51	Pradyumn Kumar Shukla	Infosys Springboard	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
52	ravi joshi	DATA Flair	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
53	prateek panjwak	Infosys Springboard	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
54	Sankalp Vijayvargiya	Great learning	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
55	saurabh kumar atoliya	Great learning	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
56	lip khatri	Sclaer	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
57	samidhi sisodia	Testdome	https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL (https://drive.google.com/drive/folders/1OkRfZdq0HyhGT_6jy7Kf0NLibIlg03FL)
58	Pallav Maheshwari	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
59	Soumya Mittal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
60	saksham bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
61	punit tyagi	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
62	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
63	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
64	Raghav Bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
65	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
66	Tushar Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
67	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
68	Pradyumn Kumar Shukla	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
69	Kinjal Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
70	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
71	mayank ved	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
72	Pallav Maheshwari	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
73	Soumya Mittal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
74	saksham bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
75	punit tyagi	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
76	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
77	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
78	Raghav Bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
79	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
80	Tushar Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
81	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
82	Pradyumn Kumar Shukla	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12

83	Kinjal Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
84	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12
85	mayank ved	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12

Utilization and its effectiveness:

- The overall aim of this review is to evaluate the effectiveness of self-directed learning on the professional development of students.
- Most of the students reached to a conclusion that self-learning process is an effective approach for learning.
- Students are motivated to improve their initiative in reaching their goals.
- Students are able to scan through the reading material available to them.
- The students are encouraged to learn by themselves for their present and future needs.
- Students are able to do better in competitive examinations and get placed in suitable companies.

Students completed NPTEL Certification

Jan 23-April 23

S.No.	Name	Course Name	Department
1	Aashish Kumar	Sensors And Actuators	Mechanical Engineering
2	Aashish Kumar	Soft Skill Development	Mechanical Engineering
3	Aashish Kumar	Wheeled Mobile Robots	Mechanical Engineering
4	Aditi Gupta	International Business	Computer Science Engineering
5	Aditi Gupta	Integrated Marketing Communication	Computer Science Engineering
6	Lakshya Agarwal	Data Base Management System	Computer Science Engineering
7	Akash Singh Bhadoria	Soft Skill Development	Mechanical Engineering
8	Akash Singh Bhadoria	Manufacturing Process Technology I & II	Mechanical Engineering
9	Deepak Maheshwari	Data Base Management System	Computer Science Engineering
10	Tanishq Singh	Discrete Mathematics	Computer Science Engineering
11	Tanishq Singh	Graph Theory	Computer Science Engineering
12	Dinesh Suwalkya	Problem Solving Through Programming In C	Electrical Engineering
13	Divy Panchori	Problem Solving Through Programming In C	Computer Science Engineering
14	Himani Munjal	Introduction To Machine Learning	Information Technology
15	Himani Munjal	The Joy of Computing Using Python	Information Technology
16	Himani Munjal	Introduction To Database Systems	Information Technology
17	Keshav Maheshwari	The Joy of Computing Using Python	Computer Science Engineering
18	Kinjal Jain	Data Base Management System	Computer Science Engineering
19	Komal Choudhary	Problem Solving Through Programming In C	Computer Science Engineering
20	Mohit Choudhary	Problem Solving Through Programming In C	Computer Science Engineering
21	Mohit Kumar Lalwani	Data Analytics with Python	Computer Science Engineering
22	Pratham Chouhan	Digital System Design	Computer Science Engineering
23	Priyanka Harchandani	Cloud Computing	Electrical Engineering

24	Priyanka Harchandani	Introduction To Internet of Things	Electrical Engineering
25	Priyanka Harchandani	VLSI Signal Processing	Electrical Engineering
26	Sachin Sharma	Data Analytics with Python	Computer Science Engineering
27	SONU Kuldeep	Basic Construction Materials	Civil Engineering
28	Suhani 8hargava	Data Analytics with Python	Computer Science Engineering
29	Vaishali Garg	Data Base Management System	Information Technology
30	Vaishali Garg	Human Behaviour	Information Technology

July-2022 to Dee. 2022

S.No.	Name	Course Name	Department
1	Aashish Kumar	Embedded System Design With ARM	Mechanical Engineering
2	Aashish Kumar	Introduction To Robotics	Mechanical Engineering
3	Aditi Gupta	The Psychology of Language	Computer Science Engineering
4	Aditi Gupta	Customer Relationship Management	Computer Science Engineering
5	Lakshya Agarwal	Programming In Modern C++	Computer Science Engineering
6	Akash Singh Bhadoria	Engineering Drawing and Computer Graphics	Mechanical Engineering
7	Akash Singh Bhadoria	Principles Of Metal Forming Technology	Mechanical Engineering
8	Tanishq Singh	Programming, Data Structures and Algorithms Using Python	Computer Science Engineering
9	Tanishq Singh	Design And Analysis of Algorithms	Computer Science Engineering
10	Tanishq Singh	Stress Management	Computer Science Engineering
11	Tanishq Singh	Design Thinking - A Primer	Computer Science Engineering
12	Gajendra Dayma	Advanced Machining Processes	Mechanical Engineering
13	Harshita Jaiswal	Programming, Data Structures and Algorithms Using Python	Computer Science Engineering
14	Kanika Mittal	Cryptography And Network Security	Information Technology
15	Mananya Gaur	Big Data Computing	Information Technology
16	Mananya Gaur	Data Base Management System	Information Technology
17	Priyanka Harchandani	Basic Electric Circuits	Electrical Engineering
18	Priyanka Harchandani	Numerical Methods	Electrical Engineering
19	Saloni Jain	Programming, Data Structures and Algorithms Using Python	Computer Science Engineering
20	Sambhav Jain	Introduction To Machine Learning	Mechanical Engineering
21	Shantinath Kallappa Bhokre	Stress Management	Production Engineering
22	Sonu Kuldeep	Plastic Waste Management	Civil Engineering
23	Sonu Kuldeep	Municipal Solid Waste Management	Civil Engineering

24	Sonu Kuldeep	Earth Sciences for Civil Engineering Part – I & II	Civil Engineering

Add on courses Link: https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-1/1.2.2-Addon-Details.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/1/1.2.2-Addon-Details.pdf)

E-notes & video link sample: https://jecrcfoundation.com/videos/ (https://jecrcfoundation.com/videos/)

9.5 Career Guidance, Training, Placement (10) Total Marks 10.00

Institute Marks : 10.00

A training and placement cell is established and responsible for campus placement (off campus also) and training which improve students skills both technical and behavioral. A cell provides various opportunities for student placements and organizes sessions / training programs.

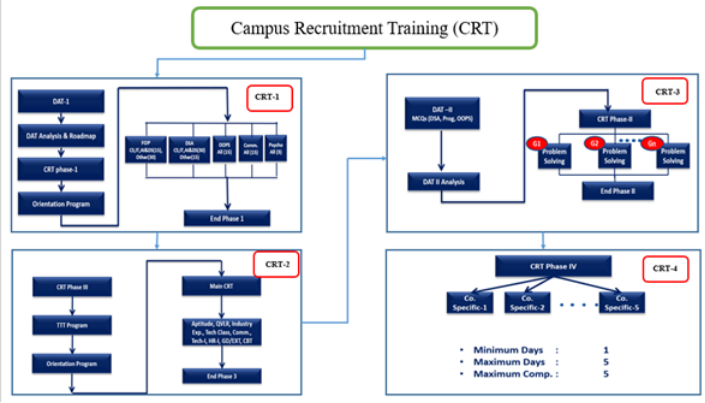
The college has career guidance and placement cell headed by Director HR – Placement & Training.

- The team fine tunes the students by providing insights into the complex dynamics of the corporate world and the current critical industrial & business scenarios.
- Campus Recruitment Training (CRT) program grooms the students in various areas like Quantitative Ability, Verbal Ability, Reasoning Ability, Group Discussion, Personality Development, Attitude and Behavioral Development and Facing Interview.
- An online portal is used for training the students. This portal allows students to register for placement, avail training using the numerous videos and take up tests to assess themselves. In addition, the portal also provides company specific question papers which can be used to ensure better performance in the aptitude/technical tests. Certified Trainers are deputed to take sessions on Verbal, Written and listening skills to ensure our students are well trained in Business English Communication
- Domain and technical training is provided based on the industry requirement.
- Mock interviews and GDs are conducted on a regular basis to equip final and prefinal students to face the challenges of recruitment scenario.
- The placement cell organizes on-campus and off-campus recruitments.
- In addition to the training conducted by the placement division the department organizes training on technical aspects like Data Structures, Java, C, C++ and Python, E-Vehicles ,Roboics,Automations, etc.

Training in Institute:

Year	Name of event	Object of event	No. of students participated	Date of event
2022-23	Pre placement training	Bridging gap between academics & Industry	602	05/07/2022 to 21/07/2022
2023-24	Pre placement training	Bridging gap between academics & Industry	659	24/7/2023-09/8/2023

Campus Recruitment Training:



Entrepreneurship/JIC

Institute has a cell which improve entrepreneurship development skills in students by doing activities such as seminars, workshops and awareness camps.(Entrepreneurship and incubation).

- To improve Entrepreneurship skills in students.
- Cell conducts many workshops and awareness camps for students.
- Cell has incubation center and associated with startups.
- Cell schedules interactions with alumni startups.

All round development:

Many technical events like conferences and workshops are organized in the institute to improve and present technical skills of students.

- National level competitions for students like Smart India Hackathon are held in institute.
- To prepare teams a faculty guide is assigned to a particular team and an intra college competition like JECRC hackathon is organized to check, improve technical skills level of different teams.

S. No	Name of Activity	2023-24	2022-23
1	Industrial Training	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Internship%20Data%202023-24-Final.pdf)	View (https://jecrcfoundation.com/wp-content/uploads/2024/01/1.3.3-Institutional-data-Final.xlsx)
2	Preplacement Training	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Preplacement%20details.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-5/5-1/5.1.3AdditionalInformation.pdf)
3	Placement Details	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Placed%20student%20list%202023-24%20self%20attested.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-5/5.2-List-of-placed-Student-Attested.pdf)

4	Internshala Details	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Internshala%202024.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Internshala%20Report%20june%202022%20to%20dec%202023.pdf)

- **Career Guidance Facilities:**

Events for Career Guidance of students conducted by the institution during 2022-23

S. No. (http://s.no/)	Year	Dept.	Name of the workshop/ seminar/Conferences	Number of Partici-pants	Date (From – To)	Link to the Activity report on the website
1	2022-23	CE	A Seminar on "Importance of Civil Software"	80	27.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/1.pdf)
2	2022-23	CE	A Guest Lecture On " Water Design Management Software	23	12.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/2.pdf)
3	2022-23	CE	A Seminar on "Pre-Placement Talk "	50	13.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/3.pdf)
4	2022-23	CE	A Workshop on " Virtual Lab "	116	16.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/4.pdf)
5	2022-23	CE	Hands On workshop on staadpro 2023	72	11.5.2023 to 13.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/5.pdf)
6	2022-23	CE	A Workshop on " Virtual Lab "	261	14.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/6.pdf)
7	2022-23	CE	Workshop on "Application on AUTOCAD in Civil Engineering"	25	1.5.2023 to 15.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/7.pdf)
8	2022-23	CE	National Conference on Emerging Trends in Civil Engineering for Sustainable Development	108	17.5.2023 to 18.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/8.pdf)
9	2022-23	CE	Workshop on Advanced Concrete Technology	60	12.09.2022 to 16.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/9.pdf)
10	2022-23	CE	Workshop on Complex State of Stress System	60	01.10.2022 to 20.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/10.pdf)
11	2022-23	CE	Workshop on Design and Analysis of High Rise Building	60	20.02.2023 to 18.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/11.pdf)
12	2022-23	CE	Workshop on Vaastu Shastra	60	27.02.2023 to 19.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/12.pdf)

13	2022-23	CE	Workshop on Ground Improvement	60	13.03.2023 to 03.05.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/13.pdf)
14	2022-23	First Year	Expert talk " Application of Mathematics in Science and Engineering"	145	1.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/14.pdf)
15	2022-23	First Year	Expert Talk on Cyber Security and Ethical Hacking	157	9.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/15.pdf)
16	2022-23	First Year	Expert talk" Real Life Application of Fibonacci Number and Golden Ratio"	107	14.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/16.pdf)
17	2022-23	First Year	Mathematics Week including mathematics project exhibition	252	19.12.2022 to 12.01.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/17.pdf)
18	2022-23	First Year	Expert talk on"Profile Building"	51	7.02.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/18.pdf)
19	2022-23	First Year	Expert Talk on "Queuing Modeling in Real Life Situations"	59	17.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/19.pdf)
20	2022-23	First Year	National Conference on Application of Basic sciences and communication in Engineering (NCASCE)	67	30.5.2023 to 31.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/20.pdf)
21	2022-23	First Year	International Mathematics Symposium	180	14.03.2023 to 15.03.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/21.pdf)
22	2022-23	First Year	Workshop on Scientific Research Writing Phase-1	32	01.12.2022 to 20.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/22.pdf)
23	2022-23	First Year	Workshop on Scientific Research Writing Phase-2	30	01.05.2023 to 25.05.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/23.pdf)
24	2022-23	First Year	Workshop on English Proficiency	60	06.02.2023 to 10.02.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/24.pdf)
25	2022-23	First Year	A Mathematical Workshop and Test (Phase-1)	47	05.06.2023 to 09.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/25.pdf)
26	2022-23	First Year	A Mathematical Workshop and Test (Phase-2)	79	12.06.2023 to 16.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/26.pdf)

