JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Electrical 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	2000	2000	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	60
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 Fauzia Siddiqui
Designation	Professor
Mobile No.	9819695582
Email ID	fauziasiddiqui.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	111.98
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	139.78
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	45.45
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	119.00
	Total	**1000**	**896**

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	Department of Electrical Engineering strives to be recognized globally for outcome-based education to develop engineers having the potential to inculcate advanced technologies for industry and society.
Mission of the Department	

Mission No.	Mission Statements
M1	To impart quality technical education to the learners to make globally competitive in the field of Electrical Engineering.
M2	To provide the learner with ethical and social values along with an excellent academic environment for lifelong learning.
M3	To promote industry-institute relationship.

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

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

Total Marks 10.00

Institute Marks : 10.00

The Vision, Mission and PEOs are published and disseminated as follows

S. No.	Published	Disseminated
1.	In College Website **www.jecrcfoundation.in**	In HoD office and all Staff rooms
2.	In Department Newsletters	In all Class rooms and Laboratories
3.	In National conference proceedings	In Department Library
4.		As signatures in official mail (jecrc.ac.in)
5.		In all feedback forms related to students, alumni and staff.
6.		In Faculty Diary
7.		In Course Files of each course
8.		In all Lab Manuals
9.		On Notice Board

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.
- Faculty Meeting
- Parent's Teacher 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

Process of Defining Vision and Mission of the Department

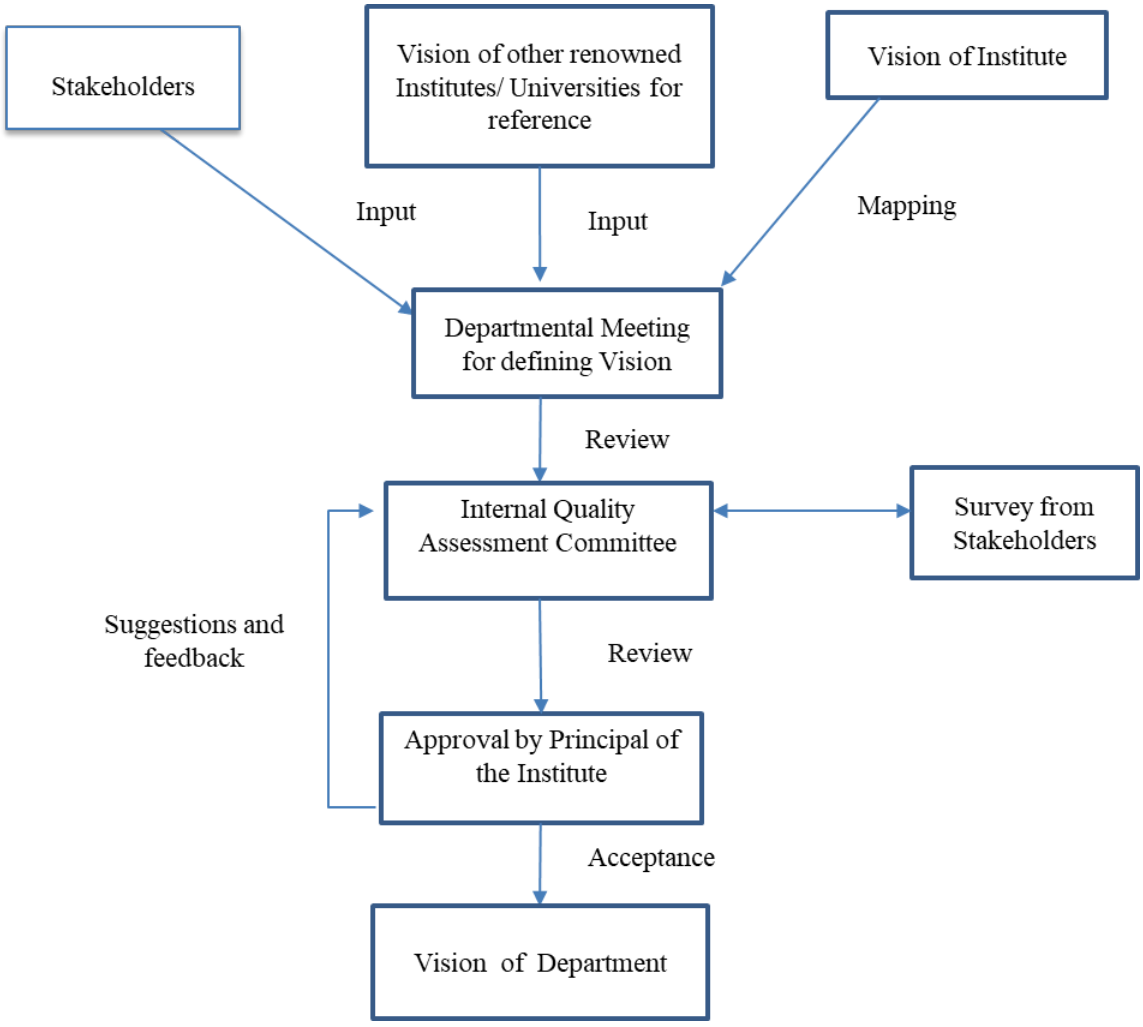


Figure 1.4 (A) Process of Defining Department Vision

With the active participation of HoD, faculty members and staff which are based on the continuous feedback from stakeholders (Parents, alumni and eminent academicians) framed the Vision and Mission statement of the department in alignment with Vision and Mission of the Institute. These vision and mission statements are framed after thorough analyses on the following

1. Continuous feedback from the stakeholders.
2. Vision /Mission statements of renowned institutes (such as IIT's, NIT's and renowned institutes)
3. Keeping in view the Vision and Mission statements of the institute.

Once these statements of the vision and mission are framed, they have been further discussed among

- Faculty members.
- Students.
- Stakeholders.
- IQAC.

After modification the new vision and mission statements are sent to the Principal for approval.

The process for establishing and revising Department Vision, Department Missions are depicted in figures 1.1 and 1.2. Faculty Members / Students / Stakeholders / Alumni inputs are obtained through feedback forms/surveys with follow-up email and telephone calls by the Department HoD and associated faculty members.

This feedback is collected, analysed and discussed with faculty members at the final department meeting.

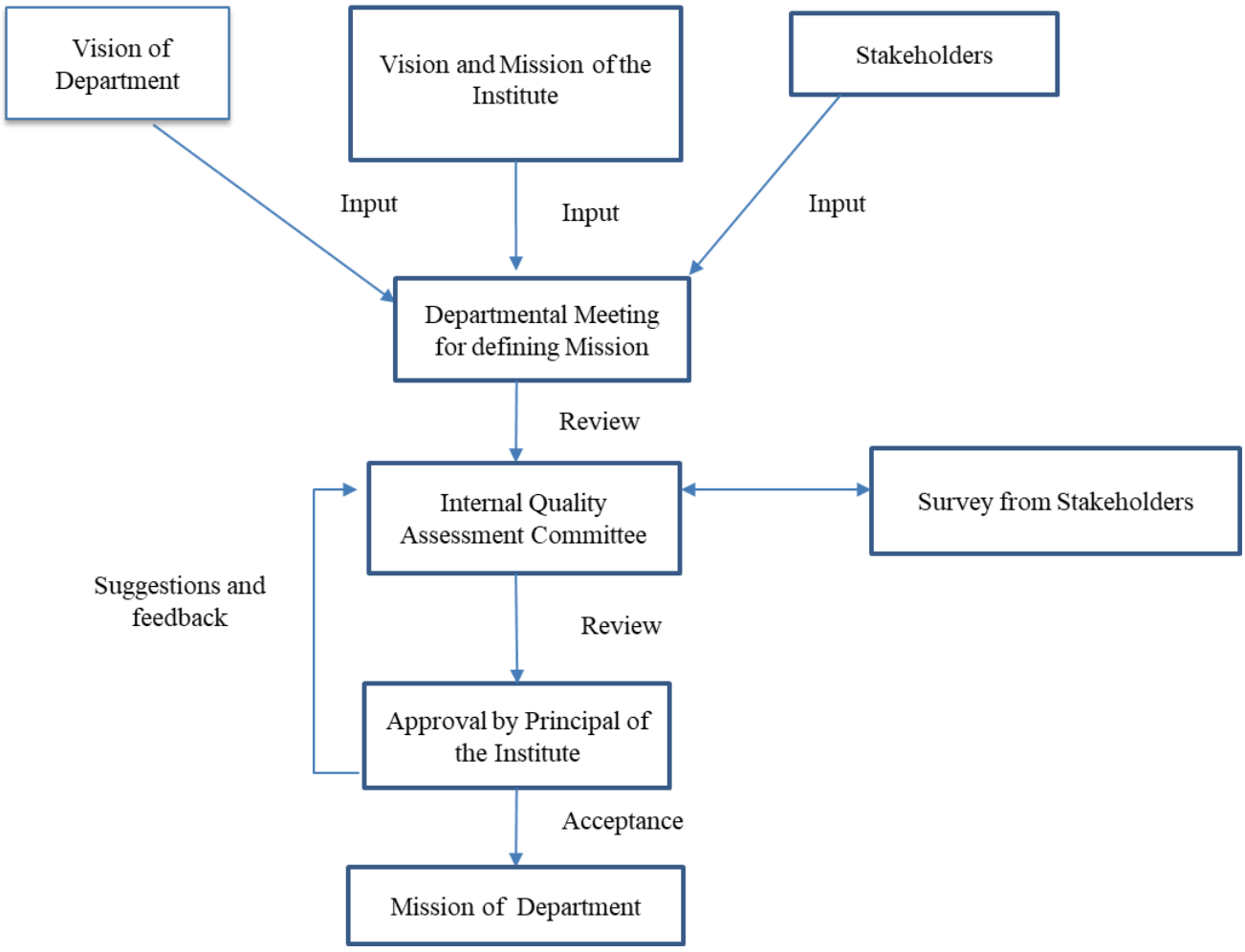


Figure 1.4 (B) Process of Defining Department Missions

Process of Defining PEOs of the Department

PEO's are the characteristics of graduates of a program, which enables the students to become successful professional in their field.

The department has drafted the PEO's statement for its Bachelor of Technology program in Electrical Engineering taking into account the vision, mission of the institute and department, graduates attributes recommended by the NBA and continuous feedback from the stakeholders. Once the PEO's are drafted, thereafter they are sent for review to IQAC and further sent to Principal for final approval. The process of finalising the PEO's are shown in figure 1.3

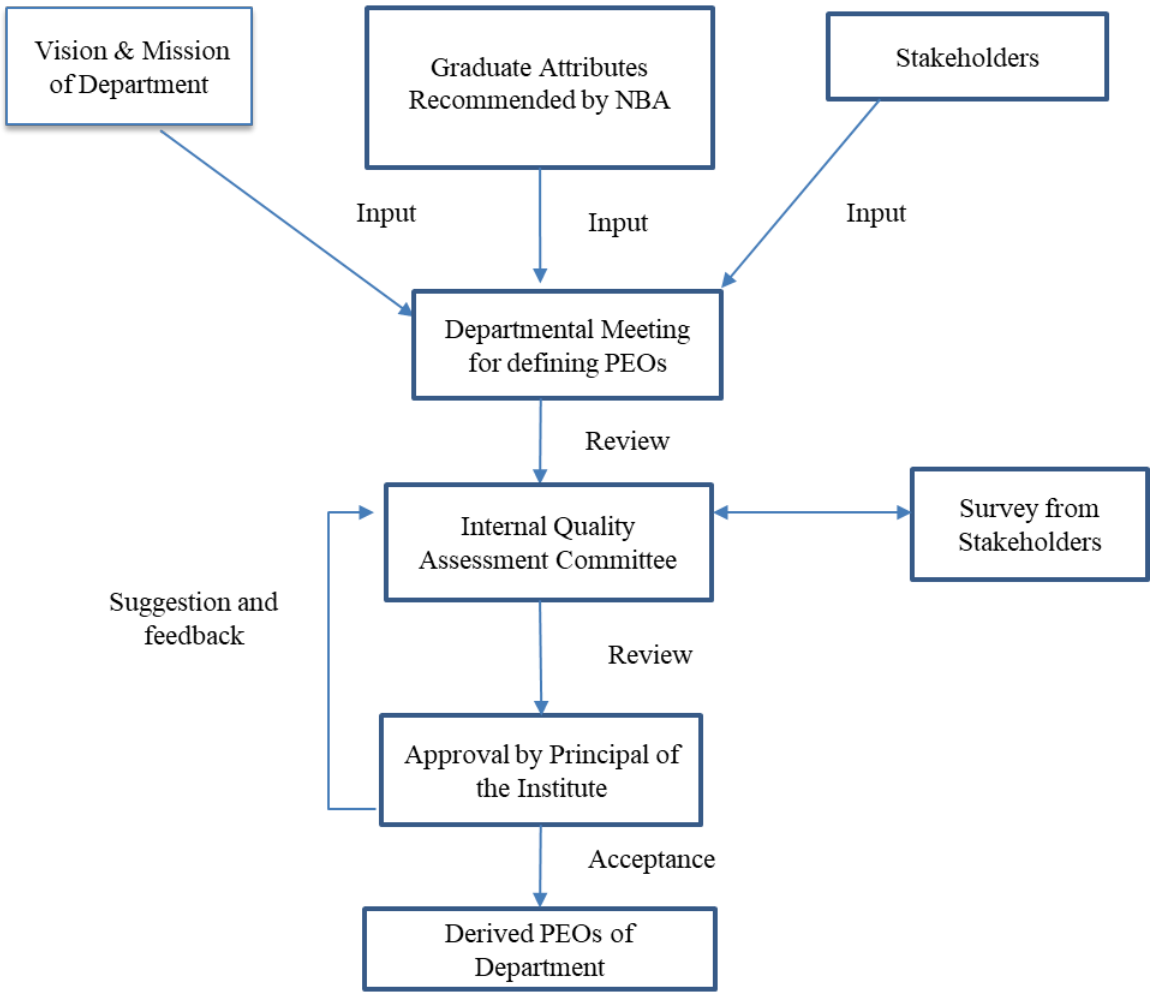


Figure 1.4 (C) Process of Defining Department PEOs

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

Institute Marks : 15.00

Mission / PEOs	To impart quality technical education to the learners to make globally competitive in the field of Electrical Engineering.	To provide the learners with ethical and social values along with an excellent academic environment for lifelong learning.	To promote industry-institute relationship.
To provide students with the fundamentals of Engineering Sciences with more emphasis in Electrical Engineering by way of analyzing and exploiting engineering challenges.	3	3	3
To train students with good scientific and engineering knowledge so as to comprehend, analyze, design and create novel products and solutions for real life problems.	3	3	3
To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.	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.	3	3	3
To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	3	3	3

Justification:

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

- PEO's are divided into keywords and then correlation is checked with all missions.
- After taking the feedback from all the stake holders of the department if the consistency found is above 90%, (3) is marked. If consistency is found between 75-90%, (2) is marked and if consistency is below 75%, than (1) is marked.

Why High:

A rating of (3) is assigned when the concistency through received feedback is found more than 90% among the keywords of the PEOs and mission. This indicates that the PEOs is highly consistent with the mission of the department, covering all aspects of the mission effectively.

Why Medium:

A rating of (2) is assigned when the concistency through received feedback is found in between 75% to 90% among of keywords in the PEOs and mission. This indicates that the PEOs is moderately consistent with the department missions and does not cover all aspects comprehensively.

Why Low:

A rating of (1) is assigned when the concistency through received feedback is found less than 75% among of keywords in the PEOs and mission. This indicates a weak or minimal consistency between the PEOs and the department missions.

Justification of mapping of PEO 1 with Mission			
Mission PEO 1 Keywords	To impart quality technical education to the learners to make globally competitive in the field of Electrical Engineering.	To provide the learners with ethical and social values along with an excellent academic environment for lifelong learning.	To promote industry-institute relationships.
Fundamentals of Engineering Sciences.	3	3	3

Analysing and exploiting engineering challenges.	3	3	3
Justification of mapping of PEO 2 with Mission			
Mission PEO 2 Keywords	To impart quality technical education to the learners to make globally competitive in the field of Electrical Engineering.	To provide the learners with ethical and social values along with an excellent academic environment for lifelong learning.	To promote industry-institute relationships.
Good scientific and engineering knowledge.	3	3	3
Create novel products and solutions for real life problems.	3	3	3
Justification of mapping of PEO 3 with Mission			
Mission PEO 3 Keywords	To impart quality technical education to the learners to make globally competitive in the field of Electrical Engineering.	To provide the learners with ethical and social values along with an excellent academic environment for lifelong learning.	To promote industry-institute relationships.
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 engineering issues with social issues.	3	3	3
Justification of mapping of PEO 4 with Mission			
Mission PEO 4 Keywords	To impart quality technical education to the learners to make globally competitive in the field of Electrical Engineering.	To provide the learners with ethical and social values along with an excellent academic environment for lifelong learning.	To promote industry-institute relationships.
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
Justification of mapping of PEO 5 with Mission			
Mission PEO 5 Keywords	To impart quality technical education to the learners to make globally competitive in the field of Electrical Engineering.	To provide the learners with ethical and social values along with an excellent academic environment for lifelong learning.	To promote industry-institute relationships.
Excel in Industry and Higher education.	3	3	3

High moral values and Knowledge.	3	3	3

Justification:

1. Department has prepared PEOs and Mission mapping format and circulated to the Faculty members, industry experts, alumni etc.
2. Faculty members, industry experts, alumni etc. did the mapping and submitted it to the department for finalization.
3. Analysis of the mapping is carried out and finalized.

PEO Statements	M1	M2	M3
To provide students with the fundamentals of engineering science with more emphasis in Electrical Engineering by way of analyzing and exploiting engineering challenges.	3	3	3
To train students with good scientific and engineering knowledge so as to comprehend, analyze, design and create novel products and solutions for the real life problems.	3	3	3
To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.	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.	3	3	3
To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.	3	3	3

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

2.1 Program Curriculum (20) Total Marks 20.00

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 AnnexureI. Also mention the identified curricular gaps, if any (10)

Institute Marks : 10.00

The process used to determine extent of compliance of university curriculum for attainment of Program Outcomes (POs) & Program Specific Outcomes (PSOs) are as follows:

The Program outcomes (POs) and Program Specific Outcomes (PSOs) are as follows:

Program Outcomes

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex electrical engineering problems.

2. Problem analysis: Identify, formulate, research literature, and analyse complex Electrical Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex Electrical 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 electrical engineering 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 modelling to complex Electrical 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 Electrical Engineering practice.

7. Environment and sustainability: Understand the impact of the professional Electrical 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 Electrical 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 Electrical 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 Electrical 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 Electrical Engineering changes.

PSO-Program Specific outcomes

1. PSO1. Graduates are able to contribute for the development of automation.

2. PSO2. Graduates are able to contribute towards integration of green energy.

Jaipur Engineering College and Research Centre is affiliated to Rajasthan Technical University, Kota. The course curriculum of electrical engineering has been provided by the university.The current pace of industry's changes implies that some curriculum provided by the university is not according to the current demand of industries. Besides the domain skills, the industry also looks soft skills, team building, values and attitude of an individual at the time of hiring. So it is required to identify the extent of compliance of University curriculum.

A. Curriculum Planning

B. Course Outcome (CO) Identification for each subject.

C. CO-PO & CO-PSO Mapping of each subject is done by defining adequate correlation level.

D. Analysis of Mapping to determine strong and moderate compliance of PO & PSO's

A. Curriculum Planning

The curriculum provided by the university needs a planning for the curriculum delivery and is processed based on following:

1. Curriculum Delivery

2. Content beyond syllabus

3. Add-on/Certificate courses

4. Cross-cutting issues related to professional ethics, human values, environment and sustainability.

5. Experiential learning through project work, field work, internship etc.

6. Extension and outreach program

The planning of curriculum delivery is shared with the IQAC and also included in the academic calendar of the department.

Curriculum planning is done by using the process mentioned below.

1. University Curriculum: The institute adheres to the curriculum prescribed by the University for all Programs. Add on are introduced by the Departments as per the requirement analyzed by the Department Quality assurance Cell (DQAC) and mentioned in their academic calendar.

2. Prerequisites: In beginning of each semester, subject and lab 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. Career and Soft Skills Development: The Training and Placement Department offers programs to enhance student's career skills and support placement activities.
7. Incorporation of ICT: Initiatives are planned to integrate Information and Communication Technology (ICT) tools into teaching and learning for innovative educational experiences.
8. Constitutional Awareness Initiatives: Programs will be implemented to sensitize students and staff about constitutional values, rights, duties, and responsibilities.
9. Promoting Tolerance and Harmony: Initiatives will be taken to foster understanding and respect for cultural, regional, linguistic, communal, socioeconomic, and other diversities.

B Course Outcome (CO) Identification for each subject

In the beginning of semester subjects are allocated considering the specialization and choice of faculty members. Course Outcomes (COs) are formulated by respective faculty members of the subject and submit to DQAC. The DQAC collected the course outcomes of each subject and lab suggest changes, if required and submit the final version of course outcomes to IQAC for suggestions, modification (if required) and approval.

C. CO-PO & CO-PSO Mapping of each subject is done by defining adequate correlation level

It is done by internal experts and through feedback from stakeholders. The input from stakeholders are as follows

1. Inputs from the teachers handling the course:

Subject teacher identifies the gap in given curriculum and accordingly implements remedial actions to map the PO"s & PSO"s.

2.Taking feedback from final year students:

This feedback helps to measures the degree to which students have achieved program outcomes. In this feedback from final year students are taken on the quality of education they received and level of preparation they have had in engineering programme at JECRC.

3. Taking input from industry experts/ employers:

The purpose of this feedback is to obtain employers" input on the quality of engineering graduates at our institute and to measure the program outcomes are met.

4. Alumni feedback:

Surveys are conducted and results are analyzed to find the mappings of PO"s and PSO"s with curriculum.

D. Analysis of Mapping to determine strong and moderate compliance of PO & PSO's

The process used to analyse the mapping is as follows:

Each Course under the program has some defined course outcomes that emphasize on contribution to different POs & PSOs leading to eventual attainment of POs & PSOs upon successful completion of all courses. Each course has sufficient weight age to fundamental concepts, tools and techniques and emphasis on practical implementations. This provides a strong correlation between the course outcomes and programme outcomes, developing necessary skills in students, making them proficient engineers. The whole curriculum under Electrical Engineering is mapped with POs and PSOs as shown in table 2.1.1 (A) and table 2.1.1 (B) with adequate corelations to determine their contribution in POs and PSOs.

Table 2.1.1 (A) Mapping of subjects and Labs (Under Programme Curriculum) with POs

Subject Code	Program Outcomes (POs)											
	Mapping of Subjects of First year											
SUBJECT/LAB	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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
1FY1-04	0	0	1	0	0	2	0	2	2	3	1	2
1FY1-05	0	0	2	0	0	3	2	3	2	1	0	1
1FY3-06	3	2	2	1	1	1	0	0	1	1	0	1
1FY3-07	3	1	2	1	0	1	1	0	1	1	0	1
1FY3-08	3	3	2	2	2	2	3	3	3	2	2	3
1FY3-09	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
Subject Mapping from 2nd Year Onwards												
3EE2-01	3	1	0	0	0	0	0	0	1	1	0	1
3EE1-02	0	1	0	3	0	2	2	1	1	3	2	1
3EE3-04	3	2	2	2	1	3	2	1	1	3	1	3
3EE4-05	3	3	2	2	2	2	0	0	3	1	0	0
3EE4-06	3	3	2	2	2	2	2	2	1	2	1	2
3EE4-07	3	3	2	2	2	2	2	2	2	2	3	2
3EE4-08	3	3	2	1	0	1	2	1	3	2	2	2
3EE4-21	3	2	3	3	3	2	1	2	2	2	2	3
3EE4-22	3	2	2	2	1	2	0	1	1	0	0	2
3EE4-23	3	2	2	1	3	3	3	1	1	1	1	3
3EE7-30	3	3	2	3	3	2	2	0	1	0	1	1
4EE2-01	3	3	3	3	3	3	3	3	0	2	0	3
4EE1-03	3	3	2	3	3	3	3	3	3	2	3	3
4EE3-04	3	3	3	1	1	2	2	2	1	2	2	3
4EE4-05	3	3	1	2	2	2	2	2	1	2	1	2
4EE4-06	3	3	2	2	2	1	1	1	1	2	2	3

4EE4-07	3	3	3	2	2	2	2	1	1	2	1	3
4EE4-08	3	3	3	2	3	3	3	2	1	2	2	3
4EE4-21	3	3	2	2	2	3	2	3	3	2	3	3
4EE4-22	3	2	2	1	2	2	2	1	2	2	1	2
4EE4-23	3	3	3	3	3	2	2	1	3	2	3	3
4EE4-24	3	3	2	2	3	2	2	1	3	2	2	2
5EE3-01	3	3	1	1	2	2	3	2	1	2	1	2
5EE4-02	3	2	2	3	3	3	3	1	1	2	2	3
5EE4-03	3	2	3	1	2	2	2	0	1	0	2	3
5EE4-04	3	3	3	2	3	2	2	1	3	1	2	2
5EE4-05	3	3	3	3	1	2	2	2	1	2	1	2
5EE5-11	3	3	1	2	2	0	0	0	2	1	0	0
5EE4-21	3	2	2	3	3	1	1	2	1	2	2	3
5EE4-22	3	3	2	2	3	0	1	0	3	2	1	3
5EE4-23	3	3	3	3	3	3	3	3	3	3	3	3
5EE4-24	2	3	3	2	3	1	0	0	1	0	1	2
5EE7-30	3	3	3	3	3	3	2	1	3	2	3	3
6EE3-01	3	2	2	0	0	0	0	0	0	0	0	2
6EE4-02	3	3	2	2	2	2	0	0	2	1	2	3
6EE4-03	3	3	2	2	0	2	0	0	0	0	2	3
6EE4-04	3	3	3	2	3	3	3	3	3	3	3	3
6EE4-05	3	2	2	2	2	2	3	2	2	3	2	2
6EE5-13	3	3	3	2	3	3	3	2	0	2	3	3
6EE4-21	3	3	2	2	3	1	2	1	1	1	1	2
6EE4-22	3	2	2	3	3	1	1	2	1	2	2	3
6EE4-23	3	3	3	1	2	3	1	1	1	1	3	3
6EE4-24	3	3	3	2	3	2	1	0	1	0	1	2
7EE5-11	3	3	3	3	1	2	2	1	1	2	2	3
7CE6-60.1	3	3	2	2	2	3	3	3	3	2	2	3
7EE4-21	2	0	0	3	3	0	0	3	3	2	1	3
7EE4-22	3	2	1	1	3	2	2	2	2	2	2	3
7EE7-30	3	2	2	2	3	3	3	2	1	1	1	2
7EE7-40	2	2	2	2	2	2	1	1	1	3	1	2
8EE4-11	3	3	3	3	0	2	2	1	1	1	1	2
8AG6-60.1	3	2	2	2	2	2	2	2	3	2	2	3
8EE4-21	3	3	3	1	3	2	2	1	1	1	2	3
8EE7-50	3	3	3	3	3	3	3	3	3	3	3	3

The curriculum analysis in context of PSOs is as follows

Table 2.1.1 (B) Course-PSO matrix of all courses (INCLUDING first year courses)

SUBJECT/LAB	PSO1	PSO2
1FY2-01	1	1
1FY2-02	1	1
1FY2-03	0	1
1FY1-04	0	0
1FY1-05	0	0
1FY3-06	1	0
1FY3-07	1	1
1FY3-08	3	1
1FY3-09	0	1
1 FY2-20	0	1

1 FY2-21	0	0
1 FY1-22	1	0
1 FY1-23	0	0
1FY3-24	1	0
1FY3-25	1	0
1FY3-26	3	1
1FY3-27	0	0
1FY3-28	1	0
1FY3-29	1	0
2FY2-01	1	1
3EE2-01	1	1
3EE1-02	0	0
3EE3-04	1	2
3EE4-05	2	1
3EE4-06	2	2
3EE4-07	1	1
3EE4-08	2	1
3EE4-21	3	3
3EE4-22	1	1
3EE4-23	2	1
3EE7-30	1	1
4EE2-01	1	1
4EE1-03	1	1
4EE3-04	2	3
4EE4-05	3	1
4EE4-06	2	1
4EE4-07	2	1
4EE4-08	3	3
4EE4-21	2	3
4EE4-22	2	1
4EE4-23	3	1
4EE4-24	3	3
5EE3-01	1	2
5EE4-02	2	2
5EE4-03	3	2
5EE4-04	3	3
5EE4-05	1	1
5EE5-11	3	3
5EE4-21	1	2
5EE4-22	3	3
5EE4-23	3	3
5EE4-24	3	3
5EE7-30	3	1
6EE3-01	3	2
6EE4-02	1	2
6EE4-03	1	1
6EE4-04	1	3
6EE4-05	3	2
6EE5-13	2	2
6EE4-21	3	1
6EE4-22	2	1
6EE4-23	2	3

6EE4-24	3	1
7EE5-11	2	3
7CE6-60.1	1	3
7EE4-21	3	1
7EE4-22	3	2
7EE7-30	2	2
7EE7-40	2	2
8EE4-11	2	1
8AG6-60.1	2	3
8EE4-21	3	3
8EE7-50	3	3

From the above table, it has been observed that –

- The course outcomes are directly tied to the program outcomes.
- The CO-PO & CO-PSO Mapping is analyzed to determine the areas where POs & PSOs are not adequately mapped or have moderate and Low compliance. Above table shows levels of mapping of **PO1, PO2** has strong compliance with the curriculum prescribed by the university. Mapping level of **PO3, PO5, PO6, PO7, PSO12 and PSO1** has moderate compliance and **PO4, PO8, PO9, PO10, PO11 and PSO2** has Low compliance, so content beyond syllabus is to be identified to bridge this gap.
- To attain the POs and PSOs of the moderately and low mapped components, the department makes additional efforts to impart such knowledge by covering aspects through "**CONTENT BEYOND SYLLABUS**" that is identified by a proper "GAP analysis" process. Thus the Identification of **Curriculum Gap** as shown in fig. 2.1.1 (A) is used to meet the areas of POs and PSOs that need improvement.
- The identification is done as follows

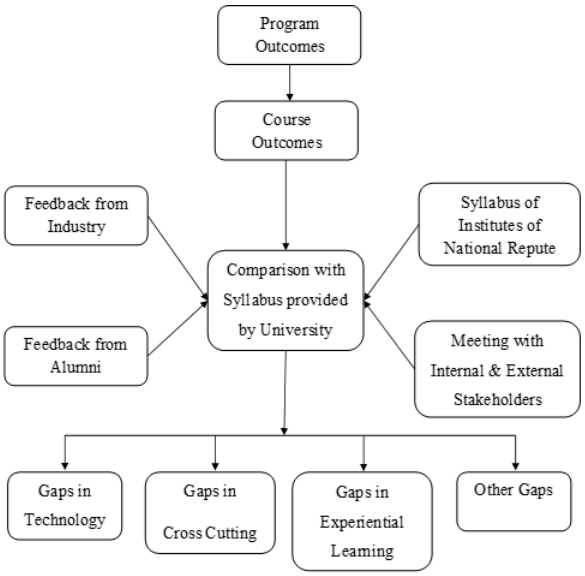


Fig. 2.1.1 (A) Curriculum Gap Analysis

The PO and PSO attainment analysis summary for academic year 2022-2023 is as shown in table 2.1.1 (C)

Table 2.1.1 (C) PO & PSO Attainment Analysis (SAMPLE)

PO ATTAINMENT - 2022-2023			
POs	**Target Value (Overall)**	**Achieved Values (Overall)**	**Difference between target and achieved value**
PO1: Engineering knowledge	2.80	1.87	0.93
PO2: Problem analysis	2.47	1.65	0.82
PO3: Design/development of solutions	2.16	1.41	0.75
PO4: Conduct investigations of complex problems	1.97	1.27	0.70
PO5: Modern tool usage	2.10	1.42	0.68
PO6: Engineer and society	1.86	1.20	0.66
PO7: Environment and sustainability	1.78	1.02	0.76
PO8: Ethics	1.59	0.91	0.68
PO9: Individual and team work	1.75	1.16	0.59
PO10: Communication	1.98	1.18	0.80
PO11: Project management and finance	1.68	1.06	0.62

PO12: Life-long learning	2.38	1.63	0.75
PSO1: Development of Automation	1.88	1.30	0.57
PSO2: Integration of Green Energy	1.67	1.14	0.53

The Identified Curricular Gaps for the attainment of defined POs & PSOs are as mentioned in table 2.1.1 (D).

Table 2.1.1 (D) Identified Curricular Gaps

S. No.	Gap Identified	Related to PO's/PSO's
1	Lack of knowledge and awareness regarding the energy efficient equipments and system used in substations	PO5, PO11, PSO1
2	Lack of leadership qualities among students	PO6, PO7, PO8, PO9, PO10, PO12, PSO1 and PSO2
3	Lack of professional communication skills among students and soft skills	PO6, PO7, PO8, PO9, PO10, PO12, PSO1 and PSO2
4	Lack of Project management and finance related knowledge	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO12, PSO1, PSO2
5	Lack of knowledge regarding the recent development in field of Electrical Engineering	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO12, PSO1, PSO2
6	Lack of knowledge about the skills required for lifelong learning in context to advancements	PO1, PO6, PO7, PO8, PO10, PO11, PO12, PSO1

Intiatives taken by department for compliance of the University curriculum for PO attainment:

- Lectures (Chalk and Talk)
- Expert Lecture
- Technical Seminars
- Project based Learning
- Industrial Visits and Technical Trainings
- Workshops
- Technical Activities
- E-Books, GATE/PSU Notes/Classes
- Placement Oriented Activities
- Personality Enhancement Activities
- Conferences
- Govt. Initiatives for E-Resources (Virtual lab, Swayam, NPTEL)
- Internshala
- ICT based Learning through NITTTR Chandigarh
- Social Activities
- Virtual lab
- Center of excellence
- Add on course

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 Electrical 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 Electrical 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.
- **Virtual Laboratory:** A virtual lab is an interactive, web-based environment that allows students and teachers to conduct experiments and simulations online.
- **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.
- **Digital Library:** To make learning resources available through a single-window to the learners. Students are encouraged to take use of digital library.
- **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.

The impact analysis of the delivery methods are mentioned in table 2.1.2 (A)

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 in electrical engineering, 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	Virtual Laboratory	PO1, PO2, PO3, PO4, PO5, PO8, PO11, PO12	Virtual labs can increase student engagement through interactive simulations, enhanced their conceptual knowledge and experiential skills.
9	Case Study	PO1, PO2, PO3, PO4, PO5, PO8, PO11, PO12	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.
10	Digital Library	PO1, PO2, PO3, PO4, PO5, PO8, PO11, PO12	Digital libraries can have a significant impact on research, concept building, and access to information.
11	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.
12	Spiritual Cell	PO2, PO4, PO6, PO7, PO8, PO9, PO10 , PO12	Promotes emotional resilience, balanced lifestyle, and positive mindset, contributing to holistic development.
13	Incubation Centre	PO1, PO2, PO3, PO4, PO6, PO7, PO8, PO9, PO10 , PO12	Supports entrepreneurial and innovative projects, offering resources for startups and fostering creativity.