27	2022-23	IT	Two day Workshop on Python and Devops	149	2.9.2022 to 3.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/27.pdf)
28	2022-23	IT	Expert Talk on Industry Interaction Program	90	14.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/28.pdf)
29	2022-23	IT	Workshop on security issues in cloud computing	82	8.11.2022 to 9.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/29.pdf)
30	2022-23	IT	Workshop on Crack the C	24	15.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/30.pdf)
31	2022-23	IT	Guest Lecture on Non Linear Data Structure	64	8.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/31.pdf)
32	2022-23	IT	Expert talk on "Android Development"	170	21.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/32.pdf)
33	2022-23	IT	Expert Talk on "Block Chain Technology"	113	24.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/33.pdf)
34	2022-23	IT	5th National Conference On Information Technology & Security Applications (NCITSA-2023)	100	15.5.2023 to 16.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/34.pdf)
35	2022-23	IT	Workshop on Cloud Engineering & DevOps	31	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/35.pdf)
36	2022-23	IT	Workshop on Full Stack Web Development using Django (Session-1)	7	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/36.pdf)
37	2022-23	IT	Workshop on Full Stack Web development using Django (Session-2)	21	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/37.pdf)
38	2022-23	IT	Workshop on ML-DL & AI (Session-1)	39	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/38.pdf)
39	2022-23	IT	Workshop on ML-DL & AI (Session-2)	21	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/39.pdf)
40	2022-23	IT	Workshop on Python Scripting & Application Development	81	25.09.2022 to 31.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/40.pdf)

41	2022-23	IT	Workshop on Google Cloud Computing Foundations: Cloud Computing Fundamentals	111	21.03.2023 to 10.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/41.pdf)
42	2022-23	AI&DS	A Seminar on GSOC 23	70	6.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/42.pdf)
43	2022-23	AI&DS	Seminar on Open Source Dev Day with Microsoft, Azure & GitHub	120	19.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/43.pdf)
44	2022-23	AI&DS	Expert Lecture on Web 3.0	100	24.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/44.pdf)
45	2022-23	AI&DS	Work shop " Applications of C Programming" In Artificial Intelligence & Data Science	55	12.09.2022 to 17.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/45.pdf)
46	2022-23	AI&DS	Google Cloud Computing Foundations: Cloud Computing Fundamentals	23	21.03.2023 to 10.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/46.pdf)
47	2022-23	AI&DS	Technical Event Virtual Vision	95	12.12.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/47.pdf)
48	2022-23	AI&DS	Seminar on IEEE Git Hub Session	50	2.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/48.pdf)
49	2022-23	CSE	Workshop on Ethical Hacking	115	17.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/49.pdf)
50	2022-23	CSE	Webinar on Campus Corporate	158	1.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/50.pdf)
51	2022-23	CSE	Workshop on Career in Salesforce	150	7.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/51.pdf)
52	2022-23	CSE	Expert Lecture on Data Science	200	4.4.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/52.pdf)
53	2022-23	CSE	Workshop on How to write research paper	200	5.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/53.pdf)
54	2022-23	CSE	Workshop on Game Development Using Python	45	11.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/54.pdf)

55	2022-23	CSE	Expert Lecture on Effective Organisational Communication	113	20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/55.pdf)
56	2022-23	CSE	International Conference on Emerging Trends in Expert Applications & Security (ICE-TEAS 2023)	122	17.2.2023 to 19.2.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/56.pdf)
57	2022-23	CSE	5 th National Conference on Contemporary Issues in Computer Technology	200	20.5.2023 to 21.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/57.pdf)
58	2022-23	CSE	Workshop on DevOps with Cloud Computing-1	111	15.07.2022 to 05.08.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/58.pdf)
59	2022-23	CSE	Workshop on Machine Learning with Python (Basic)	90	15.07.2022 to 15.08.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/59.pdf)
60	2022-23	CSE	Workshop on DevOps & Site Reliability Engineering	17	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/60.pdf)
61	2022-23	CSE	Workshop on Full Stack Web Development using Django (Session-1)	60	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/61.pdf)
62	2022-23	CSE	Workshop on Full Stack Web Development using Django (Session-2)	103	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/62.pdf)
63	2022-23	CSE	Workshop on ML-DL & AI (Session-1)	141	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/63.pdf)
64	2022-23	CSE	Workshop on ML-DL & AI (Session-2)	28	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/64.pdf)
65	2022-23	CSE	Workshop on Cloud Engineering & DevOps	37	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/65.pdf)
66	2022-23	CSE	Workshop on Python Scripting & Application Development	22	25.09.2022 to 31.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/66.pdf)
67	2022-23	CSE	Google Cloud Computing Foundations: Cloud Computing	240	21.03.2023 to 10.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/67.pdf)
68	2022-23	ME	A Guest Lecture On " Application areas of Mechanical 2D & 3D Drawing/ Designing Softwares"	70	30.8.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/68.docx)

69	2022-23	ME	A Workshop on " CNC MACHINES "	68	8.9.2022 to 9.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/69.docx)
70	2022-23	ME	A Workshop On Electric Vehicle Technology	42	11.10.2022 to 12.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/70.docx)
71	2022-23	ME	Guest Lecture on Programming Language	30	24.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/71.pdf)
72	2022-23	ME	Guest Lecture on Cadmate	30	12.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/72.docx)
73	2022-23	ME	Expert Talk on "Industrial Pumps"	10	17.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/73.docx)
74	2022-23	ME	Guest Lecture on "Plastic Mould Manufacturing"	26	22.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/74.docx)
75	2022-23	ME	Guest Lecture on "Additive Manufacturing"	28	23.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/75.docx)
76	2022-23	ME	Expert Talk on "How Students make their career in blockchain Industry"	26	24.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/76.docx)
77	2022-23	ME	7th National Conference on Futuristic Trends in Mechanical Engineering (NCFTME-2023)	78	19.5.2023 to 20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/77.docx)
78	2022-23	ME	Workshop on Software Tools for Design and Analysis of E-Vehicles (Phase-1)	15	20.06.2022 to 02.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/78.pdf)
79	2022-23	ME	Workshop on Working and Assembly-Disassembly of E-Vehicles (Phase-1)	15	04.07.2022 to 16.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/79.pdf)
80	2022-23	ME	Workshop on E-Vehicles: Power Storage and Transmission Sub-System (Phase 1)	15	20.06.2022 to 02.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/80.pdf)
81	2022-23	ME	Workshop on E-Vehicles: Power Storage and Transmission Sub-System (Phase-2)	15	18.07.2022 to 30.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/81.pdf)
82	2022-23	ME	Working and Assembly-Disassembly of E-Vehicles (Phase-2)	15	04.07.2022 to 16.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/82.pdf)

83	2022-23	ME	Workshop on Software Tools for Design and Analysis of E-Vehicles (Phase-2)	15	18.07.2022 to 30.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/83.pdf)
84	2022-23	ME	Workshop on Additive Manufacturing with Different Technologies	68	24.04.2023 to 29.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/84.pdf)
85	2022-23	ME	Workshop on Electric Vehicle Technology	139	10.10.2022 to 15.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/85.pdf)
86	2022-23	ECE	Two days Workshop in Data Science Using Python	80	30.8.2022 to 31.8.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/86.pdf)
87	2022-23	ECE	Workshop on 5G technology and its Challenges	80	15.8.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/87.pdf)
88	2022-23	ECE	Expert Talk on "IEEE Awareness Session"	109	10.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/88.pdf)
89	2022-23	ECE	Expert Talk on "Inauguration of IEEE Student Branch"	46	16.2.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/89.pdf)
90	2022-23	ECE	Expert Talk on " Learning of Futuristic Career-Oriented Techniques"	70	11.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/90.pdf)
91	2022-23	ECE	National Conference on Recent Advancement in Communication, Optical and Nanoscience (RACON-2023)	230	19.5.2023 to 20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/91.pdf)
92	2022-23	ECE	Workshop on Machine Learning with Python	42	03.11.2022 to 05.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/92.pdf)
93	2022-23	ECE	Workshop on Advance Embedded System and IOT-1	71	10.03.2022 to 09.04.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/93.pdf)
94	2022-23	ECE	Workshop on Advance Embedded System and Design-2	132	20.08.2022 to 19.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/94.pdf)
95	2022-23	ECE	Workshop on Advance Embedded System and Design-3	71	15.09.2022 to 16.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/95.pdf)
96	2022-23	ECE	Workshop on Advance Embedded System and Design-4	42	03.11.2022 to 05.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/96.pdf)

97	2022-23	ECE	Workshop on Machine Learning and Data Science using Python	62	05.01.2023 to 05.02.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/97.pdf)
98	2022-23	ECE	Workshop on Artficial Intelligence	164	03.03.2023 to 04.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/98.pdf)
99	2022-23	ECE	Workshop on Data Engineering over clouds and DevOps	73	10.07.2022 to 15.08.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/99.pdf)
100	2022-23	ECE	Workshop on Python Application Devolopement	102	10.10.2022 to 15.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/100.pdf)
101	2022-23	EE	Workshop on Introduction to PV System series 1	30	26.08.2022 to 12.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/101.pdf)
102	2022-23	EE	Workshop on Introduction to PV System Series 2	30	01.11.2022 to 18.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/102.pdf)
103	2022-23	EE	Workshop on Embedded System-1	44	16.03.2023 to 31.03.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/103.pdf)
104	2022-23	EE	Workshop on Embedded System-2	44	25.04.2023 to 11.05.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/104.pdf)
105	2022-23	EE	Workshop on Fundamentals of C programming	47	04.10.2022 to 21.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/105.pdf)
106	2022-23	EE	Expert talk on Operations of Grid Sub Station	61	08.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/106.pdf)
107	2022-23	EE	Report on Event “Appie-2023”	52	15.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/107.pdf)
108	2022-23	EE	Report on Alumni Talk	60	21.07.23	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/108.pdf)
109	2022-23	SRC	Workshop on Meditation Course	17	20.7.2022 to 27.7.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/109.pdf)
110	2022-23	SRC	Workshop on Self Empowerment through meditation-I	10	29.8.2022 to 3.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/110.pptx)

111	2022-23	SRC	Seminar on Declutter the Mind	163	12.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/111.pdf)
112	2022-23	SRC	Workshop on Meditation Course	58	19.9.2022 to 26.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/112.pdf)
113	2022-23	SRC	Workshop on Self Empowerment through Meditation-II	13	20.9.2022 to 24.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/113.pdf)
114	2022-23	SRC	Seminar on World Humanitarium Day	190	21.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/114.pdf)
115	2022-23	SRC	Seminar on World Peace Day	20	21.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/115.pdf)
116	2022-23	SRC	Workshop on Self Empowerment through Meditation-III	9	27.9.2022 to 1.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/116.pdf)
117	2022-23	SRC	Workshop on Self Empowerment through Meditation-IV	14	10.10.2022 to 15.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/117.pdf)
118	2022-23	SRC	Workshop on 5 AM Club	33	14.11.2022 to 19.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/118.pdf)
119	2022-23	SRC	Aura Scanning Awareness Workshop	76	27.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/119.pdf)
120	2022-23	SRC	Seminar on Magic of Meditation	194	29.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/120.pdf)
121	2022-23	SRC	Seminar on Meditation Course-I	35	14.12.2022 to 17.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/121.pdf)
122	2022-23	SRC	Workshop on Enlightenment 6.0	190	26.12.2022 to 30.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/122.pdf)
123	2022-23	SRC	Workshop on 7 days Meditation	65	5.1.2023 to 11.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/123.pdf)
124	2022-23	SRC	Seminar on Study Technique and Time Management	405	15.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/124.pdf)

125	2022-23	SRC	Workshop on Meditation Course	38	22.3.2023 to 28.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/125.pdf)
126	2022-23	SRC	Expert talk on Overcoming Overthinking	391	27.4.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/126.pdf)
127	2022-23	JIC	STARTUP CONCLAVE	80	12.7.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/127.pdf)
128	2022-23	JIC	Seminar on Empowering Entrepreneurship at JECRC	110	29.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/128.pdf)
129	2022-23	JIC	Seminar on LinkedIn Professional Platform	55	24.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/129.pdf)
130	2022-23	JIC	Content Writing Workshop	55	25.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/130.pdf)
131	2022-23	JIC	Graphic Designing Workshop	55	27.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/131.pdf)
132	2022-23	JIC	Video Editing Workshop	55	28.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/132.pdf)
133	2022-23	JIC	PR, Relationship Building & Leadership Skills Workshop-	55	29.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/133.pdf)
134	2022-23	JIC	Workshop on Empowering JECRC Students in the Startup Ecosystem	30	19.3.2023 to 21.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/134.pdf)
135	2022-23	JIC	Makerspace E-Wonders Exhibition - Turning E-Waste into Innovation	200	6.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/135.pdf)
136	2022-23	JIC	Seminar on Kartavya Path Blog Launch	650	26.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/136.pdf)
137	2022-23	JIC	Seminar on Launch of JECRC Civil Services Society	550	8.9.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/137.pdf)
138	2022-23	JIC	Expert Talk by Mr. Shantanu Naidu	500	26.8.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/138.pdf)

139	2022-23	MUN	Conference on Empowering Deliberations shaping the world	300	13.5.2023 to 14.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/139.pdf)
140	2022-23	IEEE	Expert talk on IEEE Quarter Tech	188	29.4.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/140.pdf)
141	2022-23	IEEE	Expert Talk by Alumni (Kanika and Kinjal)	22	20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/141.pdf)
142	2022-23	IEEE	Expert Talk on Cybersecurity & AI: How to Prepare Today to Make a Career Move into The Most Rewarding & Promising Careers of 21st Century	47	15.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/142.pdf)
143	2022-23	Toastmasters	Joint Area Conference	36	20.11.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/143.pdf)
144	2022-23	Toastmasters	Seminar on Toastmaster Leadership Training	36	31.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/144.pdf)

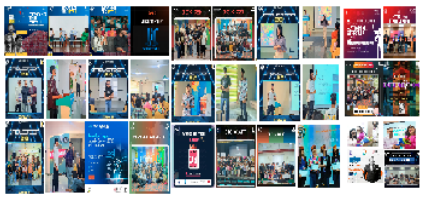
9.6 Entrepreneurship Cell (5) Total Marks 5.00

Institute Marks : 5.00

Entrepreneurship/ JIC cell is established in, our College for encouraging and inspiring students for start-ups and entrepreneur. Various interactive sessions for students with alumni and start-up representative are organized to know the importance of being an entrepreneur and ways to get financial assistance to become an entrepreneur.

JECRC Incubation Centre (JIC)

1	2022-23	JIC	Seminar on LinkedIn Professional Platform	55	24.1.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/129.pdf)
2	2022-23	JIC	Content Writing Workshop	55	25.1.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/130.pdf)
3	2022-23	JIC	Graphic Designing Workshop	55	27.1.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/131.pdf)
4	2022-23	JIC	Video Editing Workshop	55	28.1.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/132.pdf)
5	2022-23	JIC	PR, Relationship Building & Leadership Skills Workshop-	55	29.1.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/133.pdf)
6	2022-23	JIC	Workshop on Empowering JECRC Students in the Startup Ecosystem	30	19.3.2023 to 21.3.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/134.pdf)
7	2022-23	JIC	Makerspace E-Wonders Exhibition - Turning E-Waste into Innovation	200	6.5.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/135.pdf)
8	2022-23	JIC	Seminar on Kartavya Path Blog Launch	650	26.6.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/136.pdf)
9	2022-23	JIC	Seminar on Launch of JECRC Civil Services Society	550	8.9.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/137.pdf)
10	2022-23	JIC	Expert Talk by Mr. Shantanu Naidu	500	26.8.2023	View Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/138.pdf)



Incubation Details:

Name of Startup	Team Member Details	Contact Number	Roll No.	Branch	Year
Local Eyes	Ujjwal Mittal	8209658878	19EJCIT101	IT	4th
Doctunes	Dewang Bhardwaj	8118866530	19EJCEC045	EE	4th
E-BharatVehicle	Aman Somvanshi	8890548025	21EJCEC018	ECE	2nd

E-BharatVehicle	Aagam Jain	8696509768	21EJCEC001	ECE	2nd
E-BharatVehicle	Sejal Pokharna	9119288802	21EJCIT117	IT	2nd
E-BharatVehicle	Muskan Mathur	9358884526	21EJCEC088	ECE	2nd
SkillZylla	Manish Kumawat	9983941734	20EJCAD038	AI & DS	3rd
SkillZylla	Khushi Sharma	9983788873	20EJCAD035	AI & DS	3rd
SkillZylla	Ishita Goyal	7296992912	20EJCAD026	AI & DS	3rd
QURABLE	Aayu	8825312144	21EJCEC003	ECE	2nd
QURABLE	Amit kataria	8302051165	21EJCEC019	ECE	2nd
QURABLE	Varuna Sharma	9460607852	21EJCEC137	ECE	2nd
Biddu	Mohan lal	9610871475	20EJCEC090	ECE	3rd
Biddu	Yogesh Kumar Dadhich	6367374282	20EJCEC176	ECE	3rd
Biddu	Jyoti Soni	6367551734	20EJCEC063	ECE	3rd
Biddu	Neha Mangal	6367003189	20EJCCS179	CSE	3rd
Second Mind	Ritik Chhipa	8003867420	20EJCEC131	ECE	3rd
Second Mind	Rajnandini soni	9001120465	20EJCEC128	ECE	3rd
Second Mind	Tushar Chaturvedi	7742438595	20EJCEC160	ECE	3rd
DevsCon	Pranav Purohit	9461459156	21EJCIT095	IT	2nd
DevsCon	Khushal Jangid	9828126444	21EJCAD034	AI	2nd
7Colors	Yash Soni	7878754950	21EJCEC141	ECE	2ND
7Colors	Khush Goyal	98871 30005	21EJCEC066	ECE	2ND
7Colors	Vishakha SIngh	9983306002	21EJCCS838	CSE	2nd
LokFolk	Vishakha Singh	9983306002	21EJCCS838	CSE	2nd
Bazarpur	Ankit	9983338450	19EJCCE015	CE	4th
THE DARJI	Vishal Saini	8619886652	21EJCCS839	CSE	2nd
THE DARJI	Mridul Sharma	7062513844	21EJCCS146	CSE	2nd
Decarbz	Hardik Maheshwari	9929179488	20EJCIT063	IT	3rd
Decarbz	Aditya Singh Naruka	6376897750	20EJCIT06	IT	3rd
decarbz	aditya singh naruka	6376897750	20EJCIT006	IT	3rd

9.7 Co-curricular and Extra-curricular Activities (10) Total Marks 10.00

Institute Marks : 10.00

Co-curricular Activities:

The Institute has a fully functional nominated students Council i.e. JECRC Student development cell that aims to bring all the students of the Institute under one roof with the objective of establishing a common ground for extracurricular activities as well as providing a platform for sharing talent, culture, and innovative ideas. In addition to that, JECRC Student development cell organizes a handful of events comprising different genres such as delegation, workshops, cultural, etc which help students working as Organizers to develop interpersonal skills such as leadership, positive attitude, relationship management, and team management.

Number of Seminars/conferences/workshops conducted by the institution during the year 2022-23

S. No. (http://s.no/)	Year	Department	Name of the workshop/ seminar/Conferences	Number of Participants	Date (From – To)	Link to the Activity report on the website
1	2022-23	Civil Engineering	A Seminar on "Importance of Civil Software"	80	27.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/1.pdf)
2	2022-23	Civil Engineering	A Guest Lecture On " Water Design Management Software	23	12.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/2.pdf)
3	2022-23	Civil Engineering	A Seminar on "Pre-Placement Talk "	50	13.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/3.pdf)
4	2022-23	Civil Engineering	A Workshop on " Virtual Lab "	116	16.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/4.pdf)
5	2022-23	Civil Engineering	Hands On workshop on staadpro 2023	72	11.5.2023 to 13.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/5.pdf)
6	2022-23	Civil Engineering	A Workshop on " Virtual Lab "	261	14.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/6.pdf)
7	2022-23	Civil Engineering	Workshop on "Application on AUTOCAD in Civil Engineering"	25	1.5.2023 to 15.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/7.pdf)
8	2022-23	Civil Engineering	National Conference on Emerging Trends in Civil Engineering for Sustainable Development	108	17.5.2023 to 18.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/8.pdf)
9	2022-23	Civil Engineering	Workshop on Advanced Concrete Technology	60	12.09.2022 to 16.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/9.pdf)
10	2022-23	Civil Engineering	Workshop on Complex State of Stress System	60	01.10.2022 to 20.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/10.pdf)
11	2022-23	Civil Engineering	Workshop on Design and Analysis of High Rise Building	60	20.02.2023 to 18.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/11.pdf)
12	2022-23	Civil Engineering	Workshop on Vaastu Shastra	60	27.02.2023 to 19.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/12.pdf)

13	2022-23	Civil Engineering	Workshop on Ground Improvement	60	13.03.2023 to 03.05.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/13.pdf)
14	2022-23	First Year	Expert talk " Application of Mathematics in Science and Engineering"	145	1.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/14.pdf)
15	2022-23	First Year	Expert Talk on Cyber Security and Ethical Hacking	157	9.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/15.pdf)
16	2022-23	First Year	Expert talk" Real Life Application of Fibonacci Number and Golden Ratio"	107	14.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/16.pdf)
17	2022-23	First Year	Mathematics Week including mathematics project exhibition	252	19.12.2022 to 12.01.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/17.pdf)
18	2022-23	First Year	Expert talk on"Profile Building"	51	7.02.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/18.pdf)
19	2022-23	First Year	Expert Talk on "Queuing Modeling in Real Life Situations"	59	17.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/19.pdf)
20	2022-23	First Year	National Conference on Application of Basic sciences and communication in Engineering (NCASCE)	67	30.5.2023 to 31.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/20.pdf)
21	2022-23	First Year	International Mathematics Symposium	180	14.03.2023 to 15.03.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/21.pdf)
22	2022-23	First Year	Workshop on Scientific Research Writing Phase-1	32	01.12.2022 to 20.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/22.pdf)
23	2022-23	First Year	Workshop on Scientific Research Writing Phase-2	30	01.05.2023 to 25.05.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/23.pdf)
24	2022-23	First Year	Workshop on English Proficiency	60	06.02.2023 to 10.02.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/24.pdf)
25	2022-23	First Year	A Mathematical Workshop and Test (Phase-1)	47	05.06.2023 to 09.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/25.pdf)
26	2022-23	First Year	A Mathematical Workshop and Test (Phase-2)	79	12.06.2023 to 16.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/26.pdf)

27	2022-23	IT	Two day Workshop on Python and Devops	149	2.9.2022 to 3.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/27.pdf)
28	2022-23	IT	Expert Talk on Industry Interaction Program	90	14.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/28.pdf)
29	2022-23	IT	Workshop on security issues in cloud computing	82	8.11.2022 to 9.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/29.pdf)
30	2022-23	IT	Workshop on Crack the C	24	15.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/30.pdf)
31	2022-23	IT	Guest Lecture on Non Linear Data Structure	64	8.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/31.pdf)
32	2022-23	IT	Expert talk on "Android Development"	170	21.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/32.pdf)
33	2022-23	IT	Expert Talk on "Block Chain Technology"	113	24.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/33.pdf)
34	2022-23	IT	5th National Conference On Information Technology & Security Applications (NCITSA-2023)	100	15.5.2023 to 16.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/34.pdf)
35	2022-23	IT	Workshop on Cloud Engineering & DevOps	31	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/35.pdf)
36	2022-23	IT	Workshop on Full Stack Web Development using Django (Session-1)	7	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/36.pdf)
37	2022-23	IT	Workshop on Full Stack Web development using Django (Session-2)	21	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/37.pdf)
38	2022-23	IT	Workshop on ML-DL & AI (Session-1)	39	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/38.pdf)
39	2022-23	IT	Workshop on ML-DL & AI (Session-2)	21	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/39.pdf)
40	2022-23	IT	Workshop on Python Scripting & Application Development	81	25.09.2022 to 31.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/40.pdf)

41	2022-23	IT	Workshop on Google Cloud Computing Foundations: Cloud Computing Fundamentals	111	21.03.2023 to 10.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/41.pdf)
42	2022-23	AI&DS	A Seminar on GSOC 23	70	6.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/42.pdf)
43	2022-23	AI&DS	Seminar on Open Source Dev Day with Microsoft, Azure & GitHub	120	19.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/43.pdf)
44	2022-23	AI&DS	Expert Lecture on Web 3.0	100	24.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/44.pdf)
45	2022-23	AI&DS	Work shop " Applications of C Programming" In Artificial Intelligence & Data Science	55	12.09.2022 to 17.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/45.pdf)
46	2022-23	AI&DS	Google Cloud Computing Foundations: Cloud Computing Fundamentals	23	21.03.2023 to 10.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/46.pdf)
47	2022-23	AI&DS	Technical Event Virtual Vision	95	12.12.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/47.pdf)
48	2022-23	AI&DS	Seminar on IEEE Git Hub Session	50	2.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/48.pdf)
49	2022-23	CSE	Workshop on Ethical Hacking	115	17.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/49.pdf)
50	2022-23	CSE	Webinar on Campus Corporate	158	1.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/50.pdf)
51	2022-23	CSE	Workshop on Career in Salesforce	150	7.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/51.pdf)
52	2022-23	CSE	Expert Lecture on Data Science	200	4.4.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/52.pdf)
53	2022-23	CSE	Workshop on How to write research paper	200	5.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/53.pdf)
54	2022-23	CSE	Workshop on Game Development Using Python	45	11.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/54.pdf)