A. Step taken to get identified gaps included in the curriculum:

- Suggestions were called from faculty members, Alumni, Industry experts & academician from reputed Institutes regarding the curriculum.
- Discussion in the department are conducted with the faculty members.
- Based on the evaluation and detailed analysis of the aforementioned components, the curricular gaps have been identified and the suggestions are forwarded to the IQAC for further suggestions and improvement and then sent to the affiliating Rajasthan Technical University as shoen in fig. 2.1.2 (A)

Fig.2.1.2 (A) Suggestions to the Affiliating University RTU in session 2022-2023 regarding curricular gaps

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Lack of technical knowledge on operations in Grid substation	Expert talk on Operations of Grid Sub Station	06/03/2023	Shri Rahul Totlani AEn RRVPNL	72	PO1,PO2, PO3,PO5, PO6, PO8, PO12
2	Communication and Life-long learning	Alumni Talk on Career Guidance & Future Opportunities After Engineering	21/07/2022	Ms. Kritika Khandelwal (2018 passout) working as ASSOCIATE SYSTEM ENGINEER in IBM	70	PO1,PO2,PO6, PO7, PO8,PO12
3	Exposure to practical problems and design development of solutions	Add on Course on Introduction to PV System	26/08/2022	Mr Bhawani, Head Training Division, Vision Automation Soultion (VAS)	97	PO1,PO2, PO3,PO5,PO6, PO8, PO11,PO12, PSO1, PSO2
4	Professional ethics, usage of modern tool and project managements	Add on Course on Advanced PV System and optimization	01/11/2022	Mr Bhawani Singh, Head Training Division, Vision Automation Soultion (VAS) and Mr Sunil Jangid, Trainer VAS	97	PO1,PO2, PO3,PO5,PO6, PO8, PO11, PO12, PSO1, PSO2
5	Less knowledge in the field of microcontrollers	Add on Course - A fundamental course on embedded system	16/03/2023	Mr.Piyush Sharma,Exackt Techfleeters Pvt. Ltd.	51	PO1,PO2, PO3,PO5,PO6, PO8, PO11, PO12, PSO1
6	Less knowledge in the field of advanced microcontrollers	A fundamental course on embedded system - II	25/04/2023	Mr.Piyush Sharma,Exackt Techfleeters Pvt. Ltd.	51	PO1,PO2, PO3,PO5,PO6, PO8, PO11, PO12, PSO1
7	Professional ethics, Software skill Practices, Life long learning	Fundamentals of C programming	04/10/2022	Ms Girija Lavania & Ms Kusum Yadav,Assistant Professor JECRC	98	PO1,PO2, PO3,PO5,PO6, PO8, PO11, PO12, PSO1, PSO2
8	Lack of Professional ethics, communication, importance of team, analytical skills in design development of solutions of complex and real time problems and Life long learning	5th National Conference-RTSTEE-2023	26/05/2023	Mr R. K. Mangal, Registrar, JECRC	100	PO1,PO2, PO3,PO4, PO5,PO6, PO7,PO8,PO9,PO10, PO11,PO12
9	Lack of correlation ability between practical and theoritical knowlege in the area of power system operations	Industrial Visit -RRVPNL 132 KV GSS Sitapura, Jaipur	05/12/2022	Mr Suresh Meena, Assistant Engineer 132 kV GSS Sitapura Jaipur	87	PO1,PO2, PO3,PO5, PO6, PO8, PO12, PSO1, PSO2
10	Lack of correlation ability between practical and theoritical knowlege in the area of power system operations	Industrial Visit -RRVPNL 132 KV GSS Sitapura, Jaipur	06/12/2022	Mr Suresh Meena, Assistant Engineer 132 kV GSS Sitapura Jaipur	67	PO1,PO2, PO3,PO5, PO6, PO8, PO12, PSO1, PSO2
11	Software engineering practices and applications	Technical Event -Appie	15/03/2023	Mr Rakesh Jain, Director GEO IT & WEB Solution	52	PO1,PO2, PO3,PO4,PO5,PO6, PO7, PO8, PO9,PO10, PO12, PSO1
12	Individual and team work, problem solving ability, life-long learning in context of general and domain knowledge, aptitude,observation skills & decision making abilities.	Technical Event - Electro Quizzer	15/04/2023	Mr Shailendra Srivastava, Assistant professor JECRC	42	PO1, PO2, PO8, PO9,PO12
13	Environment and sustainability, Engineer and Society and Lack of knowlege in diversified fields and project management	Industrial Expert talk	21/07/2022	Ms. Jaya Pandey, working as technical lead for conservation at United States Department of Agriculture.	44	PO1, PO6, PO8, PO12
14	Design development of solution and conduct investigation on complex problems through brain storming	Technical Event - Quiz Smashers	06/09/2022	Mr Ram Singh and Mr Gopal Tiwari, Assistant Professor	54	PO6, PO8, PO12

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Minimum knowledge about the different opportunities in the engineering domain	Career Opportunities for Engineer	30/03/2022	Mr Shishir Persai, Senior Faculty of GATE/ESE, EE, Made Easy	45	PO6, PO11, PO12
2	Lack of skills to score in competitive exam like GATE, IES	Career Seminar on How to crack Gate PSU exams	29/04/2022	Mr Qaisar hafiz,Senior Faculty of GATE/ESE, EE, Prepladder	59	PO2, PO3, PO6, PO8, PO11, PO12
3	Professional ethics, usage of modern tool, project managements skills and life long learning	Add on Course on Solar PV, PLC & SCADA	04/10/2021	Mr Bhawani, Head Training Division, Vision Automation Soultion (VAS)	65	PO1, PO2, PO3, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12,PSO1,PSO2
4	Lack of technical knowledge in the field of IOT and advanced softwares	Add on Course on IOT and Python	04/10/2021	Mr Bhawani, Head Training Division, Vision Automation Soultion (VAS)	63	PO1, PO2, PO3, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12,PSO1,PSO2
5	Less knowledge of soft skills	Add on course - Elementary course on C programming language	01/02/2022	Mr.Piyush Sharma, EXACKT TECHFLEETERS PVT LTD	64	PO1, PO2, PO3, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12,PSO1,PSO2
6	Lack of correlation ability between practical and theoritical knowlege in the area of controllers	A fundamental course on Embedded System	01/03/2022	Mr.Piyush Sharma,EXACKT TECHFLEETERS Pvt. LTD	54	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
7	Professional ethics, communication, importance of team, analytical skills in design development of solutions of complex and real time problems and Life long learning	4th National Conference-RTSTEE-2022	20/05/2022	Dr Manmohan Garg & Dr Satyendra Singh,MNIT Jaipur & BSDU Jaipur	100	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
8	Lack of practical exposure related to recent trends in green energy and automation	Industrial visit - Bhartiya Skill Development University	20/04/2022	Dr Manmohan Garg & Dr Satyendra Singh,MNIT Jaipur & BSDU Jaipur	40	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
9	Lack of practical exposure related to recent trends in green energy and automation	Industrial visit - Bhartiya Skill Development University	21/04/2022	Dr Satyendra Singh & Dr Avani, Associate Professor, BSDU, Jaipur	80	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
10	Coding skills and Software engineering practices and applications	Technical Event – APPIE	19/02/2022	Ms Punita Panwar, CS Department, JECRC	55	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
11	Lack of design and development skills	Technical Event – TECHNOCRAZY	09/04/2022	Ms Fauzia Siddiqui and Ms Vinita Mathur, IQAC JECRC	35	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2

2020-21

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Lack of knowledge in Power system load estimation	Expert Lecture on Building Energy Simulation for Load Estimation	22/05/2021	Dr Aviruch Bhatia, Assistant Professor in TERI School of Advanced Studies, New Delhi India	40	PO1, PO2, PO5, PO6, PO7, PO8, PO12
2	Lack of ability to handle the stress and focus on work	Expert Talk on Motivation through power courage	24/09/2020	Mr Nidheesh Goyal, Motivational Speaker, Radio Jockey, DD Program Presenter Professional Anchor, Counselor	37	PO8, PO9, PO10, PO12
3	Lack of knowledge about the advanced courses, projects and internship domains	Internship program by Techienest Pvt Ltd.	29/05/2021	Mr Ashutosh Singh, Mr Saurabh Bhardwaj, Mr PeeyushSanam, TechieNestPvt Ltd	55	PO8, PO9, PO10, PO12
4	Lack of knowledge about grid operations under influence of different renewables	Expert Lecture on “Grid Operation Under High Penetration of Renewables	04/07/2020	Dr Manohar Singh, Engineering Officer, Power System Division, CPRI, Bangalore	34	PO1, PO2, PO7,PO8, PO10, PO12
5	Lack of knowledge about the practical aspects in renewable energy applications	Guest Lecture on Integration of Large Scale Wind and Solar Power Projects in Rajasthan	17/10/2020	Dr M.P. Singh, AEn RRVPNL	70	PO1, PO2, PO7,PO8, PO10, PO12
6	Lack of understanding about the Grid scenarios and their operations	Expert Lecture on Grid System in India	14/05/2021	Mr V Karthik, IES, Assistant Director for the Western Regional Power Committee (WRPC), Central Electricity Authority (CEA), and Ministry of Power (MOP) Govt. of India	80	PO1, PO2, PO7,PO8, PO10, PO12
7	Lack of understanding of smart Grids and their operation under penetration of renewables	Expert Lecture” on Renewables in Smart Grid Framework	10/06/2021	Dr. Y.P. Verma Professor, Electrical Engineering Department, U.I.T. Punjab University, Chandigarh	70	PO1, PO2, PO7,PO8, PO10, PO12
8	Lack of understanding about the smart sensors and wireless networks	Expert lecture on “ Smart Sensors and Wireless Networks	11/06/2021	Dr. Mrutyunjay Rout Assistant Professor, Department of Electronics and Communication Engineering, N.I.T. Jamshedpur	58	PO1, PO2, PO7,PO8, PO10, PO12
9	Lack of understanding related to electricity market ande distributed generation	Expert Lecture on Distribution Automation and Electricity Market.	12/06/2021	Dr. (Prof.) Ashwani Kumar Sharma Professor, Electrical Engineering Department, N.I.T. Kurukshetra	58	PO1, PO2, PO7,PO8, PO10, PO12
10	lack of knowledge about machine learning and deep learning	Add on course - Elementary course on Deep learning using python	29/01/2021	EXACKT TECHFLEETERS PVT LTD	40	PO1, PO2,PO3, PO5, PO7,PO8, PO10, PO11, PO12
11	lack of knowledge about machine learning	Add on course - Elementary course on Machine Learning	29/02/2021	EXACKT TECHFLEETERS PVT LTD	40	PO1, PO2,PO3, PO5, PO7,PO8, PO10, 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

Faculty members are oriented towards Outcome Based Education (OBE) and are actively utilizing the OBE to cater the learning needs of students by innovative ways.

A. Adherence to Academic Calendar

Institutional calendar is prepared and aligned with academic calendar of RTU. In addition to events proposed by the college in academic calendar, department introduces many other events and activities that are beneficial in overall development of the students. The academic calendar includes the regular teaching plan as well as other extra student centric activities. It also includes the intimation of regular Midterm examinations and class tests. Also, training and placement and skill development program is also a part of our academic calendar so that the students can gain on technical as well as personality development that consequently make them employable.

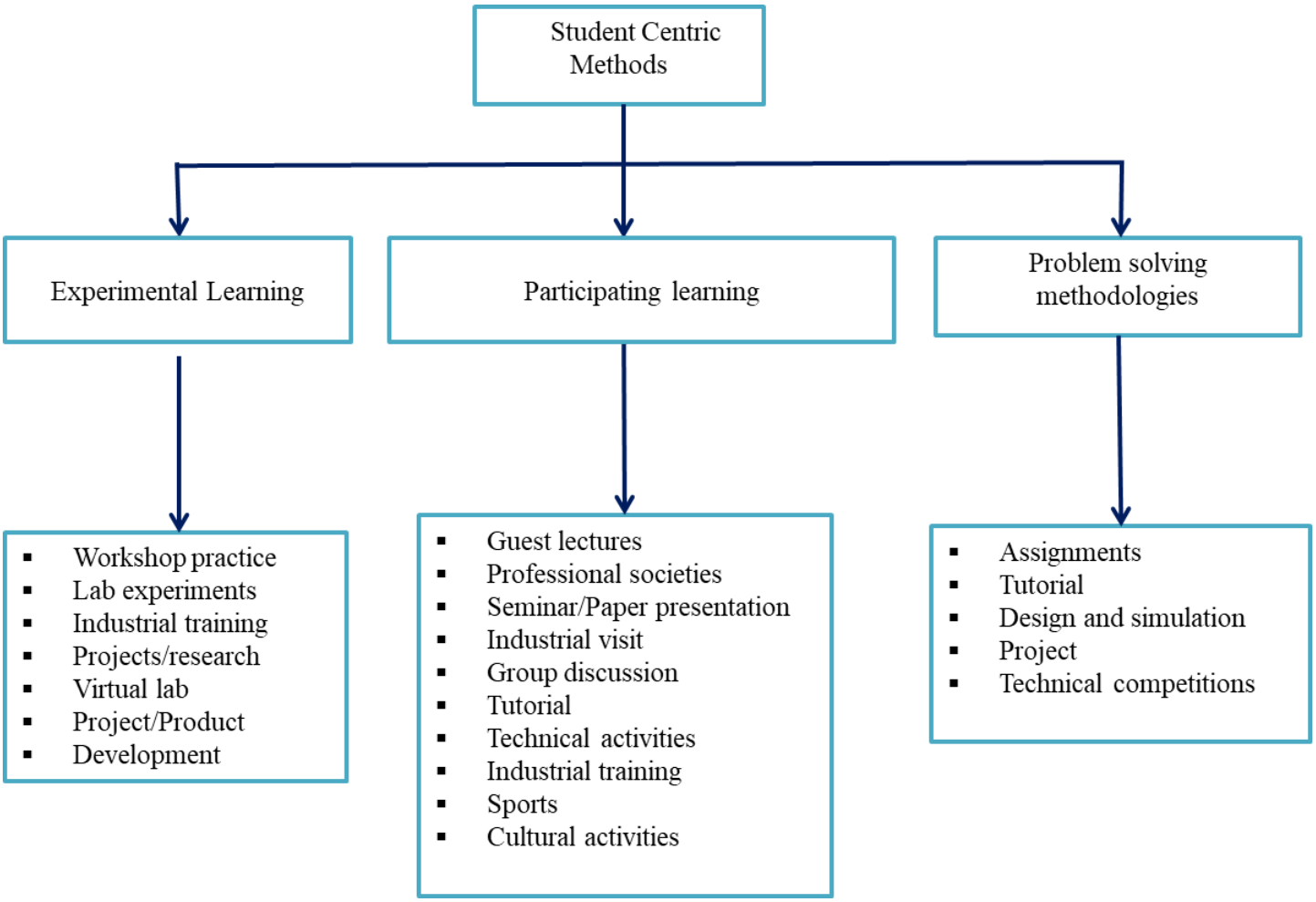
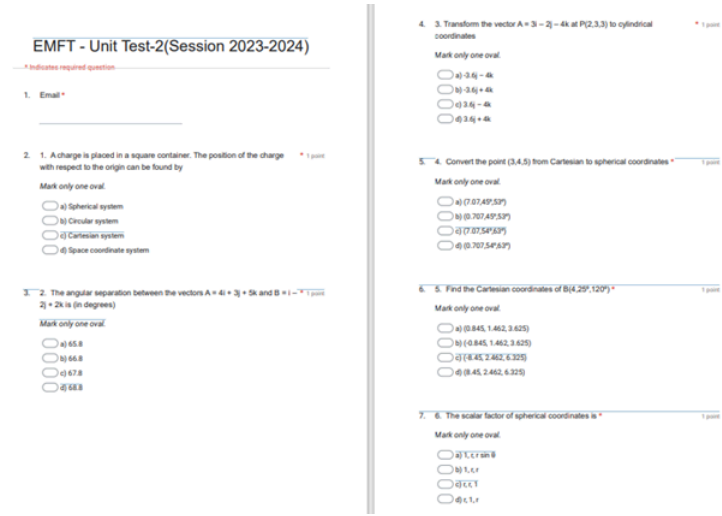


Fig. 2.2.1 (A) Student Centric methods

- Lecture Delivery is made innovative in the department by inculcating various methods in the teaching learning process like recalling prior related topics, generating questions, responding to generated queries, etc. All these methods are generally performed in cooperative approach like Group Discussions and Seminars.
- In labs, the delivery to the students is performed with the help of latest software and performance of each student is evaluated in the Lab Performance Report. Viva voce and seminars are taken in the respective labs.
- Experiments in the laboratories are conducted as per the university guidelines. Some discussions are made beyond syllabus relevant to the course. Laboratory manuals explaining the details of the experiment are available with the course teacher and are given to students during the semester.
- Faculty members not only provide well written unit wise notes but also focuses on the materials provided online by the well renowned universities. They focus on the video lecture material provided to the students online e.g. NPTEL, SWAYAM. It enhances the capability of students to not only understand the context but also its practical approaches.
- Oral Questionnaire and Query Session in each lecture delivery of respective subjects.
- Class Tests and Assignments are being taken by faculty members for each respective subject.
- Performance Report is discusses to the students on regular basis.
- Mentoring sessions are conducted to provide guidance to students towards achieving professional requirements and assessment of his/her academic progress as well as personal growth. One-one discussion, interaction between faculty member and students has increased confidence levels of the students.
- Projects are mandatory for VIII Semester students. Students make their major projects under the supervision of their respective Guides (Faculty members).
- Faculty Development Programs are organized in the department to ensure that the faculty members have the knowledge of latest technologies.
- The department has provision of showing answer sheets of internal examination to the students. They can discuss with respective subject teacher. Faculty members give assignments, take tutorials, quiz etc. This has added value to the system.
- The department gives emphasis on concept building and exposure of latest knowledge of the subject.
- For developing communication skills, group discussions, presentation on theory based and general topics are regularly carried out in the class.
- The midterm exams are evaluated on the basis of course outcomes. 60% achievement of each student in the respective subject ensures the achievement of the course outcome. If any student doesn't achieve the required criteria, he/she is given the assignments related to those course outcomes in which the student did not secure 60% marks.
- The fast learners having high academic track records are encouraged by faculty members to achieve university ranks, also encouraged to take up competitive examinations like GATE, GRE etc. The faculty members encourage the students, those having orientation towards research to do research work and publish their research work in National & International Conferences and Journals.

Computer Based Test (Sample)


EMFT - Unit Test-2(Session 2023-2024)

* Indicates required question

1. Email *

2. 1. A charge is placed in a square container. The position of the charge with respect to the origin can be found by * 1 point

Mark only one oval.

a) Spherical system
b) Circular system
c) Cartesian system
d) Space coordinate system

3. 2. The angular separation between the vectors A = 4i + 3j + 5k and B = i – 2j + 2k is (in degrees) * 1 point

Mark only one oval.

a) 65.8
b) 66.8
c) 67.8
d) 68.8

4. 3. Transform the vector A = 3i – 2j – 4k at P(2,3,3) to cylindrical coordinates * 1 point

Mark only one oval.

a) -3.6j – 4k
b) -3.6j + 4k
c) 3.6j – 4k
d) 3.6j + 4k

5. 4. Convert the point (3,4,5) from Cartesian to spherical coordinates * 1 point

Mark only one oval.

a) (7.07,49°,53°)
b) (0.707,49°,53°)
c) (7.07,54°,53°)
d) (0.707,54°,63°)

6. 5. Find the Cartesian coordinates of B(4,25°,120°) * 1 point

Mark only one oval.

a) (0.845, 1.462, 3.625)
b) (-0.845, 1.462, 3.625)
c) (-8.45, 2.462, 6.325)
d) (8.45, 2.462, 6.325)

7. 6. The scalar factor of spherical coordinates is * 1 point

Mark only one oval.

a) 1, r, r sin θ
b) 1, r, r
c) r, r, 1
d) r, 1, r

Fig. 2.2.1 (B) Computer based test of EMFT (Sample)

Table. 2.2.1 (A) Virtual Lab Details (Sample)

S.No	Name of Lab	Name of Experiment	Virtual lab Link	Attendee
1.	Analog Electronics Lab 3EE4-21	Plot gain-frequency characteristics of BJT amplifier with and without negative feedback in the emitter circuit and determine bandwidths, gain bandwidth products and gains at 1 kHz with and without negative feedback	http://vlabs.iitkgp.ernet.in/be/exp13/index.html# (http://vlabs.iitkgp.ernet.in/be/exp13/index.html)	45
2.		To analyze the variations of pulsating dc output voltage waveform of R & L load for half wave uncontrolled rectifier.	http://vlabs.iitb.ac.in/vlabs-dev/labs/mit_bootcamp/power_electronics/labs/exp1/index.php (http://vlabs.iitb.ac.in/vlabs-dev/labs/mit_bootcamp/power_electronics/labs/exp1/index.php)	45
3.	Digital Electronics Lab (4EE4-23)	To verify the truth tables of basic logic gates: AND, OR, NOR, NAND, NOR. Also to verify the truth table of Ex-OR, Ex-NOR (For 2, 3, & 4 inputs using gates with 2, 3, & 4 inputs).	http://vlabs.iitkgp.ernet.in/dec/ (http://vlabs.iitkgp.ernet.in/dec/)	45
4.		To verify the truth table of OR, AND, NOR, Ex-OR, Ex-NOR realized using NAND & NOR gates	http://vlabs.iitkgp.ernet.in/dec/ (http://vlabs.iitkgp.ernet.in/dec/)	44
5.		To realize an SOP and POS expression.	http://vlabs.iitkgp.ernet.in/dec/ (http://vlabs.iitkgp.ernet.in/dec/)	44
6.		To realize Half adder/ Subtractor & Full Adder/ Subtractor using NAND & NOR gates and to verify their truth tables.	http://vlabs.iitkgp.ernet.in/dec/ (http://vlabs.iitkgp.ernet.in/dec/)	45
7.		To realize a 4-bit ripple adder/ Subtractor using basic half adder/Subtractor & basic Full Adder/ Subtractor.	http://vlabs.iitkgp.ernet.in/dec/ (http://vlabs.iitkgp.ernet.in/dec/)	44
8.		To verify the truth table of 4-to-1 multiplexer and 1-to-4 demultiplexer. Realize the multiplexer using basic gates only. Also to construct and 8-to-1 multiplexer and 1-to-8 demultiplexer using blocks of 4-to-1 multiplexer and 1-to-4 demultiplexer.	http://vlabs.iitkgp.ernet.in/dec/ (http://vlabs.iitkgp.ernet.in/dec/)	45

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. **Virtual lab:** A virtual lab is an interactive, web-based environment that allows students and teachers to conduct experiments and simulations online.
3. **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.
4. **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.
5. **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.
6. **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.

7. **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.

8. **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.

9. **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.

10. **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.

11. **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.

12. **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.

13. **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 following the guidelines of the Electrical Engineering Program. The university curriculum allocates two to four 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. Continuous Assessment in the Laboratory is done.

Table 2.2.1 (B) Sample of experiment List of Power Electronics lab (Maapped with COs)

Sr. No.	List of Experiments	COs
1	Study the comparison of following power electronics devices regarding ratings, performance characteristics and applications: Power Diode, Power Transistor, Thyristor, Diac, Triac, GTO, MOSFET, MCT and SIT.	CO1
2	Determine V-I characteristics of SCR and measure forward breakdown voltage, latching and holding currents.	CO1
3	Find V-I characteristics of TRIAC and DIAC.	CO1
4	Find output characteristics of MOSFET and IGBT.	CO1
5	Find transfer characteristics of MOSFET and IGBT	CO1
6	Find UJT static emitter characteristics and study the variation in peak point and valley point.	CO1
7	Study and test firing circuits for SCR-R, RC and UJT firing circuits.	CO1
8	Study and test 3-phase diode bridge rectifier with R and RL loads. Study the effect of filters.	CO2, CO3
9	Study and obtain waveforms of single-phase half wave-controlled rectifier with and without filters. Study the variation of output voltage with respect to firing angle.	CO2, CO3
10	Study and obtain waveforms of single-phase half-controlled bridge rectifier with R and RL loads. Study and show the effect of freewheeling diode.	CO2, CO3
11	Study and obtain waveforms of single-phase full controlled bridge converter with R and RL loads. Study and show rectification and inversion operations with and without freewheeling diode.	CO2, CO3
12	Control the speed of a dc motor using single-phase half-controlled bridge rectifier and full controlled bridge rectifier. Plot armature voltage versus speed characteristics.	CO2, CO3

LAB 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	Turn-13	Turn-14

1	A	B	C	D	E	F	First Internal Viva	-	-	-	-	-	-	Second Internal Viva & Finalization of marks
2	F	A	B	C	D	E		-	-	-	-	-	-	
3	E	F	A	B	C	D		-	-	-	-	-	-	
4	D	E	F	A	B	C		-	-	-	-	-	-	
5	C	D	E	F	A	B		-	-	-	-	-	-	
6	B	C	D	E	F	A		A	B	C	D	E	F	
7	-	-	-	-	-	-		F	A	B	C	D	E	
8	-	-	-	-	-	-		E	F	A	B	C	D	
9	-	-	-	-	-	-		D	E	F	A	B	C	
10	-	-	-	-	-	-		C	D	E	F	A	B	
11	-	-	-	-	-	-		B	C	D	E	F	A	

	Roll Numbers	
Sub-Groups	**A1**	**A2**
A	1-5	31-35
B	6-10	36-40
C	11-15	41-45
D	16-20	46-50
E	21-25	51-55
F	26-30	56-60

D. Methodology to support slow learners:

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 fast learners:

Advanced learners 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.

F. Quality of classroom teaching:

The quality of classroom teaching is assured and monitored through:

a. Faculty Development Programs are conducted to enhance their knowledge time to time in each session.

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

e. 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 DQAC and IQAC.

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

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

- The Internal semester assessment for each subject is done by means of Midterm tests I & II. While finalizing the question paper for midterm tests previous university exam papers, GATE, IES, PSU and other competitive exams question papers are taken into consideration.
- The questions are prepared using the learning levels from the Bloom's Taxonomy. The questions are mainly prepared based on the Course Outcomes.
- To ensure the quality of Midterm test, question papers, solution of question papers and for scrutinize of the answer sheets, the department has drafted a committee named as Paper Moderation and scrutinizing Committee.

Moderation and scrutinizing Committee (2023-24)

S.NO.	Faculty Name	Qualification	Designation	Role
1	Dr. Prerak Bhardwaj	BE, M. Tech, PhD	HOD	Chair
2	Dr Pooja Sharma	B. Tech, M. Tech, PhD	Assistant Professor	Member
3	Dr Vikram Singh	B. Tech, M. Tech, PhD	Assistant Professor	Member
4	Ms Neha Agrawal	M. Tech	Assistant Professor	Member

- The departmental moderation committee ensures the quality of question papers in discussion with faculty members. All questions in the question paper are mapped with course outcomes and thus identification of slow learner and fast learner is carried out based on predefined targets.
- Faculty members also provide assignment/question bank (having question of previous year question papers)/GATE/IES/PSU question to all students. Assignments are given to the students to achieve the outcomes of the courses to promote the self-learning.
- After Midterm test each course handling faculty member evaluates the answer scripts within a week after completion of the examination. Further the solutions are discussed in the class which enables students to understand their mistakes. The subject teacher prepare report after evaluating the answer sheets to analyze the course outcomes (COs) of each subject.
- Course Outcome (CO) is evaluated based on the performance of student's in midterm test and in university examination of a course. Midterm assessment contributes 30% and university assessment contributes 70% to the total attainment of course outcomes.
- Grievance forms related to evaluation of answer script is provided to the students and necessary actions are taken within stipulated time to resolve any grievance.

Process of question paper formation for internal theory exam:

1. Prior information is provided to faculty members to prepare the question paper with solution of their respective subject.
2. Then mapping of question papers to COs will be done.
3. Then scheme of CO wise evaluation for question paper is define.
4. In the next step Paper moderation committee will scrutinize all papers.
5. If at-least two papers are up to the mark, then Paper moderation committee selects final question paper(s).
6. If none of the papers are up to the mark then again follow the step 2 to step 5 in an iterative manner.

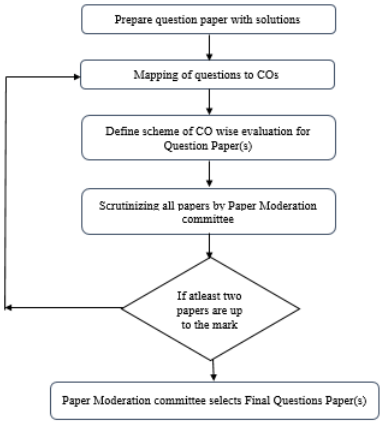


Fig. 2.2.2 (A) **Process of Formation of question paper for Mid Term test**

MTT-1

Set-A

Academic Year 2023-24 (EVEN Semester)

Course	:	**B. Tech.**	**Date**	:	29/03/2024
Semester/ Section	:	IV	**Time Duration**	:	01:30 Hrs
Subject& Subject Code	:	Electronic Measurement & Instrumentation & 4EE3-04	**Max. Marks**	:	30

Course Outcomes	
CO1	Acquire detailed knowledge of different-different instruments.
CO2	Develop the ability to select measuring instruments for a given application.
CO3	Design the different AC and DC bridges and the application of different bridges for measurements.

Q. No.	**CO**	**Questions**	**Marks**
PART- A: Attempt All Questions (5x2 = 10Marks)			

1.	**CO1**	State the applications of electrodynamic instruments?	2
2.	**CO1**	How the pressure and control coil of wattmeter are connected in circuit.	2
3.	**CO1**	Identify the factors contributing to creeping error in an energy meter and their impact on energy consumption readings.	2
4.	**CO2**	State any two applications of CT and of PT.	2
5.	**CO2**	With reference to PMMC instruments, which of the following statements are correct? 1. For PMMC instruments, the scale is not uniform. 2. PMMC instruments can be used for AC as well as DC quantities. 3. In PMMC instruments, power consumption is low. 4. PMMC instruments offer a high torque/weight ratio. (A) I and III (B) I and II (C) III and IV (D) II and IV **SSC JE 2023**	2
PART-B: Attempt ANY TWO Questions (2x5 = 10Marks) **Student must attend one question from each CO**			
1.	**CO1**	Illustrate the construction and working of moving coil type instruments.	5
2.	**CO1**	Discuss the compensation and adjustment of the errors in wattmeter.	5
3.	**CO2**	A 50 mA meter movement with an internal resistance of 1 kW is to be used as a dc voltmeter of range 50V. Calculate the (i) multiplier resistance required and (ii) voltage multiplying factor **SSC JE-2016**	5
4.	**CO2**	A current transformer having a bar primary is rated at 500/5 A, 50 Hz with an output of 20VA. At rated load with non-inductive burden, the in phase and quadrature components (referred to the flux) of the exciting mmf are 8 A and 10 A respectively. The number of turns in the secondary winding is 98 and the impedance of the secondary winding is (0.4+j0.3) Ω. Calculate the ratio and phase angle errors. **ES (main) exam-2023**	5
PART-C: Attempt ANY TWO Questions (2x5 = 10Marks) **Student must attend one question from each CO**			
1.	**CO1**	Illustrate the construction and working of induction type instruments with merits and demerits.	5
2.	**CO1**	Explain the testing and calibration of single phase energy meter by phantom loading.	5
3.	**CO2**	Two ammeters having resistance of 1 Ω and 2 Ω respectively give full-scale deflections with 200 mA and 250 mA respectively. Find the shunt to be connected with these ammeters to extend their range to 20 A. The range extended ammeters are connected in parallel and then placed in a circuit in which a total current of 15 A is flowing. Find the readings of the ammeters. **UPSC-2023**	5
4.	**CO2**	Discuss the measurement of power by two wattmeter method. **SSC JE-2016**	5

Fig. 2.2.2 (B) Question Paper (Sample)

Process of conduction and evaluation of internal theory exam:

1. Once the conduction of internal exam i.e. midterm test is over then evaluation of answer books is started.

2. In the next step DQAC manages/performs the scrutinizing process of all evaluated answer books.

3. Then the answer books are shown to students, if student is satisfied with the evaluation then the result analysis based on COs will be done.

4. If the student is not satisfied with the answer book evaluation, grievances of students related to evaluation are processed through Dept. HOD & DQAC by submitting a grievance form.

5. If the obtained marks in all COs≥ 60%, then the student is considered as strong.

6. If the obtained marks in all COs ≤ 60%, then the student is considered as slow learners and assignment based on COs, question bank is given to students. After the evaluation of assignment based on COs, If any students are still found slow by following the above process then mentoring of the students will be done.

8. 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 that the final internal marks are prepared and submitted to exam cell.

JECRC				
Department of Electrical Engineering				
B Tech Semester IV 2023-24				
Slow Learner				
(MTT 1)				
S.No.	**Roll Number**	**Name of Students**	**CO1(16)**	**Target Achived (Y/N)**
1	22EJCEE008	ARYAN MAHESHWARI	3	N
2	22EJCEE009	AVANTIKA SHARMA	9	N

3	22EJCEE011	DEVANSH LODHA	8	N
4	22EJCEE012	HARSHIT KUMAWAT	9	N
5	22EJCEE013	HARSHITA GUPTA	5	N
6	22EJCEE014	HONEY SHARMA	3	N
7	22EJCEE019	PRIYANSHU PAREEK	2	N
8	22EJCEE020	PUNEET AGRAWAL	8	N
9	22EJCEE021	PUSHPENDRA SINGH RATHORE	6	N
10	22EJCEE022	RAHUL JANGIR	6	N
11	22EJCEE023	RAHUL SAINI	7	N
12	22EJCEE027	SACHIN SINGH	6	N
13	22EJCEE032	UDAY KUMAR SHARMA	4	N
14	23EJCEE200	GOURAV TANK	3	N
15	23EJCEE201	HARSH PANWAR	AB	N

JECRC				
Department of Electrical Engineering				
B Tech Semester IV 2023-24				
Slow Learner				
(MTT 1)				
S.No.	**Roll Number**	**Name of Students**	**CO2(14)**	**Target Achived (Y/N)**
1	22EJCEE008	ARYAN MAHESHWARI	3	N
2	22EJCEE013	HARSHITA GUPTA	6	N
3	22EJCEE014	HONEY SHARMA	2	N
4	22EJCEE019	PRIYANSHU PAREEK	2	N
5	22EJCEE020	PUNEET AGRAWAL	7	N
6	22EJCEE022	RAHUL JANGIR	5	N
7	22EJCEE023	RAHUL SAINI	6	N
8	22EJCEE027	SACHIN SINGH	7	N
9	22EJCEE032	UDAY KUMAR SHARMA	7	N
10	22EJCEE038	VISHNU SHARMA	7	N
11	23EJCEE200	GOURAV TANK	6	N
12	23EJCEE201	HARSH PANWAR	AB	N

Fig. 2.2.2 (C) List of slow learners in CO1 and CO2

Slow Learners Assignment for CO1

CO1/Q1. Explain the construction and working principle of a moving coil instrument. Derive the torque equation for this type of instrument and discuss the errors that affect its accuracy. How do these errors impact the measurement of current and voltage?

CO1 / Q2. Illustrate the construction and working principle of an induction type energy meter. Show that number of revolutions of the disc in induction type energy meter is proportional to energy consumed?

CO1 / Q3. Explain the construction and working of 3 phase induction type energy meter.

CO1 / Q4. The coil of a 600V M.I meter has an inductance of 1 henery. It gives correct reading at 50HZ and requires 100mA. For its full scale deflection, what is % error in the meter when connected to 200V D.C. by comparing with 200V A.C?

CO1 / Q5. Compare the construction and operation of moving iron instruments with electrodynamic instruments. Derive the torque equation for moving iron instruments and discuss the impact of power factor errors and frequency errors on their accuracy.

CO1 / Q6. How the pressure and control coil of wattmeter are connected in circuit.

CO1 / Q7. Describe the working principle and construction of an electrodynamic wattmeter. Discuss its application in measuring real power in an AC circuit. How do the errors in wattmeter readings due to low power factor and stray magnetic fields affect the measurement?

CO1 / Q8. Discuss the compensation and adjustment of the errors in wattmeter.

CO1 / Q9. Two ammeters having resistance of 1 Ω and 2 Ω respectively give full-scale deflections with 200 mA and 250 mA respectively. Find the shunt to be connected with these ammeters to extend their range to 20 A. The range extended ammeters are connected in parallel and then placed in a circuit in which a total current of 15 A is flowing. Find the readings of the ammeters.

CO1 / Q10. A 50 μA meter movement with an internal resistance of 1 kΩ is to be used as a dc voltmeter of range 50V. Calculate the (i) multiplier resistance required and (ii) voltage multiplying factor.

Slow Learners Assignment for CO2

CO2/Q1. Explain 1–wattmeter method of measuring 3–phase power with a neat circuit and give the vector diagram.

CO2/Q2. Describe the construction and operation of Current Transformers (CTs). How do ratio errors and phase angle errors in CTs affect the accuracy of current measurements, and how can these errors be minimized?

CO2/Q3. A 500A/5A, 50Hz current transformer has a bar primary. The secondary burden is a pure resistive of 1 Ω and it draws a current of 5 A. If the magnetic core requires 250 AT for magnetization, the what is the percentage ratio error.

CO2 /Q4. Explain the operation of a Potential Transformer (PT) and the sources of ratio errors and phase angle errors in a PT. How does the secondary burden and frequency variations affect these errors?

CO2 /Q5. A current transformer with a bar primary has 100 turns in the secondary winding. The resistance and reactance of the secondary circuit is 1 Ω and 2 Ω respectively with the 10 A current flowing in the secondary winding, the magnetizing mmf is 100 AT and iron loss is 1 W. find the parentage ration error.

CO2 /Q6. A current transformer having a bar primary is rated at 500/5 A, 50 Hz with an output of 20VA. At rated load with non-inductive burden, the in phase and quadrature components (referred to the flux) of the exciting mmf are 8 A and 10 A respectively. The number of turns in the secondary winding is 98 and the impedance of the secondary winding is (0.4+j0.3) Ω. Calculate the ration and phase angle errors.

CO2 /Q7. State Blondel's Theorem for an n-phase, p-wire system. Derive the number of wattmeters required for measuring the total power in a 3-phase, 4-wire system with an unbalanced load.

CO2 /Q8. Discuss the one-wattmeter, two-wattmeter, and three-wattmeter methods for measuring power in a 3-phase unbalanced system. How does the use of these methods differ based on the system configuration and load conditions?

2.2.3 Quality of student projects (25) Institute Marks : 25.00

To ensure the quality and monitoring of projects, department analyse continuous evaluation and progress through Project assessment Committee. The committee comprises of senior faculty members in the department. Student projects are evaluated and continuous monitoring is done by the concerned faculty mentor of the project.

- Progress report presentation followed by viva-voce has been carried out twice in a semester in front of Project assessment committee for review of the progress and suggestions thereafter.
- A presentation followed by viva voce is also carried out at the end of semester also in front of the external examiner and other students.
- Some students apply their project ideas for patent.
- All the students are 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.
- All the papers in the form of conference proceeding is also maintained in the department and shared with IQAC.

Project Identification

- Project coordinator issues a circular to all faculty members to provide the list of four to five projects to be given to the students.
- 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.

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 twice 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 VIII semester in front of the external examiner and other students.
- Each group of students has to submit a report of their work.
- The project exhibition is carried out at the end of VIII semester. Student/group of students demonstrated the project in front of external examiner and other students.

Project Stages and Guidelines

Stage 1: Formation of Groups

Stage 2: Selection of Supervisor

Stage 3: Assignment by Supervisor/Project Guide to concerned Group Students will share their interest with the project guide and based on the result of the mutual discussion between the students groups and guide, they will submit the registration form of the selected project group to the project incharge.

Stage 4: Submission of Synopsis report

After the assignment of the guide, the students are asked to submit the synopsis report. It is a two page report which includes the abstract and introduction about your research work.

Stage 5: Synopsis Presentation:

- Each group will present their idea about the project in the form of 5 minutes power point presentation.
- The project coordinators and faculty members will evaluate each project according to feasibility, future applications, social impact and technological advancements.
- In this assessment, if the project is approved then each student group will submit the hard copy of synopsis report to the project coordinator duly signed by the project supervisor.
- If the project is not approved , then you have to submit another Synopsis report until the project is approved by the committee of faculties, supervisor and coordinator

Stage 6: Project Status Report (PSR) by supervisor

- Each group will frequently meet with the project supervisor and describe the project status.
- The status report will be submitted in a format (**Weakly Progress Report Format)** filled handwritten.
- This status report will be duly singed by supervisor.

Stage 7: Submission of the Project Report

- Each group will prepare the report according to the guidelines and given format.
- First the draft copy of the report in the spiral binding will be checked by project supervisors.
- Once the supervisor approved the report, student will submit the final copy of report in the hard bound form.

Stage 8: Internal Assessment

- In internal assessment each group and their members will indicate about the progress of the project and their specific roles to carry out the work.
- The performance will be judged based on the viva voice and quiz.
- Student will bring the draft copy of the report and their hardware for demonstration.
- The group performance will be evaluated by the demo of the project and quality of the project.

Stage 9: External Exam

- Student will bring the project and the hard bound report.
- External viva voce will be conducted by the examiner.
- Final evaluation will be done taking into account the benefits of the project, any patent applied and any research paper communicated in this regard.

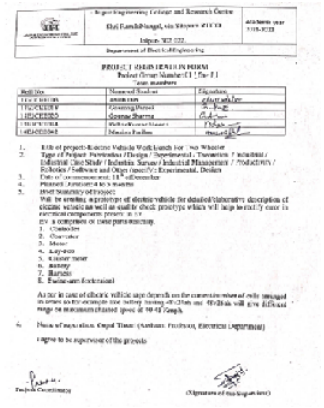
Project Topics from Faculty Members (Sample)

Research Areas and Project Topics

Name	Designation	Area of Specialization	Title of Research Topic 1	Title of Research Topic 2	Title of Research Topic 3	Title of Research Topic 4
Dr Pooja Sharma	Assistant Professor	Control systems	Stability analysis of load frequency control system	Controller design for load frequency control system	Numerical stability test for load frequency control system with delays	Investigation of control design for delay systems
Mr Gopal Tiwari	Assistant Professor	AI/ML	Path Planning Algorithms: Vehicles	Smart Meter Data Analytics for Distribution Network Connectivity Verification	Computer Vision: Using techniques like object detection, recognition, and tracking, computer vision algorithms	Estimation of Power consumption for Electrical Appliances using ML

Dr Prerak Bhardwaj	Associate Professor	Power Electronics and Drives	Design and Development of Multilevel Converters	Design and Development of Hybrid Vehicle	Smart Technologies and Control techniques for Harmonics mitigation	Development of Power Electronic Converters for Wind and PV
Ms Sonali Chadha	Assistant Professor	Energy management	Demand side management	Clean development mechanism	Electric vehicles charging	Smart grid
Mr L.Senthil	Assistant Professor	Power System	Power System	Multilevel Inverters	Microgrid	Embedded System
Mr Shailendra Shrivastava	Assistant Professor	Power System.	Load Flow Analysis of Transmission Lines in MatLab.	Modeling and simulation of Distributed Power Flow Controller in Power System in Matlab.	Hybrid Electrical Power Generation System.	Modeling and simulation of FACTS devices.

PROJECT REGISTRATION FORM (SAMPLE)



Project Details: 2023-2024 (Sample)						
JECRC						
EE Department						
Session 2023-2024						
Details of Project Category						
GROUP NO	**RTU ROLL NO**	**NAME**	**GUIDE**	**TOPIC**	**TYPE**	**Relevance with Pos/PSOs**
G3	20EJCEE036	HARSHVARDHAN SAINI	Dr Pooja Sharma	Smart Plant Monitoring System	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE017	ARYAN JANGID				
	20EJCEE037	HITESH PRAJAPAT				
	20EJCEE029	DIVYAM DWIVEDI				
	20EJCEE033	GOURAV MEHRA				
G6	20EJCEE045	KIRTI NAMA	Mr Shailendra Srivastava	IOT based Paralysis Patient Monitoring System	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE044	JYOTI KAUSHIK				
	20EJCEE007	ABHISHEK KUMAR				
	20EJCEE016	ARUN CHANDRA				
	20EJCEE010	AKSHAT BHARDWAJ				
G7	20EJCEE014	ANJALI Naruka	Dr Prerak Bhardwaj	EV Charger	Software and Analytical Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	20EJCEE005	ABHISHEK GOYAL				
	20EJCEE022	AYUSH SINGH				
	20EJCEE009	ADITYA MAHESHWARI				
	20EJCEE031	DRASHTI VIJAY				
G8	20EJCEE032	GAURAV JINDAL	Mr L. Senthil	Matrix headlights to reduce road accidents	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE024	CHANDRABHAN SINGH				
	20EJCEE011	AMAN BALODIA				
	20EJCEE008	ADITYA KUMAR				
	20EJCEE049	LOKESH KUMAR				

G14	20EJCEE075	SANSKRITI MITTAL	Dr Vikram Singh	Creating a Salary prediction Model	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE095	YUVRAJ SINGH				
	20EJCEE082	SUNNY SALVI				
	20EJCEE053	MOHIT AGRAWAL				
	20EJCEE088	VARUN SHARMA				
G16	20EJCEE089	VIKASH CHOUDHARY	Mr Gopal Tiwari and Mr Ram Singh	IOT based Power Consumption Monitoring	Analytical, Software and hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE093	YASH MANTRI				
	20EJCEE081	SUMIT HANDA				
	20EJCEE080	SIDDHARTH JAIN				
	20EJCEE059	PIYUSH KUMAWAT				
	20EJCEE057	PAWAN KUMAR				
	20EJCEE073	SAKSHI SAROTIYA				
G17	21EJCEE201	KSHITIZ RATHI	Mr Gopal Tiwari	Energy Performance Analysis of JECRC College B Block: A comparative Study Using eQuestSotware	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE087	UTKARSH MATHUR				
	20EJCEE056	NITISH JAIN				
	20EJCEE092	VIVEK KUMAR				
	20EJCEE083	TANUSHREE BHARADWAJ				

Impact Analysis:

- The technical capabilities of students are significantly enhanced, equipping them with advanced skills and knowledge.
- Students experience improved placement rates in core industry sectors, reflecting the growing recognition of their technical and professional expertise.

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

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 man power necessary to sustain and promote industrial and economic growth. The process of industry related intiatives are carried out as shown in Fig. 2.2.4 (A). To strengthen interaction with industries and to keep our students updated with the latest trends in Electrical Engineering, the department has implemented following initiatives:

- Department signed a MoU with MG motors, that provide the internship, add on training, workshops and seminars in the area of Electric Vehicles.
- Department signed a MoU with one Industry supported laboratory viz. Baba Automobile Research Laboratory (Equipment worth rupees 2.5 Lakh is provided by the Baba Automobile Pvt. Limited).
- Department also signed MOU with Exact Techfleeters Pvt. Ltd. for training on embedded system, python etc.
- Training and activities are carried out through these laboratories for skill enhancement for students.
- These laboratories are utilised by the students during their project work and for analysis purpose for writing research papers.
- Skill enhancement of the students is also carried out through FACE academy and it is mandatory for all pre final year students.
- Students also visit various industries after the end of fourth and Sixth semester for mandatory industrial training of 30 and 45 days is also serving as industry institute interaction.
- Various industries do visit for campus recruitment for electrical engineering students and also provide feedbacks to the department on various issues.
- Some of the industrial visits and technical talks are the outcome of industry-institute relationship and are included as content beyond syllabus for knowledge enhancement. In the academic year 2021-22 and 2022-23, and 2023-2024 department has carried out industrial visits as mentioned in table 2.2.4, that results form industry institute interactions.

Table 2.2.4 Industrial visits in last three years

2021-2022					
S. No	**Industrial visit**	**Date**	**Name of organization**	**Resource person**	**Relevance to POs**
1	Industrial visit	20-22/04/ 2022	Industrial visit at Bhartiya Skill Development University, Jaipur	Dr. Satyendra Singh and Dr. Avani	PO1, PO2,PO3, PO8, PO9, PO11
2	Industrial Visit	03-06-2022	Baba Automobile	Mr Nimish Baba	PO1, PO2, PO5, PO6,PO7,PO8, PO12,

2022-2023					
S. No	**Industrial visit**	**Date**	**Name of organization**	**Resource person**	**Relevance to POs**
1	Industrial visit	05-12-2022	RRVPNL 132 KV GSS Sitapura, Jaipur (II Year)	Er Suresh Meena (AEn)	PO1, PO2, PO3, PO5, PO6,PO7,PO8, PO12,
2	Industrial Visit	06-12-2022	RRVPNL 132 KV GSS Sitapura, Jaipur (III Year)	Er Suresh Meena (AEn)	PO1, PO2, PO3, PO5, PO6,PO7,PO8, PO12,

2023-2024					
S. No	**Industrial visit**	**Date**	**Name of organization**	**Resource person**	**Relevance to POs**
1	Industrial visit	28-03-2024	Industrial visit to 400kV Heerapura Japiur (II Year)	Er J K Bilkha (AEn)	PO1, PO2, PO3, PO5, PO6,PO7,PO8, PO12
2	Industrial visit	05-04-2024	Industrial visit to 400kV Heerapura Japiur (III Year)	Er J K Bilkha (AEn)	PO1, PO2, PO3, PO5, PO6,PO7,PO8, PO12

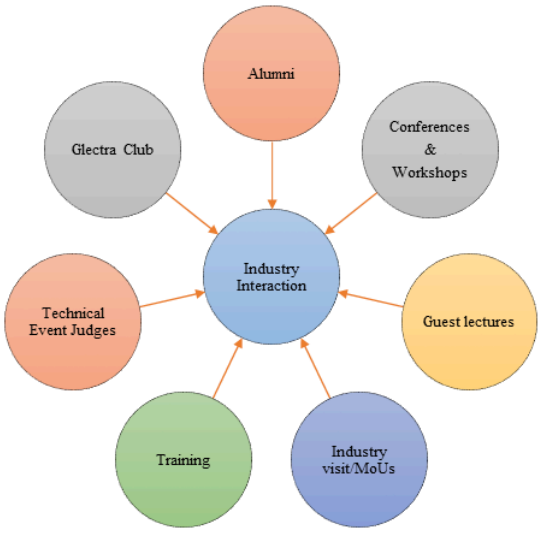


Fig. 2.2.4 Process of industry related initatives

Impact Analysis

- **Skill Development**: Hands-on experience in real-world applications of electrical engineering principles helps students to bridge the gap between theoretical knowledge and practical implementation.
- **Enhanced Employability**: Exposure to modern tools, technologies, and workflows in industry enhances their readiness for jobs.

- **Networking Opportunities**: Students build relationships with industry professionals, opening doors for future opportunities such as full-time jobs or mentorships.
- **Interdisciplinary Learning**: Interaction with diverse teams allows students to understand how electrical engineering integrates with other disciplines (e.g., IoT, AI, and robotics).

2.2.5 Initiative related to industry internship/summer training (15) Institute Marks : 15.00

- Rajasthan Technical University provides minimum of 4 weeks of industrial training after fourth semester and 6 weeks of industrial training after sixth semester in the form of summer internship during its 4 year 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 summer 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 this college (department) letter of summer training.

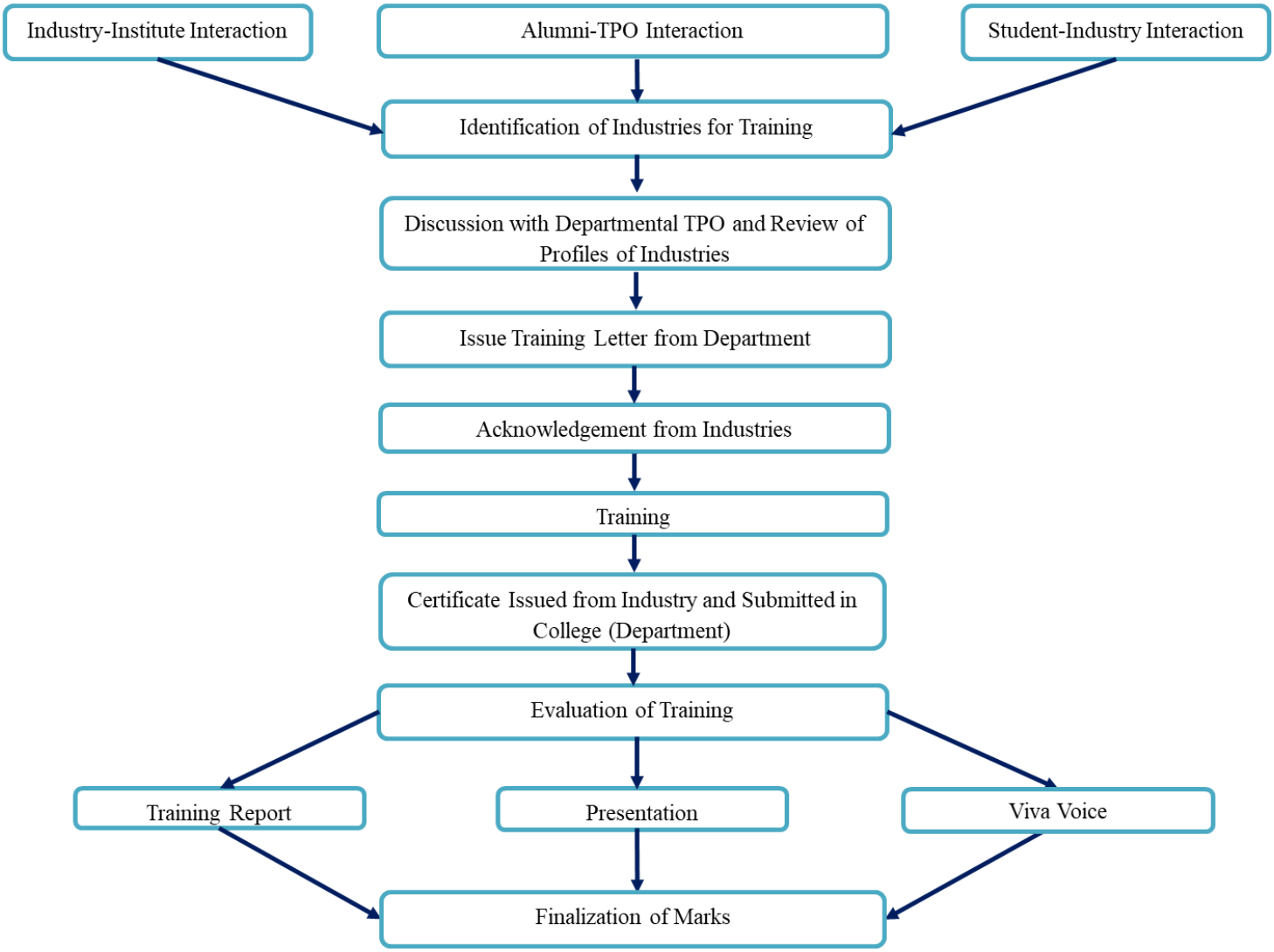


Fig. 2.2.5 Process of conduction and evaluation of summer internships

- Once the company approval comes, then only students are allowed to pursue their training from that company.
- After that, department issue approval letter for summer training.
- After completion of training, company issued a certificate or evaluation letter.
- Students have to submit their Xerox copy of summer training certificate.
- A presentation followed by viva-voce is taken on their summer training in next semester on which they have to submit a report.
- Final evaluation will be done and marks will be given for summer internship programme.

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

A. **Industrial Tour / training for students:**

Department arranged industrial tour for student every year to get the exposure and increase their practical knowledge. Such type of industrial /power plant visits helps them to understand the concepts that they learnt in class room. After such visits they became familiar with industrial culture, safety measures, recent technologies etc. The details of Industrial tour arranged by department in last three years are given below in table 2.2.5 (A).

Table 2.2.5 (A) Industrial Visits conducted in last three years

S. No.	Name of Activity	Title of Activity	Date	Resource Person	Company / Organization	Total no. of Students
1	Industrial visit	Introduction to Skill Development Trainings	20-04-2022	Dr Satyendra Singh & Dr Avani	BSDU Jaipur	22
2	Industrial visit	Introduction to Skill Development Trainings	21-04-2022	Dr Satyendra Singh & Dr Avani	BSDU Jaipur	34

3	Industrial visit	Introduction to Skill Development Trainings	22-04-2022	Dr Satyendra Singh & Dr Avani	BSDU Jaipur	**40**
4	Industrial Visit	132 KV GSS Sitapura Jaipur	05-12-2022	Er. Suresh Meena (Assistant Engineer)	RRVPNL	**35**
5	Industrial Visit	132 KV GSS Sitapura Jaipur	06-12-2022	Er. Suresh Meena (Assistant Engineer)	RRVPNL	**32**
6	Industrial Visit	SARAS DAIRY	11-09-2023	Mr. Ravi Ram, Manager	SARAS DAIRY	30
7	Industrial Visit	400kV GSS Heerapura Japiur	28-03-2024	Er. J.K.Bilkha, (Executive Engineer)	RRVPNL	30
8	Industrial Visit	400kV GSS Heerapura Japiur	05-04-2024	Er. J.K.Bilkha, (Executive Engineer)	RRVPNL	11

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.

A. **Student's Summer trainings/Internship**

The details of the summer trainings and internships for students is mentioned in the table 2.2.5 (B)

Table 2.2.5 (B) 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	79
2.	Mandatory industrial training of 15 Days after first Year	60
3.	Analytical skill enhancement through FACE & WAE academy	66
4.	Industrial visit	71
5.	Add-on courses (Technical Training / workshops) • Fundamental Course on IOT based Smart System • Fundamental Course on Automation • Fundamental course on Embedded System • EV Design using MATLAB Simulation • Fundamental Course on C and C++	176

Impact Analysis of Summer training and internship in industries, power plant or any reputed organizations

· Practical skills of students improved.

· Students become familiar with Industrial culture/ protocols.

· Students learnt the recent technologies used in the industrial practices.

· Knowledge & confidence level of student increased.

· Employability of student increased.

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	Graduates are able to contribute for the development of automation.
PSO2	Graduates are able to contribute towards integration of the green energy.

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 07	Course Year :	2023-2024

Course Name	Statements
C2 07.1	To understand the basic concept of DC machine and transformer.
C2 07.2	Apply and evaluate the performance parameters of DC machine and transformer.
C2 07.3	Analyze the performance characteristics of DC machine and Transformer.

Course Name :	C2 06	Course Year :	2023-2024

Course Name	Statements
C2 06.1	To learn the details of power semiconductor devices.
C2 06.2	To understand the circuit configuration and working of various types of converters.
C2 06.3	To analyze the converters under various types of load conditions.

Course Name :	C3 03	Course Year :	2023-2024

Course Name	Statements
C3 03.1	Understand concepts of the feedback control, stability, mathematical modelling, controllability, observability, continuous and discrete time system.
C3 03.2	Employ time and frequency response analysis to predict and diagnose stability and performance parameters of the system for standard input functions.
C3 03.3	Design and implement P-I-D controllers, lead-lag compensator, feedback controller and state model for a given system of equations. Solve linear, non-linear and optimal complex control problems.

Course Name :	C3 05	Course Year :	2023-2024

Course Name	Statements
C3 05.1	Acquire detailed knowledge on DC and AC drive and their modeling for stead- state and transient analysis.
C3 05.2	Develop capability to choose a suitable motor and Power Electronics Converter from a description of drive requirement.
C3 05.3	Develop design knowledge on how to design the speed control and current control loops of a Electric motor drive.

Course Name :	C4 11	Course Year :	2023-2024

Course Name	Statements
C4 11.1	Define basic properties of different renewable sources of energy and technologies for their utilization.
C4 11.2	Describe main elements of technical systems designed for utilization of renewable sources of energy and explain the correlation between different operational parameters
C4 11.3	Select engineering approach to problem solving when implementing the projects on renewable sources

Course Name :	C4 01	Course Year :	2023-2024

Course Name	Statements
C4 01.1	Understand conceptual knowledge of the technology, economics and regulation related issues associated with energy conservation and energy auditing.
C4 01.2	Acquired the expertise and skills needed for the energy monitoring, auditing and management, and for the development, implementation, maintenance and auditing of Energy Management Systems
C4 01.3	Analyze and design of energy conversion systems and also have acquired skills in the scientific and technological communications, and in the preparation, planning and implementation of energy projects

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 : C207

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	3	3	2	2	1	1	2	2	2	2	2	2
C207.2	3	3	2	2	2	2	2	1	2	2	2	2
C207.3	3	3	2	2	2	2	2	2	2	2	3	2
Average	**3.00**	**3.00**	**2.00**	**2.00**	**1.67**	**1.67**	**2.00**	**1.67**	**2.00**	**2.00**	**2.33**	**2.00**

2 . course name : C206

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	3	2	1	2	1	1	1	1	1	2	1	3
C206.2	3	3	2	2	2	1	1	1	1	2	1	3
C206.3	3	3	3	2	2	1	1	1	1	2	2	3
Average	**3.00**	**2.66**	**2.00**	**2.00**	**1.66**	**1.00**	**1.00**	**1.00**	**1.00**	**2.00**	**1.33**	**3.00**

3 . course name : C303

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	2	3	1	1	2	2	-	-	-	2	3
C303.2	3	1	2	1	2	2	-	-	1	-	1	2
C303.3	3	3	3	1	2	2	1	-	1	-	2	3
Average	**3.00**	**2.00**	**2.67**	**1.00**	**1.67**	**2.00**	**1.50**	**0.00**	**1.00**	**0.00**	**1.67**	**2.67**

4 . course name : C305

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	2	1	1	1	1	1	1	1	3	1	1
C305.2	3	1	2	2	2	2	3	1	2	2	2	1
C305.3	3	2	3	3	3	3	3	2	3	2	3	2
Average	**3.00**	**1.67**	**2.00**	**2.00**	**2.00**	**2.00**	**2.33**	**1.33**	**2.00**	**2.33**	**2.00**	**1.33**

5 . course name : C411

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	2	2	3	1	2	1	1	1	2	2	3
C411.2	3	3	3	3	1	1	1	1	1	2	2	3
C411.3	3	2	3	3	1	2	2	1	1	2	2	3
Average	**3.00**	**2.33**	**2.67**	**3.00**	**1.00**	**1.67**	**1.33**	**1.00**	**1.00**	**2.00**	**2.00**	**3.00**

6 . course name : C401

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	2	2	1	2	2	2	2	2	2	2	3
C401.2	3	2	2	2	2	2	2	2	2	2	2	3
C401.3	3	2	2	2	2	2	2	2	3	2	2	3
Average	**3.00**	**2.00**	**2.00**	**1.67**	**2.00**	**2.00**	**2.00**	**2.00**	**2.33**	**2.00**	**2.00**	**3.00**

1 . Course Name : C207

Course	PSO1	PSO2
C207.1	1	1
C207.2	1	1
C207.3	1	1
Average	**1.00**	**1.00**

2 . Course Name : C206

Course	PSO1	PSO2
C206.1	2	1
C206.2	2	1
C206.3	2	1
Average	**2.00**	**1.00**

3 . Course Name : C303

Course	PSO1	PSO2
C303.1	3	2
C303.2	3	2
C303.3	3	2
Average	**3.00**	**2.00**

4 . Course Name : C305

Course	PSO1	PSO2
C305.1	2	2
C305.2	3	2
C305.3	3	2
Average	**2.67**	**2.00**

5 . Course Name : C411

Course	PSO1	PSO2
C411.1	1	2
C411.2	2	3
C411.3	3	3
Average	**2.00**	**2.67**

6 . Course Name : C401

Course	PSO1	PSO2
C401.1	1	2
C401.2	2	2
C401.3	2	3
Average	**1.67**	**2.33**

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
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
1FY1-04	0	0	1	0	0	2	0	2	2	3	1	2

1FY1-05	0	0	2	0	0	3	2	3	2	1	0	1
1FY3-06	3	2	2	1	1	1	0	0	1	1	0	1
1FY3-07	3	1	2	1	0	1	1	0	1	1	0	1
1FY3-08	3	3	2	2	2	2	3	3	3	2	2	3
1FY3-09	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
3EE2-01	3	1	0	0	0	0	0	0	1	1	0	1
3EE1-02	0	1	0	3	0	2	2	1	1	3	2	1
3EE3-04	3	2	2	2	1	3	2	1	1	3	1	3
3EE4-05	3	3	2	2	2	2	0	0	3	1	0	0
3EE4-06	3	3	2	2	2	2	2	2	1	2	1	2
3EE4-07	3	3	2	2	2	2	2	2	2	2	3	2
3EE4-08	3	3	2	1	0	1	2	1	3	2	2	2
3EE4-21	3	2	3	3	3	2	1	2	2	2	2	3
3EE4-22	3	2	2	2	1	2	0	1	1	0	0	2
3EE4-23	3	2	2	1	3	3	3	1	1	1	1	3
3EE7-30	3	3	2	3	3	2	2	0	1	0	1	1
4EE2-01	3	3	3	3	3	3	3	3	0	2	0	3
4EE1-03	3	3	2	3	3	3	3	3	3	2	3	3
4EE3-04	3	3	3	1	1	2	2	2	1	2	2	3
4EE4-05	3	3	1	2	2	2	2	2	1	2	1	2
4EE4-06	3	3	2	2	2	1	1	1	1	2	2	3
4EE4-07	3	3	3	2	2	2	2	1	1	2	1	3
4EE4-08	3	3	3	2	3	3	3	2	1	2	2	3
4EE4-21	3	3	2	2	2	3	2	3	3	2	3	3
4EE4-22	3	2	2	1	2	2	2	1	2	2	1	2
4EE4-23	3	3	3	3	3	2	2	1	3	2	3	3
4EE4-24	3	3	2	2	3	2	2	1	3	2	2	2
5EE3-01	3	3	1	1	2	2	3	2	1	2	1	2
5EE4-02	3	2	2	3	3	3	3	1	1	2	2	3
5EE4-03	3	2	3	1	2	2	2	0	1	0	2	3
5EE4-04	3	3	3	2	3	2	2	1	3	1	2	2
5EE4-05	3	3	3	3	1	2	2	2	1	2	1	2
5EE5-11	3	3	1	2	2	0	0	0	2	1	0	0
5EE4-21	3	2	2	3	3	1	1	2	1	2	2	3
5EE4-22	3	3	2	2	3	0	1	0	3	2	1	3
5EE4-23	3	3	3	3	3	3	3	3	3	3	3	3
5EE4-24	2	3	3	2	3	1	0	0	1	0	1	2
5EE7-30	3	3	3	3	3	3	2	1	3	2	3	3

6EE3-01	3	3	3	1	0	0	0	0	1	0	1	2
6EE4-02	3	3	2	2	2	2	0	0	2	1	2	3
6EE4-03	3	3	2	2	0	2	0	0	0	0	2	3
6EE4-04	3	3	3	2	3	3	3	3	3	3	3	3
6EE4-05	3	2	2	2	2	2	3	2	2	3	2	2
6EE5-13	3	3	3	2	3	3	3	2	0	2	3	3
6EE4-21	3	3	2	2	3	1	2	1	1	1	1	2
6EE4-22	3	2	2	3	3	1	1	2	1	2	2	3
6EE4-23	3	3	3	1	2	3	1	1	1	1	3	3
6EE4-24	3	3	3	2	3	2	1	0	1	0	1	2
7EE5-11	3	3	3	3	1	2	2	1	1	2	2	3
7CE6-60.'	3	3	2	2	2	3	3	3	3	2	2	3
7EE4-21	2	0	0	3	3	0	0	3	3	2	1	3
7EE4-22	3	2	1	1	3	2	2	2	2	2	2	3
7EE7-30	3	2	2	2	3	3	3	2	1	1	1	2
7EE7-40	2	2	2	2	2	2	1	1	1	3	1	2
8EE4-11	3	3	3	3	0	2	2	1	1	1	1	2
8AG6-60.'	3	2	2	2	2	2	2	2	3	2	2	3
8EE4-21	3	3	3	1	3	2	2	1	1	1	2	3
8EE7-50	3	3	3	3	3	3	3	3	3	3	3	3

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

Course	PSO1	PSO2
1FY1-04	0	0
1FY1-05	0	0
1FY1-22	1	0
1FY1-23	0	0
1FY2-01	1	1
1FY2-02	1	1
1FY2-03	0	1
1FY2-20	0	1
1FY2-21	0	0
1FY3-06	1	0
1FY3-07	1	1
1FY3-08	3	1
1FY3-09	0	1
1FY3-24	1	0
1FY3-25	1	0
1FY3-26	3	1
1FY3-27	0	0
1FY3-28	1	0
1FY3-29	1	0
2FY2-01	1	1
3EE1-02	1	1
3EE2-01	0	0
3EE3-04	1	2
3EE4-05	2	1
3EE4-06	2	2
3EE4-07	1	1
3EE4-08	2	1

3EE4-21	3	3
3EE4-22	1	1
3EE4-23	2	1
3EE7-30	1	1
4EE1-03	1	1
4EE2-01	1	1
4EE3-04	2	3
4EE4-05	3	1
4EE4-06	2	1
4EE4-07	2	1
4EE4-08	3	3
4EE4-21	2	3
4EE4-22	2	1
4EE4-23	3	1
4EE4-24	3	3
5EE3-01	1	2
5EE4-02	2	2
5EE4-03	3	2
5EE4-04	3	3
5EE4-05	1	1
5EE4-21	1	2
5EE4-22	3	3
5EE4-23	3	3
5EE4-24	3	3
5EE5-11	3	3
5EE7-30	3	1
6EE3-01	2	2
6EE4-02	1	2
6EE4-03	1	1
6EE4-04	1	3
6EE4-05	3	2
6EE4-21	3	1
6EE4-22	2	1
6EE4-23	2	3
6EE4-24	3	1
6EE5-13	2	2
7CE6-60.′	1	3
7EE4-21	3	1
7EE4-22	3	2
7EE5-11	2	3
7EE7-30	2	2
7EE7-40	2	2
8AG6-60.′	2	3
8EE4-11	2	1
8EE4-21	3	3
8EE7-50	3	3

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

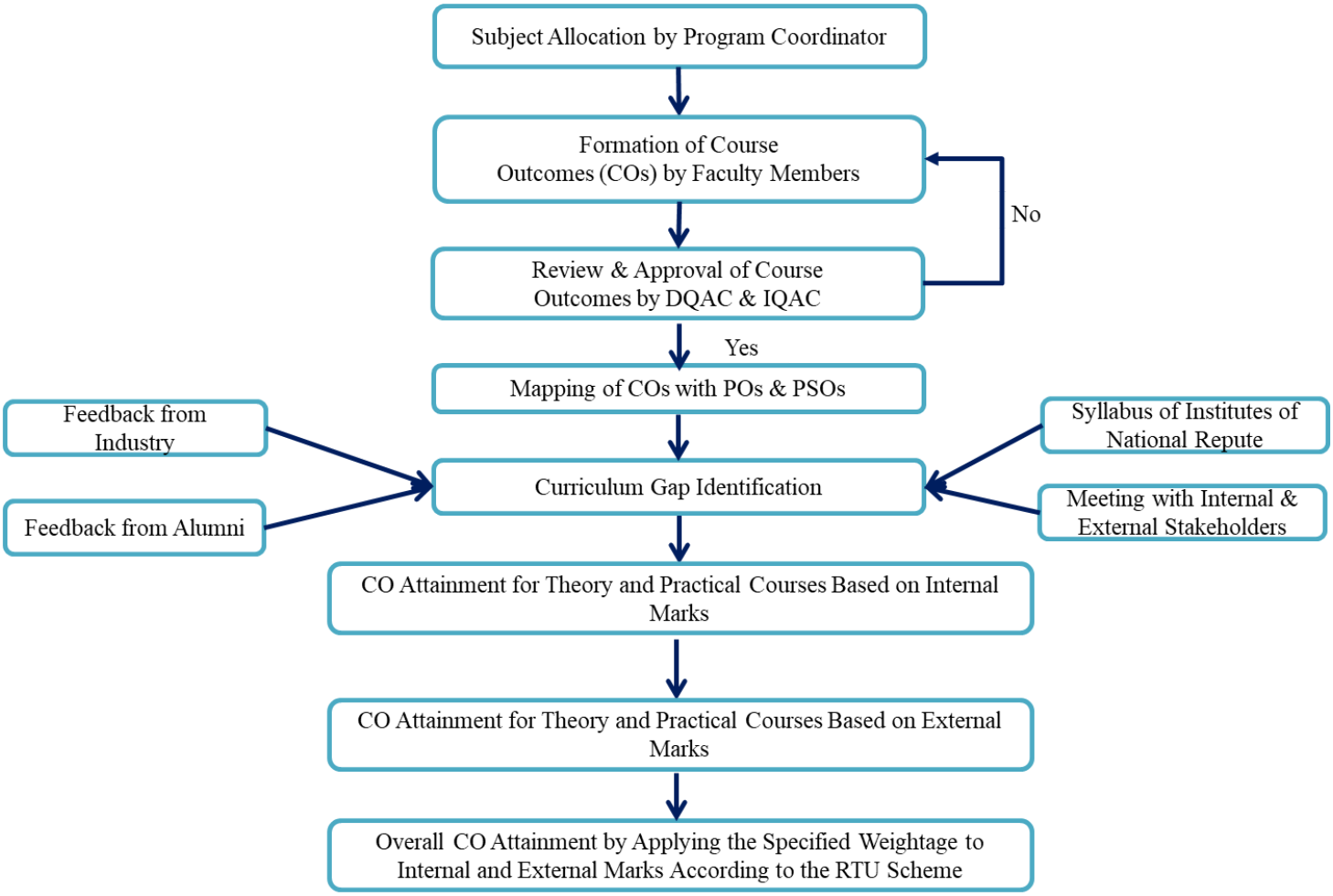


Figure3.2.1.1 Methodology for Direct Attainment of Course outcomes

Process for Collecting Data to Evaluate Course Outcomes in Theory Courses

- **Internal and External Exams**
  - *Internal Exams*: Attainment level of each Course Outcome (CO) is determined from each question in 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. 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

- **Internal Assessment Tools**
  - Mid-Term Examinations (two exams): 70%
  - Assignments: 30%

Internal CO Attainment for Theory Courses

- The threshold for the course is defined as the minimum percentage of marks that students must achieve. The department setting the threshold at 60% for calculating attainment levels.
- 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.