55	2022-23	CSE	Expert Lecture on Effective Organisational Communication	113	20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/55.pdf)
56	2022-23	CSE	International Conference on Emerging Trends in Expert Applications & Security (ICE-TEAS 2023)	122	17.2.2023 to 19.2.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/56.pdf)
57	2022-23	CSE	5 th National Conference on Contemporary Issues in Computer Technology	200	20.5.2023 to 21.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/57.pdf)
58	2022-23	CSE	Workshop on DevOps with Cloud Computing-1	111	15.07.2022 to 05.08.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/58.pdf)
59	2022-23	CSE	Workshop on Machine Learning with Python (Basic)	90	15.07.2022 to 15.08.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/59.pdf)
60	2022-23	CSE	Workshop on DevOps & Site Reliability Engineering	17	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/60.pdf)
61	2022-23	CSE	Workshop on Full Stack Web Development using Django (Session-1)	60	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/61.pdf)
62	2022-23	CSE	Workshop on Full Stack Web Development using Django (Session-2)	103	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/62.pdf)
63	2022-23	CSE	Workshop on ML-DL & AI (Session-1)	141	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/63.pdf)
64	2022-23	CSE	Workshop on ML-DL & AI (Session-2)	28	15.03.2023 to 30.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/64.pdf)
65	2022-23	CSE	Workshop on Cloud Engineering & DevOps	37	01.09.2022 to 30.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/65.pdf)
66	2022-23	CSE	Workshop on Python Scripting & Application Development	22	25.09.2022 to 31.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/66.pdf)
67	2022-23	CSE	Google Cloud Computing Foundations: Cloud Computing	240	21.03.2023 to 10.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/67.pdf)
68	2022-23	ME	A Guest Lecture On " Application areas of Mechanical 2D & 3D Drawing/ Designing Softwares"	70	30.8.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/68.docx)

69	2022-23	ME	A Workshop on " CNC MACHINES "	68	8.9.2022 to 9.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/69.docx)
70	2022-23	ME	A Workshop On Electric Vehicle Technology	42	11.10.2022 to 12.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/70.docx)
71	2022-23	ME	Guest Lecture on Programming Language	30	24.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/71.pdf)
72	2022-23	ME	Guest Lecture on Cadmate	30	12.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/72.docx)
73	2022-23	ME	Expert Talk on "Industrial Pumps"	10	17.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/73.docx)
74	2022-23	ME	Guest Lecture on "Plastic Mould Manufacturing"	26	22.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/74.docx)
75	2022-23	ME	Guest Lecture on "Additive Manufacturing"	28	23.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/75.docx)
76	2022-23	ME	Expert Talk on "How Students make their career in blockchain Industry"	26	24.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/76.docx)
77	2022-23	ME	7th National Conference on Futuristic Trends in Mechanical Engineering (NCFTME-2023)	78	19.5.2023 to 20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/77.docx)
78	2022-23	ME	Workshop on Software Tools for Design and Analysis of E-Vehicles (Phase-1)	15	20.06.2022 to 02.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/78.pdf)
79	2022-23	ME	Workshop on Working and Assembly-Disassembly of E-Vehicles (Phase-1)	15	04.07.2022 to 16.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/79.pdf)
80	2022-23	ME	Workshop on E-Vehicles: Power Storage and Transmission Sub-System (Phase 1)	15	20.06.2022 to 02.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/80.pdf)
81	2022-23	ME	Workshop on E-Vehicles: Power Storage and Transmission Sub-System (Phase-2)	15	18.07.2022 to 30.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/81.pdf)
82	2022-23	ME	Working and Assembly-Disassembly of E-Vehicles (Phase-2)	15	04.07.2022 to 16.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/82.pdf)

83	2022-23	ME	Workshop on Software Tools for Design and Analysis of E-Vehicles (Phase-2)	15	18.07.2022 to 30.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/83.pdf)
84	2022-23	ME	Workshop on Additive Manufacturing with Different Technologies	68	24.04.2023 to 29.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/84.pdf)
85	2022-23	ME	Workshop on Electric Vehicle Technology	139	10.10.2022 to 15.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/85.pdf)
86	2022-23	ECE	Two days Workshop in Data Science Using Python	80	30.8.2022 to 31.8.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/86.pdf)
87	2022-23	ECE	Workshop on 5G technology and its Challenges	80	15.8.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/87.pdf)
88	2022-23	ECE	Expert Talk on "IEEE Awareness Session"	109	10.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/88.pdf)
89	2022-23	ECE	Expert Talk on "Inauguration of IEEE Student Branch"	46	16.2.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/89.pdf)
90	2022-23	ECE	Expert Talk on " Learning of Futuristic Career-Oriented Techniques"	70	11.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/90.pdf)
91	2022-23	ECE	National Conference on Recent Advancement in Communication, Optical and Nanoscience (RACON-2023)	230	19.5.2023 to 20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/91.pdf)
92	2022-23	ECE	Workshop on Machine Learning with Python	42	03.11.2022 to 05.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/92.pdf)
93	2022-23	ECE	Workshop on Advance Embedded System and IOT-1	71	10.03.2022 to 09.04.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/93.pdf)
94	2022-23	ECE	Workshop on Advance Embedded System and Design-2	132	20.08.2022 to 19.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/94.pdf)
95	2022-23	ECE	Workshop on Advance Embedded System and Design-3	71	15.09.2022 to 16.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/95.pdf)
96	2022-23	ECE	Workshop on Advance Embedded System and Design-4	42	03.11.2022 to 05.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/96.pdf)

97	2022-23	ECE	Workshop on Machine Learning and Data Science using Python	62	05.01.2023 to 05.02.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/97.pdf)
98	2022-23	ECE	Workshop on Artficial Intelligence	164	03.03.2023 to 04.04.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/98.pdf)
99	2022-23	ECE	Workshop on Data Engineering over clouds and DevOps	73	10.07.2022 to 15.08.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/99.pdf)
100	2022-23	ECE	Workshop on Python Application Devolopement	102	10.10.2022 to 15.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/100.pdf)
101	2022-23	EE	Workshop on Introduction to PV System series 1	30	26.08.2022 to 12.09.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/101.pdf)
102	2022-23	EE	Workshop on Introduction to PV System Series 2	30	01.11.2022 to 18.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/102.pdf)
103	2022-23	EE	Workshop on Embedded System-1	44	16.03.2023 to 31.03.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/103.pdf)
104	2022-23	EE	Workshop on Embedded System-2	44	25.04.2023 to 11.05.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/104.pdf)
105	2022-23	EE	Workshop on Fundamentals of C programming	47	04.10.2022 to 21.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/105.pdf)
106	2022-23	EE	Expert talk on Operations of Grid Sub Station	61	08.06.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/106.pdf)
107	2022-23	EE	Report on Event “Appie-2023”	52	15.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/107.pdf)
108	2022-23	EE	Report on Alumni Talk	60	21.07.23	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/108.pdf)
109	2022-23	SRC	Workshop on Meditation Course	17	20.7.2022 to 27.7.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/109.pdf)
110	2022-23	SRC	Workshop on Self Empowerment through meditation-I	10	29.8.2022 to 3.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/110.pptx)

111	2022-23	SRC	Seminar on Declutter the Mind	163	12.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/111.pdf)
112	2022-23	SRC	Workshop on Meditation Course	58	19.9.2022 to 26.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/112.pdf)
113	2022-23	SRC	Workshop on Self Empowerment through Meditation-II	13	20.9.2022 to 24.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/113.pdf)
114	2022-23	SRC	Seminar on World Humanitarium Day	190	21.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/114.pdf)
115	2022-23	SRC	Seminar on World Peace Day	20	21.9.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/115.pdf)
116	2022-23	SRC	Workshop on Self Empowerment through Meditation-III	9	27.9.2022 to 1.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/116.pdf)
117	2022-23	SRC	Workshop on Self Empowerment through Meditation-IV	14	10.10.2022 to 15.10.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/117.pdf)
118	2022-23	SRC	Workshop on 5 AM Club	33	14.11.2022 to 19.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/118.pdf)
119	2022-23	SRC	Aura Scanning Awareness Workshop	76	27.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/119.pdf)
120	2022-23	SRC	Seminar on Magic of Meditation	194	29.11.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/120.pdf)
121	2022-23	SRC	Seminar on Meditation Course-I	35	14.12.2022 to 17.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/121.pdf)
122	2022-23	SRC	Workshop on Enlightenment 6.0	190	26.12.2022 to 30.12.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/122.pdf)
123	2022-23	SRC	Workshop on 7 days Meditation	65	5.1.2023 to 11.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/123.pdf)
124	2022-23	SRC	Seminar on Study Technique and Time Management	405	15.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/124.pdf)

125	2022-23	SRC	Workshop on Meditation Course	38	22.3.2023 to 28.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/125.pdf)
126	2022-23	SRC	Expert talk on Overcoming Overthinking	391	27.4.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/126.pdf)
127	2022-23	JIC	STARTUP CONCLAVE	80	12.7.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/127.pdf)
128	2022-23	JIC	Seminar on Empowering Entrepreneurship at JECRC	110	29.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/128.pdf)
129	2022-23	JIC	Seminar on LinkedIn Professional Platform	55	24.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/129.pdf)
130	2022-23	JIC	Content Writing Workshop	55	25.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/130.pdf)
131	2022-23	JIC	Graphic Designing Workshop	55	27.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/131.pdf)
132	2022-23	JIC	Video Editing Workshop	55	28.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/132.pdf)
133	2022-23	JIC	PR, Relationship Building & Leadership Skills Workshop-	55	29.1.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/133.pdf)
134	2022-23	JIC	Workshop on Empowering JECRC Students in the Startup Ecosystem	30	19.3.2023 to 21.3.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/134.pdf)
135	2022-23	JIC	Makerspace E-Wonders Exhibition - Turning E-Waste into Innovation	200	6.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/135.pdf)
136	2022-23	JIC	Seminar on Kartavya Path Blog Launch	650	26.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/136.pdf)
137	2022-23	JIC	Seminar on Launch of JECRC Civil Services Society	550	8.9.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/137.pdf)
138	2022-23	JIC	Expert Talk by Mr. Shantanu Naidu	500	26.8.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/138.pdf)

139	2022-23	MUN	Conference on Empowering Deliberations shaping the world	300	13.5.2023 to 14.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/139.pdf)
140	2022-23	IEEE	Expert talk on IEEE Quarter Tech	188	29.4.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/140.pdf)
141	2022-23	IEEE	Expert Talk by Alumni (Kanika and Kinjal)	22	20.5.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/141.pdf)
142	2022-23	IEEE	Expert Talk on Cybersecurity & AI: How to Prepare Today to Make a Career Move into The Most Rewarding & Promising Careers of 21st Century	47	15.6.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/142.pdf)
143	2022-23	Toastmasters	Joint Area Conference	36	20.11.2023	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/143.pdf)
144	2022-23	Toastmasters	Seminar on Toastmaster Leadership Training	36	31.07.2022	**View Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-3/Semi-Conf-Workshops/144.pdf)

Sports Activities:

https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/SPORTS-22-23.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/SPORTS-22-23.pdf)

Details of activities conducted under Sports:

2023-24

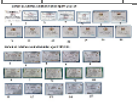
S.No	Name of the Award	National / International	Name of the Student	Starting Date of Event (From)	Ending Date of Event (to)	Organized by
1	Badminton (Boys) Ist Position	National	Tushar Dhaker 4th Year	6/11/2023	8/11/2023	University affiliated college SKIT
2	Badminton (Boys) Ist Position	National	Naman Sahay Bhatnagar	6/11/2023	8/11/2023	University affiliated college SKIT
3	Badminton (Boys) Ist Position	National	Raman Agarwal	6/11/2023	8/11/2023	University affiliated collegeSKIT
4	Badminton (Boys) Ist Position	National	Milan Sain	6/11/2023	8/11/2023	University affiliated college SKIT
5	Badminton (Boys) Ist Position	National	Madhav Saraswat	6/11/2023	8/11/2023	University affiliated college SKIT
6	Football (Boys) Winner	National	Raman Saxena 2nd Year	18/12/2023	26/12/2023	GNA Univ., Phagwara
7	Football (Boys) Winner	National	Parth Sharma 2nd year	18/12/2023	26/12/2023	GNA Univ., Phagwara
8	Football (Boys) Winner	National	Dhruv Nehra 2nd year	18/12/2023	26/12/2023	GNA Univ., Phagwara

9	Basketball (Girls) Winner	National	Khushboo Malpani 3rd Year	30/12/2023	3/1/2024	ITM, Gwalior
10	Basketball (Girls) Winner	National	Janvi Motwani 4th Year	30/12/2023	3/1/2024	ITM, Gwalior
11	Badminton (Boys) Winner	National	Tushar Dhaker 4th Year	25/12/2023	29/12/2023	DAV, Indore
12	Badminton (Boys) Winner	National	Naman Sahay Bhatnagar	25/12/2023	29/12/2023	DAV, Indore
13	Basketball (Boys) Winner	National	Krishana Pal Singh Saktawat 4th Year	26/12/2023	30/12/2023	Raj. Univ. Jaipur
14	Volleyball (Boys) Winner	National	Arman Ali 4th Year	14/12/2023	18/12/2023	SRTM Univ., Nanded

2022-23

S.No	Name of the Award	National / International	Name of the Student	Starting Date of Event (From)	Ending Date of Event (to)	Organized by
1	Badminton (Girls) Ist Position	National	Rakshita Dadhich	2/10/2024	4/10/2024	University affiliated college SKIT
2	Badminton (Girls) Ist Position	National	Anushka Sharma	2/10/2024	4/10/2024	University affiliated college SKIT
3	Badminton (Girls) Ist Position	National	Sonali Agrawal	2/10/2024	4/10/2024	University affiliated college SKIT
4	Badminton (Girls) Ist Position	National	Anjali Meena	2/10/2024	4/10/2024	University affiliated college SKIT
5	Badminton (Boys) Ist Position	National	Pranjal Arora	2/10/2024	4/10/2024	University affiliated college SKIT
6	Badminton (Boys) 2nd Position	National	Aman Agrawal	2/10/2024	4/10/2024	University affiliated college SKIT
7	Badminton (Boys) 2nd Position	National	Madhav Saraswat	2/10/2024	4/10/2024	University affiliated college SKIT
8	Badminton (Boys) 2nd Position	National	Tushar Dhaker 4th Year	2/10/2024	4/10/2024	University affiliated college SKIT
9	Badminton (Boys) 2nd Position	National	Milan Sain	2/10/2024	4/10/2024	University affiliated college SKIT
10	Badminton (Boys) 2nd Position	National	Ayush Bansal	2/10/2024	4/10/2024	University affiliated college SKIT
11	Table Tennis (Boys) Ist Position	National	Manan Babel	2/10/2024	4/10/2024	University affiliated college SKIT