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 and CO3 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: 80% for the external examination and 20% for the internal examination. However, under the new RTU guidelines starting from the 2022-23 session, this has been revised to 70% for the university examination and 30% for the midterm and 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 = External examination attainment

y = Internal examination attainment

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

Internal CO Attainment for Practical Courses

- The threshold for the course is defined as the minimum percentage of marks that students must achieve. The department setting the threshold at 60% for calculating attainment levels.
- 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.

External Examination Components (40%)

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

External CO Attainment for Practical Courses

- The threshold for the course is defined as the minimum percentage of marks that students must achieve. The department setting the threshold at 60% for calculating attainment levels.
- 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.

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) Institute Marks : 40.00

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)	2023-24 Final Attainment (0.3*X+0.7*Y)
3EE2-01	CO-1	50.00	12.94	24.06	6.70	8.16	7.72	48.25	38.70	41.57
	CO-2	48.80	12.94	23.70	13.50	8.16	9.76	41.75	38.70	39.62
	CO-3	62.20	12.94	27.72	13.50	8.16	9.76	39.72	38.70	39.01
	CO-4	50.00	12.94	24.06	10.10	8.16	8.74	42.75	38.70	39.92
3EE1-02	CO-1	25.58	40.00	35.67	20.74	63.26	50.50	95.16	74.20	80.49
	CO-2	10.47	40.00	31.14	15.00	63.26	48.78	80.64	74.20	76.13
	CO-3	33.72	40.00	38.12	23.00	63.26	51.18	72.58	74.20	73.71
3EE3-04	CO-1	44.89	55.29	52.17	55.31	63.26	60.88	58.06	80.60	73.84
	CO-2	53.24	55.29	54.68	51.06	63.26	59.60	25.80	80.60	64.16
	CO-3	46.87	55.29	52.76	38.29	63.26	55.77	29.03	80.60	65.13
3EE4-05	CO-1	33.33	40.00	38.00	89.65	73.46	78.32	62.20	23.00	34.76
	CO-2	12.22	40.00	31.67	100.00	73.46	81.42	74.20	23.00	38.36
	CO-3	40.00	40.00	40.00	100.00	73.46	81.42	58.06	23.00	33.52
3EE4-06	CO-1	12.21	32.94	26.72	16.14	32.65	27.70	54.00	48.00	49.80
	CO-2	30.81	32.94	32.30	29.95	32.65	31.84	51.60	48.00	49.08
	CO-3	37.79	32.94	34.40	15.00	32.65	27.36	48.38	48.00	48.11
3EE4-07	CO-1	86.59	50.60	61.40	48.95	44.89	46.11	54.83	29.00	36.75
	CO-2	87.62	50.60	61.71	46.87	44.89	45.48	48.38	29.00	34.81
	CO-3	64.94	50.60	54.90	38.54	44.89	42.99	51.61	29.00	35.78
3EE4-08	CO-1	20.93	28.24	26.05	43.58	30.61	34.50	74.19	38.70	49.35
	CO-2	28.48	28.24	28.31	48.28	30.61	35.91	70.96	38.70	48.38
	CO-3	32.55	28.24	29.53	42.22	30.61	34.09	58.06	38.70	44.51

Course Code	COs	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)	Final Attainment (0.6*X+0.4*Y)
3EE4-21	CO-1	97.67	96.47	97.19	62.65	86.73	72.28	96.77	96.77	96.77
	CO-2	97.67	96.47	97.19	62.65	86.73	72.28	96.77	96.77	96.77
	CO-3	97.67	96.47	97.19	62.65	86.73	72.28	96.77	96.77	96.77
	CO4	97.67	96.47	97.19	62.65	86.73	72.28	96.77	96.77	96.77
3EE4-22	CO-1	97.67	97.65	97.66	83.12	88.08	85.10	96.77	96.77	96.77
	CO-2	97.67	97.65	97.66	83.12	88.08	85.10	96.77	96.77	96.77
	CO-3	97.67	97.65	97.66	83.12	88.08	85.10	96.77	96.77	96.77
3EE4-23	CO-1	97.67	91.76	95.31	75.32	77.38	76.14	96.77	96.77	96.77
	CO-2	97.67	91.76	95.31	75.32	77.38	76.14	96.77	96.77	96.77
	CO-3	97.67	91.76	95.31	75.32	77.38	76.14	96.77	96.77	96.77
3EE7-30	CO-1	97.67	96.47	97.19	100.00	69.00	87.60	90.32	93.55	91.61
	CO-2	97.67	96.47	97.19	79.16	69.00	75.10	90.32	93.55	91.61

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)	Final Attainment (0.3*X+0.7*Y)
4EE2-01	CO-1	14.10	41.86	33.53	42.99	66.67	59.56	74.19	58.06	62.90
	CO-2	12.82	41.86	33.15	35.71	66.67	57.38	80.64	58.06	64.83
	CO-3	10.90	41.86	32.57	32.14	66.67	56.31	64.51	58.06	60.00
4EE1-03	CO-1	67.18	56.98	60.04	81.91	56.25	63.95	96.77	64.52	74.20
	CO-2	50.67	56.98	55.09	76.73	56.25	62.39	80.64	64.52	69.36
	CO-3	56.56	56.98	56.85	86.05	56.25	65.19	77.41	64.52	68.39
	CO-4	43.91	56.98	53.06	86.05	56.25	65.19	79.32	64.52	68.96
4EE3-04	CO-1	51.10	24.42	32.42	37.23	31.25	33.04	51.61	67.74	62.90
	CO-2	53.30	24.42	33.08	43.62	31.25	34.96	62.90	67.74	66.29
	CO-3	58.89	24.42	34.76	44.57	31.25	35.25	50.00	67.74	62.42
4EE4-05	CO-1	26.16	18.60	20.87	39.16	79.17	67.16	54.83	45.20	48.09
	CO-2	6.39	18.60	14.94	19.03	79.17	61.13	51.61	45.20	47.12
	CO-3	16.86	18.60	18.08	15.43	79.17	60.05	48.38	45.20	46.15
4EE4-06	CO-1	33.05	27.91	29.45	77.35	70.83	72.79	53.33	51.60	52.12
	CO-2	37.22	27.91	30.70	41.50	70.83	62.03	36.66	51.60	47.12
	CO-3	25.32	27.91	27.13	75.47	70.83	72.22	43.33	51.60	49.12
4EE4-07	CO-1	21.97	18.60	19.61	73.13	20.83	36.52	56.45	35.50	41.79
	CO-2	11.65	18.60	16.52	79.10	20.83	38.31	58.06	35.50	42.27
	CO-3	12.76	18.60	16.85	74.62	20.83	36.97	33.87	35.50	35.01
4EE4-08	CO-1	27.20	31.40	30.14	40.33	41.67	41.27	32.28	38.71	36.78
	CO-2	30.20	31.40	31.04	31.66	41.67	38.66	22.72	38.71	33.91
	CO-3	21.57	31.40	28.45	22.50	41.67	35.92	18.32	38.71	32.59

Course Code	COs	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)	Final Attainment (0.6*X+0.4*Y)
4EE4-21	CO-1	98.85	98.84	98.85	73.85	83.78	77.83	96.77	96.77	96.77
	CO-2	98.85	98.84	98.85	73.85	83.78	77.83	96.77	96.77	96.77
	CO-3	98.85	98.84	98.85	73.85	83.78	77.83	96.77	96.77	96.77
4EE4-22	CO-1	98.85	95.35	97.45	74.48	85.97	79.08	96.77	96.77	96.77
	CO-2	98.85	95.35	97.45	74.48	85.97	79.08	96.77	96.77	96.77
	CO-3	98.85	95.35	97.45	74.48	85.97	79.08	96.77	96.77	96.77

4EE4-23	CO-1	98.85	98.84	98.85	85.57	89.58	87.18	96.77	96.77	96.77
	CO-2	98.85	98.84	98.85	85.57	89.58	87.18	96.77	96.77	96.77
	CO-3	98.85	98.84	98.85	85.57	89.58	87.18	96.77	96.77	96.77
	CO-4	98.85	98.84	98.85	85.57	89.58	87.18	97.77	97.77	97.77
4EE4-24	CO-1	98.85	100.00	99.31	82.19	87.57	84.34	96.77	96.77	96.77
	CO-2	98.85	100.00	99.31	82.19	87.57	84.34	96.77	96.77	96.77
	CO-3	98.85	100.00	99.31	82.19	87.57	84.34	96.77	96.77	96.77

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)	Final Attainment (0.3*X+0.7*Y)
5EE3-01	CO-1	47.05	21.57	26.67	45.63	70.93	63.34	68.63	50.00	55.59
	CO-2	39.21	21.57	25.10	49.50	70.93	64.50	64.71	50.00	54.41
	CO-3	29.41	21.57	23.14	57.29	70.93	66.84	66.67	50.00	55.00
5EE4-02	CO-1	55.57	44.12	46.41	44.38	74.41	65.40	69.96	79.20	76.43
	CO-2	42.59	44.12	43.81	33.10	74.41	62.02	66.66	79.20	75.44
	CO-3	70.48	44.12	49.39	62.76	74.41	70.92	63.36	79.20	74.45
5EE4-03	CO-1	38.02	16.67	20.94	69.76	62.79	64.88	66.67	97.90	88.53
	CO-2	20.40	16.67	17.42	56.97	62.79	61.04	60.41	97.90	86.65
	CO-3	38.25	16.67	20.99	55.81	62.79	60.70	64.58	97.90	87.90
5EE4-04	CO-1	30.00	19.61	21.69	77.78	63.95	68.10	76.47	72.90	73.97
	CO-2	36.80	19.61	23.05	84.44	63.95	70.10	78.43	72.90	74.56
	CO-3	27.70	19.61	21.23	85.56	63.95	70.43	75.49	72.90	73.68
5EE4-05	CO-1	39.40	17.65	22.00	24.39	55.81	46.38	66.66	70.80	69.56
	CO-2	46.92	17.65	23.50	24.39	55.81	46.38	60.41	70.80	67.68
	CO-3	43.04	17.65	22.73	24.39	55.81	46.38	64.58	70.80	68.93
5EE5-11	CO-1	30.00	35.29	34.23	56.70	58.13	57.70	57.88	43.80	48.02
	CO-2	32.50	35.29	34.73	47.73	58.13	55.01	29.90	43.80	39.63
	CO-3	27.50	35.29	33.73	43.20	58.13	53.65	19.11	43.80	36.39

Course Code	COs	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)	Final Attainment (0.6*X+0.4*Y)
5EE4-21	CO-1	100.00	100.00	100.00	80.08	85.95	82.43	97.91	97.91	97.91
	CO-2	100.00	100.00	100.00	80.08	85.95	82.43	97.91	97.91	97.91
5EE4-22	CO-1	100.00	100.00	100.00	71.65	81.60	75.63	97.91	97.91	97.91
	CO-2	100.00	100.00	100.00	71.65	81.60	75.63	97.91	97.91	97.91
	CO-3	100.00	100.00	100.00	71.65	81.60	75.63	97.91	97.91	97.91
5EE4-23	CO-1	100.00	95.10	98.04	85.80	80.20	83.56	94.11	97.91	95.63
	CO-2	100.00	95.10	98.04	85.80	80.20	83.56	94.11	97.91	95.63
	CO-3	100.00	95.10	98.04	85.80	80.20	83.56	94.11	97.91	95.63
5EE4-24	CO-1	100.00	88.24	95.30	69.85	74.45	71.69	95.83	97.91	96.66
	CO-2	100.00	88.24	95.30	98.00	74.45	88.58	95.83	97.91	96.66
	CO-3	100.00	88.24	95.30	98.00	74.45	88.58	95.83	97.91	96.66
5EE7-30	CO-1	100.00	100.00	100.00	91.80	87.41	90.04	97.91	97.91	97.91
	CO-2	100.00	100.00	100.00	91.80	87.41	90.04	97.91	97.91	97.91
	CO-3	100.00	100.00	100.00	91.80	87.41	90.04	97.91	97.91	97.91

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)	Final Attainment (0.3*X+0.7*Y)
6EE3-01	CO-1	27.48	27.45	27.46	94.77	82.55	86.22	74.50	83.33	80.68
	CO-2	29.57	27.45	27.87	83.72	82.55	82.90	76.47	83.33	81.27
	CO-3	33.12	27.45	28.58	86.63	82.55	83.77	82.35	83.33	83.04
6EE4-02	CO-1	16.67	23.52	22.15	52.00	73.25	66.88	52.08	31.25	37.50
	CO-2	6.86	23.52	20.19	42.94	73.25	64.16	45.83	31.25	35.62
	CO-3	7.84	23.52	20.38	43.49	73.25	64.32	47.91	31.25	36.25
6EE4-03	CO-1	26.40	30.39	29.59	22.86	46.51	39.42	43.55	72.91	64.10
	CO-2	21.65	30.39	28.64	18.52	46.51	38.11	53.23	72.91	67.00
	CO-3	18.95	30.39	28.10	26.13	46.51	40.40	27.42	72.91	59.26
6EE4-04	CO-1	0.98	14.71	11.96	38.10	55.81	50.50	38.70	79.16	67.02
	CO-2	0.59	14.71	11.89	35.05	55.81	49.58	32.58	79.16	65.19
	CO-3	0.20	14.71	11.81	32.31	55.81	48.76	21.23	79.16	61.78
6EE4-05	CO-1	37.78	12.75	17.76	42.26	60.46	55.00	52.08	64.58	60.83
	CO-2	38.12	12.75	17.82	38.04	60.46	53.73	47.91	64.58	59.58
	CO-3	40.00	12.75	18.20	38.95	60.46	54.01	43.75	64.58	58.33
6EE5-13	CO-1	36.71	40.20	39.50	44.86	98.83	82.64	70.59	58.33	62.01
	CO-2	43.22	40.20	40.80	42.77	98.83	82.01	66.67	58.33	60.83
	CO-3	46.47	40.20	41.45	36.46	98.83	80.12	68.63	58.33	61.42

Course Code	COs	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)	Final Attainment (0.6*X+0.4*Y)
6EE4-21	CO-1	96.08	95.10	95.69	72.52	81.26	76.02	97.91	97.91	97.91
	CO-2	96.08	95.10	95.69	72.52	81.26	76.02	97.91	97.91	97.91
	CO-3	96.08	95.10	95.69	72.52	81.26	76.02	97.91	97.91	97.91
6EE4-22	CO-1	100.00	97.06	98.82	74.22	80.40	76.69	97.91	97.91	97.91
	CO-2	100.00	97.06	98.82	74.22	80.40	76.69	97.91	97.91	97.91
	CO-3	100.00	97.06	98.82	74.22	80.40	76.69	97.91	97.91	97.91
6EE4-23	CO-1	96.08	100.00	97.65	81.42	83.38	82.20	97.91	97.91	97.91
	CO-2	96.08	100.00	97.65	81.42	83.38	82.20	97.91	97.91	97.91

6EE4-24	CO-1	96.08	89.22	93.34	82.07	88.65	84.70	97.91	97.91	97.91
	CO-2	96.08	89.22	93.34	82.07	88.65	84.70	97.91	97.91	97.91
	CO-3	96.08	89.22	93.34	82.07	88.65	84.70	97.91	97.91	97.91

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)	Final Attainment (0.3*X+0.7*Y)
7EE5-11	CO-1	31.58	16.84	19.79	56.20	72.00	68.84	65.11	95.30	86.24
	CO-2	9.47	16.84	15.37	40.73	72.00	65.75	56.97	95.30	83.80
	CO-3	13.68	16.84	16.21	47.55	72.00	67.11	63.95	95.30	85.90
7CE6-60.1	CO-1	41.05	50.53	48.63	34.60	99.00	86.12	67.44	96.50	87.78
	CO-2	23.11	50.53	45.05	30.21	99.00	85.24	63.95	96.50	86.74
	CO-3	12.10	50.53	42.84	17.91	99.00	82.78	58.13	96.50	84.99

Course Code	COs	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)	Final Attainment (0.6*X+0.4*Y)
7EE4-21	CO-1	98.95	98.95	98.95	79.97	86.15	82.44	98.83	100.00	99.30
	CO-2	98.95	98.95	98.95	79.97	86.15	82.44	98.83	100.00	99.30
	CO-3	98.95	98.95	98.95	79.97	86.15	82.44	98.83	100.00	99.30
	CO-4	98.95	98.95	98.95	79.97	86.15	82.44	98.83	100.00	99.30
7EE4-22	CO-1	100.00	98.95	99.58	86.65	91.31	88.51	100.00	100.00	100.00
	CO-2	100.00	98.95	99.58	86.65	91.31	88.51	100.00	100.00	100.00
	CO-3	100.00	98.95	99.58	86.65	91.31	88.51	100.00	100.00	100.00
7EE7-30	CO-1	100.00	98.95	99.58	83.85	78.04	81.53	100.00	100.00	100.00
	CO-2	100.00	98.95	99.58	83.85	78.04	81.53	100.00	100.00	100.00
	CO-3	100.00	98.95	99.58	83.85	78.04	81.53	100.00	100.00	100.00
7EE7-40	CO-1	98.95	98.95	98.95	83.75	86.88	85.00	100.00	100.00	100.00
	CO-2	98.95	98.95	98.95	83.75	86.88	85.00	100.00	100.00	100.00
	CO-3	98.95	98.95	98.95	83.75	86.88	85.00	100.00	100.00	100.00

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)	Final Attainment (0.3*X+0.7*Y)
8EE4-11	CO-1	53.68	12.63	20.84	49.29	45.09	45.93	32.56	88.37	71.63
	CO-2	5.26	12.63	11.16	43.45	45.09	44.76	39.53	88.37	73.72
	CO-3	12.63	12.63	12.63	48.10	45.09	45.69	48.84	88.37	76.51
	CO-4	31.58	12.63	16.42	47.01	45.09	45.47	39.53	88.37	73.72
8AG6-60.1	CO-1	14.73	56.84	48.42	47.89	53.92	52.71	50.00	87.21	76.05
	CO-2	12.63	56.84	48.00	23.57	53.92	47.85	79.07	87.21	84.77
	CO-3	5.57	56.84	46.59	23.43	53.92	47.82	84.88	87.21	86.51

Course Code	COs	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)	Final Attainment (0.6*X+0.4*Y)
8EE4-21	CO-1	100.00	98.95	99.58	76.47	89.45	81.66	100.00	100.00	100.00
	CO-2	100.00	98.95	99.58	76.47	89.45	81.66	100.00	100.00	100.00
8EE7-50	CO-1	99.00	98.95	98.98	85.00	84.66	84.86	100.00	100.00	100.00
	CO-2	99.00	98.95	98.98	85.00	84.66	84.86	100.00	100.00	100.00
	CO-3	99.00	98.95	98.98	85.00	84.66	84.86	100.00	100.00	100.00

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 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.

DQAC 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

INDIRECT ATTAINMENT (POs/PSOs)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and Electrical Engineering specialization to the solution of complex electrical engineering problems.

	Parameters	Target	Attainment	Rubrics
	Placement	3	2.9	≥70% students placed then Target achieved Else = Pro rata
INDIRECT				
	Co-curricular activities	2	1.18	≥70% students participated then Target achieved Else = Pro rata
	Course Exit survey	3	1.38	Pro rata
	Student/Program Exit survey	3	2.82	Pro rata
	Alumni survey	2	1.82	Pro rata
		2.6	2.02	

PSO1: Graduates are able to contribute for the development of automation.

	Parameters	**Target**	**Attainment**	**Rubrics**
	Placement	2	1.92	≥70% students placed then Target achieved
INDIRECT	Co-curricular activities	1	0.61	≥70% students participated then Target achieved
	Course Exit survey	1	0.46	Pro rata
	Student/Program Exit survey	2	1.84	Pro rata
	Alumni survey	2	1.78	Pro rata
		1.6	1.32	

Note: All other POs calculation is same with different weightages

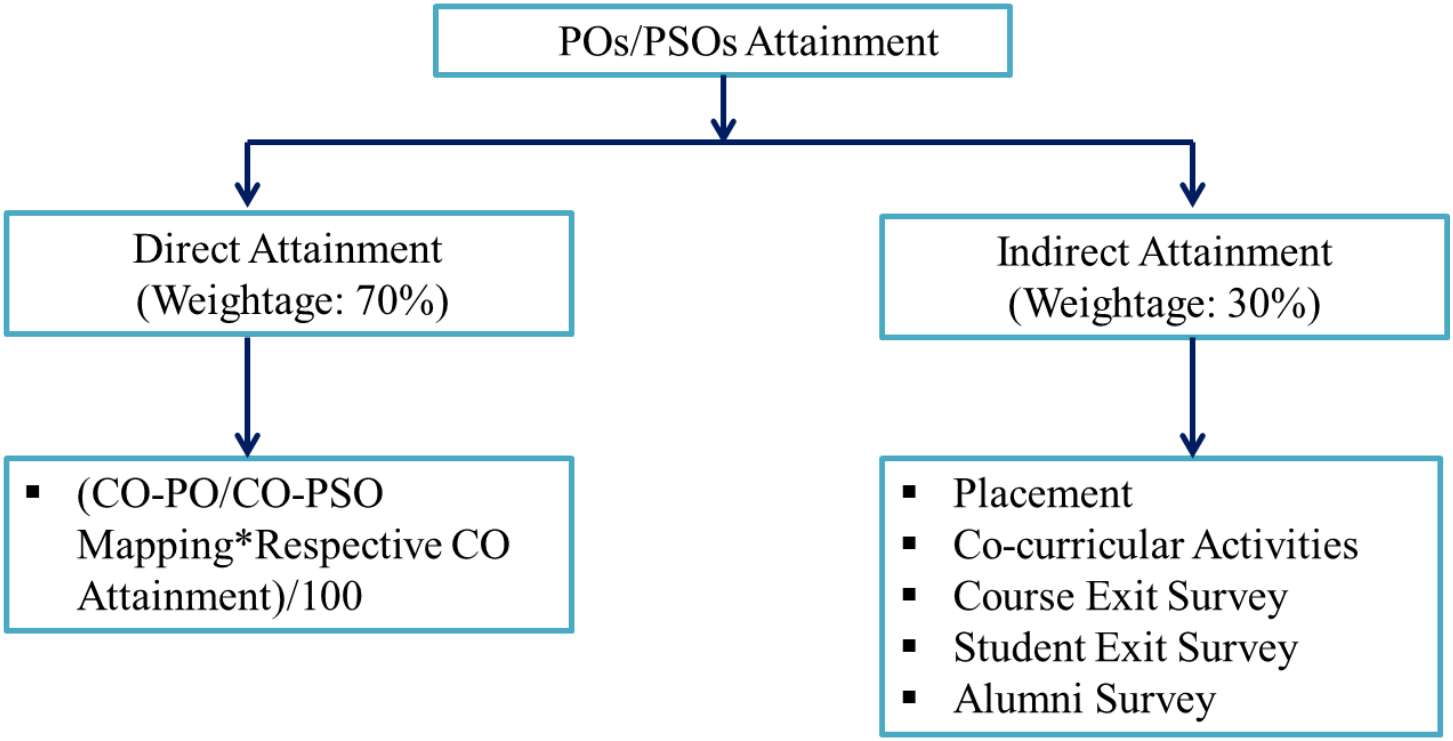


Fig. 3.3.1.1 PO/PSO Assessment Tool

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
3EE2-01	1.20	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.40	0.0	0.40
3EE1-02	0.0	0.77	0.0	2.05	0.0	1.54	1.02	0.77	0.77	2.30	1.54	0.77
3EE3-04	2.03	1.35	1.13	0.90	0.66	1.58	1.13	0.66	0.66	1.58	0.66	1.58
3EE4-05	0.95	0.83	0.47	0.59	0.47	0.47	0.0	0.0	0.83	0.36	0.0	0.0
3EE4-06	1.47	1.14	0.82	0.98	0.82	0.98	0.82	0.98	0.49	0.98	0.49	0.98
3EE4-07	1.07	1.07	0.72	0.72	0.60	0.60	0.72	0.60	0.72	0.72	0.83	0.72
3EE4-08	1.42	1.11	0.79	0.47	0.0	0.47	0.95	0.47	1.42	0.95	0.95	0.79
3EE4-21	2.66	1.94	2.99	2.18	2.66	1.94	0.97	1.94	1.21	1.94	1.45	2.90
3EE4-22	2.58	1.94	1.94	1.61	0.97	1.29	0.0	0.97	0.97	0.0	0.0	1.29
3EE4-23	2.90	1.94	1.61	0.97	2.26	2.58	2.26	0.97	0.97	0.97	0.97	2.90
3EE7-30	2.75	2.29	1.37	2.75	2.29	1.37	1.83	0.0	0.92	0.0	0.92	0.92
4EE2-01	1.88	1.88	1.56	1.88	1.88	1.88	1.56	1.88	0.0	1.25	0.0	1.88
4EE1-03	1.76	2.11	1.40	1.58	1.58	1.93	1.58	1.93	1.76	1.40	2.11	1.76
4EE3-04	1.92	1.49	1.70	0.64	0.64	1.28	1.06	1.28	0.64	1.28	1.28	1.92
4EE4-05	1.41	1.41	0.47	0.94	0.79	0.94	0.79	0.94	0.47	0.94	0.47	0.94
4EE4-06	1.48	1.32	0.99	0.99	0.82	0.49	0.49	0.49	0.49	0.99	0.66	1.48
4EE4-07	1.06	1.19	1.19	0.79	0.79	0.79	0.79	0.40	0.40	0.79	0.40	1.19
4EE4-08	1.03	0.92	0.80	0.69	0.86	0.92	1.03	0.52	0.34	0.52	0.69	1.03
4EE4-21	2.58	2.58	1.94	1.94	1.94	2.26	1.61	2.26	2.26	1.94	2.26	2.90
4EE4-22	2.90	1.94	1.94	0.97	1.94	1.94	1.94	0.97	1.94	1.94	0.97	1.94
4EE4-23	2.91	2.67	2.67	2.91	2.91	1.21	1.70	0.97	2.91	1.94	2.91	2.91
4EE4-24	2.90	2.26	1.61	1.29	2.58	1.29	1.29	0.97	2.26	1.61	1.94	1.61
5EE3-01	1.65	1.65	0.55	0.55	0.73	1.10	1.65	1.10	0.55	1.10	0.55	1.10
5EE4-02	2.26	1.51	1.51	1.76	1.76	1.76	1.76	0.75	0.75	1.51	1.51	2.26
5EE4-03	2.63	1.75	2.34	0.88	1.46	1.75	1.32	0.0	0.88	0.0	1.46	2.34

5EE4-04	1.73	2.22	2.22	1.48	2.22	1.48	1.48	0.74	1.73	0.74	1.48	1.48
5EE4-05	2.06	2.06	2.06	1.83	0.69	1.37	1.37	1.37	0.69	1.37	0.69	1.37
5EE5-11	1.10	0.96	0.41	0.55	0.55	0.0	0.0	0.0	0.83	0.41	0.0	0.0
5EE4-21	2.94	1.96	1.96	2.45	2.94	0.98	0.98	1.47	0.98	1.47	1.47	2.94
5EE4-22	2.94	2.28	1.96	1.63	2.61	0.0	0.98	0.0	2.28	1.31	0.98	2.28
5EE4-23	2.23	2.55	2.23	2.55	2.23	2.23	2.23	2.55	2.23	2.55	2.23	2.87
5EE4-24	1.93	2.90	2.90	1.93	2.90	0.97	0.0	0.0	0.97	0.0	0.97	1.93
5EE7-30	2.94	2.94	2.94	2.28	2.61	2.28	1.63	0.98	2.94	1.96	2.94	2.94
6EE3-01	2.45	1.84	1.84	0.82	0.0	0.0	0.0	0.0	0.82	0.0	0.82	1.63
6EE4-02	1.09	0.97	0.73	0.73	0.49	0.55	0.0	0.0	0.73	0.36	0.49	1.09
6EE4-03	1.90	1.49	1.27	1.27	0.0	1.06	0.0	0.0	0.0	0.0	1.06	1.90
6EE4-04	1.94	1.72	1.72	1.29	1.51	1.94	1.94	1.72	1.94	1.51	1.51	1.94
6EE4-05	1.79	0.99	1.19	1.19	1.19	1.19	1.39	0.79	1.19	1.39	1.19	0.79
6EE5-13	1.84	1.84	1.84	1.23	1.54	1.64	1.84	0.92	0.0	1.23	1.84	1.84
6EE4-21	2.94	2.94	1.63	1.63	2.94	0.98	1.96	0.98	0.98	0.98	0.98	1.96
6EE4-22	2.94	1.96	1.96	2.61	2.94	0.98	0.98	1.63	0.98	1.31	1.31	2.94
6EE4-23	2.94	2.94	2.45	0.98	1.96	2.94	0.98	0.98	0.98	0.98	2.94	2.94
6EE4-24	2.94	2.94	2.94	1.63	2.94	1.96	0.98	0.0	0.98	0.0	0.98	1.31
7EE5-11	2.56	1.99	2.28	2.56	0.85	1.42	1.14	0.85	0.85	1.71	1.71	2.56
7CE6-60.1	2.60	2.02	1.73	1.44	1.73	2.60	2.60	2.60	2.02	1.73	1.73	2.60
7EE4-21	1.99	0.0	0.0	2.48	2.98	0.0	0.0	2.98	2.98	1.99	0.99	2.98
7EE4-22	3.0	1.67	1.0	1.0	3.0	1.33	1.33	1.33	1.33	1.33	2.0	3.0
7EE7-30	2.67	2.0	1.67	1.67	2.33	2.67	2.33	1.33	1.0	1.0	1.0	2.0
7EE7-40	2.0	2.0	1.67	1.67	1.67	1.33	1.0	1.0	1.0	2.67	1.0	1.67
8EE4-11	2.22	2.22	2.22	1.85	0.0	1.11	1.48	0.74	0.74	0.74	0.74	1.48
8AG6-60.1	2.47	1.65	1.65	1.37	1.65	1.65	1.65	1.65	1.92	1.65	1.65	2.44
8EE4-21	3.0	3.0	3.0	1.0	3.0	1.5	2.0	1.0	1.0	1.0	2.0	3.0
8EE7-50	2.33	2.67	2.33	2.33	2.33	2.33	2.33	2.67	2.33	2.67	2.33	3.0
PO Attainment	2.11	1.85	1.63	1.51	1.57	1.32	1.16	1.04	1.32	1.37	1.21	1.81

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.13	1.81	1.59	1.44	1.57	1.34	1.19	0.98	1.16	1.16	1.21	1.84
InDirect Attainment	2.02	2.01	1.77	1.80	1.57	1.26	1.06	1.26	1.95	2.19	1.21	1.67

PSO Attainment

Course	PSO1	PSO2
3EE1-02	0.0	0.0
3EE2-01	0.0	0.0
3EE3-04	0.68	1.13
3EE4-05	0.47	0.36
3EE4-06	0.82	0.98
3EE4-07	0.36	0.36
3EE4-08	0.95	0.47
3EE4-21	2.66	2.42
3EE4-22	0.97	0.97
3EE4-23	1.94	0.97
3EE7-30	0.92	0.92
4EE1-03	0.70	0.70
4EE2-01	0.63	0.63
4EE3-04	1.28	1.49
4EE4-05	1.10	0.47
4EE4-06	0.99	0.49

4EE4-07	0.79	0.40
4EE4-08	0.92	0.92
4EE4-21	1.94	2.26
4EE4-22	1.94	0.97
4EE4-23	2.43	0.97
4EE4-24	2.26	2.26
5EE3-01	0.55	1.10
5EE4-02	1.01	1.01
5EE4-03	2.63	1.75
5EE4-04	1.98	1.98
5EE4-05	0.69	0.69
5EE4-21	0.98	1.47
5EE4-22	2.61	2.61
5EE4-23	2.87	2.87
5EE4-24	2.26	2.26
5EE5-11	0.96	0.96
5EE7-30	2.94	0.98
6EE3-01	1.63	1.02
6EE4-02	0.36	0.73
6EE4-03	0.63	0.63
6EE4-04	0.65	1.51
6EE4-05	1.59	1.19
6EE4-21	2.61	0.98
6EE4-22	1.96	0.98
6EE4-23	1.96	2.45
6EE4-24	2.94	0.98
6EE5-13	0.82	0.82
7CE6-60.1	0.87	2.02
7EE4-21	2.98	0.99
7EE4-22	2.67	1.33
7EE5-11	1.71	2.28
7EE7-30	2.0	2.0
7EE7-40	2.0	2.0
8AG6-60.1	1.37	1.92
8EE4-11	1.29	0.74
8EE4-21	2.50	2.50
8EE7-50	3	3
PSO Attainment	1.47	1.29

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.51	1.28
InDirect Attainment	1.32	1.32

4 STUDENTS' PERFORMANCE (150) Total Marks 111.98

:

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	60	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)	49	28	41	82	97	90	126
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	2	3	7	4	5	5	3
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	51	31	48	86	102	95	129

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)	51	0	0	0	0
2022-23 (CAYm1)	31	14	0	0	0
2021-22 (CAYm2)	48	21	23	0	0
2020-21 (CAYm3)	86	82	54	50	0
2019-20 (LYG)	102	31	31	25	25
2018-19 (LYGm1)	95	29	25	24	24
2017-18 (LYGm2)	129	87	61	56	56

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)	51	0	0	0	0
2022-23 (CAYm1)	31	28	0	0	0
2021-22 (CAYm2)	48	41	31	0	0
2020-21 (CAYm3)	86	82	76	76	0
2019-20 (LYG)	102	86	80	72	72
2018-19 (LYGm1)	95	90	87	83	83
2017-18 (LYGm2)	129	121	115	110	110

4.1 Enrolment Ratio (20) Total Marks 12.00

Institute Marks : 12.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2023-24 (CAY)	60	49	81.67
2022-23 (CAYm1)	60	28	46.67
2021-22 (CAYm2)	120	41	34.17

Average [(ER1 + ER2 + ER3) / 3] : 54.17

Assessment : 12.00

4.2 Success Rate in the stipulated period of the program (40) Total Marks 19.90

4.2.1 Success rate without backlogs in any semester / year of study (25) Institute Marks : 7.75

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	102.00	95.00	129.00
Y Number of students who have graduated without backlogs in the stipulated period	25.00	24.00	56.00
Success Index [SI = Y / X]	0.25	0.25	0.43

Average SI [(SI1 + SI2 + SI3) / 3] : 0.31

Assessment [25 * Average SI] : 7.75

4.2.2 Sucess rate in stipulated period (15)

Institute Marks : 12.15

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	102.00	95.00	129.00
Y Number of students who have graduated in the stipulated period	72.00	83.00	110.00
Success Index [SI = Y / X]	0.71	0.87	0.85

Average SI[(SI1 + SI2 + SI3) / 3]: 0.81

Assessment [15 * Average SI] : 12.15

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 11.58

Institute Marks : 11.58

Academic Performance	CAYm3 (2020-21)	LYG (2019-20)	LYGm1 (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	8.10	7.10	9.10
Total number of successful students(Y)	76.00	72.00	83.00
Totalnumber of students appeared in the examination(Z)	76.00	80.00	87.00
API [X*(Y/Z)]:	8.10	6.39	8.68

Average API [(AP1 + AP2 + AP3)/3] : 7.72

Assessment [1.5 * AverageAPI] : 11.58

4.4 Academic Performance in Second Year (15)

Total Marks 9.30

Institute Marks : 9.30

Academic Performance	CAYm2 (2021-22)	CAYm3 (2020-21)	LYG (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	7.90	7.60	7.70
Total number of successful students (Y)	31.00	76.00	80.00
Total number of students appeared in the examination (Z)	48.00	86.00	91.00
API [X * (Y/Z)]	5.10	6.72	6.77

Average API [(AP1 + AP2 + AP3)/3] : 6.20

Assessment [1.5 * AverageAPI] : 9.30

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 39.20

Institute Marks : 39.20

Item	LYG (2019-20)	LYGm1 (2018-19)	LYGm2 (2017-18)
Total No of Final Year Students(N)	72.00	83.00	110.00
No of students placed in the companies or government sector(X)	70.00	76.00	102.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	1.00	5.00	5.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	0.00	0.00
x + y + z =	71.00	81.00	107.00
Placement Index [(X+Y+Z)/N] :	0.99	0.98	0.97

Average Placement [(P1 + P2 + P3)/3] : 0.98

Assessment [40 * Average Placement] : 39.20

Program Name :
Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AARIF KHAN PATHAN	19EJCEE001	Consultadd	22-09-2022
2	AARUSHI MATHUR	19EJCEE002	Friscon Solution	10-10-2022
3	ABHISHEK MAURYA	19EJCEE003	Girnarsoft	8-2-2023
4	ABHISHEK PAHADIYA	19EJCEE004	Girnarsoft	8-2-2023
5	ABHISHEK RAGHAV	19EJCEE005	LTI	15-10-2022/L0
6	ABHISHEK SHARMA	19EJCEE006	Pinnacle Infotech/TCS	TATA/HR/2022/6584261
7	AKSHAT SANKHLA	19EJCEE009	LTI	15-10-2022/L1
8	ANURAG GOYAL	19EJCEE016	Newgen	01-01-2023
9	ARPIT SHARMA	19EJCEE017	Genus	Ref.Genus/HRD/2023-24 GET
10	ASHISH GUPTA	19EJCEE019	TCS/Newgen	CT20223958657
11	ASHISH SUMAN	19EJCEE022	Pinnacle Infotech	20-12-2022
12	CHINMAY KERWAL	19EJCEE025	Verzo	16-1-2023
13	CHIRAG PORIWAR	19EJCEE026	TCS	CI20223960377
14	DEEPENDRA SINGH RAJAWAT	19EJCEE030	Pinnacle Infotech	20-12-2022
15	DEEPESH KUMAR KOLI	19EJCEE031	Marelli Talbros Chassis Systems Pvt. Ltd.	06-09-2023
16	DHAWAL VERMA	19EJCEE032	Matheshwari UT	30-09-2022
17	DIVYANSH BANSAL	19EJCEE034	Marelli Talbros Chassis Systems Pvt. Ltd.	06-09-2023
18	DIVYANSHU SHARMA	19EJCEE035	Pinnacle Infotech	20-12-2022
19	DIYA PORWAL	19EJCEE036	Ernst and Young	15-9-2022
20	ESHAAN TULA	19EJCEE037	Consultadd	22-09-2022
21	GAURAV SHAKYA	19EJCEE038	Newgen	01-01-2023
22	HARSH BHADAURIYA	19EJCEE040	Friscon Solution	10-10-2022
23	HARSHIT AGARWAL	19EJCEE041	Friscon Solution/Marelli	06-09-2023
24	HIMANSHU KHANDELWAL	19EJCEE042	Pinnacle Infotech	20-12-2022
25	HIMANSHU SHARMA	19EJCEE043	Collabera	2-12-2022
26	JASWANT MAHAWAR	19EJCEE045	Pinnacle Infotech	20-12-2022
27	KULDEEP PARETA	19EJCEE048	Pinnacle Infotech	20-12-2022
28	KUNAL MITTAL	19EJCEE049	Genus Power	1-12-2022
29	KUNAL SHARMA	19EJCEE050	Accenture	17-9-2022
30	KUSHAL KANUNGO	19EJCEE051	Metacube	27-09-2022
31	LAKHAN SHARMA	19EJCEE052	Accenture	17-9-2022
32	MADAN MOHAN PATHAK	19EJCEE054	Pinnacle Infotech	20-12-2022
33	MAHI TAK	19EJCEE056	Consultadd/TCS	22-09-2022/CT20224016035
34	MANAN SHARMA	19EJCEE057	TCS	CT20203190208
35	MARUT SHARMA	19EJCEE058	Accenture	17-9-2022
36	MEENAKSHI BHARDWAJ	19EJCEE059	Ernst and Young	15-9-2022
37	MOHIT SHARMA	19EJCEE061	Consultadd	22-09-2022
38	MONIK KUMAR JAIN	19EJCEE062	Code bird	00
39	NISHANT GAUTAM	19EJCEE066	Newgen	01-01-2023
40	NITIN KUMAWAT	19EJCEE067	Pinnacle Infotech	20-12-2022
41	PAREEKSHIT SINGH KHANGAROT	19EJCEE068	LTI	15-10-2022/L0
42	PARUL YADAV	19EJCEE069	Apcino	APCINI/#01331
43	PAYAL CHOUHAN	19EJCEE071	Matheshwari UT	30-09-2022
44	PRATEEK SONI	19EJCEE073	TCS/Newgen	CT20223971589
45	PRIYANKA BHATI	19EJCEE074	TCS	CT20203228391
46	PRIYANSH SAINI	19EJCEE075	Pinnacle Infotech	20-12-2022
47	RACHIT KARAD	19EJCEE077	LTI	15-10-2022/L0
48	RAHUL MISHRA	19EJCEE080	Avas Finance	AFL/HRD/REC/CAMP/2022/OCAL/01
49	RISHI KUMAR PAREEK	19EJCEE084	Friscon Solution/Tata Power	10-10-2022/16-01-2023
50	SACHIN BANSAL	19EJCEE086	Genus Power	11-3-2023
51	SANJAY KUMAR BAIRWA	19EJCEE089	Matheshwari UT	30-09-2022

52	SARTHAK JOSHI	19EJCEE090	LTI	15-10-2022/L0
53	SAURABH AGRAWAL	19EJCEE091	M.Tech	2023PES5095
54	SHALINI FATEHPURIYA	19EJCEE092	Accenture	17-9-2022
55	SUMIT BAROLIA	19EJCEE097	Comviva	11-11-2022
56	TISA AGARWAL	19EJCEE101	Verzeo	16-1-2023
57	VAIBHAV CHANDRA PANDEY	19EJCEE102	Matheshwari UT	30-09-2022
58	VIVEK SHYARA	19EJCEE105	Consultadd/TCS/HPE	19-12-2022
59	VYOM PUNDHIR	19EJCEE106	TCS	CT20223970650
60	YASHVANT JANGID	19EJCEE107	Flitpay	12-9-2022
61	YUKTI CHOUDHARY	19EJCEE108	Consultadd	22-09-2022
62	YUVRAJ SINGH GOUR	19EJCEE109	LTI/Newgen	15-10-2022/L0
63	AMRENDRA KUMAR	20EJCEE200	Tata Power	30-07-2023
64	ANKITA CHAUHAN	20EJCEE201	Pinnacle Infotech	20-12-2022
65	RAVI KUMAR SWAMI	20EJCEE203	Matheshwari UT	30-09-2022
66	ABHISHEK SHUKLA	19EJCEE007	Upflairs PVT Ltd	UPL/JPR/2023/124
67	AMAN KUMAR TRIVEDI	19EJCEE010	Academy of CAD and Robotics	HR/2023/OL/21
68	AMAN MEENA	19EJCEE011	Academy of CAD and Robotics	HR/2023/OL/22
69	AMAN YOGI	19EJCEE012	Multi CAD solution Jaipur	2023/56
70	AMIT KUMAR	19EJCEE013	Upflairs PVT Ltd	UPL/JPR/2023/125
71	ANIKET SHARMA	19EJCEE014	RNS Infotech	RNS/HR/2023/9
72	ANKIT SONI	19EJCEE015	Delvex Innovation Private Limited	Delv/2023/51
73	ARYAN KHATRI	19EJCEE018	Upflairs PVT Ltd	UPL/JPR/2023/126
74	ASHOK BAIRWA	19EJCEE023	Kaushalya Enterprises	Rect./HR/2022-23/35
75	AYUSH SHARMA	19EJCEE024	Oxymora Technology PVT Ltd	HR/JPR/2023/112
76	DEEPANSHU AGARWAL	19EJCEE029	Bhargava Associates	BA/2023/90
77	DHIRENDRA SINGH SOLANKI	19EJCEE033	Academy of CAD and Robotics	HR/2023/OL/27
78	GAURAV SINGH	19EJCEE039	Kaushalya Enterprises	Rect./HR/2022-23/36
79	ISHITA GUPTA	19EJCEE044	Bhargava Associates	BA/2023/91
80	JAY PRAKASH VISHNOI	19EJCEE046	Upflairs PVT Ltd	UPL/JPR/2023/127
81	LAVISH PARETA	19EJCEE053	Multi CAD solution Jaipur	2023/61
82	MAHENDRA KUMAR	19EJCEE055	RNS Infotech	RNS/HR/2023/10
83	MILAN PARETA	19EJCEE060	Oxymora Technology PVT Ltd	HR/JPR/2023/114
84	NIDHI POSWAL	19EJCEE063	Multi CAD solution Jaipur	2023/69
85	NIKHIL SHARMA	19EJCEE065	Kaushalya Enterprises	Rect./HR/2022-23/41
86	PAWAN KUMAR DHABHAI	19EJCEE070	Cmos Computers	256
87	PRANJUL SHARMA	19EJCEE072	RNS Infotech	RNS/HR/2023/12
88	PUNIT SHARMA	19EJCEE076	Delvex Innovation Private Limited	Delv/2023/53
89	RAGHAV SHARMA	19EJCEE078	Upflairs PVT Ltd	UPL/JPR/2023/128
90	RAHUL KUMAR MEENA	19EJCEE079	Cmos Computers	257
91	RAJVEER SINGH	19EJCEE081	Oxymora Technology PVT Ltd	HR/JPR/2023/117
92	RAVI MEENA	19EJCEE082	Bhargava Associates	BA/2023/94
93	RONAK SHARMA	19EJCEE085	Academy of CAD and Robotics	HR/2023/OL/31
94	SAMEEKSHA GUNEE	19EJCEE087	Delvex Innovation Private Limited	Delv/2023/54
95	SANJAY KASWAN	19EJCEE088	Delvex Innovation Private Limited	Delv/2023/55
96	SUDHANSHU CHOURSIYA	19EJCEE095	Raj Infotech Jaipur	RIPL/HR/2023/21
97	SURBHIT KHANDELWAL	19EJCEE098	Upflairs PVT Ltd	UPL/JPR/2023/129
98	VIVEK KATIWAL	19EJCEE104	Upflairs PVT Ltd	UPL/JPR/2023/132
99	PRASHANT KUMAR	20EJCEE202	Multi CAD solution Jaipur	2023/65

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Aman pareek	18EJCEE001	JUST Dial	13-12-2021
2	Anshuman Sharma	18EJCEE005	Thrilliphollia	19-10-2021
3	Arpan Nyati	18EJCEE008	Wipro	1-11-2021
4	Arpit Jain	18EJCEE009	Wipro	1-11-2021
5	Ayush Aswal	18EJCEE010	Pinnacle/Wipro	28220617/30-04-2022
6	Gaurang Pareek	18EJCEE018	Planet Spark/Upflairs	PS006222 /15-10-2021
7	Harshit Jain	18EJCEE022	Pinnacle	28220239
8	HARSHIT TIWARI	18EJCEE023	Wipro/Just Dial	1-11-2021/13-12-2021
9	Harshita Jamer	18EJCEE024	Accenture	1861661
10	Himanshu Sen	18EJCEE025	Capgemini	18-10-2022
11	JAWWAD HABIB	18EJCEE028	Upflairs	21-10-2021/Tech Support
12	Kapil Goyal	18EJCEE029	Pinnacle/TATA Buisiness Hub Ltd	28219786/22-04-2022
13	Kapil kumawat	18EJCEE030	FRISCON SOLUTIONS	1-12-2021
14	Kartik Yadav	18EJCEE031	Espoir Network Pvt Ltd	4-12-2021
15	Kartikeya Suwalka	18EJCEE032	Pinnacle/TCS	TCSL/CT20203174943/Delhi
16	Khagesh Kumar Gaur	18EJCEE033	TCS NINJA/LIDO	CT20213710338
17	MANAN JAIN	18EJCEE038	Wipro	1-11-2021
18	Manoj vaishnav	18EJCEE043	JUST Dial/ Talent Ployar	13-12-2021/3-1-2022
19	Mehul Kumawat	18EJCEE044	Capgemini	18-10-2022
20	Milind Kumar	18EJCEE045	Wipro/TCS/Birla Soft	1-11-2021/31-10-21/3-11-21
21	Muhammad Shavez Khan	18EJCEE049	Continental Engineers	11-3-2022
22	Naman Khandelwal	18EJCEE050	Wipro	1-11-2021
23	Nidant sharma	18EJCEE051	Board Infinity	17-01-22
24	Parul Dhayal	18EJCEE054	Accenture	1861637
25	PIYUSH SONI	18EJCEE056	Espoir Network Pvt Ltd	4-12-2021
26	Praduman Singh Rajawat	18EJCEE057	Capgemini/ Just dial	13-12-2021
27	Preksha agrawal	18EJCEE059	LTI/Unschool	12-10-2021
28	Priyanka Yadav	18EJCEE060	Capgemini	18-10-2022
29	Raghav Bhardwaj	18EJCEE061	Pinnacle	28220199
30	Rajat Sharma	18EJCEE064	Pinnacle	28219704
31	Rajesh Kumar	18EJCEE066	Accenture	1861625
32	Rakshit Purohit	18EJCEE067	Accenture/Wipro	1-11-2021
33	Ravi choudhary	18EJCEE069	Talent ployer	3-1-2022
34	Ravi Kumar Yadav	18EJCEE070	Pinnacle	Pinnacle
35	Saurabh Agrawal	18EJCEE073	Pinnacle	28219785
36	Shashank Sharma	18EJCEE074	Melhua	11-3-2022
37	Shivang sharma	18EJCEE075	Wipro/TCS	1435110
38	Shoaib Aziz	18EJCEE076	Appcino	Appcino/#00826
39	Shubham bhargava	18EJCEE077	Wipro	1-11-2021
40	SHUBHAM JAYANT	18EJCEE078	Capgemini	18-10-2022
41	Shubham Mittal	18EJCEE079	E-Ashwa Automotive	11-11/-2021
42	Tushar Hemnani	18EJCEE082	Capgemini	18-10-2022
43	Vibha Yadav	18EJCEE085	Chegg India	17-2-2022
44	Vishesh Agarwal	18EJCEE087	Capgemini/Wipro/Samsung	1-11-2021
45	Yash Panwar	18EJCEE089	Wipro	1-11-2021
46	YUVRAJ SINGH SHAKTAWAT	18EJCEE090	Capgemini/Wipro	1-11-2021
47	AKASH JAIN	19EJCEE201	IDFC Bank	30-08-2024
48	Ashwin sharma	19ejcee202	Melhua	11-3-2022
49	Pranshu Pareek	19ejcee204	Melhua	11-3-2022
50	BHUPESH Goyal	18EJCEE013	M.Tech,MNIT	2024PPD5124
51	Gourav Sharma	18EJCEE020	Upgrad	29-12-2021

52	Aman Shrivastava	18EJCEE002	Academy of CAD and Robotics	HR/2022/OL/51
53	Anish jain	18EJCEE003	Upflairs Pvt.Ltd.	UPL/JPR/2022/23
54	Anurag Bohara	18EJCEE006	Upflairs Pvt.Ltd.	UPL/JPR/2022/24
55	Arjun Sharma	18EJCEE007	Delevex Innovations Pvt.Ltd.	Delv/2022/153
56	Bhanu swarnkar	18EJCEE011	Delevex Innovations Pvt.Ltd.	Delv/2022/152
57	Bhawna	18EJCEE012	RNS Infotech	RNS/HR/2022/104
58	Chanchal Choudhary	18EJCEE014	Kaushalya Enterprises	Rect./2021-22/73
59	Chirag Sharma	18EJCEE015	Kaushalya Enterprises	Rect./2021-22/74
60	Dipendra Chhaba	18EJCEE016	Delevex Innovations Pvt.Ltd.	Delv/2022/155
61	Gautam Kumar	18EJCEE019	Kaushalya Enterprises	Rect./2021-22/76
62	Govinda jadam	18EJCEE021	Upflairs Pvt.Ltd.	UPL/JPR/2022/27
63	Jaswant Singh	18EJCEE027	Multi CAD Solution	2022/86
64	KISHAN KUMAR MEENA	18EJCEE034	RNS Infotech	RNS/HR/2022/105
65	Kundan nagar	18EJCEE035	Upflairs Pvt .Ltd.	UPL/JPR/2022/26
66	Madhur goyal	18EJCEE036	Academy of CAD and Robotics	HR/2022/OL/55
67	Mahir Ali	18EJCEE037	Upflairs Pvt.Ltd.	UPL/JPR/2022/33
68	Manish godara	18EJCEE039	RNS Infotech	RNS/HR/2022/113
69	Manish kumawat	18EJCEE041	Multi CAD Solution	2022/87
70	Mohit soni	18EJCEE046	RNS Infotech	RNS/HR/2022/106
71	Nitesh Chahar	18EJCEE052	RNS Infotech	RNS/HR/2022/107
72	nitesh choudhary	18EJCEE053	Bhargava Associates	BA/2022/15
73	Piyush Gupta	18EJCEE055	RNS Infotech	RNS/HR/2022/108
74	Praveen Parihar	18EJCEE058	Academy of CAD and Robotics	HR/2022/OL/56
75	Raghvedra singh Shekhawat	18EJCEE062	Kaushalya Enterprises	Rect./2021-22/77
76	Rahul Bairwa	18EJCEE063	Multi CAD Solution	2022/88
77	Rajendra kumar rawat	18EJCEE065	Bhargava Associates	BA/2022/17
78	Rohit chapola	18EJCEE071	RNS Infotech	RNS/HR/2022/109
79	Tushar Choudhary	18EJCEE081	Delevex Innovations Pvt.Ltd.	Delv/2022/157
80	VAIBHAV JHAJHARIA	18EJCEE083	Delevex Innovations Pvt.Ltd.	Delv/2022/158
81	Vishvesh sharma	18EJCEE088	Upflairs Pvt.Ltd.	UPL/JPR/2022/25
82	Akshay Choudhary	18EJCEE301	Bhargava Associates	BA/2022/18
83	Nitesh Sing Rathore	19EJCEE203	Academy of CAD and Robotics	HR/2022/OL/62
84	Ramesh Chand Bairwa	19EJCEE205	Academy of CAD and Robotics	HR/2022/OL/57
85	Anshul bansal	18EJCEE004	M.Tech	24EE63R127
86	Jaideep Gurjar	18EJCEE026	AAI	5/13/2024
87	MANISH JAIN	18EJCEE040	desire power	desire power
88	Manish parihar	18EJCEE042	MTECH	23082021
89	Moin Khan	18EJCEE047	MTECH	202302668
90	Tanishk Choudhary	18EJCEE080	BITS	23DM331
91	Vasid Ali	18EJCEE084	genus power	1/09/2024
92	VIDHI SHARMA	18EJCEE086	M.Tech	M.Tech
93	Anushka Dubey	18EJCEE300	SBI	12/2/2023

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	SAHIL BHATIA	17EJCEE097	Chegg-India	15-12-2020
2	SAKSHAM GHIYA	17EJCEE098	Reliance	04-01-2024
3	SHUBHAM SUWALKA	17EJCEE106	Harion Technology	HARIOM/GTE/160
4	SHUBHAM VIJAY	17EJCEE107	Harion Technology/Just Dial	HARIOM/GTE/161/25-12-20
5	SNEHA JINDAL	17EJCEE108	Chegg-India/E2V	LLPIN:ASN-0509
6	TANMAY JAIN	17EJCEE111	Chegg-India/Pinnacle	15-12-2020
7	TIKSHA KUMARI	17EJCEE113	Pinnacle	20740787
8	TUSHAR SHARMA	17EJCEE114	E2V	LLPIN:ASN-0509
9	YAGYARAJ SINGH KHANGAROT	17EJCEE121	Chegg-India	15-12-2020
10	YASH SHARMA	17EJCEE122	E2V	LLPIN:ASN-0509
11	ASHISH MAHAWAR	18EJCEE200	Harion Technology	HARIOM/GTE/147
12	RISHABH JAIN	18EJCEE201	Harion Technology	HARIOM/GTE/158
13	AJAY KUMAR NAMA	17EJCEE011	Kaushalya Enterprises	Rect./2020-21/5
14	AMIT SINGHAL	17EJCEE014	Multi CAD Solution	2021/554
15	AMOGH DHAMANIYA	17EJCEE015	Upflairs Pvt.Ltd.	UPL/JPR/2021/61
16	ANKIT JAIN	17EJCEE017	Kaushalya Enterprises	Rect./2020-21/3
17	ASHISH YADAV	17EJCEE022	Multi CAD Solution	2021/563
18	AYUSH KUMAR	17EJCEE023	Upflairs Pvt.Ltd.	UPL/JPR/2021/63
19	CHANDAN SAINI	17EJCEE026	Bhargava Associates	BA/2021/51
20	CHINMAY JAIN	17EJCEE028	Kaushalya Enterprises	Rect./2020-21/11
21	CHIRANJEEV	17EJCEE029	Upflairs Pvt.Ltd.	UPL/JPR/2021/64
22	DEEPAK KUMAR	17EJCEE031	Bhargava Associates	BA/2021/55
23	DEVASHISH SONI	17EJCEE032	Kaushalya Enterprises	Rect./2020-21/12
24	HEMANT KUMAR	17EJCEE043	Upflairs Pvt.Ltd.	UPL/JPR/2021/65
25	HRISHABH RAJ	17EJCEE047	Academy of CAD and Robotics	HR/2021/OL/12
26	INDRAVEER SINGH	17EJCEE048	Upflairs Pvt.Ltd.	UPL/JPR/2021/69
27	IRSHAD KHAN	17EJCEE049	Kaushalya Enterprises	Rect./2020-21/15
28	JAYESH CHOUDHARY	17EJCEE052	Academy of CAD and Robotics	HR/2021/OL/3
29	KHUSHAL SHARMA	17EJCEE054	Kaushalya Enterprises	Rect./2020-21/16
30	MOHIT JAIN	17EJCEE063	Kaushalya Enterprises	Rect./2020-21/17
31	MONIKA JAIN	17EJCEE064	Academy of CAD and Robotics	HR/2021/OL/9
32	NAVEEN PRAJAPAT	17EJCEE065	Academy of CAD and Robotics	HR/2021/OL/4
33	NIMISH SHARMA	17EJCEE070	Upflairs Pvt.Ltd.	UPL/JPR/2021/74
34	OMPRAKASH SHARMA	17EJCEE073	Bhargava Associates	BA/2021/54
35	PIYUSH BHATNAGAR	17EJCEE076	Multi CAD Solution	2021/557
36	PRASHANT KUMAR SINGH	17EJCEE077	Academy of CAD and Robotics	HR/2021/OL/16
37	PRAVEEN BAIRWA	17EJCEE080	Academy of CAD and Robotics	HR/2021/OL/15
38	RACHIT SURELA	17EJCEE087	Academy of CAD and Robotics	HR/2021/OL/14
39	SANIDHYA VYAS	17EJCEE100	Bhargava Associates	BA/2021/53
40	AAYUSHI GUPTA	17EJCEE001	Chegg-India/TCS Ninja/Pinnacle	TCSL/DT20206533532/Delhi/20741031
41	ABHISHEK JAIN	17EJCEE003	Chegg-India/VVDN	15-12-2020
42	ABHISHEK S RATHORE	17EJCEE004	E2V/Harion Technology/Pinnacle	LLPIN:ASN-0509/20743376,HARIOM/GTE/142
43	AKASH YADAV	17EJCEE012	VVDN/pinnacle/PNB	16-12-2020
44	AKSHITA GAUR	17EJCEE013	Chegg-India/RMC Switchgear/pinnacle	01-03-2021/20741233
45	ANANT KUMAR SHARMA	17EJCEE016	Chegg-India/TATA Power	TATA/16113922 72614
46	ANKUR SINGHAL	17EJCEE018	Accenture/Chegg-India/VVDN	522134/16-12-20,
47	ANSHU SHARMA	17EJCEE019	TCS Ninja/pinnacle	CT20203106551
48	AYUSH VYAS	17EJCEE024	Chegg-India/VVDN/pinnacle	16-12-20/20741361
49	BHARTI SHARMA	17EJCEE025	Pinnacle	20740915
50	DARSHNA TANK	17EJCEE030	RMC Switchgear	3/1/2021
51	GOVIND KRISHNA GOYAL	17EJCEE037	Chegg-India/Infosys	HRD/3T/1002040857/21-22

52	GUNEET GUPTA	17EJCEE038	Chegg-India/Pinnacle/MBA	20740813
53	HARSHIT SWARNKAR	17EJCEE041	TCS Ninja	CT20203106467
54	HIMANSHU GOYAL	17EJCEE046	Chegg-India/VVDN/Polycab	15-12-2020
55	JATIN SHARMA	17EJCEE051	Chegg-India/TCS Ninja	CT20203473567
56	KARTIKAY CHANDRA	17EJCEE053	Pinnacle	20742001
57	KUNIKA GUPTA	17EJCEE058	Chegg-India/RMC Switchgear/VVDN/Pinnacle	3-01-21/16-12-20/20740799
58	MAYANK SHARMA	17EJCEE062	Pinnacle	20742415
59	PRASHANT SHUKLA	17EJCEE078	Pinnacle	20741022
60	RACHIT SOGANI	17EJCEE086	TCS Code Vita/Chegg-India/LTI	CT20203078488/31-05-21
61	RAHUL SINGHAL	17EJCEE089	Tata Power	TATA/16114612 60626
62	SHUBHAM GOYAL	17EJCEE105	Chegg-India/VVDN	15-12-2020
63	VISHAL GUPTA	17EJCEE117	Chegg-India/TCS Ninja	CT20203492332
64	VISHAL VARSHNEY	17EJCEE119	Chegg-India/TCS Ninja/VVDN/Harion Technology	DT20206739186
65	ABHAY MAKKAR	17EJCEE002	Chegg-India	15-12-2020
66	ABHISHEK SHARMA	17EJCEE005	Chegg-India/pinnacle	20741384
67	ABHISHEK SHEKHAWAT	17EJCEE006	E2V	LLPIN:ASN-0509
68	ACHAL SHARMA	17EJCEE008	Chegg-India/E2V/Harion Technology "	LLPIN:ASN-0509,HARIOM/GTE/143
69	ADITYA GUPTA	17EJCEE009	E2V/Harion Technology	LLPIN:ASN-0509,HARIOM/GTE/144
70	ADITYA JOSHI	17EJCEE010	Chegg-India/Harion Technology/Bloom Brain Solu	HARIOM/GTE/145,02-11-2020,HARIOM/GTE/145
71	ANURAG SONI	17EJCEE021	E2V/Harion Technology	LLPIN:ASN-0509,HARIOM/GTE/146/25-12-2020
72	DEVRAJ SINGH	17EJCEE033	M.Tech	M.Tech
73	DHRUV AGRAWAL	17EJCEE034	E2V/Harion Technology	LLPIN:ASN-0509,HARIOM/GTE/148
74	GAURAV SHARMA	17EJCEE036	UpGrad	29-Dec-21
75	HIMANSHU AGARWAL	17EJCEE045	E2V/Harion Technology	LLPIN:ASN-0509,HARIOM/GTE/149
76	KUMAR ABHISHEK	17EJCEE056	E2V/Harion Technology/Indo plast	LLPIN:ASN-0509,HARIOM/GTE/150/4-01-21
77	KUNAL GAUTAM	17EJCEE057	E2V/Harion Technology/Polycab	LLPIN:ASN-0509,HARIOM/GTE/151
78	KUNVAR PREET SINGH	17EJCEE059	Merch NAVY	Merch NAVY
79	LUCKY SUMAN	17EJCEE060	Basic Computer Instructor,Govt	RJD2023
80	NIKHIL BHARDWAJ	17EJCEE066	Chegg-India/pinnacle	15-12-2020
81	NIKHIL CHAWLA	17EJCEE067	Harion Technology	HARIOM/GTE/152
82	NIKITA GOYAL	17EJCEE068	E2V/Harion Technology	LLPIN:ASN-0509
83	NITESH BHUNWALIYA	17EJCEE071	Police	Police
84	NITIN AGARWAL	17EJCEE072	Harion Technology	HARIOM/GTE/153
85	PARTH CHATURVEDI	17EJCEE075	E2V/Harion Technology/MBA	LLPIN:ASN-0509,HARIOM/GTE/154
86	PALASH SHROTRIYA	17EJCEE074	M.Tech	M.Tech
87	PRATHAVIRAJ CHOUHAN	17EJCEE079	E2V/Harion Technology	LLPIN:ASN-0509,HARIOM/GTE/155
88	PRAYAG RAJ SHARMA	17EJCEE081	Chegg-India/Harion Technology	HARIOM/GTE/162
89	PRIYANK GUPTA	17EJCEE082	Chegg-India	15-12-2020
90	PRIYANSHU MANGAL	17EJCEE083	E2V/Harion Technology	LLPIN:ASN-0509,HARIOM/GTE/156
91	PRIYUL DAVE	17EJCEE084	E2V/Harion Technology/Just Dial	LLPIN:ASN-0509,HARIOM/GTE/157/25-12-20
92	RAVI SHARMA	17EJCEE090	M.Tech	M.Tech
93	RISHABH JANGID	17EJCEE091	E2V/Harion Technology/Just Dial	LLPIN:ASN-0509,HARIOM/GTE/159/25-12-20
94	RISHABH KUMAR SHARMA	17EJCEE092	Chegg-India	15-12-2020
95	ROHAN SHARMA	17EJCEE093	Chegg-India	15-12-2020
96	SACHIN GARG	17EJCEE096	E2V	LLPIN:ASN-0509
97	SHAMPANJOY DAS	17EJCEE102	Multi CAD Solution	2021/558
98	SHIVANI MAHAJAN	17EJCEE104	Upflairs Pvt.Ltd.	UPL/JPR/2021/62
99	SUDHANSHU BANSAL	17EJCEE110	Multi CAD Solution	2021/562
100	USHA MEENA	17EJCEE115	Upflairs Pvt.Ltd.	UPL/JPR/2021/66
101	VISHAL SONI	17EJCEE118	Academy of CAD and Robotics	HR/2021/OL/2
102	VIVEK MAHAWAR	17EJCEE120	Multi CAD Solution	2021/561
103	YASH SINGHAL	17EJCEE123	Kaushalya Enterprises	Rect./2020-21/4

104	YUVRAJ SINGH SHEKHAWAT	17EJCEE125	Kaushalya Enterprises	Rect./2020-21/2
105	ABHISHEK SINGH	17EJCEE007	ONGC	14 JUNE,23
106	ANSHUL KATTA	17EJCEE020	Delotte	sep,2024
107	DIVYARAJ SHARMA	17EJCEE035	Celebal Technolgy	March,2023
108	HAPPY AGARWAL	17EJCEE039	Family Business	july,21
109	HARSHIT THAKURIYA	17EJCEE042	Family Business	2021
110	HEMANT KUMAR MARWAL	17EJCEE044	AIIMS,GUJARAT	Jan,2024
111	ISHAN BHARGAVA	17EJCEE050	MBA ,Narayana ,Ahmedabad	July,2024
112	KULDEEP SINGH RATHORE	17EJCEE055	Banglore,ministry of home affairs	9-9-2024
113	MANOJ KUMAR KALAL	17EJCEE061	EV,Banglore	May.2022
114	PUNIT KUMAR	17EJCEE085	Cognizant	May-22
115	RAGHUVEER SINGH	17EJCEE088	Self Business,barmer	December,2021
116	ROHIT CHOUDHARY	17EJCEE094	Cable Industry,Ahmedabad	April,22
117	ROOP SINGH JOGI	17EJCEE095	Ss enterprise,chittorgarh	11-2-2024
118	SAMPRASS GOTHERWAL	17EJCEE099	Meta cube	Aug,22
119	SATYENDRA SINGH	17EJCEE101	Coaching Institute	26-08-2022
120	SHIVAM	17EJCEE103	Bhargava Associates	BA/2021/56
121	SOURABH JANGID	17EJCEE109	freelancing	Mar-23
122	VIJAY GUPTA	17EJCEE116	seven unique	21-10-2024
123	YASH SONI	17EJCEE124	Family Business	Family Business
124	KARTIK KACHHARA	17EJCEE300	hemshree export,ahmedabad	25-11-2024
125	HARSH WARDHAN CHAUDHARY	17EJCEE301	cristine care,gurgaon	15-10-2024
126	SHUBHAM KUMAR	17EJCEE302	TCS	TCS
127	SUKHVINDER SINGH	18EJCEE202	ICII bank,hanumangarh	6-10-2022

4.6 Professional Activities (20) Total Marks 20.00

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

Institute Marks : 5.00

A. Availability & activities of professional societies and professional clubs:

Table B 4.6.1(a)

S.N.	Professional societies/chapters
1	IEEE student chapter
2	JECRC Toastmaster
3	Electrical Engineering Student Club (GLECTRA)