12	Table Tennis (Boys) Ist Position	National	Sanyam Jain	2/10/2024	4/10/2024	University affiliated college SKIT
13	Table Tennis (Boys) Ist Position	National	Akash Singh Kushwaha	2/10/2024	4/10/2024	University affiliated college SKIT
14	Table Tennis (Boys) Ist Position	National	Ankit Godara	2/10/2024	4/10/2024	University affiliated college SKIT
15	Table Tennis (Boys) Ist Position	National	Prakhar Jain	2/10/2024	4/10/2024	University affiliated college SKIT



Details of activities conducted under NSS:

S. No	Name of Activity	Title of Activity	Resource Person	From Where	Total No. of Students
1	NSS Launching Ceremony NSS JECRC	Induction 2023	Dr. Surendra Singh, Mr. Surendra	NSS RTEGIONAL OFFICE, JAIPUR	250
2	Independence day Celebration at SMS stadium	Independence day Celebration	Rajasthan government	Rajasthan Government	25
3	Blood Donation and Health Checkup Camp	54th NSS Day Celebration	Eternal Hospital, Monilek Hospital	Eternal Hospital, Monilek Hospital	870
4	Cancer and Eye Checkup Camp	Cancer and Eye Checkup Camp	Karuna Sharma, (BMCHRC)	Mahaveer Hospital & Center of Sight	746
5	Walkathon at RAM LEELA MAIDAN, JAIPUR	Walkathon- Walk for Palliative Care	Bhgawan Mahaveer Cancer Hospital	RAM LEELA MAIDAN, JAIPUR	38
6	Induction Ceremony 2023	Orientation 2023	NSS VOLUNTEERS	JECRC Foundation	246

Academic Year 2024-25

7	Treasure Hunt	Campus Quest	NSS VOLUNTEERS	JECRC Foundation	53
8	Tug of War	Thug of War	NSS VOLUNTEERS	JECRC Foundation	67
9	Cleanliness Trek at KEDARNATH TREK , JAIPUR	Cleanliness Trek	NSS VOLUNTEERS	JECRC Foundation	58
10	Debate Competition	Inter JECRC Debate	NSS VOLUNTEERS	JECRC Foundation	8

NSS: https://jecrcfoundation.com/jf-data/AQAR2023-24/Extension/3/156.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Extension/3/156.pdf)

Details of activities conducted under professional bodies:

S. No.	List of Events	Report link	Date
1	Inaugration of IEEE Student Branch	View Document (https://docs.google.com/document/d/1yFAp2tatrdfLONoJJ_T0ktsTHfsEtR5t/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	16-Feb-23
2	Complete training session on GITHUB	View Document (https://docs.google.com/document/d/1rObN-wOJZMXEOJOPRu_Mmv6xOxjx0q1c/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	2-Mar-23
3	ROBO TUG OF WAR	View Document (https://docs.google.com/document/d/1DqgvzIyGqeSIlB-SeW4uuojfLHCOT1-T/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	14-Apr-23

4	Snakes and Ladders	View Document (https://docs.google.com/document/d/18h_UGlKm6KEOJ_g4K5lIK-BiwRs5wWg-/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	15-Apr-23
5	IEEE Quarter Tech Talk Table 9.0	View Document (https://docs.google.com/document/d/1ruilHpSOvnak0m7q6tEnF3eBE-OO8VOl/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	29-Apr-23
6	Chess	View Document (https://docs.google.com/document/d/17bZZU-80TLNTkHFjjY2MOlExnQd8223R/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	8-May-23
7	Expert Talk on Roadmap for Orientation to Graduation	View Document (https://docs.google.com/document/d/1o4bhJDJ8uhtarCx-JwXmSi2QtGlUV7LY/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	20-May-23
8	Cybersecurity & AI: How to Prepare Today to Make a Career Move into The Most Rewarding & Promising Careers of 21st Century	View Document (https://drive.google.com/file/d/1g6cFIWeUsDea0iZOhqSlfa3IAZ1DJQrs/view?usp=sharing)	15-Jun-23
9	Workshop on Embedded System Design and Development Using Arduino	View Document (https://docs.google.com/document/d/1aGLeXEjtMOM8ZmHoCUx4zHV5wxvbATyt/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	14-Sep-23
10	Mobile gaming_Report	View Document (https://docs.google.com/document/d/1T1cL8pQTcAuAlysXgOhfYXBEjzJNy1jU/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	3-Oct-23
11	Coding Event	View Document (https://docs.google.com/document/d/1u3TbjFWEnilgSu5mYmcIV7yShWX41vlP/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	3-Oct-23
12	Debate Compitition	View Document (https://docs.google.com/document/d/1NRFI7HHcgMbix8MPOMleAaWhVWdkt6c7/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	3-Oct-23
13	Talk on Cloud Computing	View Document (https://docs.google.com/document/d/1j0QwymWWpvvjTZd2ynt4AtWns6G8LTiP/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	3-Oct-23
14	Climate Change & Sustainability	View Document (https://docs.google.com/document/d/1Kqn_zxf3EdwOrKryuGTc2YuVzjkunZdq/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	5-Dec-23
15	YESIST12 2024	View Document (https://docs.google.com/document/d/1m0UmHvp4cAMU6joUCmrWxuDw6DmZ8hrP/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	6-Mar-24
16	CHESS	View Document (https://docs.google.com/document/d/17bZZU-80TLNTkHFjjY2MOlExnQd8223R/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	8-May-24
17	Photography Competition	View Document (https://docs.google.com/document/d/1i7RAjdStHYA3BhWhfqiyoatj-0Oz7rBf/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	3-Oct-23
18	BITS Coding Contest	View Document (https://docs.google.com/document/d/1u3TbjFWEnilgSu5mYmcIV7yShWX41vlP/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	21-Mar-24
19	Discover IEEE: Opportunities in Membership & Volunteering	View Document (https://docs.google.com/document/d/1buIg4A-TneY3Xe9Za2_YzhSNI75t8A8Y/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	22-Apr-24
20	Expert Talk by Dr. Gajender Purohit	View Document (https://docs.google.com/document/d/1oqzEBBkmMQHxxX_1R4ZRb1eZB3rCHRl9/edit?usp=sharing&ouid=113001525172611906295&rtpof=true&sd=true)	13-May-24

Games	
Outdoor	**Indoor**
Basketball	Table Tennis
Volley ball	Carom Boards
Cricket Ground	Chess Boards
Kho Kho Ground	Multigym
Football Ground	
Kabaddi	
Badminton	
Shot put(athletics)	

Cultural Events

https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-5/5-3/5.3.3AdditionalInformation.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-5/5-3/5.3.3AdditionalInformation.pdf)

Sample List of Activities:

S.No.	Club Name	Activity Name (2022-23)
1	Adaa	Adaa
2	Engima	Bootstraping, Footloose
3	Face and Footlight	Navras (Monoact)
4	Atrangi	Open-mic (Story telling)
		Rockathon (Music Band Event)
		Saare-Ga (Singing)
		Rapzap
5	Fotografreaks	Flick

Alumni Session: An alumni meet and greet session was organized

Alumni sessions were organized every year for the students eligible for placement drive .Mr. Rishil Gupta (got selected in Accenture & TTL) motivated the students and gave them the tips & techniques to get through the placements.Mr. Anurag Verma who got placed in Accenture & Mr. Anshul Khandelwal who got selected in Accenture & TTL.

Our Alumni shared their experience of getting placed & the beautiful journey they had in JECRC and told the to believe in yourself and to remember if the situation is not going according to you than believe in yourself , re-mind yourself that you are amazing and try again for a new role.

S. No.	Name of Activity	Link
1	JECRC Alumni Association	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/Jecrc-Alumni-Association.pdf)
2	JECRC IEEE	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/Jecrc-IEEE.pdf)
3	JECRC Toastmaster	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/Jecrc-toastmaster.pdf)
4	JIC	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/JIC.pdf)
5	Marvel Cart	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/Marvel-Cart.pdf)
6	Moonriders	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/MOONRIDERS.pdf)
7	Student Council and Fotografreaks	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/Student-Council-And-Fotografreaks.pdf)
8	Training and Placement Cell	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/Training-and-placement-cell.pdf)
9	PR Media	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/10/PR-Media.pdf)

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120) Total Marks 119.00

10.1 Organization, Governance and Transparency (40) Total Marks 40.00

10.1.1 State the Vision and Mission of the Institute (5) Institute Marks : 5.00

Vision :

Our Vision

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

Mission :

Our Mission

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

10.1.2 Governing body,administrative setup,functions of various bodies,service rules, procedures, recruitment and promotional policies (10) Institute Marks : 10.00

The trust and society has a Board of Governance which assists the board of trustees for the management of the college activities. The Governance also comprises of national repute eminent personalities, renowned academicians and experts from Industry. The committee assumes a role of Intellectual leadership and evaluates new scientific perspectives. It evolves policies and strategies for generation of innovations and development of technical programs. The main work of this committee is to give vision about new technology and courses that are to be initiated at the trust. It comprises of the Chairman, Member Secretary and the member of various institutes.

Board of governance as per AICTE that include chairman, secretary, 2-5 senior faculty members , nominated members from AICTE, affiliating university, state of government, invited members from other universities, invited parents, invited industry person.

Its Primary responsibilities include

Secretary present the report of institute as :-

- Planning and policy development
- Review of non–budgeted expenditures
- Approval of major infrastructural changes
- Financial and legal compliance
- Publicity
- Appointment of members of the governing boards
- Review of Institutional budgets
- Starting new courses or departments or institutions if any to the member and the minutes of meeting of the same are sent to NSERD for approval

BOG Committee 2023-24

S. No.	Name	Designation	Designation in the Governing body
1	Dr. Vinay Kumar Chandna	Principal	Chairman
2	Shri M. L. Sharma	Vice Chairman	Member Secretary
3	Dr. R.K .Mangal	Registrar	Member
4	Shri Manish Jain	Senior Faculty Member of the College	Member
5	Dr. Umesh Kumar Pareek	Senior Faculty Member of the College	Member
6	Nominee of State Government/UT		Member
7	Nominee of State Government/UT		Member
8	Dr. Ashok Sharma	Senior Faculty Member from the University	Member
9	Forsk Technology (Dr. Sylvester Farnandes)	Industrial Expert in the field of Engineering and Technology	Member
10	CADD Center Service Pvt. Ltd.Chennai	Industrial Expert in the field of Engineering and Technology	Member
11	Mr. Amit Agrawal		Guest

Frequency of meeting: Biannually

S.No	Academic Year	No. of Meeting
1	2023-24	2
2	2022-23	2
3	2021-22	2

Functions and Responsibilities

Governance of JECRC is the collective efforts of the following towards achieving mission and vision:

Board of Governors JECRC: - The institute governing body (NSERD) regularly meets to discuss various decisions and actions taken are analyzed. All the minutes of the meeting are presented in institute BOG as per AICTE from time to time and institute performance also presented.

Chairman: The in-charge of NSERD of the institute.

Vice-Chairman: - Vice-chairman stands inplace of the Chairman in his or her absence and also manage all the responsibilities related to the organization and gives suggestion to the growth of the organization.

Vice-chairperson: - Vice-chairperson stands inplace of the chairman in his absence.

Sr. Advisor: - He is a former administrative officer and regularly interacts with various bodies.

Principal: Head of the Institution, he shall exercise his authority for institution building. He acts as a competent authority for all faculty members and office staff and responsible for overall human resource management of their appointment, utilization, termination, disciplinary action etc. He will exercise signing powers as competentauthority.

IQAC: Internal Quality Assurance Cell takes the sole responsibility of enhancing prosperity and viability of institution by remaining vigilant about the quality of the education and other aspects with respect to grievance, maintenance, outreach, placement, etc.

Head of the Departments: HOD is the programme coordinator and implements all the rules and regulations of affiliating university / AICTE within the department. His responsibility includes preparing a budget, managing resources, coordinate with institutes/industries, repute for the benefits of faculty and students. He is having special financial empowerment to deal with exigencies in the department.

Faculty Members: They ensure effective curriculum delivery along with participation and organize various technical and non-technical activities in the department.

Director T&P:- Responsible for Training and placement related issues in the campus.

Staff: Technical staff members work for the smooth and functioning of laboratories and non- technical staff members handle administrative assistance.

Students: They organize and participate in technical and non-technical activities under the mentorship of faculty members.

Maintenance In-charge: He is responsible for maintenance related issues on the campus.

Alumni In-charge: It brings together a wealth of talented and capable professionals who share their expertise and experience, and brainstorm on the prospective avenues.

Registrar: He deals with the implementation of policies of regulating bodies and an affiliating university.

Chief Executive officer Responsible for comfortable lodging and boarding of all the students residing in hostels within the campus.

Librarian: Responsible for selecting, developing, cataloging, and classifying library resources.