Events Organized by IEEE for session 2022-2023

S.No.	List of Events	Date
1	Inaugration of IEEE Student Branch	16-Feb-23
2	Complete training session on GITHUB	02-Mar-23
3	ROBO TUG OF WAR	14-Apr-23
4	Snakes and Ladders	15-Apr-23
5	IEEE Quarter Tech Talk Table 9.0	29-Apr-23
6	Chess	08-May-23
7	Expert Talk on Roadmap for Orientation to Graduation	20-May-23
8	Cybersecurity & AI: How to Prepare Today to Make a Career Move into The Most Rewarding & Promising Careers of 21st Century	15-Jun-23

Events Organized by IEEE for session 2023-2024

1	Workshop on Embedded System Design and Development Using Arduino	14-Sep-23
2	Mobile gaming_Report	03-Oct-23
3	Coding Event	03-Oct-23
4	Debate Competition	03-Oct-23
5	Talk on Cloud Computing	03-Oct-23
6	Climate Change & Sustainability	05-Dec-23
7	YESIST12 2024	6-Mar-24
8	CHESS	8-May-24
9	Photography Competition	3-Oct-23
10	BITS Coding Contest	21-Mar-24
11	Discover IEEE: Opportunities in Membership & Volunteering	22-Apr-24
12	Expert Talk by Dr. Gajender Purohit	13-May-24

B. Events Organized by JECRC Toast Masters for session 2022-2023

S.No.	List of Events	Date
1	Joint Area Conference	20.11.2022
2	Seminar on Toastmaster Leadership Training	31.07.2022

Events Organized by JECRC Toast Masters for session 2023-2024

1	“Zero Hour Summit”	09.12.2023

C. Events Organized by GLECTRA CLUB (Electrical Engineering)

For session 2021-2022

S.No.	Program/Event	Resource Person with address	Target Group	Conduction Date	Number of students Benefitted
1	Expert talk : Career Opportunities for Engineer	Mr. Shishir Persai (Senior faculty of(GATE/ESE Electrical Engineering,Made Easy,Jaipur)	Third Year B. Tech Electrical Students	30-03-2022	45

2	Career Seminar on How to crack Gate PSU exams	Mr. Qaisar Hafiz (Senior faculty of GATE/ESE Electrical Engineering) Prepladder, Jaipur	Third Year B. Tech Electrical Students	29.04.2022	59
3	One Day Seminar on Engineer's Day Celebration	Dr Prerak Bhardwaj HOD EE	Second Year B. Tech Electrical Students	15.09.2021	36
4	Seminar on National Science Day	Dr Prerak Bhardwaj HOD EE	Second Year B. Tech Electrical Students	28.02.2022	38

For session 2022-2023

S.No.	Program/Event	Resource Person with address	Target Group	Conduction Date	Number of students Benefitted
1	One Day Seminar on Engineer's Day Celebration	Dr Prerak Bhardwaj HOD EE	Third Year B. Tech Electrical Students	15-09-2022	25
2	One Day Seminar on Hindi Divas Celebration	Dr Prerak Bhardwaj HOD EE	Third Year B. Tech Electrical Students	14-09-2022	45
3	Expert talk on Operations of Grid Sub Station	Mr Rahul Totlani, AEn RRVPNL	Third Year B. Tech Electrical Students	08-06-2023	62
4	Alumni Talk	Mr Milind Kumar	Third Year B. Tech Electrical Students	03-04-2023	60
5	Industrial Visit-132 kV GSS Sitapura	Mr. Suresh Meena AEn	Second Year B. Tech Electrical Students	05-12-2022	27
6	Industrial Visit-132 kV GSS Sitapura	Mr. Suresh Meena AEn	Third Year B. Tech Electrical Students	06-12-2022	32
7	Technical Event-Electroquizzer	Mr. Gopal Tiwari	Second Year B. Tech Electrical Students	15-04-2023	11
8	Alumni Talk	Ms. Kritika Khandelwal (2018 passout) working as ASSOCIATE SYSTEM ENGINEER in IBM	Third Year B. Tech Electrical Students	21-07-2022	48

For session 2023-2024

S.No.	Program/Event	Resource Person with address	Target Group	Conduction Date	Number of students Benefitted

1	Industrial Visit- SARAS DAIRY	Mr. Ravi Ram, Manager, Saras Dairy	Third year B. Tech Electrical Students	11-09-2023	30
2	Industrial Visit- 400kV Heerapura Japiur	Er. J. K. Bilkha AEn, RRVPNL Heerapura	Third year B. Tech Electrical Students	28-03-2024	30
3	Industrial Visit-400kV Heerapura Japiur	Er. J. K. Bilkha AEn, RRVPNL Heerapura	Third year B. Tech Electrical Students	05-04-2024	11
4	One Day Workshop-Substation Component and its Applications	Mr Kapil K Mathur, Corporate Engineer and Projects, Danik Bhaskar	Third year B. Tech Electrical Students	03-05-2024	28
5	Expert Talk - How to crack GATE PSUs in 1st attempt	Mr, Parvez Khan Career Coach and Motivational Speaker	Third year B. Tech Electrical Students	01-05-2024	46
6	One Day Seminar on Engineer's Day Celebration	Dr Prerak Bhardwaj HOD EE	Second year B. Tech Electrical Students	15-09-2023	25

C. Participation of students in Events Organized by other clubs of JECRC

Academic Year 2021-22

XANANOIDS

S. No.	Name of Activity	Resource Person	From Where	Total no. of Students	No. of Students of EE
1	Rennovator	Dr. Neelam Choudhary	Poornima University	94	20
2	Fromula Zero	Mr. Piyush Sanam	Upflairs pvt. Ld.	109	19
3	Robo Soccer	Mr. Atul Sharma	Global Institute of Technolgy	147	29
4	Robo Sumo War	Mr. Surendra Dua	Global Institute of Technolgy	77	15

Academic Year 2022-23

S. No.	Name of Activity	Resource Person	From Where	Total no. of Students	No. of Students of EE
1	Fromula Zero	Mr. Sandeep Kumar Jain	VGU, Jaipur	29	6
2	Game of Drones	Mr. Atul Sharma	Global Institute of Technolgy	34	7
3	Robo Soccer	Mr. Piyush Sanam	Upflairs Pvt. Ltd	49	9

Academic Year 2023-24

S. No.	Name of Activity	Resource Person	From Where	Total no. of Students	No. of Students of EE
1	Formula Zero	Mr. Sandeep Kumar Jain	VGU, Jaipur	32	12
2	Game of Drone	Mr. Surendra Dua	GIT, Jaipur	9	3
3	Robo Soccer	Mr. Atul Sharma	GIT Jaipur	31	11
4	Robo War	Mr. Durgesh Kumar	PCE, Jaipur	9	3

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

Institute Marks : 5.00

The department actively engages in publishing technical magazines, newsletters, and related content to disseminate knowledge and showcase academic and technical achievements. The following is the names of editors and editorial team:

1. TESLA magazine

Editor-in-Chief: Ms Sonali Chadha

Student Members in Editorial Team Details:

Year-2021-2022--Milind Kumar, Bhupesh Goyal , 3rd Year

Year-2023-2024 - Ms Mehwish Bano & Ms Bhavya Saraswat, 3rd Year

Year-2023-2024 - Kunal Saini , Mayur Choudhary

Publisher: JECRC Jaipur

Frequency: Half Yearly

Scope: Brief description of the publication's focus, e.g., student achievements, research highlights, industry trends etc

The "TESLA" magazine serves as a comprehensive chronicle of the vibrant and dynamic activities within the Electrical Engineering (EE) Department of JECRC Foundation. This publication encapsulates both the social and technical initiatives undertaken by the department, fostering a holistic environment for academic and personal growth on a six month basis. The "TESLA" magazine serves as a testament to the diverse and enriching experiences within the EE Department at JECRC Foundation. By encompassing technical advancements, social engagements, and celebratory moments, it encapsulates the ethos of holistic development and continuous progress within the department.

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	TESLA	Jan-June-2024	Ms Sonali Chadha	EE Department, JECRC
2	2023-24	TESLA	July-Dec2023	Ms Sonali Chadha	EE Department, JECRC
3	2022-23	TESLA	Jan-June-2023	Ms Sonali Chadha	EE Department, JECRC
4	2022-23	TESLA	July-Dec2022	Ms Sonali Chadha	EE Department, JECRC
5	2021-22	TESLA	Jan-June-2022	Ms Sonali Chadha	EE Department, JECRC
6	2021-22	TESLA	July-Dec2021	Ms Sonali Chadha	EE Department, JECRC
7	2020-21	TESLA	Jan-June-2021	Ms Sonali Chadha	EE Department, JECRC
8	2020-21	TESLA	July-Dec2020	Ms Sonali Chadha	EE Department, JECRC

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

Institute Marks : 10.00

Participation of students in inter institute event and activities

S.N.	Name of Student	Events organized by Institute	Event Details	Date of Event	Awards / Appreciations
1	Rishi Dwivedi	IIT Bombay	Workshop on Microcontroller Lab based on Pt-51 board	05-16 June 2023	Received Certificate
2	Shivam Sharma	IIT Bombay	Workshop on Microcontroller Lab based on Pt-51 board	05-16 June 2023	Received Certificate
3	Sahil Khan	IIT Bombay	Workshop on Microcontroller Lab based on Pt-51 board	05-16 June 2023	Received Certificate
4	Kunal Sharma	IIT Jodhpur	Varchas 2022, IIT Jodhpur	22-05-2022	Received Certificate
5	Bhupesh Goyal	Cochin University of Science and Technology, Kochi · India	2022 IEEE 19th India Council International Conference (INDICON)	(24-26)-11-2022	Received Certificate
6	Priyanka Harchandani	IIT Madras	Engineering Mathematics II	14-May-2022	Received Certificate
7	Priyanka Harchandani	IIT Madras	Basic Linear Algebra	08-May-2022	Received Certificate
8	Priyanka Harchandani	IIT Madras	Numerical methods	04-10-2022	Received Certificate
9	Priyanka Harchandani	IIT Madras	Basic Electric Circuits	21-11-2022	Received Certificate
10	Priyanka Harchandani	IIT Madras	VLSI Signal Processing	18-May-2023	Received Certificate
11	Priyanka Harchandani	IIT Madras	Introduction To Internet Of Things	17-May-2023	Received Certificate
12	Priyanka Harchandani	IIT Madras	Introduction To Adaptive Signal Processing	27-Nov-2023	Received Certificate
13	Priyanka Harchandani	IIT Madras	Power System Protection	21-Nov-2023	Received Certificate
14	Dinesh Suwalkya	IIT Kharagpur	Problem Solving through Programming in C	22-May-2023	Received Certificate
15	Priyanka Harchandani	NPTEL	NPTEL ENTHUSIAST	Jan-April 2023	Received Certificate

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 139.78

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 the Institution(Yes/No)	I N c
Prerak Bhardwaj	BDEPB3900J	ME/M. Tech and PhD	07/02/2019	Power Electronics	3	0	0	Associate Professor	09/06/2023	13/08/2018	Regular	Yes	
Gopal Tiwari	AGPPT8253R	M.E/M.Tech	12/06/2018	Electrical Engineering (Instrumentation and Control)	4	0	0	Assistant Professor		28/07/2014	Regular	Yes	
L. Senthil	ADMPL0195Q	M.E/M.Tech	28/02/2015	Power System	4	0	0	Assistant Professor		06/02/2012	Regular	Yes	
Sonali Chadha	APTPC4654C	M.E/M.Tech	20/06/2011	Energy Engineering	4	0	0	Assistant Professor		16/01/2012	Regular	Yes	
Neha Agrawal	ATUPA4690H	M.E/M.Tech	29/01/2022	Power System	2	0	0	Assistant Professor		01/08/2015	Regular	Yes	
Vishnu Dutt Sharma	EDIPS5407N	M.E/M.Tech	17/08/2023	Power System	2	0	0	Assistant Professor		04/01/2012	Regular	Yes	
Shailendra Shrivastava	CPEPS2445Q	M.E/M.Tech	09/10/2010	Power System	4	0	0	Assistant Professor		25/07/2016	Regular	Yes	
Vishal Sharma	AWRPS4184J	M.E/M.Tech	07/12/2011	Power System	1	0	0	Assistant Professor		22/08/2016	Regular	Yes	
Nupur Yadav	AORPY4996C	M.E/M.Tech	14/12/2020	Power System	2	0	0	Assistant Professor		13/08/2018	Regular	Yes	
Vikram Singh	FQJPS1854L	ME/M. Tech and PhD	23/04/2024	Power System	4	0	0	Assistant Professor		01/01/2024	Regular	Yes	
Pooja Sharma	BSQPP1506F	ME/M. Tech and PhD	06/03/2024	Control System	2	0	0	Assistant Professor		19/12/2023	Regular	Yes	
Neeraj Kumar Kumwat	BSSPK1804K	M.E/M.Tech	26/04/2013	Power System		0	0	Assistant Professor		04/01/2024	Regular	Yes	
Ritu Soni	CHJPS7633B	M.E/M.Tech	05/03/2014	Measurement and Control	0	0	0	Assistant Professor		16/12/2019	Regular	No	3
Sunil Kumar Sharma	EQBPS5518E	M.E/M.Tech	01/02/2018	Power System	0	0	0	Assistant Professor		26/04/2012	Contractual	No	1
Ashok Singh Chundawat	AVYPC9362J	M.E/M.Tech	13/02/2016	Instrumentation and Control	0	0	0	Assistant Professor		21/07/2016	Regular	No	1
Jisha Varghese	AKLPV5480G	M.E/M.Tech	20/07/2013	Electronics and Communication Engineering	0	0	0	Assistant Professor		15/02/2020	Regular	No	2
Vinay Kumar Chandna	ADYPC0545P	ME/M. Tech and PhD	07/03/2009	POWER SYSTEM	4		0	Professor		08/07/2015	Regular	Yes	
VAIBHAV JAIN	AKMPJ2711M	ME/M. Tech and PhD	27/02/2018	POWER SYSTEM			0	Associate Professor		07/07/2021	Contractual	No	0
Ram Singh	BQDPS6091P	B.E/B.Tech	26/08/2005	Electrical Engineering	4	0	0	Assistant Professor		17/08/2007	Regular	Yes	
Mr Praveen Goyal	AWIPG6475H	B.E/B.Tech	12/12/2013	Electrical Engineering	0	0	0	Assistant Professor		13/07/2016	Regular	Yes	
Suresh Gurjar	EBWPS2540L	B.E/B.Tech	19/03/2016	Electrical Engineering	0	0	0	Assistant Professor		10/09/2020	Regular	Yes	
Manish Pal	BNIPP0313H	M.E/M.Tech	20/07/2013	Power System	0	0	0	Assistant Professor		25/07/2013	Contractual	No	2
Rahul Kumar Malee	BRKPM8121L	M.E/M.Tech	21/07/2017	Power System	0	0	0	Assistant Professor		20/07/2016	Contractual	No	2

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	60	3	120	7	120	3
3rd Year	120	7	120	3	120	5
4th Year	120	3	120	5	120	7
Sub-Total	**300**	**13**	**360**	**15**	**360**	**15**
Total	**313**		**375**		**375**	
Grand Total	313		375		375	

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)	313 **Sum total of all (UG+PG) students**	375 **Sum total of all (UG+PG) students**	375 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	16 **F1**	15 **F2**	15 **F3**
Student Faculty Ratio(SFR)	19.56 **SFR1=S1/F1**	25.00 **SFR2=S2/F2**	25.00 **SFR3=S3/F3**
Average SFR	23.19 **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)	12	4
CAYm1(2022-23)	11	4
CAYm2(2021-22)	11	4

Average SFR for three assessment years : 23.19

Assessment SFR : 10

5.2 Faculty Cadre Proportion (25) Total Marks 13.00

Institute Marks : 13.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	1.00	1.00	3.00	1.00	10.00	10.00
CAYm1(2022-23)	2.00	1.00	4.00	0.00	12.00	10.00
CAYm2(2021-22)	2.00	1.00	4.00	0.00	12.00	10.00
Average Numbers	1.67	1.00	3.67	0.33	11.33	10.00

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 13.00

5.3 Faculty Qualification (25) Total Marks 11.78

Institute Marks : 11.78

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2023-24(CAY)	3	13	15.00	13.67
2022-23(CAYm1)	3	12	18.00	10.83
2021-22(CAYm2)	3	12	18.00	10.83

Average Assessment : 11.78

5.4 Faculty Retention (25) Total Marks 10.00

Institute Marks : 10.00

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

Average : 56.00

Assessment Marks : 10.00

5.5 Innovations by the Faculty in Teaching and Learning (20) Total Marks 20.00

Institute Marks : 20.00

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

1. Organising the Internships for Technical Proficiency and Skill Development – During the summer vacation period, department arranges the Internships for students to get training in the field of Electrical Engineering.

2. NPTEL/SWAYAM courses are used for extensive learning.

3. To facilitate interactive learning Google Classroom is also used to conduct classes, assign task related to theory and laboratory.

4. Presentations using Power Point – Faculty members use power point for taking lectures, presentations from students during seminar, internship and project work to enhance their presentation knowledge in the field of electrical engineering and also diverse fields.

5. Industrial Visits - Industrial visits are regularly conducted to enhance the industrial/field practical knowledge of the students.

6. Expert Lectures from experienced academicians/industry persons/alumni's are organised regularly in several disciplines for students to come across the opportunities and technological advancements in their respective fields.

7. Beyond Curriculum Content - Beyond curriculum content is delivered by faculty members corresponding to their subjects and laboratory experiments for enhancing their knowledge in the emerging areas.

8. Publication in the International Journal and Conferences - Both students and faculty members regularly participate in national and international conferences and journals by presenting research papers.

9. Availability of E-Content – The central library provided the access to the students of numerous E-contents.

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

11. Virtual Laboratory: Electrical Engineering department provided the various links of online virtual laboratory platform with audio-visual presentations to the students.

12. 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.

13. 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 and various feedbacks to enhance the teaching learning.

14. Transparency in Evaluation System - To prevent student inconsistencies, the midterm exam answer copies are presented to the student's right after the assessment. They are also asked to fill the grievance form if they are unsatisfied with the assessment of answer sheets. Moreover, their feedbacks will be collected related to their subject and lab understanding through course outcomes via course exit form and program exit forms.

15. Soft Skill Training & Campus Recruitment Training (CRT) - All students take CRT and soft skill classes as part of their curriculum to enhance their soft skills and additional skills required for the campus placement.

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

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

18. ADD on courses based learning - Through ADD on programs, students get knowlege and hands on experience related to the rapidly evolving technologies and trends in the field of electrical engineering.

19. Project based Learning - Through Project based Learning students gain knowledge and skills by working on real-world projects that involve solving complex problems over an extended period.

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. Prerak Bhardwaj	3.00	4.00	5.00
Mr. Gopal Tiwari	3.00	3.00	4.00
Mr. L. Senthil	4.00	5.00	5.00
Ms. Sonali Chadha	4.00	5.00	4.00
Ms. Neha Agrawal	3.00	5.00	4.00
Mr. Vishnu Dutt Sharma	3.00	3.00	1.00
Mr. Shailendra Shrivastava	3.00	5.00	3.00
Mr. Vishal Sharma	3.00	4.00	3.00
Ms. Nupur Yadav	1.00	3.00	3.00
Dr. Vikram Singh	0.00	0.00	0.00
Dr. Pooja Sharma	0.00	0.00	0.00
Mr. Neeraj Kumar Kumawat	3.00	2.00	1.00
Mr. Ritu Soni	0.00	2.00	1.00
Mr. Sunil Kumar Sharma	2.00	3.00	2.00
Mr. Ashok Singh Chundawat	1.00	2.00	2.00
Ms. Jisha Varghese	1.00	2.00	2.00
Dr. Vinay Kumar Chandna	2.00	1.00	1.00
Dr. Vaibhav Jain	0.00	0.00	0.00
Mr. Ram Singh	3.00	3.00	1.00
Mr. Praveen Goyal	2.00	2.00	0.00
Mr. Suresh Gurjar	2.00	2.00	0.00
Mr. Manish Pal	2.00	2.00	0.00
Mr.Rahul Kumar Malee	2.00	2.00	0.00
Sum	47.00	60.00	42.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	15.65	18.75	18.75
Assessment [3*(Sum / 0.5RF)]	18.02	19.20	13.44

Average assessment over 3 years: 16.89

5.7 Research and Development (30) Total Marks 20.00

5.7.1 Academic Research (10)

Institute Marks : 10.00

The details of Research paper publications are as follows

S.No.	Title of paper	Name of Author/s	Name of the Journal/Conference	Year of Publication	ISSN Number
1	Single-Stage Extendable Multi Level Inverter with Integration of Step-Up Switched-Capacitor Unit & DC-Link Capacitor Unit	Dr Prerak Bhardwaj, Dr Manmohan Garg, Mr L. Senthil, Mr. Bhupesh Goyal	IEEE India Council, held at Cochin University of Science & Technology, Cochin, Kerala (INDICON 2022)	16-02-2023	2325-9418
2	Simulation And Modelling Of Modified Upfc In Power Systems	Mr Shailendra Srivastava	Scandinavian Journal of Information Systems	10-10-2023	0905-0167
3	IoT based Paralysis Patient Monitoring System	Mr Shailendra Shrivastava	Pratibodh,A Journal for Engineering	01-06-2024	ISSN : 2583-4495
4	Solar Powered Dynamic Electric Vehicle Charging System	Mr Ram Singh	Pratibodh,A Journal for Engineering	01-06-2024	ISSN : 2583-4495
5	Live Accident Detection System	Mr L. Senthil	Pratibodh,A Journal for Engineering	01-06-2024	ISSN : 2583-4495
6	Energy Performance Analysis Using eQuest Sotware	Mr Gopal Tiwari	Pratibodh,A Journal for Engineering	01-06-2024	ISSN : 2583-4495
7	Iot Based Power Consumption Monitoring	Mr Gopal Tiwari and Mr Ram Singh	Pratibodh,A Journal for Engineering	01-06-2024	ISSN : 2583-4495
8	Automatic Number plate recognition	Dr Prerak Bhardwaj	Pratibodh,A Journal for Engineering	01-06-2024	ISSN : 2583-4495
9	A review on Smart Charging impacts of Electric Vehicles on Grid	Ms Sonali Chadha	Elsevier	28-07-2022	2214-7853
10	Study on some aspects of adoption of Solar Cooking System: A review	Ms Sonali Chadha	Elsevier	01-01-2022	2214-7853
11	Low-cost novel designed receiver heat exchanger for household solarized cooking system: development and operationalization	Ms Sonali Chadha	Elsevier	01-01-2021	2214-7853
12	Honey badger-tuned ANFIS controller for STATCOM employed in hybrid renewable energy source	Mr L. Senthil	Springer Berlin Heidelberg	09-06-2023	3241–3253
13	Design and Development of Micro-grid Networks for Demand Management System Using Fuzzy Logic	Mr L. Senthil	Springer	16-11-2022	2194-5357

5.7.2 Sponsored Research (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) =

5.7.3 Development Activities (10)

Institute Marks : 10.00

Product Development

JECRC, Jaipur					
Department of Electrical Engineering					
Detail of Patent					
Sr. No.	Faculty Name	Patent Title	Application No.	Year	Month
1	Mr. Senthil Lakshmanan	ROD BENDING APPARATUS	202211036233	2024	March
2	Ms. Sonali Chadha	ROD BENDING APPARATUS	202211036233	2024	March
3	Dr. Prerak Bhardwaj	Walk Assistive system For Visually Impaired	202211041412 A	2022	July
4	Mr. Senthil Lakshmanan	Walk Assistive system For Visually Impaired	202211041412 A	2022	July
5	Ms. Sonali Chadha	Walk Assistive system For Visually Impaired	202211041412 A	2022	July
6	Ms. Sonali Chadha	Leg Exercising Device	202211052209	2022	September
7	Dr. V.K.Chandna	Automated Head Massage and Nourishment Device	202211021638	11/4/2022	April
8	Dr. V.K.Chandna	Turban With Solar Charger	360847-001	17/03/22	March
9	Dr. V.K.Chandna	Multifunctional Water Dispensing Device	202211041409	22/07/22	July
10	Dr. V.K.Chandna	Walk Assistive system For Visually Impaired	202211041412 A	22/07/22	July
11	Dr. V.K.Chandna	Quilt Manufacturig Device	202211041410 A	22/07/22	July
12	Dr. V.K.Chandna	Brake Drum Manufacturing Device	202211041413 A	22/07/22	July
13	Dr. V.K.Chandna	Cooking Assistive Device	202211041411 A	22/07/22	July
14	Dr. V.K.Chandna	Bath Assistive Device For Handicapped	202211052212	16/09/2022	September
15	Dr. V.K.Chandna	Gymnastic Training Device	202211052207	16/09/2022	September
16	Dr. V.K.Chandna	Adaptable Lower Limb Weight Lifting Exercising Device	202211052208	16/09/2022	September
17	Dr. V.K.Chandna	Upper Limb Exercising Device	202211052211	16/09/2022	September
18	Dr. V.K.Chandna	Automated Object Designing Device	202211052220	16/09/2022	September
19	Dr. V.K.Chandna	Ice Candy Preparation Device	202211052223	16/09/2022	September
20	Dr. V.K.Chandna	Wood Apple Juice Extraction Device	202211052221	16/09/2022	September

Instructional Materials

List of Instructional manuals are as follows

1. Safety Instructions are displayed in each laboratory.

2. Instructional manuals related to experiments and add ons are available in each laboratory.

Research Laboratories

- Developed Electric Vehicles research laboratory - MOU Signed with Baba Automobile
- Design and development of Electric Vehicles research laboratory - MOU signed with MG Motor
- Conduction of workshops/ADD on Programs/Industrial visits - MOU signed with Exackt Techfleeters pvt ltd

Working models / Charts/ monograms etc

Working models and charts are displayed in various laboratory of the department. Details of some laboratory are as follows:

S.No.	Name of laboratory	Working models/Charts/Monogramsetc
1	Electrical Machine lab	Charts are displayed
2	Power Electronics Lab	Charts are displayed
3	Power System Lab	Models and charts asre displayed

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

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, contribute in National and International Conferences, patents for their academic growth.

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

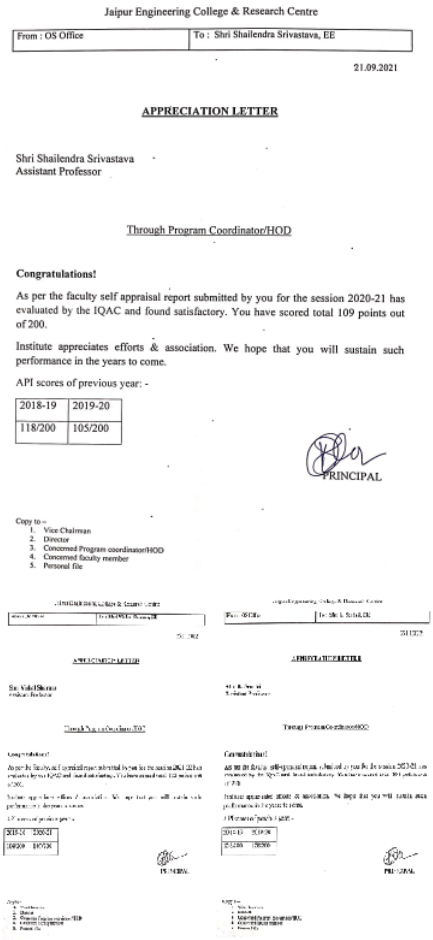
1. Granting yearly pay band increments.
2. Promotion or career advancement award.
3. Every faculty members ongoing growth is monitored and recorded for quick reference and feedback from students is also collected. Further appreciation/advisory is given to faculty members based on their performance.
4. Faculty performance appraisal system motivates the faculty members.

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:

S. No.	Category	Max. Credit Points
1	Academic Activities	60
2	Research Activities	50
3	Extension Activities	60
4	Administrative Activities	10
5	HOD Recommendation	20
	Total Credit Points	200



Jaipur Engineering College & Research Centre

From : OS Office | To : Shri Shailendra Srivastava, EE

21.09.2021

APPRECIATION LETTER

Shri Shailendra Srivastava
Assistant Professor

Through Program Coordinator/HOD

Congratulations!

As per the faculty self appraisal report submitted by you for the session 2020-21 has evaluated by the IQAC and found satisfactory. You have scored total 109 points out of 200.

Institute appreciates efforts & association. We hope that you will sustain such performance in the years to come.

API scores of previous year: -

2018-19	2019-20
118/200	105/200

PRINCIPAL

Copy to –
1. Vice-Chairman
2. Director
3. Concerned Program coordinator/HOD
4. Concerned faculty member
5. Personal file

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 needs and expert lecture faculty.

The yearwise adjunct faculty details are as follows:

Adjunt Faculty Details (2021-2023)

S.No.	Name of Faculty	Course	Hrs
1	Deepak Guruswamy	1. Quantitative Ability 2. Logical Reasoning 3. Verbal Ability 4. Human Resources 5. Group Discussion	20 10 6 8 8

Adjunt Faculty Details (2022-2023)

S.No.	Session	Faculty name	Topic Taught	Total Hours
1	2022-23	JESLY ELSA MAMMEN	Aptitude	42
2	2022-23	PAMARTHI YAMINI		
3	2022-23	SUSHAMA SANJAY PAWAR		
4	2022-23	ABISHEK B		
5	2022-23	DIKSHA RAHANGDALE		
6	2022-23	Mr. Sheeshpal Choudhary	C,C++	22
			DSA	

Adjunt Faculty Details (2023-2024)

S.No.	Session	Faculty name	Topic Taught	Total Hours
1	2023-24	Sachin Sambhaji Bhosale	Aptitude	24
2	2023-24	Mr. Harsh Jain	Fundamentals of Programing	30
3	2023-24			
4	2023-24		DSA	15
5	2023-24		OOPS	15
6	2023-24	Ms. Anushree Dixit	Communication Skills	15

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 Electrical Engineering Lab (1FY3-26), (2FY3-26)	5	• Ammeter (0-2A), (0-5A), (0-10A) • Voltmeter (0-300V), (0-500V) • Wattmeter (Digital) • Multimeter (Digital/Analog) (DT830D, MASTECH M92A) • Tong tester • CRO (0-20 MHz) , (0-30 MHz) • DSO (0-50 MHz) • DC – DC Converter • DC motor (2HP) • Multipurpose kit (Tesca) • Single phase Induction motor (1HP, 230V, 50Hz) • Three phase Induction motor. (1HP, 400V, 50Hz) • Housing Wiring Kit • Single phase Auto Transformer (0-300V, 2kVA, 50Hz) • Three phase Auto Transformer (0-400V, 2kVA, 50Hz) • Single phase Transformer (1kVA, 230V, 50Hz) • Three phase Transformer (2kVA, 400V, 50Hz) • Function Generator (10MHz) • DC Regulated Power Supply (30A, 230V)	32 Hours	Mr. Adrash Goyal	Technical Assistant	Diploma
2	Electrical circuit design Lab (3EE4-23)	5	• Digital Multimeter • Soldering iron, Soldering Paste, Soldering wire • Function Generator • CRO • Wire cutter, hookup wire • Screw driver Set • Electronics component like:- PCB (Printed circuit Board), Component Rack, Capacitor, Resistors, Diode, Transistor, Electric Fan, Battery, Transistor • Different Electronics loose components	16 Hours	Mr Vishwas Verma	Technical Assistant	ITI
3	Electrical Machine - I & II Lab (4EE4-21)	5	• DC shunt Motor (2HP) • DC Compound Motor (3HP) • MG Set (3HP) • Single Phase Transformer (2kVA, 230/230V, 50Hz) • Three Phase Transformer (2kVA, 400/400V, 50Hz) • Three phase Alternator (2kVA, 230V, 1500RPM) • Induction Motor (Three Phase – 6A, 415V) • Synchronous Motor (3HP, 4.5A, 230V) • Loading Rheostat (Single phase - 3kW, Three phase 6kW, 3.75kW, 415V, Lamp Load) • SCR Control Drive Set (50A) • DC Regulated Power Supply (30A, 230V) • Variable Frequency Generator (0-100Hz) • Cut set of DC motor • Cut set of AC motor • Megger (500V, 100M ohm) • Tachometer (Digital/ Analog) (0-9999 RPM) • Wattmeter (Single Phase – 1/2A, 150/300/600V, LPF, 5/10A, 150/300/600V, UPF) (Three Phase – 5-10A, 250/500V, UPF) • Ammeter (0-10A) (Portable MI Ammeter – 2A, 3A, 5A, 10A) • Voltmeter – (0-300V), (Portable MI 0-600V) • Variac (Three Phase – 0-10A, 415V) • Multimeter (Digital) • Nose Pliers • Cutter with stripper • Wire Cutter • Screw Driver • Air Blower (600 watt, 220V/240V 15000RPM)	16 Hours	Mr Sombir Sharma	Technical Assistant	Diploma
4	Measurement Lab (4EE3-24)	5	• Wein's Bridge (Capacity) • Anderson's Bridge • Wein's Bridge (frequency) • Single Phase Energy Meter • Oil Testing Schering Bridge • Relays • Crompton Potentiometer	08 Hours	Mr Harsh Rawat	Technical Assistant	Diploma
5	System Programming Lab (5EE4-24)	1	MATLAB Software	08 Hours	Mr Girraj Laxar	Technical Assistant	Diploma
6	Analog Electronics Lab (3EE4-21)	5	• Series Voltage Regulator • Shunt Voltage Regulator • Wein's Bridge Oscillator • FET Common Source Amp. • Push Pull Amp. • Phase Shift Oscillator • Hartley Colpitt Oscillator • UJT Characteristics • UJT Relaxation • MOSFET • Digital Storage Oscilloscope • Function Generator • CRO	08 Hours	Mr.Amit Jain	Technical Assistant	Diploma

7	Power Electronics Lab (4EE4-22)	5	• Ammeter (0-200 mA, 0-50 microA, 0-750 microA) • Ammeter DC (0-200 microA) • Ammeter moving coil DC (0-50 mA) • Single Phase Firing Circuit using OP-Amp (ADTRON, 8507) • Single Phase Ramp Comparator (ADTRON, 8508) • Single Phase Cosine wave firing circuit for SCR (ADTRON, 8509) • Chopper Circuit (FUTURE Tech, FT1407) • DIAC/TRIAC Characteristics (ADTRON) • Dual Trace oscilloscope (30 MHz) • Digital Multimeter (MECO, 603) • Phase Control rectifier using SCR (ME799, 2019) • SCR Converter and reactive loads (OMEGA) • UJT Trigger characteristics (ADTRON) • Voltmeter (0-20V, 0-50V) • SCR Characteristics (ADTRON) • DC motor control using SCR (12V, 3000RPM, SRNo.-3407) • Digital Tachometer (System, Lutron) • Characteristics of MOSFET (POWERCON) • Characteristics of IGBT (POWERCON) • Characteristics of BJT (POWERCON-ME533P) • Characteristics of UJT (ME547) • Clipper Circuit (ME576) • Function Generator (0 - 50MHz) • Emitter Follower Transistor Amplifier • Power Electronics Multipurpose Kit (HSN/SAC-90230010) • Digital Storage Oscilloscope • Single phase Auto Transformer (0-300V, 2kVA, 50Hz)	16 Hours	Mr Vishwas Verma	Technical Assistant	ITI
8	Power System - I & II Lab	5	• Dielectric strength of transformer oil • Calculation of conductor size using Kelvin's law, • Over current relay • Buchholz relay	08 Hours	Mr Sombir Sharma	Technical Assistant	Diploma
9	Electric Drives Lab (6EE4-22)	5	• Three phase half controlled bridge rectifier(Kit) • Three phase full controlled bridge rectifier (Kit)	08 Hours	Mr Vishwas Verma	Technical Assistant	ITI

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	Smart classroom	Fully equipped Projection system, Smart Board, Audio-video facility with recording, internet with high bandwidth	To enhance Teaching and Learning	For faculties and students	All engineering subject domains	PO5, PO7,PO10, PO12
2	Knowledge Gateway	The institute has membership of DELNET (Developing Library Network). Students can access Reports and Journals through DELNET	For research and project activities. To know about recent trends in Electrical Engineering field	For Students and faculties	All engineering subject domains	PO5, PO9, PO10,PO11, PO12
3	E-learning	Digital library (e- books), Faculty Lecture, Notes & Videos, NPTEL & Swayam portal	To enhance Teaching and Learning of faculties and Students	For Students and faculties	All engineering subject domains	PO1, PO2, PO5, PO10, PO12
4	Computer Centre	Computer Centre with modern facilities	For online classes, Expert Lectures, Workshops, Industry experts, Alumni talk, Placement Related activity	For Students and faculties	All engineering subject domains	PO5,PO9, PO10, PO12
5	Virtual Lab	On line Virtual Lab	It is focus to provide remote-access to simulation-based Labs in various disciplines of Science and Engineering for students at all levels from under-graduate to research with various tools for learning, including additional web-resources, video-lectures, animated demonstrations, self-evaluation and share costly equipment and recourses.	For students to perform experiments beyond the curriculum and innovation the Project	All engineering subject domains	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO10, PO12
6	Lab facility for extended hours	For research and experimentation purpose	For improving quality of learning	For Faculty, Staff and students	All laboratory courses	PO5,PO6,PO9,PO11,PO12
7	IEEE student Chapter	Funded by IEEE	For expert lectures, webinars, seminars etc	For Faculty, Staff and students	All engineering subject domains	PO1, PO2, PO6, PO8, PO9, PO10, PO12
8	Centre of Excellence - Baba Automobile	Funded by Baba Automobile Pvt. Ltd.	For enhancing knowledge in electric vehicle domain	For students	Electric Vehicles, automation etc	PO1, PO2, PO6, PO8, PO9, PO10, PO12
9	Platform for advanced studies in Electrical Domain	MOU-Exackt Techfleeters Pvt. Ltd.	Conduction of ADD Ons/workshops/Seminars/Industrial visits etc	For students	Embedded Systems, IoT and advanced technologies	PO1, PO2, PO6, PO8, PO9, PO10, PO12
10	Platform for advanced studies	MOU- MG Motors India Private Limited	Conduction of workshops, add on programs in the area of electric vehicles	For students	Electric Vehicles, automation etc	PO1, PO2, PO6, PO8, PO9, PO10, PO12

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

Institute Marks : 10.00

Maintenance of academic infrastructure and facilities

- JECRC is equipped with full time skilled staff members for operation and maintenance of academic infrastructure, equipment and facilities.
- College technical staff is itself compatible to maintain the equipment and accessories available in laboratories, classrooms and seminar hall etc.
- The Building maintenance and Gardens are under the supervisor of state engineer.
- Regular review by the competent authority.