Accounts Officer: The Account Officer looks after the financial resources of the institute.

NSERD (National Society for Engineering Research and Development Jaipur).

Members of society are governing body members include chairman ,vice chairman, secretary, advisor and principal JECRC as invite member. The society member approve all the financial implementation to the institute and also look after the progress of institute from time to time and based on that approval and advise to the institute head is provided by society.

Delegation of Powers to the various Authorities:

The Chairman JECRC Foundation, and the National Society for Engineering Research and Development (NSERD), has directed to convey the delegation of powers to the various authorities working in the NSERD promoted institutions. Our esteemed chairman is of the view that the collegeprincipal and the registrar should have adequate powers so that they are in a position to comply with the requirements of the regulatory and supervising bodies, and conduct day-to-day affairs in a positive and peaceful manner, under their own authority and signatures.

With a view to ensuring smooth and unambiguous functioning of the colleges, viz., Jaipur Engineering College and Research Centre and the delegated powers / authority are detailed hereunder.

Principal

- As Head of the Institution, he shall exercise his authority for institution building. He will act as competent authority for all faculty members andofficer staff and be responsible for overall human resource management their appointment, utilization, termination, disciplinary action etc. He will exercise signing powers as competent authority.
- He will act as superintendent and guide for all items of work related to AICTE RTU (Affiliating University), UGC. MHRD. Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies.
- Establish a climate in which faculty members and the students can develop self-discipline, and promote research.
- To formulate the budget and assess the infrastructural and other requirements well in advance and get the same approved from the Secretary, NSERD before execution.
- Impress amount of Rs. 1.00,000/- (Rs One Lakh Only)(consumption/need based) is also delegated for routine exercise.

Registrar

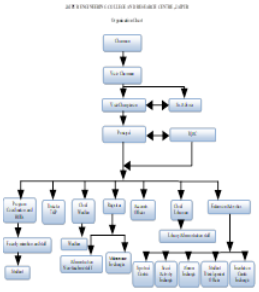
- He shall act competent authority for all office and sub-staff, and exercise signing powers as competent authority for their appointment, utilization, termination, disciplinary action. etc.
- He shall act as compliance officer to fulfill the regulatory guidelines etc. of AICTE. Will (Affiliating University), UGC, MHRD, Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies. He shall act as signing authority in all such matters.
- The registrar shall be the custodian of records and property of the college, and be directly responsible to the Director/Principal of the College for the proper discharge of his duties and functions, and exercise such other powers and perform such other duties as may be assigned to him by the Director/Principal.
- In the absence of Director / Principal, all powers shall vest in registrar and he shall exercise the authority and signing powers of the Principal including competent authority for faculty members, etc.

Minutes of the last meeting is annexed as below

BOG MOM: https://jecrcfoundation.com/wp-content/uploads/2023/03/BOG-MOM-20-21.pdf (https://jecrcfoundation.com/wp-content/uploads/2023/03/BOG-MOM-20-21.pdf)

Frequency of the Meetings of Board of Governance (Minutes of Meeting)

S.NO.	Year/Session		Related Link
1	2023-24	BOG MOM	Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Composition-of-Board-of-Governors-2023-24.pdf)
2	2022-23		Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/BOG%20Committee%202022-23.pdf)
3	2021-22		Link (https://jecrcfoundation.com/pdf/bog/BOG%20MOM%2021-22.pdf)



Roles and Responsibilities:

Position	Functions
Chairman Governing Body	• Chairman is the Chief Mentor of the Institution, and heads the Governing Body (GB). • He is the final authority to approve all policy matters on expansions, collaborations, financial outlays, budgetary allocations and admin related decision. • He approves the recruitment of senior management staff.
Principal	• As Head of the Institution, he shall exercise his authority for institution building. He will act as Competent Authority for all Faculty Members and Officer staff and be responsible for overall human resource management their appointment, utilization, retrenchment, termination, disciplinary action. etc. He will exercise signing powers as competent authority. • He will act as superintendent and guide for all items of work related to AICTE RTU (Affiliating University), UGC. MHRD. Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies. • Establish a climate in which faculty members and the students can develop self-discipline, and promote research. • To formulate the Budget and assess the infrastructural and other requirements well in advance and get the same approved from the Secretary, NSERD before execution. • Impress amount of Rs. 1.00,000/- (Rs One Lakh Only) (consumption/need based) is also delegated for routine exercise.
Registrar	• He shall act competent authority for all office and sub-staff, and exercise signing powers as competent authority for their appointment, utilization, termination, disciplinary action. etc. • He shall act as Compliance Officer to fulfill the regulatory guidelines etc. of AICTE. Will (Affiliating University), UGC, MHRD, Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies. He shall act as signing authority in all such matters. • The Registrar shall be the custodian of records and property of the college, and be directly responsible to the Director/Principal of the College for the proper discharge of his duties and functions, and exercise such other powers and perform such other duties as may be assigned to him by the Director/Principal. • In the absence of Director / Principal, all powers shall vest in Registrar and he shall exercise the authority and signing powers of the Principal including competent authority for faculty members, etc.
Head of Department	The Head of departments is responsible for: • Administration of the department in respect of regularity, punctuality, distribution of teaching work and laboratory work among the staff. • The HOD should be well informed about the activities and programs of other professional colleges and institutions. HOD should keep good contacts with the faculty of IITs, other Universities and colleges in the country and to the extent possible, Universities abroad. • Preparation of class-wise timetables. • Maintain laboratory-wise stock registers • Organizing special lectures by experts, technical staff, seminars & conferences and refresher courses. • Encourage the faculty and staff to improve their academic qualifications without effecting normal curriculum. • Encourage students to develop communication skills, report writing, debating and group discussions etc. • Extend all possible help to students of the department for training/project work/professional employment.
Accounts and Admin	• Recording and reporting the cash flows. • Accounts receivable &Accounts payable • Payroll & Financial controls

Industry Institute Interaction Cell	• To create a platform for industry institute interaction. • To establish inter-relationship between Institute & Industry through know-how and MOU's. • To facilitate student/faculty internships at industries. • To organize industrial visits for the students. • To organize technical talks for the students from the industry experts.
Entrepreneurship Development Cell	• To nurture the student ideas and to develop innovative products. • To support the student projects with funding. • To establish & maintain incubation centre. • To create entrepreneurs echo system for students. • To maintain data relevant to entrepreneurship programmes. • To encourage & establish start-up companies.

INTERNAL QUALITY ASSURANCE CELL

IQAC VISION

To monitor, advise and ensure, initiatives taken by the institute to improve quality in education and administrative setup by doing periodic monitoring & evaluation and achieving new benchmarks.

IQAC MISSION:

1) To establish outcome based learning environment that includes value based system.
2) To encourage all the departments to outreach and build relationships with the institutes and industries of repute at global level.
3) To develop a system that consistently monitors and advises the initiatives taken by the institute and encourages improvement upon best practices.
4) To develop universal rules and rubrics for all sections.

IQAC STRATEGIES:

1) IQAC shall create process to ensure that all the academic and administrative tasks are performed timely and efficiently
2) IQAC shall suggest various academic / research based programmes.
3) IQAC shall create process for outcome based learning.
4) IQAC shall advise transparency.
5) IQAC shall monitor and motivate initiatives of the institute towards the benefits of various sections of society.
6) To monitor the progress of strategic planning of the institute and provide necessary support.

The members of Internal Quality Assurance Cell for the session 2023-24

S. No	Name	Designation
1.	Dr V.K Chandna	IQAC Chairperson
2.	Dr. M.P. Singh	IQAC coordinator
3.	Dr. Fauzia Siddiqui	IQAC co-coordinator
4.	Dr. Sanjay Gaur	Program coordinator CSE
5.	Dr. Smita Agarwal	Program coordinator IT
6.	Dr. Sandeep Vyas	Program coordinator ECE
7.	Dr. Prerak Bhardwaj	Program coordinator EE
8.	Dr Krishan Kumar Saini	Program coordinator CE
9.	Dr. Manju Vyas	Program coordinator AI&DS
10.	Dr Neeraj Singh	Program coordinator CS(AI)
11.	Dr. Ruchi Mathur	Dean I year
12.	Shri M.L.Sharma, Former Income Tax Asstt Commissioner	Member
13.	Mr. Manish Jain, Management Representative	Member
14.	Ms. Mansi Mehta, Alumni	Member
15.	Shri Manish Kumar, Parent	Member
16.	Ms. Akriti Mangal, Student	Member
17.	Mr. Rajiv Bhargava, Industrial Representative	Member
18.	Shri Ramesh Rawat	Member
19.	Dr. R.K. Mangal, Registrar	Member

The Institute follows a hierarchical tree like structured where the roles and responsibilities of every individual are defined. The organization structure also controls and maintains the qualityof all the decisions and planning through formation of IQAC which is responsible for assuring the quality in every frame. The powers and responsibilities for academic, administrative and other functions are well defined .Various mandatory committees are well constituted .All the activities are being conducted effectively.All the mandatory academic and administrative bodies are constituted as per rule and functioning effectively and efficiently for smooth running of institute. Administrative and academic setup is well defined. Service conditions and rules for teachers and other technical staff are well defined and notified by the management.

Committee:

National Society for Engineering Research and Development(NSERD)

Board of Governance (As per AICTE)

Anti-Ragging Committee

Student Grievance Redressal Committee

Women Cell Committee

Students Disciplinary Council Committee

Anti-Ragging Squad Committee

SC/ST Cell Committee

IQAC Committee

Training & Placement Committee

Admission Committee

Alumni Committee

Co-curricular Committee

Examination Committee

Hostel Committee

Infrastructure Development Committee

Library Committee

All the above-mentioned bodies regularly conduct meetings related to the smooth functioning of various sections and review the process and procedure from time to time. The policies with respect to various sections are defined and updated after regular intervals of time as the case may be.

Service rules, Procedures, Recruitment and Promotional Policies Recruitment Procedure

The published rules including service rules, policies and procedure

Service Rule link: https://jecrcfoundation.com/wp-content/uploads/2023/03/Handbook-Brochure-1.pdf (https://jecrcfoundation.com/wp-content/uploads/2023/03/Handbook-Brochure-1.pdf)

Strategic planning Link: https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-6/Strategic-Planning%2023-28.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-6/Strategic-Planning%2023-28.pdf)

JECRC Policy Link: https://jecrcfoundation.com/wp-content/uploads/2023/04/Policy-Booklet.pdf (https://jecrcfoundation.com/wp-content/uploads/2023/04/Policy-Booklet.pdf)

S.No	Year of Students List	Link	Year of Faculty List	Link
1	2023-24 Student list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Student-List-2023-24.pdf)	2023-24 Faculty list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Faculty-List-2023-24-Final.pdf)
2	2022-23 Student List	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-2/List-of-students.pdf)	2022-23 Faculty list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/2.4.1.%20Faculty%20List%202022-23.pdf)

10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks : 10.00

The Management of JECRC believes in delegating authority and responsibility among its officials involved in decision making at various capacities. At the institute level, Principal is the head of the institution to look after the day-to-day functions. All the Heads of the departments are members of the IQAC. Many senior and capable faculty members occupy pivotal administrative positions like Senior Advisor, Dean first year, Placement Officer, chief wardens, Registrar, account officer, chief librarian, extension activities incharge etc. and are also members of various decision-making administrative bodies. Their suggestions are appreciated and considered.

Organization Chart:

HEAD OF ACADEMIC PROGRAM/DEPARTMENTS AND ADMINISTRATION

Program/Department/Section	Head
Principal	Prof. (Dr.) Vinay Kumar Chandna
Dean First Year	Dr. Ruchi Mathur
Deputy Dean First Year	Dr. Barkha Shrivastava
HOD Civil Engineering	Dr. Krishan Kumar Saini
HOD Electrical Engineering	Dr. Prerak Bhardwaj
HOD Electronics and Communication Engineering	Dr. Sandeep Vyas
HOD Mechanical Engineering	Dr. M.P. Singh
HOD Computer Science and Engineering	Dr. Sanjay Gaur
HOD Information Technology	Dr. Smita Agarwal
HOD Computer Science an (AI)	Dr. Neeraj Singh
HOD Artificial Intelligence & Data Science	Dr. Manju Vyas

Management and Administration	Head
Vice Chairman	Shri M.L. Sharma
Senior Advisor	Shri O.P. Jain
Senior Advisor	Shri P.K. Tiwari
Senior Advisor	Prof. S.N. Gupta
Chief Administrator Officer	Shri V.K. Singhal
Registrar	Dr. R.K. Mangal
Librarian	Dr. Anita Jain
Sport Officer	Dr. Rajesh Sharma
Chief Hostel Warden	Shri V.K. Singhal
OS Office	Shri Sukesh Pathak
Account Officer	Shri Sumit Agarwal Shri Sandesh Pathak

Management Committees

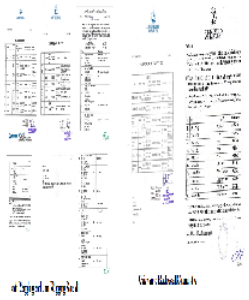
Chairman	Shri O.P. Agarwal
Vice Chairman	Shri M.L. Sharma
Director	Shri Amit Agarwal
Director	Shri Arpit Agarwal

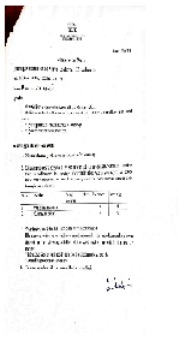
Institutional Committee and Link for the session 2023-24 and 2022-23