The officer and staff deployment for maintenance repair and services are given below

Sr. No.	Items	Name of officers	Role and Responsibilities
1	Land, Building Blocks and furniture maintenance	Mr. Yogendra Sharma	To prepare, update and maintain all land documentation, land maps and lease record, remodelling and renovation work. To maintain the physical College building block structure in a condition of operating excellence, water supply, and general fire safety
2	Building Blocks - Basic requirements and cleanliness	Mr Vijay Sharma & Mr. Vedprakash Sharma (Block Incharges)	To maintain the physical College facilities in a condition of operating excellence & supervise the cleanliness of blocks.
3	Electrical (Power Supply, AC) Maintenance	Mr. Rajesh Sharma	To monitoring and maintenance of electrical systems, repair the electrical circuits, services, powered fixtures and fittings, regular periodic inspection or calibration is recorded and up to date and promote a culture of safe working practices across the College
4	Transportation	Mr. Ravi Bhatnagar	To Schedule, coordinate and dispatch buses for bus routes, field trips and extracurricular events, bus stop conditions and student safety issues
5	Computer & Networking	Mr. Sunil Bhardwaj	To advance student success, provides reliable, relevant and secure IT services, support and resources for academic, administrative and student support services throughout College
6	Laboratory Equipment	Mr Vishwas Verma	To clean laboratory and to keep Laboratory materials including apparatus and equipment's in proper place, physical stock verification
7	Other Resource Management	Dr. R. K. Mangal	Facilitate a supportive work environment and an engaged workforce consistent with the college mission, core values, and culture

The laboratory maintenance schedule in Electrical Engineering, JECRC is as below

Sr. No	Task	Frequency Daily/Weekly /Monthly/yearly	Performed under supervision of
1	Laboratory cleaning	Daily	Supervisor
2	Checking, repairing and maintenance of measuring devices and equipments	Monthly	Lab Technician
3	Alignment, Winding and brush repairing of machines	Half Yearly	Lab Technician
4	Testing and repairing of Computer and accessories	Monthly	Lab Technician
5	Projectors and other Software facility maintenance	Monthly	Lab Technician

Overall ambience

All laboratories are equipped with state-of-the-art equipment to meet the requirements of the curriculum.

- Laboratory manuals are prepared and are available in soft and hard copy.
- All laboratories are well equipped and overall ambiance of the laboratories is good and best suited for the study and research work.
- Laboratories are flexible and available for research activities as and when required after permission form HOD.
- All laboratories have enough natural light, good ventilation, tubes, and fan arrangement.
- Any deficit of equipment/ test kit is noted at the beginning of the semester and efforts are taken to procure the same.
- Annually each laboratory is monitored for their assets and a status report is prepared.
- Some components which are obsolete are disposed from time to time.
- The overall ambience is good enough for the students to excel in their practical applications. The well-resourced laboratory in our department motivates the students to be more innovative.

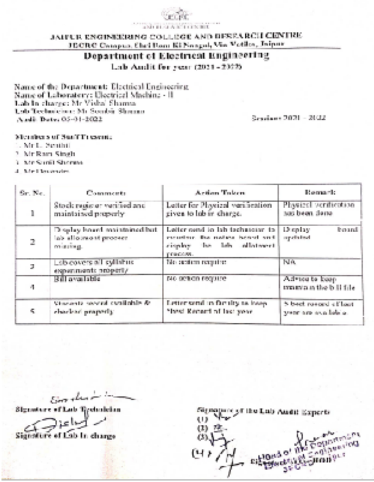
Code of conduct for the laboratories:

- 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.

Process for Conducting Maintenance and Repairs of Lab Equipment in the Department:

- **Step 1:**Concerned Lab In-Charge check the equipment of laboratory.
- **Step 2:**If the equipment is in the good condition, then ok but if the equipment is broken then Lab In-Charge with discussion of lab technician report to the Head of the Department(HOD).
- **Step 3:**Lab In-Charge prepare quotation according to requirement and discuss with HoD and then send it to vendors.
- **Step 4:**Lab In-Charge discussed with Head of the Department(HOD) about received quotations from vendors.

- **Step 5:**Lab in-Charge Intimate to the concerned supplier after obtaining sanction from Head of the Department (HOD) and Higher Authorities and all the process is done.
- **Step 6:**Concerned supplier send his technician for performing the repairing work.
- **Step 7:**After repairing work equipment is ready for performing laboratory experiments and lab incharge enters it in the relevant head in the Repair/ Maintenance stock register of the concerned laboratory, send the maintenance report to faculty In charge, the Head of the Department(HOD) recommends and forwards the bill to the administrative office disbursement.



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

Department of Electrical Engineering
Lab Audit for year (2021-2022)

Name of the Department: Electrical Engineering
Name of Laboratory: Electrical Machine - II
Lab In charge: Mr Vishal Sharma
Lab Technician: Mr [illegible] Sharma
Audit Date: 05-01-2022 Session 2021 - 2022

Members of Staff Present:
1. Mr L. [illegible]
2. Mr Ram Singh
3. Mr Sunil Sharma
4. Mr [illegible]

Sr. No.	Comments	Action Taken	Remark
1	Stock register verified and maintained properly	Letter for Physical verification given to lab in charge.	Physical verification has been done
2	Display board maintained but lab allotment process missing.	Letter send to lab technician to [illegible] the notice board and display the lab allotment process.	Display board updated
3	Lab covers all syllabus experiments properly	No action require	NA
4	Bill available	No action require	Advice to keep [illegible] in the bill file
5	[illegible] record available & checked properly	Letter send to faculty to keep [illegible] Record of last year	[illegible] record of last year are available.

Signature of Lab Technician
Signature of Lab In charge

Signature of the Lab Audit Experts
(1)
(2)
(3)
(4)

Head of the Department
Electrical Engineering
JECRC, Jaipur

Fig. 6.3.1 lab Audit for session 2021-2022

6.4 Project laboratories (5) Total Marks 5.00

Institute Marks : 5.00

The Project laboratory in the department are as follows:

S. No.	Name of Laboratory	Name of Equipment/software	Utilization
1.	Energy system Laboratory	1. Embedded System 2. MATLAB (Software) 3. Protieus Software (online) 4. DC Micro Voltmeter	16hrs
2.	100 kW Roof Top Solar Plant	1. Solar Photovoltaic Module 2. Frequency Meter 3. Regulated DC Power Supply Unit	16hrs
3.	Power electronics and drives Laboratory	1. Multipurpose Kit 2. Siemens PLC Industrial Automation Project 3. Isolated and regulated DC power supply 4. Inverter (Industrial Project) 5. Power Project Board	16hrs
4.	BABA Automobile / EHV Laboratory	1. Prototype Model of Electric & Hybrid vehicle 2. Battery Bank 3. Controller Circuit 4. Inverter	16hrs
5.	Simulation Laboratory	1. MAT LAB	16hrs

Project Details: 2021-2022 (Sample)						
Group No	Name of student	Program	Title of project	Project Guide	Type	Relevance with Pos/PSOs
G1	18EJCEE003	ANISH JAIN	Electric Vehicle Work Bench for Two Wheeler	Mr Gopal Tiwari	Hardware based & Environment friendly	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE020	GOURAV SHARMA				
	18EJCEE042	MANISH PARIHAR				
	18EJCEE018	GAURANG PAREEK				
	18EJCEE034	KISHAN KUMAR MEENA				
G2	18EJCEE004	ANSHUL BANSAL	Parameter Fencing Security System	Mr Gopal Tiwari	Software & Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE024	HARSHITA JAMER				
	18EJCEE045	MILIND KUMAR				
	18EJCEE019	GAUTAM KUMAR				
	18EJCEE035	KUNDAN NAGAR				
G4	18EJCEE010	AYUSH ASWAL	Automatic Vehicle Accident Detection and Speed Alert System in Various Zones	MsJisha Varghese	Hardware & Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE026	JAIDEEP GURJAR				
	18EJCEE005	ANSHUMAN SHARMA				
	18EJCEE022	HARSHIT JAIN				
	18EJCEE043	MANOJ VAISHNAV				
G5	18EJCEE011	BHANU SWARNKAR	Designing a GSM Based Voltage Regulating Module for 3 –Phase System	Mr Vishal Sharma	Analytical & Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE027	JASWANT SINGH				
	18EJCEE006	ANURAG BOHARA				
	18EJCEE028	JAWWAD HABIB				
	18EJCEE001	AMAN PAREEK				
G6	18EJCEE013	BHUPESH GOYAL	Single Stage Extendable modified H-Bridge inverter	Mr L. Senthil	Analytical Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE031	KARTIK YADAV				
	18EJCEE007	ARJUN SHARMA				
	18EJCEE029	KAPIL GOYAL				
	18EJCEE023	HARSHIT TIWARI				
G9	18EJCEE016	DIPENDRA CHHABA	Operation of DC-DC Converter integrated with PV system	Ms Neha Agrawal	Analytical & Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE039	MANISH GODARA				
	18EJCEE017	DIVYANSH GAUTAM				
	18EJCEE033	KHAGESH KUMAR GAUR				
	18EJCEE044	MEHUL KUMAWAT				

G12	18EJCEE054	PARUL DHAYAL	Contactless Charging of Electric Vehicle	MsNupur Yadav	Analytical &Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6,PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE079	SHUBHAM MITTAL				
	18EJCEE051	NIDANT SHARMA				
	18EJCEE071	ROHIT CHAPOLA				
	19EJCEE202	ASHWIN SHARMA				
G13	18EJCEE056	PIYUSH SONI	Solar Powered Smart Agriculture Monitoring System	MsNupur Yadav	Hardware based & Environment friendly	PO1, PO2, PO3, PO4, PO5, PO6,PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE082	TUSHAR HEMNANI				
	18EJCEE055	PIYUSH GUPTA				
	18EJCEE074	SHASHANK SHARMA				
	19EJCEE203	NITESH SINGH RATHORE				
G14	18EJCEE061	RAGHAV BHARDWAJ	Smart Wi-Fi Enabled monitoring for Hybrid Power Generation and Controlled Battery Charging System	MrShailendra Srivastava	Hardware based & Environment friendly	PO1, PO2, PO3, PO4, PO5, PO6,PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE085	VIBHA YADAV				
	18EJCEE057	PRADUMAN SINGH RAJAWAT				
	18EJCEE078	SHUBHAM JAYANT				
	19EJCEE204	PRANSHU PAREEK				
G15	18EJCEE064	RAJAT SHARMA	Water level Management Using Ultrasonic sensor and Arduino	MsRituSoni	Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6,PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	18EJCEE086	VIDHI SHARMA				
	18EJCEE058	PRAVEEN PARIHAR				
	18EJCEE080	TANISHK CHOUDHARY				
	19EJCEE205	RAMESH CHAND BAIRWA				

Project Details: 2022-2023 (Sample)

GROUP NO	RTU ROLL NO	NAME	GUIDE	TOPIC	TYPE	Relevance with Pos/PSOs
G2	19EJCEE038	GAURAV SHAKYA	Mr Ashok Singh Chundawat	Design of Electric vehicle Model using MATLAB and SIMULINK	Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	19EJCEE035	DIVYANSHU SHARMA				
	19EJCEE015	ANKIT SONI				
	19EJCEE029	DEEPANSHU AGARWAL				
	19EJCEE007	ABHISHEK SHUKLA				
G3	19EJCEE004	ABHISHEK PAHADIYA	Mr. Vishal Sharma	Electrical Department Website	Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	19EJCEE006	ABHISHEK SHARMA				
	19EJCEE018	ARYAN KHATRI				
	19EJCEE040	HARSH BHADAURIYA				
	19EJCEE051	KUSHAL KANUNGO				
G5	19EJCEE009	AKSHAT SANKHLA	Dr. Prerak Bharadwaj	Solar EV Charging Station	Environment Friendly and Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	19EJCEE013	AMIT KUMAR				
	19EJCEE031	DEEPESH KUMAR KOLI				
	19EJCEE036	DIYA PORWAL				
	19EJCEE046	JAY PRAKASH VISHNOI				
G6	19EJCEE019	ASHISH GUPTA	Mr. ShailendraShrivastava	Design of three level flying capacitor multilevel inverter	Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	19EJCEE023	ASHOK BAIRWA				
	19EJCEE026	CHIRAG PORIWAR				
	19EJCEE041	HARSHIT AGARWAL				
	19EJCEE052	LAKHAN SHARMA				
G10	19EJCEE010	AMAN KUMAR TRIVEDI	Ms. Neha Agarwal	Solar panel based grid tie inverter using Microcontroller	Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	19EJCEE014	ANIKET SHARMA				
	19EJCEE045	JASWANT MAHAWAR				
	19EJCEE053	LAVISH PARETA				
G12	19EJCEE081	RAJVEER SINGH	Mr Gopal Tiwari and Mr. Ram Singh	EV Range Prediction system using Machine learning	Software and hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	19EJCEE090	SARTHAK JOSHI				
	19EJCEE092	SHALINI FATEHPURIYA				
	19EJCEE095	SUDHANSHU CHOURSIYA				
	19EJCEE099	TANUJ RAWAT				

G13	19EJCEE058	MARUT SHARMA	Mr Rahul Kumar Malee and Mr. Ram Singh	Solar based charging station for electric vehicle	Hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	19EJCEE067	NITIN KUMAWAT				
	19EJCEE088	SANJAY KASWAN				
	19EJCEE105	VIVEK SHYARA				
	19EJCEE109	YUVRAJ SINGH GOUR				
	20EJCEE201	ANKITA CHOUHAN				

Project Details: 2023-2024 (Sample)

GROUP NO	RTU ROLL NO	NAME	GUIDE	TOPIC	TYPE	Relevance with Pos/PSOs
G3	20EJCEE036	HARSHVARDHAN SAINI	Dr Pooja Sharma	Smart Plant Monitoring System	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE017	ARYAN JANGID				
	20EJCEE037	HITESH PRAJAPAT				
	20EJCEE029	DIVYAM DWIVEDI				
	20EJCEE033	GOURAV MEHRA				
G6	20EJCEE045	KIRTI NAMA	Mr Shailendra Srivastava	IOT based Paralysis Patient Monitoring System	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE044	JYOTI KAUSHIK				
	20EJCEE007	ABHISHEK KUMAR				
	20EJCEE016	ARUN CHANDRA				
	20EJCEE010	AKSHAT BHARDWAJ				
G7	20EJCEE014	ANJALI Naruka	Dr Prerak Bhardwaj	EV Charger	Software and Analytical Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	20EJCEE005	ABHISHEK GOYAL				
	20EJCEE022	AYUSH SINGH				
	20EJCEE009	ADITYA MAHESHWARI				
	20EJCEE031	DRASHTI VIJAY				
G8	20EJCEE032	GAURAV JINDAL	Mr L. Senthil	Matrix headlights to reduce road accidents	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE024	CHANDRABHAN SINGH				
	20EJCEE011	AMAN BALODIA				
	20EJCEE008	ADITYA KUMAR				
	20EJCEE049	LOKESH KUMAR				
G14	20EJCEE075	SANSKRITI MITTAL	Dr Vikram Singh	Creating a Salary prediction Model	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE095	YUVRAJ SINGH				
	20EJCEE082	SUNNY SALVI				
	20EJCEE053	MOHIT AGRAWAL				
	20EJCEE088	VARUN SHARMA				
G16	20EJCEE089	VIKASH CHOUDHARY	Mr Gopal Tiwari and Mr Ram Singh	IOT based Power Consumption Monitoring	Analytical, Software and hardware Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE093	YASH MANTRI				
	20EJCEE081	SUMIT HANDA				
	20EJCEE080	SIDDHARTH JAIN				
	20EJCEE059	PIYUSH KUMAWAT				
	20EJCEE057	PAWAN KUMAR				
	20EJCEE073	SAKSHI SAROTIYA				
G17	21EJCEE201	KSHITIZ RATHI	Mr Gopal Tiwari	Energy Performance Analysis of JECRC College B Block: A comparative Study Using eQuestSotware	Social, Analytical and Software Based	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	20EJCEE087	UTKARSH MATHUR				
	20EJCEE056	NITISH JAIN				
	20EJCEE092	VIVEK KUMAR				
	20EJCEE083	TANUSHREE BHARADWAJ				

Fig. 6.4 (A) Student Project on Electric Vehicle

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Basic Electrical Engineering Laboratory	1. Laboratory regulation and Safety rule 2. Dos and don'ts display in the laboratory 3. First Aid Box 4.Fire Extinguisher 5. Electric shock: First Aid Procedure 6. Proper earthing in Experimental setup
2	Analog Electronics Laboratory	1. Laboratory regulation and Safety rule 2. Dos and don'ts display in the laboratory 3. First Aid Box 4.Fire Extinguisher 5. Electric shock: First Aid Procedure 6. Proper earthing in Experimental setup
3	Electrical Machine Laboratory I & Electrical Machine Laboratory II Lab	1. Laboratory regulation and Safety rule 2. Dos and don'ts display in the laboratory 3. First Aid Box 4.Fire Extinguisher 5. Electric shock: First Aid Procedure 6. Proper earthing in Experimental setup 7. Proper earthling in Experimental setup 8.Hand Gloves 9. Student maintains sufficient distance from the rotating part of the machines. 10. Brake drum must be cooled down by using water while performing the load test, otherwise it will damage the belts 11. Proper rating of MCB installed in each experimental table 12. Rubber mat
4	Electrical circuit design Laboratory	1. Laboratory regulation and Safety rule 2. Dos and don'ts display in the laboratory 3. First Aid Box 4.Fire Extinguisher 5. Electric shock: First Aid Procedure 6. Proper earthing in Experimental setup 7. Proper rating of MCB installed in each experimental tables
5	Power Electronics Laboratory	1. Laboratory regulation and Safety rule 2. Dos and don'ts display in the laboratory 3. First Aid Box 4.Fire Extinguisher 5. Electric shock: First Aid Procedure 6. Proper earthing in Experimental setup 7. Proper rating of MCB installed in each experimental tables
6	Electrical Measurement Laboratory	1. Laboratory regulation and Safety rule 2. Dos and don'ts display in the laboratory 3. First Aid Box 4.Fire Extinguisher 5. Electric shock: First Aid Procedure 6. Proper earthing in Experimental setup

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	2.80	1.87	Attainment level is 66.78% of the target level. Courses like mathematics, Analog electronics, EMFT, electronic measurement and instrumentation, signal and systems have not attained target value. Students are not able to apply basic knowledge of mathematics, science, engineering fundamental.
Action Taken 1. Offering additional practice for unsolved problems from text books and previous RTU exam papers. 2. Conducting more tutorials specifically for lateral entry students. 3. Mentoring students having difficulty and understanding the subjects. 4. Industrial visits to RRVPNL 400 KV GSS Sitapura, Jaipur to create basic understanding of machines, electrical power instruments and their operation. 5. Add on Course on Automation, Embedded system and IOT based smart system are organized. 4. Add on Course on “A fundamental course on embedded system” are organized 5. 5th National Conference on ‘Recent Trends and Smart Technologies in Electrical Engineering-2023 to enhance their understanding and vision.			
PO 2 : Problem Analysis			
PO 2	2.47	1.65	Attainment level is 66.80% of the target level. Focus on key subjects: Analog and Digital Electronics, Electrical Measurements and Instrumentation, EMFT, Electrical Machines I, Control Systems I, Power Generation Process, and Electrical Machines as achieved targets are average and low in these subjects. This can significantly enhance the problem-solving and analytical skills, which are crucial for success in our field.
Action Taken 1. Both regular and lateral entry students often struggle with mathematics and EMFT. To combat this, increasing the number of numerical problems tackled in class and providing additional assignments. 2. Mentoring students in navigating a wealth of online study materials, including engaging self-paced MOOCs. Many students have already benefited from participating in NPTEL courses 3. Providing additional problem sets designed to foster deeper understanding and problem-solving capabilities and also prioritizing the enhancement of critical thinking skills within our curriculum, empowering students to analyze complex problems effectively and develop innovative solutions for the challenges they face. 4. 6th National Conference on ‘Recent Trends and Smart Technologies in Electrical Engineering-2023 to enhance their understanding, analytical skills and vision.			
PO 3 : Design/development of Solutions			
PO 3	2.16	1.41	Level achieved is 65.27% of the target value. Most subjects have not attained the target level. Students lacks in analytical skills in subjects like mathematics, EMFT etc to solve the problems. This will affect the attainment level to remain low.
Action Taken: 1. Offering extra classes specifically designed for struggling students and those joining mid-course, ensuring everyone receives the support they need to succeed. 2. Including hands-on practice through engaging in expert lectures, extra classes, virtual labs, and supplementary practical sessions, and technical events like technocracy greatly enhancing student comprehension and skills. 3. 6th National Conference on ‘Recent Trends and Smart Technologies in Electrical Engineering-2023 to enhance their understanding, analytical skills towards finding the solution. 4. Add on Course on Automation, Embedded system and IOT based smart system are organized to enhance their understanding. 4. Add on Course on “A fundamental course on embedded system” are organized to broaden their knowledge.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.97	1.27	64.46 % level of the target value is attained. Students have lack of patience and analytical skills to work on research-oriented solutions for complex problems.
Action Taken: 1. Enhancing laboratory experiences and project work by providing invaluable hands-on opportunities for students. 2. Implementing virtual laboratory experiments and simulations using a range of open-source software to broaden learning horizons. 3. Motivating students to carry thorough literature surveys, analyze data, and effectively synthesize their insights during their project assessments. 4. Organizing 6th National Conference on ‘Recent Trends and Smart Technologies in Electrical Engineering-2023 to enhance their understanding, analytical skills towards finding the solution.			
PO 5 : Modern Tool Usage			
PO 5	1.80	1.42	Level attained is 78.88 % of the target level. Up-gradation of tools and resources are necessary to meet the industry standards and research
Action Taken 1. Encouraging students to focus on modern software and online tools available for all courses, as these resources can significantly enhance their learning experience. 2. Inviting students to actively engage in various self-paced courses, which provide valuable insights into real-time tools used in the industry. 3. Attending expert lectures featuring industry leaders who will share their knowledge on the latest tools being employed in the real world, ensuring you're prepared for future challenges. 4. Organizing one day workshop on substation components and its applications to enhance the knowledge of students in the area of their application and their use in recent times with integration of IOT. 5. Organizing 6th National Conference on ‘Recent Trends and Smart Technologies in Electrical Engineering-2023 to enhance their understanding in taking use of the modern tools to find the solutions of the real-world problems.			
PO 6 : The Engineer and Society			
PO 6	1.86	1.20	Level attained is 64.51 % of the target level. Inadequate knowledge in the application of engineering practice technique.
Action Taken: 1. To achieve a higher level of attainment, orientation programs, extension activities, and seminars are conducted to raise awareness of electrical safety. 2. Identifying the critical barriers that hinder our target, such as the lack of focus on social and ethical considerations, insufficient student engagement with real-world societal issues, and minimal opportunities for community service and outreach. Addressing these issues is vital for fostering a more socially aware generation. 3. Students are motivated to participate in social activities such as Soch, Zarurat, Aashayein, NSS, etc. These experiences will empower them to understand and tackle different societal issues, ultimately enriching their education and building a more compassionate community. 4. Active participation of students in different technical, non-technical and extra-curricular activities organized by IEEE and Glectra club of students. 5. Organizing the industrial visits like saras dairy and 400 kV GSS to enhance the knowledge and observations of students to deal in real time situations.			
PO 7 : Environment and Sustainability			
PO 7	1.78	1.02	57.30 % level is obtained that of target value Lack of awareness in understanding the impact of professional Engineering solutions
Action Taken: 1. Students are actively encouraged to pursue projects centered on environmental issues, fostering a hands-on approach to learning. 2. Organizing expert lectures and seminars on engineers day and teachers day to raise awareness among students about environmental challenges and the vital principles of sustainable development. 3. The significance of sustainable development is emphasized throughout course sessions, ensuring students grasp its relevance in today’s world. 4 Organizing the add on programs on EV design using MATLAB to understand the need of the EV in present scenario's and shifting of the paradigm from the comustion based engines to EV's.			
PO 8 : Ethics			
PO 8	1.59	0.91	Attainment is 57.23% of target value. Create responsibilities on engineering ethics to engineers

Action Taken: 1. It is essential for students to commit to ethical practices in seminars, projects, report writing, and their future professional endeavours so that they can cultivate integrity and professionalism. 2. Organizing expert lectures that will delve into various standards, codes, and professional ethics, empowering students with the knowledge they need to succeed. 3. Organizing the delivery related to ethics through the human values courses in their curriculum and during the mentoring session of the students. 4. Organizing the add on programs on Fundamental courses on C and C++ and automations that fetch the young minds to understand about the ethics required to operate and find the solutions of the real-world problems.			
PO 9 : Individual and Team Work			
PO 9	1.75	1.16	Attainment is 66.28% of target value. To be observed in laboratory, project, seminar work, group discussion, etc.
Action Taken: 1. Encouraging students to participate in college fest. 2. Engaging group assignments and lively discussions will be organized within student chapters, fostering collaboration and teamwork. 3. It is essential for students to understand the impact of these experiences on their project work and future professional endeavours. 4. Organizing the technical events, add on courses, conferences, seminars and tutorials to enhance their understanding about the importance of the team and reaching to their specified goals.			
PO 10 : Communication			
PO 10	1.98	1.18	Attainment level is 59.59 % of target level. Courses like project, seminar, presentations in class, various technical, non-technical and extra-curricular activities contribute to this PO. Motivation is required for the students to participate in above mentioned events and practices.
Action Taken: 1. Engaging students in presentations, group discussions, and mock interviews to significantly boost their confidence and proficiency in communication. 2. Encouraging students to take part in paper and poster presentations, as well as various co-curricular activities, to refine their skills and showcase their abilities. 3. Soft skills trainings are provided to students.			
PO 11 : Project Management and Finance			
PO 11	1.68	1.06	Attainment level is 63.09 % of target level. Create knowledge in management aspects for multidisciplinary environments.
Action Taken: 1. Organizing different workshops and seminars to enhance learning experience. 2. Encouraging students to focus more on project planning, cost estimation, and execution—essential skills for future success. 3. Motivating students to actively participate in placement drives hosted by the institute, opening doors to valuable opportunities.			
PO 12 : Life-long Learning			
PO 12	2.38	1.63	Attainment level is 68.48 % of target level. Inadequate participation in technical and non technical activities.
Action Taken: 1. Encouraging students to understand the crucial importance of self-learning and the necessity of finding resources independently. 2. Students are encouraged to participate more in social activities. 3. Encouraging students to actively participate in various technical and non-technical events and competitions to sharpen their skills and expand their opportunities.			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Graduates are able to contribute for the development of automation.			
PSO 1	1.88	1.30	Attainment level is 82.41 % of target level Require innovative knowledge in automation.
Action Taken: 1. ADD on course on EV design using Matlab are being organized. 2. ADD on courses on Automation, Embedded system and IOT based smart system have been provided to students to enhance their knowledge of automation. 3. Students are encouraged to make more hardware projects. 4. Organizing the Industrial visit to saras diary and 400 kV GSS is planned.			
PSO 2 : Graduates are able to contribute towards integration of the green energy.			
PSO 2	1.67	1.14	Attainment level is 83.33 % of target level Adequate awareness and knowledge about sustainability in green energy.
Action Taken: 1. Students were motivated to do mini projects and projects using advanced engineering tools. 2. Students were motivated to participate in workshops and seminars related to integration of green energy. 3. Students are encouraged to take up renewable energy-based hardware projects.			

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

Institute Marks : 10.00

ACADEMIC AUDIT

JECRC has established IQAC where documents are submitted by every department. The departments of any institution serve as the foundation of its core operations, where vital activities like teaching, research, and service come to life. By prioritizing the enhancement of program quality and ensuring that graduate attributes align with the defined objectives of each department, academic audits play a crucial role in evaluating and improving the effectiveness of departmental processes and procedures.

The main focus of the academic audit is on the following areas

1.Establishing clear course and program outcomes is essential for success. By designing impactful teaching and learning processes, we can engage students more effectively.

2.Implementing outcome-based student assessments ensures that we accurately measure and enhance learning achievements

3.Assuring implementation of quality education - significant activities such as research and services, co- curricular and extracurricular activities to support program outcomes.

Objectives of Academic Audit

1. To enhance the teaching and learning process and to ensure quality of technical education throughout the system

2. To take care functionalities of technical education.

3. To provide feedback mechanism used for assessing the performance of teachers by students and for curricular development.

Process of Academic Audit

The Academic audit team is finalised by DQAC **The academic audit process is conducted as follows**

1. **Internal Audit**
2. **External Audit**
3. **Lab Audit**

1. **Internal Audit**

- The Audit team consist of intra department faculty members.
- Schedule of internal audit is prepared in which the auditors and auditees of concerned laboratory are informed.

The Process involved in internal audit are as follows

Sr.No	Observation
1	All Academic process (Notices and Minutes of meeting)
2	Course File/ Lab Files of faculty members
3	PO, PEOs, CO and PSO's Feedback from stakeholders
4	CO-PO Mapping and CO-PSO Mapping
5	Student feedback analysis
6	Industry feedback analysis
7	Alumni feedback analysis
8	Remedial Lectures
9	Advance Learners
10	Efforts taken for Slow learners & Advance learners
11	Add on Courses
12	Seminars/Guest Lectures
13	Social Activities/ Ethical / Moral value education
14	Higher Education data
15	Internship data
16	Student final year project
18	All files (Sample tested)
19	Previous Students punched old files, exam record
20	Budget details
21	Departmental Library details
22	FDP/Publications
23	Curricular and co-curricular activities
24	Teaching/ Non-teaching appraisal review

2. External Audit

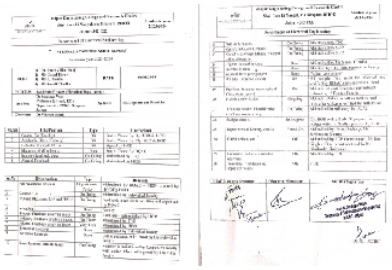
- The Audit team consist of Internal and external members.
- Schedule of external audit is prepared through which the external auditors and auditees (department faculty) are informed.

The Process involved in external audit are as follows

Criterion	Process
1.Curriculum	Steps followed in the designing of syllabus & curriculum
	Contents of the Curriculum
	Validation done
	Enterpreneur Development Cell (EDC)
	Credits allotted / distribution– logic
2. Curriculum Transaction	Teaching methods & teaching aids
	E-learning modules
	Project work
	Internal assessment –components – Uniqueness
	Student support – remedial coaching
	Parents Meeting –evaluation of student's progress
	Feedback from students
	Steps taken on the feedback
3.Faculty Profile	Projects completed / on going
	Seminars / conferences attended
	Papers published
	FDP / Training Program / Workshop
	Preparation of E-learning materials / Content
4.Profile of Students	Demand ratio (Applications received Vs Sanctioned Strength)
	Students involvement in extra-curricular & Co-curricular activities
	Study tour / industrial visits /exhibitions / Internship /Training
5. Infrastructure in the Department	No. of class rooms/ No. of laboratories
6. Activities of the Department	MoU's signed/ Consultancy/ Collaborations/ Association Meetings
	Guest lectures/Conference / Seminar /Workshop conducted
	Extension Activity / Interaction with Industry /Research Centres /Educational Institutions
	Newsletters / Magazine
	Placement

3. Lab Audit

- The Audit team consist of intra department faculty members, Lab Incharge of the concerned lab, and Lab Technician
- It basically focuses on Lab operations, testing accuracy, and facility standards.



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

Institute Marks : 10.00

7.3.1 Placement : Number, Quality placement,Core Industry,Pay Package etc.

About Training and Placement Cell:

The **Placement Cell** at **Jaipur Engineering College and Research Centre** is a dedicated department committed to preparing students for successful careers and connecting them with leading organizations across various industries. Known for its excellent placement track record, the cell works diligently to ensure students are industry-ready and have ample opportunities to secure their dream jobs. By establishing strong partnerships with top companies, the Placement Cell facilitates campus recruitment drives, internships, and industrial visits, creating platforms for students to showcase their skills.

A key component of the Placement Cells success is its comprehensive **Placement Training** programs. These programs are designed to enhance students employability by equipping them with essential technical and interpersonal skills. The training covers a wide range of areas, including aptitude tests, group discussions, mock interviews, communication skills, and domain-specific knowledge. Experienced trainers and industry experts conduct these sessions, ensuring students gain practical insights and confidence to excel in recruitment processes.

The Placement Cell also encourages students to explore emerging career opportunities and entrepreneurial ventures. With a focus on holistic development, the cell ensures that students are not just job-ready but also adaptable to the evolving demands of the professional world. JECRC's Placement Cell thus plays a transformative role in shaping the futures of its students.