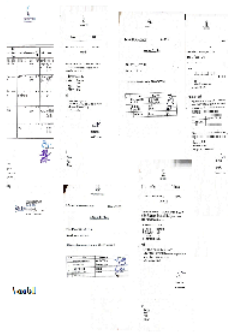
S. No	Name of Committee	Link 2023-24	Link 2022-23
1	National Society for Engineering Research and Development(NSERD)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/11/NSERD%20and%20MOM%202023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/11/NSERD%20and%20MOM%202022-23.pdf)
2	Board of Governance (As per AICTE)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Composition-of-Board-of-Governors-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/BOG%20Committee%202022-23.pdf)

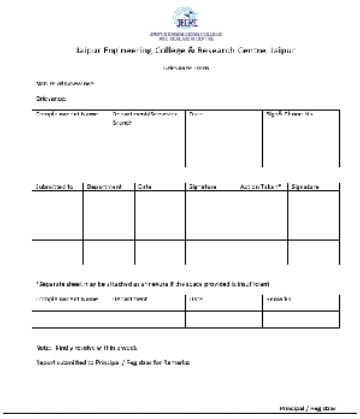
3	Anti-Ragging Committee	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Anti%20Ragging%20Committee%20and%20MOM.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/1/Anti-Ragging-MOM-2022-23.pdf)
4	Student Grievance Redressal Committee	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/3-GRIEVANCE-REDRESSAL-COMMITTEE-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/1/Grevieance-Rederessal-Committee-2022-23.pdf)
5	Women Cell Committee	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Women%20Cell%20MOM.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/1/Women-Cell-Composition-MOM-2022-23.pdf)
6	Students Disciplinary Council Committee	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Student%20Disciplinary%20Committee%20and%20MOM%202023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/1/Student-Disciplinary-Composition-and-MOM-2022-23.pdf)
7	SC/ST Cell Committee	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/5-SC-ST-Committee-2023-24.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/1/SC-ST-Composition-MOM-2022-23.pdf)
8	IQAC Committee	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/IQAC%20MOM%20Final.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/1/IQAC-Composition-MOM%202022-23.pdf)
9	Internal Committee	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/4-Establishment-of=Internal-Committee.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/11/Internal%20Committee%202022-23.pdf)
10	Institute Industry Cell	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/27-Institute-Industry-Cell-Details.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/11/IIC%202022-23.pdf)

Grievance Link: - https://jecrcfoundation.com/student-grievance-mechanism/ (https://jecrcfoundation.com/student-grievance-mechanism/)









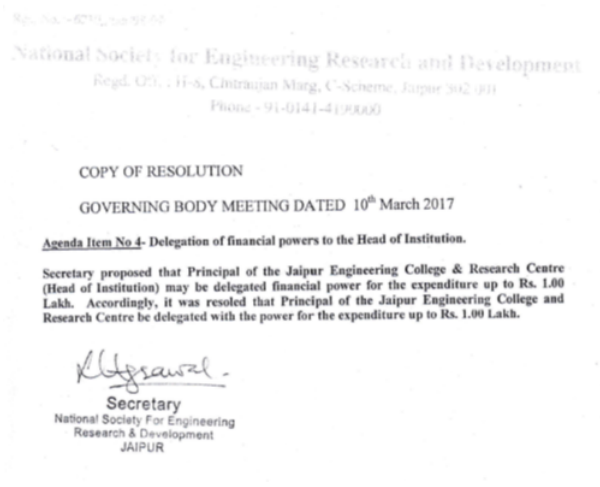
10.1.4 Delegation of financial powers (10) Institute Marks : 10.00

Principal

- As Head of the Institution, he shall exercise his authority for institution building. He will act as Competent Authority for all Faculty Members and Officer staff and be responsible for overall human resource management their appointment, utilization, retrenchment, termination, disciplinary action. etc. He will exercise signing powers as Competent Authority.
- He will act as superintendent and guide for all items of work related to AICTE RTU (Affiliating University), UGC. MHRD. Technical Education Department GOR, State Level Fees Determination Committee, and other regulatory or higher bodies.
- Establish a climate in which faculty members and the students can develop self-discipline, and promote research.
- To formulate the Budget and assess the infrastructural and other requirements well in advance and get the same approved from the Secretary, NSERD before execution.
- Financial power of Rs. 1.00,000/- (As consumption based) is also delegated for routine exercise.

Head of the Departments:

HOD is the programme coordinator and implements all the rules and regulations of affiliating university / AICTE within the department. His responsibility includes preparing a budget, managing resources, coordinate with institutes/industries, repute for the benefits of faculty and students. He is having special financial empowerment of Rs 10000/- (as consumption based)to deal with exigencies in the department.



National Society for Engineering Research and Development

COPY OF RESOLUTION

GOVERNING BODY MEETING DATED 10th March 2017

Agenda Item No 4- Delegation of financial powers to the Head of Institution.

Secretary proposed that Principal of the Jaipur Engineering College & Research Centre (Head of Institution) may be delegated financial power for the expenditure up to Rs. 1.00 Lakh. Accordingly, it was resoled that Principal of the Jaipur Engineering College and Research Centre be delegated with the power for the expenditure up to Rs. 1.00 Lakh.

Secretary
National Society For Engineering Research & Development
JAIPUR

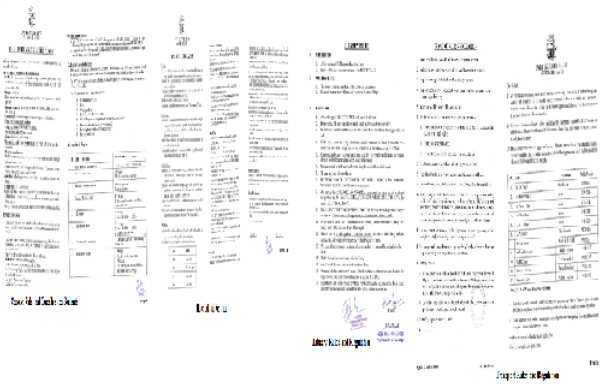
10.1.5 Transparency and availability of correct/unambiguous information in public domain (5) Institute Marks : 5.00

All Information's are available at College Website https://jecrcfoundation.com/ (https://jecrcfoundation.com/)

Information about the institute, infrastructure and facilities are being hosted on the institute Website: https://jecrcfoundation.com/ (https://jecrcfoundation.com/) along with information of procedure related to admission, academic, & placement.

Audited accounts statement of the Institution can be found on following website link

https://jecrcfoundation.com/account-details/ (https://jecrcfoundation.com/account-details/). And mandatory disclousure are also available on the website- https://jecrcfoundation.com/mandatory-disclosure/ (https://jecrcfoundation.com/mandatory-disclosure/)



10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30) Total Marks 30.00

Summary of currentfinancial year's budget and actual expenditure incurred(for the institution exclusively)in the three previous financial years :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY : (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2023-24

Total Income 199500324				Actual expenditure(till…): 359652239			Total No. Of Students 3788
Fee	Govt.	Grants	Other sources(specify) 0	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
199500324	0	0	0	315552005	44100234	0	94945.15

Table 2 - CFYm1 2022-23

Total Income 290799585				Actual expenditure(till…): 379648140			Total No. Of Students 3639
Fee	Govt.	Grants	Other sources(specify) 0	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
290799585	0	0	0	356470548	23177592	0	104327.60

Table 3 - CFYm2 2021-22

Total Income 271056078				Actual expenditure(till…): 445023157			Total No. Of Students 3526
Fee	Govt.	Grants	Other sources(specify) 0	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
271056078	0	0	0	402281613	42741544	0	126211.90

Table 4 - CFYm3 2020-21

Total Income 149343526				Actual expenditure(till…): 329401771			Total No. Of Students 3836
Fee	Govt.	Grants	Other sources(specify) 0	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
149343526	0	0	0	295667118	33734653	0	85871.16

Items	**Budgeted in 2023-24**	**Actual Expenses in 2023-24 till**	**Budgeted in 2022-23**	**Actual Expenses in 2022-23 till**	**Budgeted in 2021-22**	**Actual Expenses in 2021-22 till**	**Budgeted in 2020-21**	**Actual Expenses in 2020-21 till**
Infrastructure Built-Up	40000000	44100234	20000000	23177592	40000000	42741544	30000000	33734653
Library	432000	438382	400000	409519	330000	321267	210000	243979
Laboratory equipment	350000	375500	60000	75365	100000	115395	10000	4000
Laboratory consumables	400000	424007	100000	115435	140000	146630	15000	3292
Teaching and non-teaching staff salary	145000000	153809670	113500000	129699456	127000000	130382203	119500000	127908718
Maintenance and spares	12000000	15356990	11000000	13329696	12500000	14403343	3000000	3170642
R&D	1000000	1119288	1500000	1767399	100000	110630	2500000	2772713
Training and Travel	3000000	3298265	1800000	1906569	1300000	1319934	1250000	1392868
	137818000	140729903	216640000	209167109	253530000	255482211	163515000	160170906
Others, specify	0	0	0	0	0	0	0	0
Total	**340000000**	**359652239**	**365000000**	**379648140**	**435000000**	**445023157**	**320000000**	**329401771**

10.2.1 Adequacy of budget allocation (10)

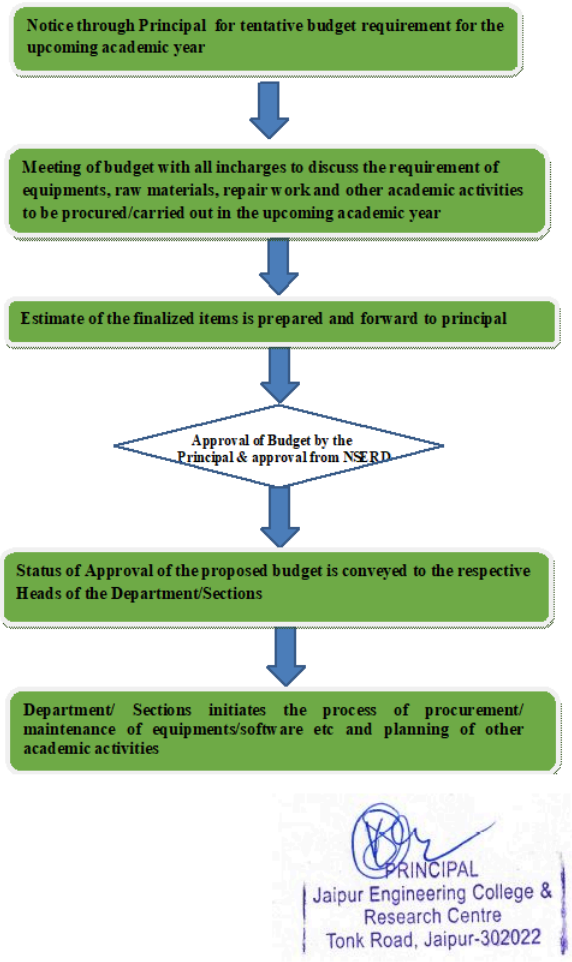
Institute Marks : 10.00

The budget for the institute is estimated and prepared sufficiently in advance after collecting the requirements from all the departments and different sections. The requirements are reviewed by the Principal and the Finance Officer before placing the draft budget before the Board of Governors/NSERD for approval. Normally the budget for the next financial year is approved in the BOG meeting.

The budget is being prepared based on the developmental activities proposed, new programs proposed, staff requirement, increase of prices of all materials and service, Infrastructure and maintenance , training and placement, Institute level activities.

Budget flow chart link - https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-6/7/6.4.3-flow%20chart.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-6/7/6.4.3-flow%20chart.pdf)

Flow Chart Showing the Departmental Budget approval Process:



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

10.2.2 Utilization of allocated funds (15) Institute Marks : 15.00

Table showing utilization of Budget (Institute)

Financial Year	Budgeted (in Rs.)	Actual Expenditure(in Rs.)	Percentage of Utilization (%)
2023-24	340000000	359652239	105.78%
2022-23	365000000	379648140	104.01%
2021-22	435000000	445023157	102.30%
2020-21	320000000	329401771	102.94%

10.2.3 Availability of the audited statements on the institute's website (5) Institute Marks : 5.00

Yes, Audited statements for the financial years 2023-24, 2022-23, 2021-22, 2020-21 are available on College website link : **https://jecrcfoundation.com/account-details/** (https://jecrcfoundation.com/account-details/)

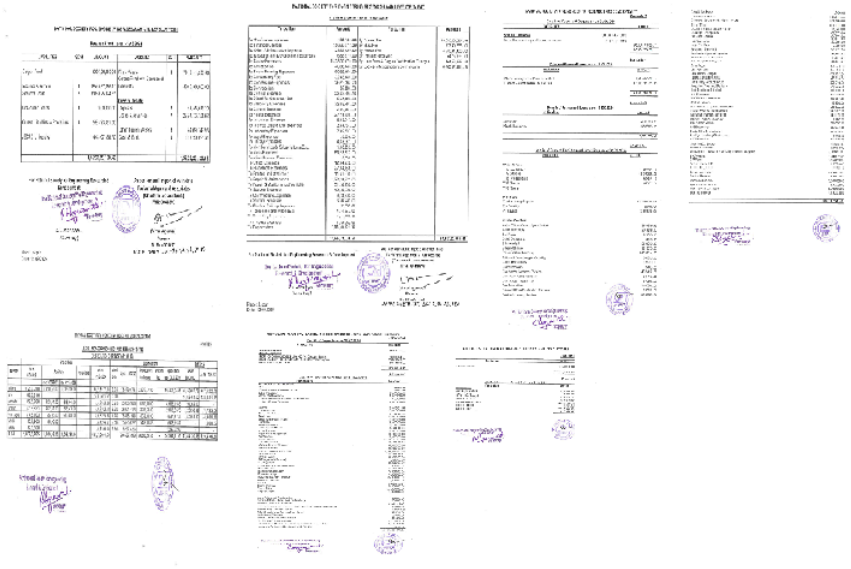


Fig- Audited Statement 2023-24

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 29.00

Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY: (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 :: CFY 2023-24

1250000		Actual expenditure (till…): 1057425		Total No. Of Students 336
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
150000	1100000	105000	952425	3147.10

Table 2 :: CFYm1 2022-23

850000		Actual expenditure (till…): 625000		Total No. Of Students 365
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
25000	825000	20000	605000	1712.33

Table 3 :: CFYm2 2021-22

900000		Actual expenditure (till…): 600000		Total No. Of Students 365
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
25000	875000	20000	580000	1643.84

Table 4 :: CFYm3 2020-21

710000		Actual expenditure (till…): 564459		Total No. Of Students 368
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
25000	685000	2125	562334	1533.86

Items	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till
Laboratory equipment	150000	105000	25000	20000	25000	20000	25000	2125
Software	0	0	0	0	0	0	0	0
Laboratory consumable	100000	85000	25000	20000	25000	20000	25000	1522
Maintenance and spares	350000	265425	200000	150000	250000	200000	125000	142356
R & D	200000	160000	160000	80000	200000	10000	125000	128456
Training and Travel	300000	352000	300000	275000	300000	290000	300000	210000
	150000	90000	140000	80000	100000	60000	110000	80000
Total	**1250000**	**1057425**	**850000**	**625000**	**900000**	**600000**	**710000**	**564459**

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

Department head prepare the proposed budget on different sections such as Hardware and software, Consumable, raw material, Additional Facilities and R&D, Curricular & Co curricular activities. As per new facility is concern separate budget is provided for research facility at the department and budget allocation for attending conferences, budget for start-up and incubation centre are allocated according to financial assistance. Department Head is intimated of the extent of funds allocated against the budget proposals to the head of Institution and same is approved by NSERD.

Department head prepare the proposed budget on different sections such as Hardware and software, Consumable, raw material, Additional Facilities and R&D, Curricular & Co curricular activities. Department Head is intimated of the extent of funds utilization against the budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are informed to Head of the institution. Then It is approved by NSERD.

10.3.2 Utilization of allocated funds (20)

Institute Marks : 19.00

Table showing utilization of Budget

Financial Year	Budgeted (in Rs.)	Actual Expenditure (in Rs.)	Percentage of Utilization (%)
2023-24	1250000	1057425	84.59%
2022-23	850000	625000	73.53%
2021-22	900000	600000	66.67%
2020-21	710000	564459	79.50%

10.4 Library and Internet (20) Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 10.00

The Central Library is an early adapter of emerging and innovative technologies and has been using Radio Frequency Identification (RFID) technology. It is the best automation system used worldwide and is an effective way of managing collections of the library and providing enhanced services to the users having benefits like: Self check out of books, self check in (book drop), to control theft, to find misplaced reading material, sorting, inventory accuracy, stock verification procedures, security control, video surveillance, people counter, Smart Card issuance, etc. It is an automatic data capture technology that uses tiny microchips and miniature antennas affixed to documents. RFID plays a vital role in redefining the library processes to make everyone's job easier right from the users to library staff. The library users one of the world famous Open-Source Library integrated management Software- Koha 22.04 LTS. JECRC library has one of the most successful running RFID Implementations of the country.

Office Order

Sub.: SOP for Library

- Library timings will be 8:15 am to 8:00 pm from 16th September, 2024.
- Students cannot issue / return the books after 4:00 pm.
- Students can only utilize library for study purpose / e-resources.
- All students will be allowed to carry only notebook and pen in the library.
- All students must keep your bags, file, books and other materials outside the library in the space provided.
- Silence should be maintained while you are in the library. Please don't disturb the arrangements at your will. Books are to be kept back from where it is taken.
- Students will not be allowed to enter the library with Slippers / Bermuda / Shorts etc.
- Library data should be recorded in writing and the proper entry must be maintained in a register.
- The timings of the following library staff members will be from 12:00 noon to 8:00 pm from 16th September, 2024:
- Sh. Ashok Sharma – Incharge Digital Library
- Sh. Jaivinder Singh – Library staff
- Sh. Dharmachand Jain – Library Staff

If any of the above staff members is on leave then his responsibilities will be given to some other library staff member as his replacement and these members will also be responsible for thorough security of library. Dr. Anita Jain will look after above mentioned responsibility.

- The Learning Resource Centre is member of the Developing Library Network known as DELNET. It is a network of more than 6000 libraries globally.
- We may share resources (Books, Research Papers etc.) among DELENET member libraries including IITs, IIMs, NITs, Central Universities and other institute of national repute.
- Users may use their ID and Password to search DELNET database and may please request the Librarian (https://library.bennett.edu.in/contact-us/reach-us/) to arrange books or research papers from affiliate libraries.

If at any process you find any confusion, please submit a query

Web Address: http://www.delnet.nic.in (http://www.delnet.nic.in/)

Click onto DELNET Discovery Portal with login ID and Password.

Login ID : rjjecrc

Password : jec6674

E-notes & video link sample:

https://jecrcfoundation.com/videos/ (https://jecrcfoundation.com/videos/)

Library is automated using Integrated Library Management System (ILMS)

S.No	Infrastructure	Description	Related Link
1	Library Management Software	**ALICE**: The library is using ALICE an Integrated Library Management software package for issuing the books and keeping the details of the books issued. **Software**: LS for windows **Automation**: Partially **Version:** 6.0 **Year of purchase:** 2008	View Document (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/Alice-Software-with-softlink.pdf)
2	Database	**DELNET:** It is a simple, single window discovery layer which encourages the users to explore the networked library/knowledge resources offered through DELNET in a feature-rich environment.	View Document (http://164.100.247.26/)
		EBSCO: EBSCO is the leading provider of research databases, e-journal and e-package subscription management, book collection development and acquisition management.	View Document (https://search.ebscohost.com/)

3	NationalDigital Library of India	**National Digital Library** of India (NDLI) is a virtual repository of learning resources which is not just a repository with search/browse facilities but provides a host of services for the learner community.	View Document (https://ndl.iitkgp.ac.in/)
4	NPTEL Server (SPOC Profile)	• **SWAYAM-NPTEL** chapter in colleges to keep the SPOC updated about all the latest NPTEL initiatives and give him information which he can disseminate among the students. • Student can identify suitable mentors for various courses, who can ensure that students are active in a course, are submitting their assignments on time and also clarify the doubts they may have.	**NPTEL:** View Document (https://nptel.ac.in/courses) **SWAYAM:** View Document (https://swayam.gov.in/NPTEL)
5	Made Easy (MOU) and activities	Signed MOU with Made Easy for career counseling, GATE and RAS competitive exam, etc.	View Document (https://jecrcfoundation.com/jf-data/Updated-SSR/Criteria-3/Memorandum_of_Understanding.pdf)
6	External Hard disk	External Hard disk for establishing NPTEL local chapter	View Document (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/SWAYAM-NPTEL-Local-Chapter-updated.pdf)

Library Budget and Expenditure

S. No.	Category	Items	Budget Sanctioned(in Rs)	Total Expenditure (in Rs)	Expenditure by Institute (in Rs)
1	Books	3	5,00,000	2,37,599	2,37,599
2	Journals/e-resources	60	2,00,000	1,82,974	1,82,974
3	Data Base	EBSCO Delnet	1,50,000	1,05,347	1,05,347
4	News Paper& Periodical	16/16	1,00,000	1,13,870	1,13,870
5	Computer (05) for Multimedia	Softlink	45,000	17,700	17,700
6	Furniture Racks	--	-	--	--
7	Others		5,000	--	--

Subject: Budget & Expenditure (1st April 2023- to 31 March-2024)

The proposal Budget and Expenditure Library Department

S.No.	Year	Proposed Budget (In Rs.)	Expenditure (In Rs.)
1	2023-2024	10,00,000	5,25,920
2	2022-2023	10,00,000	3,89,622
3	2021-2022	10,00,000	3,24,348
4	2020-2021	10,00,000	2,54,354
5	2019-2020	10,00,000	5,93,690
6	2018-2019	10,00,000	2,30,679
7	2017-2018	7,00,000	3,50,184

8	2016-2017	7,00,000	1,97,476
9	2015-2016	7,00,000	3,40,557

CENTRAL LIBRARY

(2023-2024)

Book and Journals Available in Library

Branch/Disc	No. of Title	No. of Volume	No. of Tech. Journals National	No. of Tech. Journals International
Electronics & Communication	962	3985	04	02
Electrical Engg.	654	2828	03	--
Computer Engg.	1098	4748	07	06
AI & DS	03	15	01	02
Information Tech.	712	2201	04	01
Civil Engineering	375	1918	04	03
Mechanical Engg.	1110	4642	09	01
Physics	288	1533	02	--
Chemistry	179	1561	02	--
Mathematics	349	1618	1	1
Other (English, Hindi Dictionary)	619	1278	08	-
Book Bank ST/SC Gen	–	7043	–	–
Total	**6349**	**33370**	**45**	**16**

Magazine List 2023-24

S.No	Magazines	Periodicity
1	Open Source for You	Monthly
2	Digit	Monthly
3	Reader Digest	Monthly
4	Pratiyogita Darpan (Hindi)	Monthly
5	Pratiyogita Darpan (English)	Monthly
6	Business World	Monthly
7	Front Line	Monthly
8	C.S.R.	Monthly
9	The Week	Weekly
10	India Today (English)	Weekly
11	out Look	Weekly
12	Business Today	Weekly
13	Sports Star	Weekly

JECRC LIBRARY

Library Academic Year Ist July- 2023 to June- 2024

Book Issuing and Visiting Users Report

S.No.	Month	Book Issuing			Library Users		
		Student	Faculty	Total	Student	Faculty	Total
1	July.2023	533	22	555	776	68	844
2	August.2023	97	35	132	354	76	430
3	September.2023	513	40	553	2616	81	2697
4	October.2023	650	22	672	3084	86	3170
5	November.2023	847	10	857	1711	111	1822
6	December.2023	687	8	695	2459	53	2512

7	January.2024	624	44	668	1215	115	1330
8	February.2024	535	41	576	1599	170	1769
9	March.2024	299	15	314	1476	181	1657
10	April.2024	312	15	327	2937	243	3180
11	May.2024	374	20	394	3438	281	3719
12	Jun-24	344	6	350	1388	88	1476
	Total			**6093**			**24606**

Total Users Student and Faculty = 30699

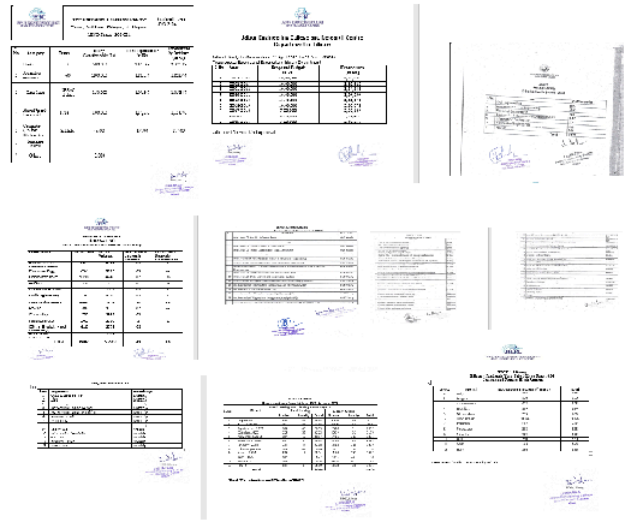
JECRC Library

Library Academic Year July 2023 to June 2024

Student and Faculty Book Return

S.No.	Month	Books Return Student/Faculty	Total
1	July	613	613
2	August	190	190
3	September	403	403
4	October	667	667
5	November	553	553
6	December	1024	1024
7	January	517	517
8	February	863	863
9	March	332	332
10	April	290	290
11	May	373	373
12	June	336	336

Total Users Student and Faculty = 6161



10.4.2 Internet (10) Institute Marks : 10.00

Name of the Internet provider	Vodafone and BlazeNet
Available band width	250 GBPS and 750 GBPS (Total 1000 GBPS)
WiFi availability	67 Wifi facilities are available in the whole campus (A Block -11, C Block-11, Block-17, E Block-3, Hostel-25)
Internet access in labs, classrooms, library and offices of all Departments	Yes, Internet access in labs, classrooms, library and offices of all Departments
Security arrangements	Yes, 242 CCTV Cameras are available in the whole campus for security purpose.

Annexure I

(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	To prepare students to design multistory buildings with recent state of art and technology.
PSO2	To design buildings with aspect of Vastu shastra and Green building technology.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Prof. (Dr.) Vinay Kumar

Name : Chandna

Designation : Principal

Signature :

Seal of The Institution :

Place : Jaipur

Date : 04-12-2024 12:34:05