S. No.	Year	Total No of Students	Total No. of Students Placed	Percentage of Students placed
1	2021-22	95	88	92.63%
2	2022-23	102	98	96.07%
3	2023-24	86	82	95.34%

Table 7.3.1.1: Placement Details

S. No.	Year	Highest package
1	2021-22	6.5 LPA
2	2022-23	17.5LPA
3	2023-24	7.1LPA

Table 7.3.1.2: Placement Quality

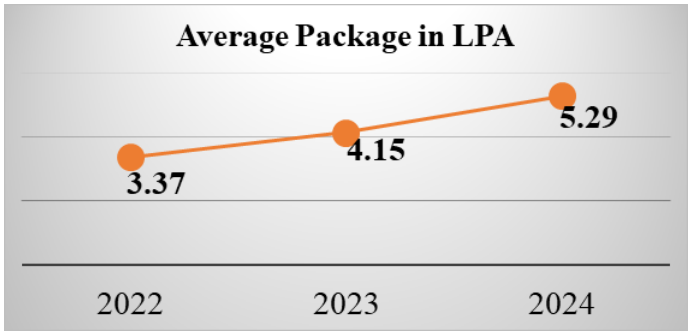


Figure.7.3.1.1 Average Package

Year	2022	2023	2024
1	Pinnacle InfoTech	Pinnacle InfoTech	Pinnacle InfoTech
2	Samsung	Genus Power	Genus Power
3	Upflairs	TATA Power	ASC International
4	Continental Engineers	Matheshwari UT	EV Clinic
5	E-Ashwa Automotive		RJ Solar
6			Papriwal
7			D2O
8			E- Oxigen
9			Honda Cars

10	Tesca Technologies
11	TATA Power

Table 7.3.1.3: Core Copanies Visited

7.3.2 Higher studies: performance in GATE, GRE, GMAT, CAT etc.,

Year	2021-22	2022-23	2023-24
Total No of Students Pursuing Higher Studies	03	01	01

Table 7.3.2.1: Higher Studies

Year	Total no of GATE qualified students	Total no of CAT qualified students	Total no of GRE qualified students	Total no of GMAT qualified students
2021-22	04	1	0	0
2022-23	1	0	0	0
2023-24	3	0	0	0
Year	Highest GATE Score/Rank	Highest CAT Score/Rank	Highest GRE Score/Rank	Highest GMAT Score/Rank
2021-22	2474	40.84/87	0	0
2022-23	1165	0	0	0
2023-24	2000	0	0	0

Table 7.3.2.2 Performance in GATE, GRE, GMAT, CAT

7.3.3 Entrepreneurs

The JECRC Incubation Centre is a dynamic platform designed to nurture innovation, entrepreneurship, and creativity among students and aspiring entrepreneurs. It provides a supportive ecosystem with state-of-the-art facilities, mentorship from industry experts, and access to funding opportunities. The center encourages innovative ideas across diverse domains, guiding individuals from ideation to implementation. Through workshops, networking events, and collaboration with industry partners, the Incubation Centre helps transform ideas into successful startups. Its mission is to empower students to become job creators rather than job seekers, contributing to the broader entrepreneurial landscape and fostering a culture of innovation at JECRC.

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	7	8	11
JEE Mains (After Senior Se	Opening Score/Rank	61814	112025	5786
	Closing Score/Rank	698628	528419	711554
State/ University/ Level Entrance Examination/ Others	No of students admitted	9	8	11
REAP	Opening Score/Rank	249	1335	4264
	Closing Score/Rank	601343	6330	40017
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	2	3	5
	Opening Score/Rank	0	0	0
Lateral Entry Details	Closing Score/Rank	0	0	0
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		48	18	35

8 FIRST YEAR ACADEMICS (50)

Total Marks 45.45

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			
Barkha Shrivas	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 functions	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 functions	Associate Professor	02/01/2017	100	100	100	Yes	Regular	
Vishal Saxena	BJQPS6740B	M.Sc. and PhD	24/04/2012	Special Functions	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	Semiconductig thin film	Professor	31/07/2013	100	100	100	Yes	Regular	
Manoj Pathak	AZXPP0888K	M.Sc. and PhD	17/12/2022	Semiconductig Materials	Associate Professor	10/08/2000	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	MA	01/07/1990	Industrial 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	28/10/2020	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	04/10/2006	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	ElectricalEngineering	Assistant Professor	17/08/2007	100	100	100	Yes	Regular	
PraveenGoyal	AWIPG6475H	B.E/B.Tech	12/12/2013	ElectricalEngineering	Assistant Professor	13/07/2016	100	100	100	Yes	Regular	
Suresh Gurjar	EBWPS2540L	B.E/B.Tech	19/03/2016	ElectricalEngineering	Assistant Professor	10/09/2020	100	100	100	Yes	Regular	
Yogendra kuma	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	Mechganical 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
Rekha Mithal	BCEPM3790G	M.Sc. and PhD	15/01/2008	Inorganic Chemistry	Professor	16/01/2008	100	100	100	Yes	Regular	
Shalini Kulshre	AIGPK2859R	M.Sc. and PhD	26/08/2003	Applied Chemistry	Professor	18/01/2024	100	0	0	Yes	Regular	
Yaghvendra Ku	APKPK8239A	M.Sc. and PhD	27/09/2011	Fractional Calculus	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 Bansa	APGPB2872J	M.E/M.Tech	21/09/2015	Production Engineering	Assistant Professor	02/01/2017	100	0	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
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	AGVPG7205J	M.E/M.Tech	22/07/2014	Mechanical Engineering	Assistant Professor	17/09/2017	0	100	100	No	Regular	12/07/2024
Madhu Ch	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	13/08/2023
Ghanshyam	BZGPG0170F	B.E/B.Tech	01/01/2020	Civil Engineering	Assistant Professor	16/11/2020	100	100	100	No	Regular	12/04/2024
Shibu Joy	AFYPJ5494G	MBA	01/07/2007	HR	Assistant Professor	20/12/2022	100	100	0	Yes	Regular	
Shridhar Kuma	BYXPP5934J	MA	15/02/2019	HR	Assistant Professor	20/12/2022	100	100	0	Yes	Regular	
Krishna Kumar	CJFPS0681D	MA	20/03/2015	Humanities	Assistant Professor	16/01/2023	100	100	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	
Ruchi Sharma	BRQPS9012J	ME/M. Tech and PhD	22/02/2018	VLSI and ES	Professor	10/07/2023	100	0	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
Pradeep Kuma	AZZPK7939A	M.Sc. and PhD	13/12/2011	Condenced Matter	Associate Professor	14/04/2023	100	0	0	Yes	Regular	
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	Assistant Professor	20/01/2016	100	0	100	Yes	Regular	
Noopur Bharga	APUPB2240Q	MBA	31/07/2010	HR	Assistant Professor	19/08/2020	0	100	100	No	Regular	20/11/2023
Preeti Garg	CUBPG6564Q	MBA	08/12/2011	HR	Assistant Professor	19/08/2020	0	100	100	No	Regular	10/10/2023
Kamakshi Nag	AZHPN4017E	MBA	21/08/2019	HR	Assistant Professor	20/08/2020	0	100	100	No	Regular	23/11/2023
Kartik Saini	GAXPS0339K	MBA	06/01/2018	HR	Assistant Professor	08/04/2021	0	100	100	No	Regular	20/09/2023
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	24/06/2017	Material Science	Assistant Professor	08/03/2020	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	
Lalit Kumar Sh	BQSPS3044K	M.E/M.Tech	07/10/2023	Manufacturing system engineering	Associate Professor	13/08/2007	100	100	0	Yes	Regular	
Saroj Parihar	FFHPS5593M	MA	18/09/2018	English	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 7.45

Institute Marks : 7.45

Academic Performance	2023-24	2022-23	2021-22
Mean of CGPA or mean percentage of all successful students(X)	6.51	6.36	9.48
Total Number of successful students(Y)	28.00	41.00	82.00
Total Number of students appeared in the examination(Z)	28.00	41.00	82.00
API [X*(Y/Z)]	6.51	6.36	9.48

Average API[(AP1+AP2+AP3)/3] : 7.45

Assessment [1.5 * Average API] : 7.45

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:

Performance: during the semester
Lab record preparation: Record of all performed experiments
Viva Voce/Quiz: conducted during the semester
Attendance and Punctuality in 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

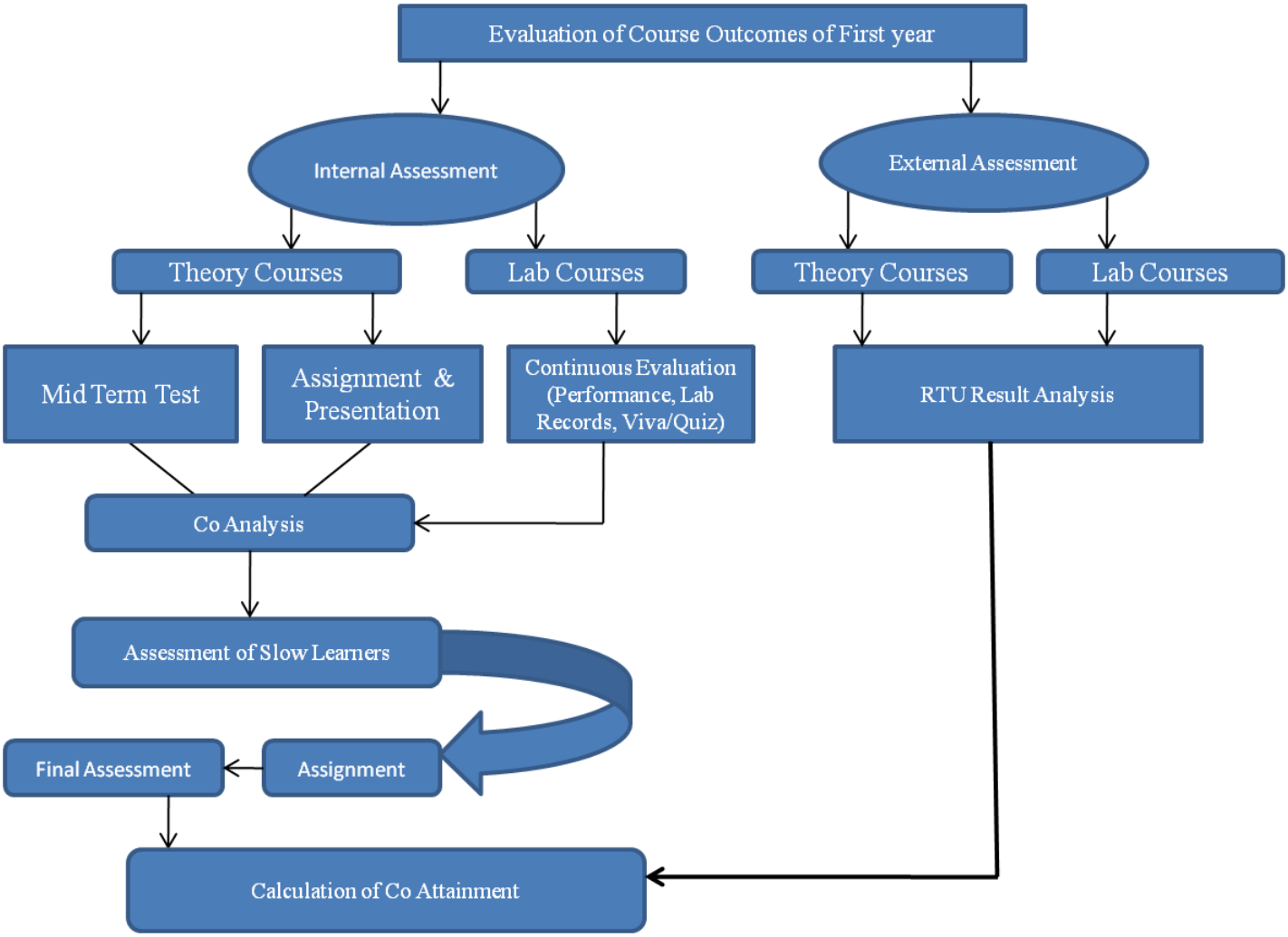
The final calculation of CO attainment for practical courses, consists of 40% component for the external examination and 60% component for the internal examination as per the RTU scheme.

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

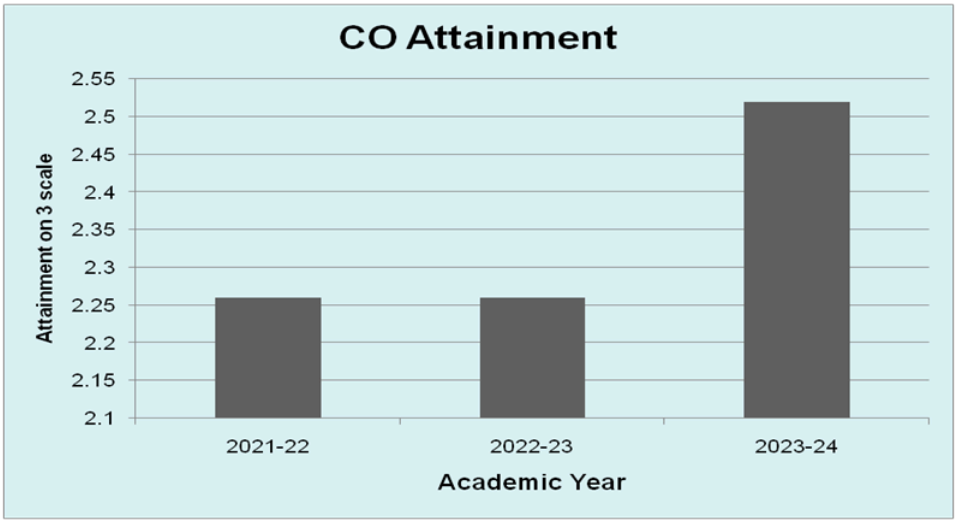
CO ATTAINMENT FOR YEAR 2022-23

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	1FY2-22	Language Lab	3
13	1FY2-23	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
1FY3-08/2FY3-09	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	1	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
Direct Attainment	2.5	1.82	1.56	1.3	1.6	1.58	1.64	1.89	1.82	1.72	1.5	1.32
CO Attainment	2.5	1.82	1.56	1.3	1.6	1.58	1.64	1.89	1.82	1.72	1.5	1.32

PSOs Attainment:

Course	PSO1	PSO2
1FY2-01	1	1
1FY2-02/2FY2-02	1	1
1FY2-03/2FY2-03	0	1
1FY1-04/2FY1-04	0	0
1FY1-05/2FY1-05	0	0
1FY3-06/2FY3-06	1	0
1FY3-07/2FY3-07	1	1
1FY3-08/2FY3-08	3	1
1FY3-09/2FY3-09	0	1
1 FY2-20/2 FY2-20	0	1
1 FY2-21/2 FY2-21	0	0
1 FY1-22/2 FY1-22	1	0
1 FY1-23/2 FY1-23	0	0
1FY3-24/2FY3-24	1	0
1FY3-25/2FY3-25	1	0
1FY3-26/2FY3-26	3	1
1FY3-27/2FY3-27	0	0
1FY3-28/2FY3-28	1	0
1FY3-29/2FY3-29	1	0
2FY2-01	1	1
PSO Attainment	1.33	1

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.33	1

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:The awareness and understanding related to global and environmental issues need to be improved			
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: Studentswere 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 : Graduates are able to contribute for the development of automation.			
PSO 1	.64	.48	Students must gain more knowledge about automation.
Students were encouraged to build project on automation. Students were encouraged to attend hands on training on automation.			
PSO 2 : Graduates are able to contribute towards integration of the green energy.			
PSO 2	.49	.32	Needs improvisation in understanding the latest development about green energy.
Students were motivated to attend special lectures on green energy. Students were encouraged to review research articles on green energy.			

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

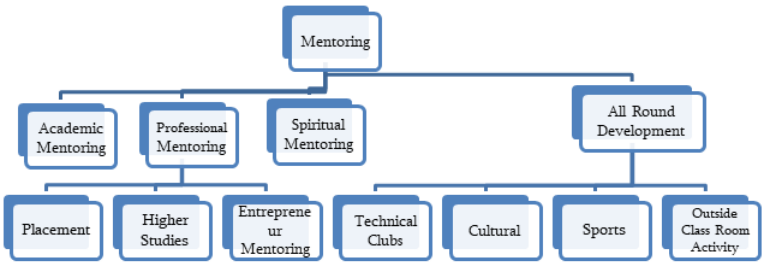


Fig 9.1a: Professional Guidance/Career Advancement

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 and placement.

- 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.

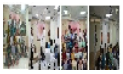
S.No.	Activity Name	Link
1	PARICHAY- Orientation '22	https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/JIC-2022-2023.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/JIC-2022-2023.pdf)
2	STARTUP Conclave	
3	Incubation Program - Empowering Entrepreneurship at JECRC	
4	Orientation 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 counselling 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 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.Skill based mentoring. Different technical and nontechnical 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 reasons 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 colllected from students for all courses., Students Feedback on all courses is 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 departments 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.

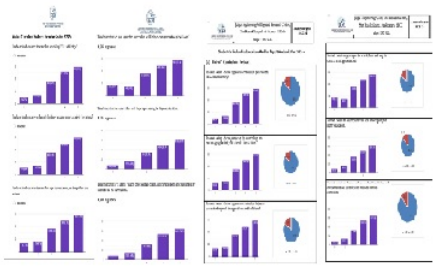
- Head of the Department chairing the senior faculty members advise the faculty member suitably with regard to clarity in explanation.
- Promoting and encouraging faculty to attend the faculty development programs (FDP), short term programme (STP), Conferences, MOOC'S, Guest lectures, industry visit.
- 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)

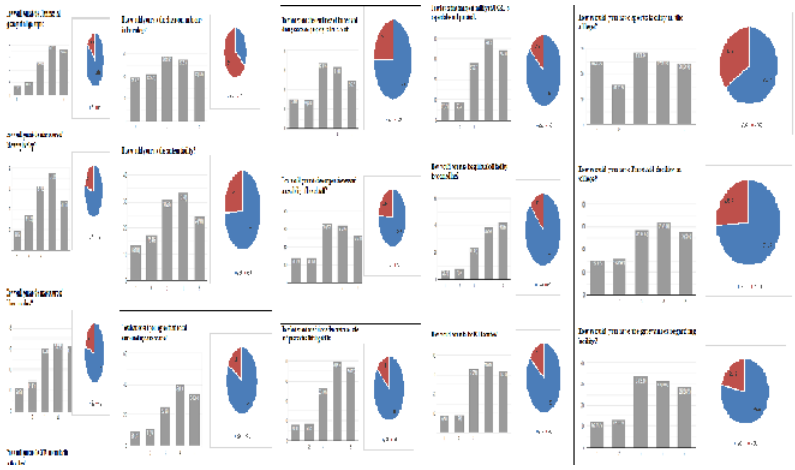
Analysis: https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-1/1.4.2-Feedback-mechanism-and-analysis.pdf (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-1/1.4.2-Feedback-mechanism-and-analysis.pdf)

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	Appropriate action taken by Library incharge
			Books	
			Publication	
			E-books	
			Swayam	
4	Sports Dr. Rajesh Sharma (Sports Incharge)	Feedback taken by sports incharge	Ground	Sports incharge takes appropriation decision
			Participation	
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 facilityin girls hostel.

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks : 5.00

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 self-learning or learning beyond syllabus during the semesters we provide information sharing material and orgnize different types of activities like workshop, training, conferences, club activities, quiz etc. Activities related to Experiential learning (EL), Participative Learning (PL) and Problem Solving (PS) methodologies are embedded into the teaching learning process. Institute 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 courses based on the feedback from alumni, employer and other stakeholders. Various platforms viz. Swayam, NPTEL, Swayam Prabha, Video lectures by faculty and other teaching learning material is made available on website.Virtual lab through IIT Delhi is an initiative towards experiential learning. Students taking internships through internshala are also appreciated by AICTE 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,Marvel 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 Toastmaster ,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 improvemet through different cultural activities.
22	Sports	Team management and overall students development through different sports activities
23	ADD-ON courses	Add on courses to enhance the advanced skill according to present scenario.

Online MOOCs

S. No	Name of Student	MOOCs Platform	Certificate Link
1	Pranjal Sharma	ServiceNow	https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy)
2	Khushveer Gurjar	ServiceNow	https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy)
3	Akshi Maheshwari	ServiceNow	https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy)
4	Sakshi Jain	ServiceNow	https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy)
5	Rohit Pareek	ServiceNow	https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1Ir22povus5i0_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/17nO6jUD1ki87sAJxLmKT5PX9zowVIiAK0n0eIx9ol1imn01Xlpt2HYeUN2MX3fDdxYNFcCPB (https://drive.google.com/drive/u/0/folders/17nO6jUD1ki87sAJxLmKT5PX9zowVIiAK0n0eIx9ol1imn01Xlpt2HYeUN2MX3fDdxYNFcCPB)
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_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)

22	Nitin kumawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
23	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
24	Pankhuri Jain	Infosys Springboard	https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
25	Sankalap vijayvergiya	Great learning	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
26	Mitul Chhajed	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
27	Pankhuri Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
28	Tanish gupta	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
29	Sonakshi Gupta	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
30	Mohit Garg	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
31	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
32	Aksht jain	Udemy	https://drive.google.com/file/d/1HXAjUGy_i2Frg-O0mrgrcwX4UAZQn0Vl/view (https://drive.google.com/file/d/1HXAjUGy_i2Frg-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_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
59	Soumya Mittal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
60	saksham bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
61	punit tyagi	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
62	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
63	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
64	Raghav Bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
65	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
66	Tushar Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
67	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
68	Pradyumn Kumar Shukla	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
69	Kinjal Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
70	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
71	mayank ved	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
72	Pallav Maheshwari	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
73	Soumya Mittal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
74	saksham bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
75	punit tyagi	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
76	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
77	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
78	Raghav Bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
79	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
80	Tushar Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
81	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
82	Pradyumn Kumar Shukla	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
83	Kinjal Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
84	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)
85	mayank ved	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma_dBN)

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 but not more than the traditional method of teaching.
- Students are motivated to improve their initiation in reaching their goals.
- Students are able to scan through the reading material available to them.
- Many of the needs of students are best met by learning process. 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/Criteria-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.

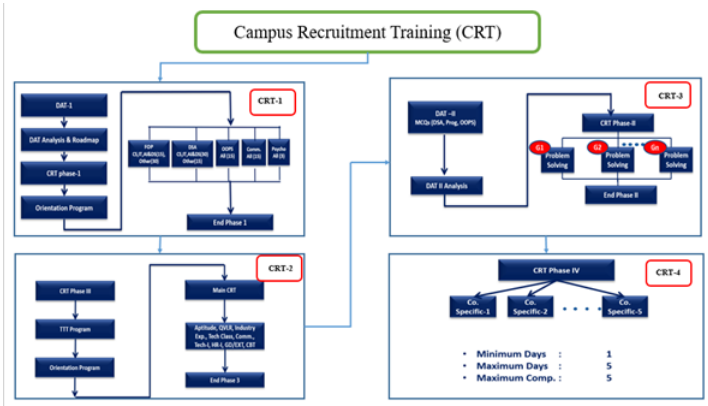
The college has career guidance and placement cell headed by Director HR – Placement & Training.

- 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 were held in institute.
- To prepare teams a faculty guide was assigned to a particular team and an intra college competition like JECRC hackathon was organized to check, improve technical skills level of shortlisted teams.

S. No	Name of 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	Affiliated University college (SKIT)
2	Badminton (Boys) Ist Position	National	Naman Sahay Bhatnagar	6/11/2023	8/11/2023	Affiliated University college (SKIT)
3	Badminton (Boys) Ist Position	National	Raman Agarwal	6/11/2023	8/11/2023	Affiliated University college (SKIT)
4	Badminton (Boys) Ist Position	National	Milan Sain	6/11/2023	8/11/2023	Affiliated University college (SKIT)
5	Badminton (Boys) Ist Position	National	Madhav Saraswat	6/11/2023	8/11/2023	Affiliated University 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	Affiliated University college (SKIT)
2	Badminton (Girls) Ist Position	National	Anushka Sharma	2/10/2024	4/10/2024	Affiliated University college (SKIT)
3	Badminton (Girls) Ist Position	National	Sonali Agrawal	2/10/2024	4/10/2024	Affiliated University college (SKIT)
4	Badminton (Girls) Ist Position	National	Anjali Meena	2/10/2024	4/10/2024	Affiliated University college (SKIT)
5	Badminton (Boys) Ist Position	National	Pranjal Arora	2/10/2024	4/10/2024	Affiliated University college (SKIT)
6	Badminton (Boys) 2nd Position	National	Aman Agrawal	2/10/2024	4/10/2024	Affiliated University college (SKIT)
7	Badminton (Boys) 2nd Position	National	Madhav Saraswat	2/10/2024	4/10/2024	Affiliated University college (SKIT)
8	Badminton (Boys) 2nd Position	National	Tushar Dhaker 4th Year	2/10/2024	4/10/2024	SKIT
9	Badminton (Boys) 2nd Position	National	Milan Sain	2/10/2024	4/10/2024	SKIT
10	Badminton (Boys) 2nd Position	National	Ayush Bansal	2/10/2024	4/10/2024	SKIT
11	Table Tennis (Boys) Ist Position	National	Manan Babel	2/10/2024	4/10/2024	Affiliated University college (SKIT)

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

Details of activities conducted under Sports:

2023-24

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

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

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	85

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 belief in yourself , re-mind yourself that you're 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 Board of trustees for 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.

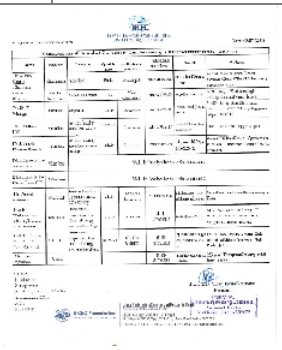
Its Primary responsibilities include

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 be responsible for overall human resource management of their appointment, utilization, termination, disciplinary action etc. He will exercise signing powers as competent authority.

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, 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 College Principal and the Registrar should have adequate powers so that they are in a position to comply with the requirements of the regulatory and supervising bodies, and conduct day-to-day affairs in a positive and peaceful manner, under their own authority and signatures.

With a view to ensuring smooth and unambiguous functioning of the colleges, viz., Jaipur Engineering College and Research Centre 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 and Officer 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

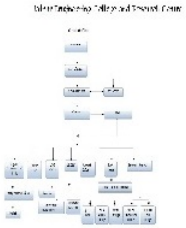
- He shall act competent authority for all office and sub-staff, and exercise signing powers as competent authority for their appointment, utilization, termination, disciplinary action. etc.
- He shall act as Compliance Officer to fulfill the regulatory guidelines etc. of AICTE. Will (Affiliating University), 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. retrenchment, 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)

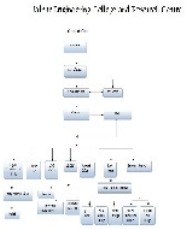
S.No	Year of Students List	Link	Year of Faculty List	Link
1	2023-24 Student list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Student-List-2023-24.pdf)	2023-24 Faculty list	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Faculty-List-2023-24-Final.pdf)
2	2022-23 Student List	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-2/List-of-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

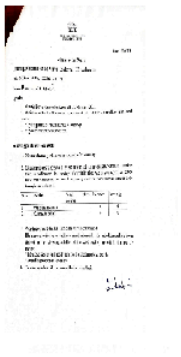
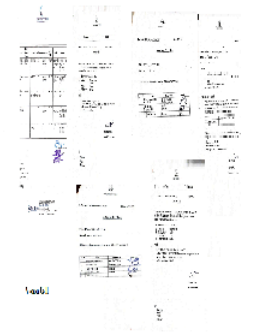
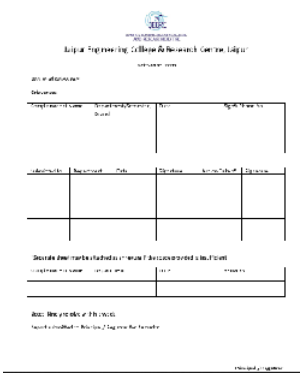
Institutional Committee and Link for the session 2023-24 and 2022-23

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)

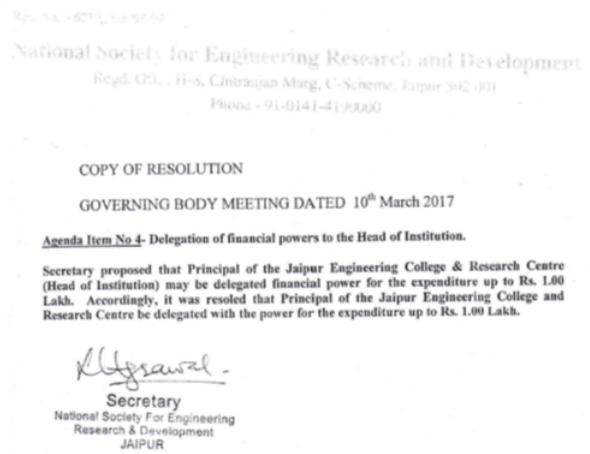
Institute Marks : 10.00

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

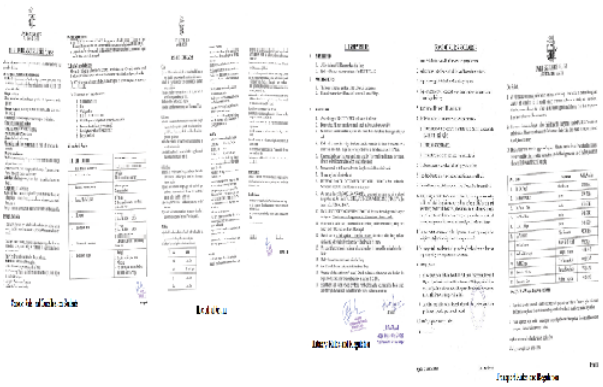
10.1.5 Transparency and availability of correct/unambiguous information in public domain (5) Institute Marks : 5.00

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

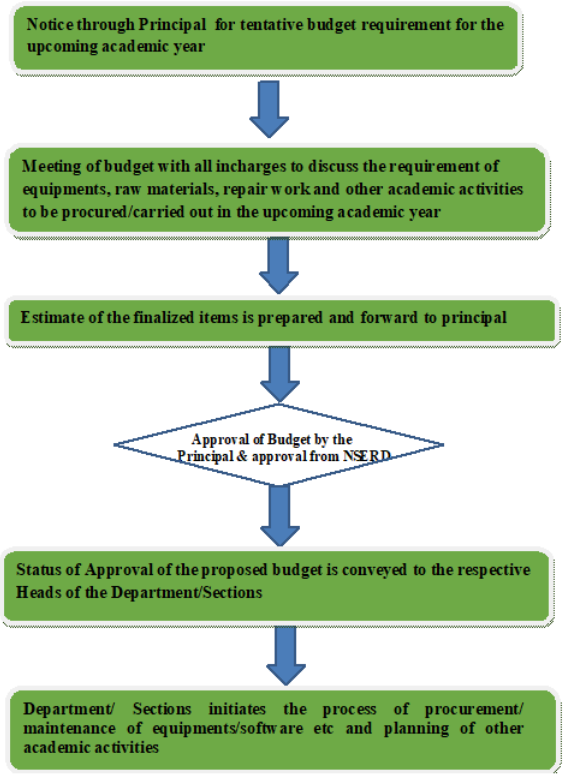
Items	**Budgeted in 2023-24**	**Actual Expenses in 2023-24 till**	**Budgeted in 2022-23**	**Actual Expenses in 2022-23 till**	**Budgeted in 2021-22**	**Actual Expenses in 2021-22 till**	**Budgeted in 2020-21**	**Actual Expenses in 2020-21 till**
Infrastructure Built-Up	40000000	44100234	20000000	23177592	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.

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.

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/)

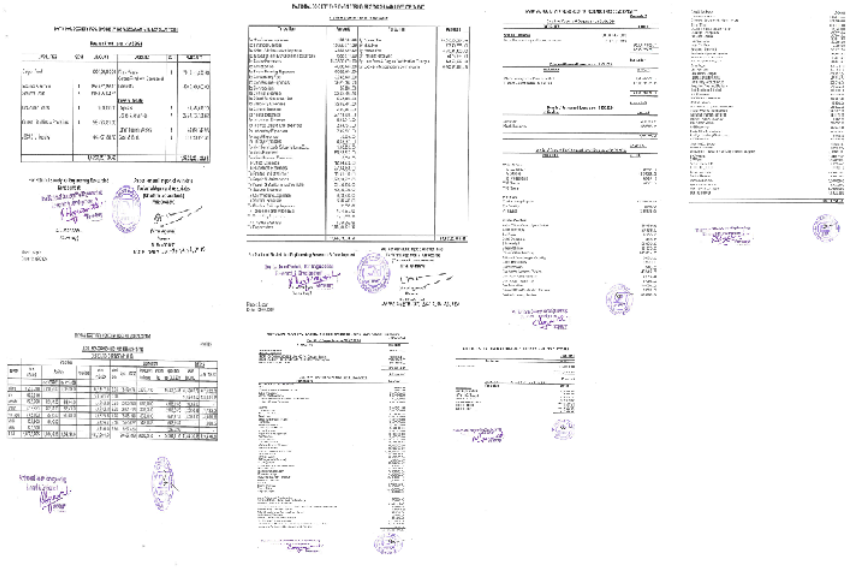


Fig- Audited Statement 2023-24

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

585000		Actual expenditure (till…): 330585		Total No. Of Students 165
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
550000	35000	314485	16100	2003.55

Table 2 :: CFYm1 2022-23

67500		Actual expenditure (till…): 36585		Total No. Of Students 236
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
35000	32500	20000	16585	155.02

Table 3 :: CFYm2 2021-22

55500		Actual expenditure (till…): 19196		Total No. Of Students 191
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
20000	35500	0	19196	100.50

Table 4 :: CFYm3 2020-21

50000		Actual expenditure (till…): 12200		Total No. Of Students 323
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
20000	30000	0	12200	37.77

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	500000	314485	30000	20000	15000	0	15000	0
Software	50000	0	5000	0	5000	0	5000	0
Laboratory consumable	5000	1500	5000	1500	10000	7046	5000	1200
Maintenance and spares	5000	500	5000	2000	5000	500	5000	1000
R & D	10000	5100	7500	5700	7500	5300	7000	5700
Training and Travel	10000	5000	10000	5000	8000	5000	8000	0
	5000	4000	5000	2385	5000	1350	5000	4300
Total	**585000**	**330585**	**67500**	**36585**	**55500**	**19196**	**50000**	**12200**

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	585000	330585	56.51%
2022-23	67500	36585	54.20%
2021-22	55500	19196	34.59%
2020-21	50000	12200	24.40%

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 (https://library.bennett.edu.in/query-form/)

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

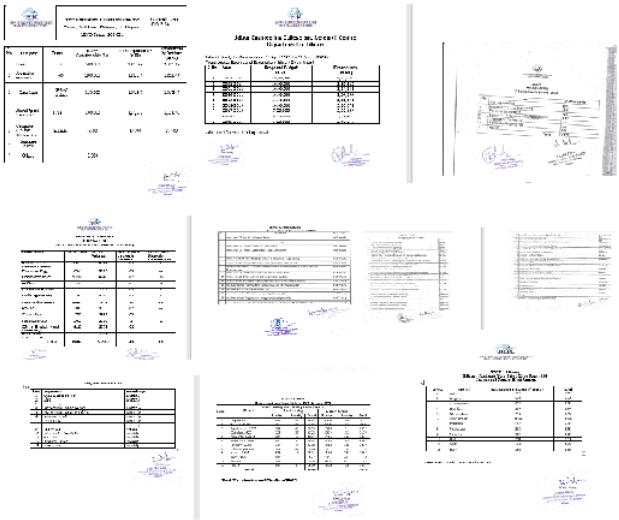
JECRC Library

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	Graduates are able to contribute for the development of automation.
PSO2	Graduates are able to contribute towards integration of the green energy.

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 12:34:06