JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Electronics & Communication Engineering

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
Electronics & Communication Engineering	UG	2000	2000	60	Yes	120	Granted accreditation for 3 years for the period (specify period)	2022	2025	Yes	4

Sanctioned Intake for Last Five Years for the Electronics & Communication Engineering	
Academic Year	**Sanctioned Intake**
2024-25	120
2023-24	120
2022-23	180
2021-22	180
2020-21	180
2019-20	240

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Electronics & Communication Engineering

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	120	133	109	124	104	116
Faculty in Engineering (Female)	76	89	73	92	55	60
Faculty in Maths, Science & Humanities (Male)	22	22	16	20	17	18
Faculty in Maths, Science & Humanities (FeMale)	18	18	15	23	23	23
Non-teaching staff (Male)	43	45	40	42	34	40
Non-teaching staff (FeMale)	0	0	0	0	0	1

B. Contractual* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	5	5	4	4
Faculty in Engineering (Female)	0	0	0	0	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	2024-25	2023-24	2022-23
Total no. of Boys	3260	2916	2881
Total no. of Girls	935	864	821
Total	**4195**	**3780**	**3702**

11 Vision of the Institution:

Our Vision

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

12 Mission of the Institution:

Our Mission

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

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

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

NBA Coordinator, If Designated

Name	Dr Mahendra pratap singh
Designation	Professor & IQAC Coordinator
Mobile No.	8209832552
Email ID	hod.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	116.84
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	186.92
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	43.60
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**948**

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

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

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	**Our Vision** • Vision To become a renowned centre of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities**.**
Mission of the institute	**Our Mission** • Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning • Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions. • Offer opportunities for interaction between academia and industry. • Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.
Vision of the Department	To contribute to the society through excellence in scientific and technical education, teaching and research aptitude in Electronics & Communication Engineering to meet the needs of Global Industry.
Mission of the Department	

Mission No.	Mission Statements
M1	To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively apply their knowledge to design solution of problems arising in their career path.
M2	To induce the habits of lifelong learning in order to continuously enhance overall performance.
M3	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.
M4	To make the students responsive towards the ethical, social, environmental and economical growth of the society.

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To provide students with the fundamentals of engineering sciences with more emphasis in Electronics & Communication Engineering by way of analyzing and exploiting electronics & communication challenges.
PEO2	To train students with good scientific and Electronics & Communication Engineering knowledge so as to comprehend, analyze, design and create electronics & communication based novel products and solutions for the real life problems.
PEO3	To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate Electronics & Communication Engineering with social issues.
PEO4	To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-long learning needed for a successful Electronics & Communication Engineering professional career.
PEO5	To prepare students to excel in electronics & communication based industry and higher education by educating students in Electronics & Communication Engineering field along with high moral values and knowledge.

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

Total Marks 10.00

Institute Marks : 10.00

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

S.No.	Location	Insitute		Department		
		Vision	Mission	Vision	Mission	PEO
1	Institute Website/ Departmental Webpage (https://jecrcfoundation.com/)	✓	✓	✓	✓	✓
2	Department News Letter & NoticeBoard	✓	✓	✓	✓	✓
3	Course File	✓	✓	✓	✓	✓
4	Lab Manual	✓	✓	✓	✓	✓
5	Conference Workshop/Brochures	✓	✓	✓	✓	✓

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

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

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

- Student orientation program among all students at the beginning of each semester
- Faculty Meeting
- Parent's Teacher Meeting
- Alumni Meeting
- Industry institute Interaction
- Webinar/Seminar/Guest Lecture/Expert Talk

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

Institute Marks : 25.00

Procedure for Defining the Vision of the Department

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

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

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

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

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

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

Step 7. The department and the IQAC review it after 4 years.

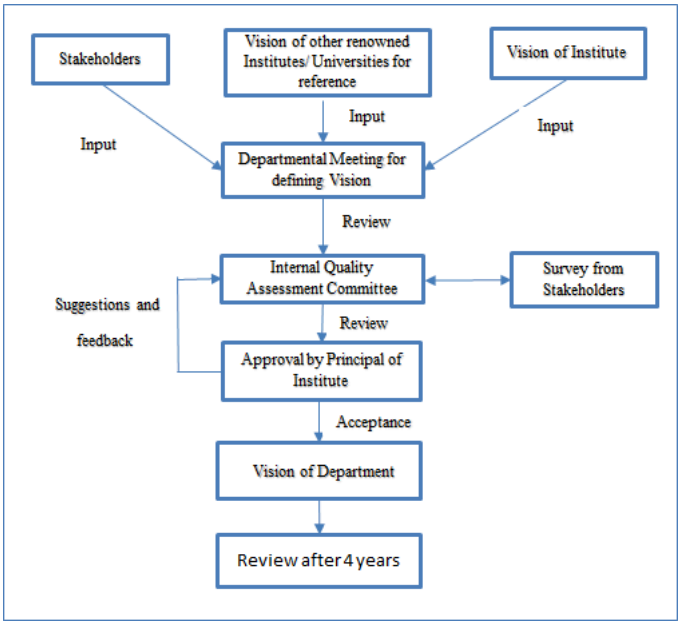


Figure 1.4 (A) Process of Defining Department Vision

Procedure for Defining the Mission of the Department

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

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

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

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

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

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

Step 7. The department and the IQAC review it after 4 years.

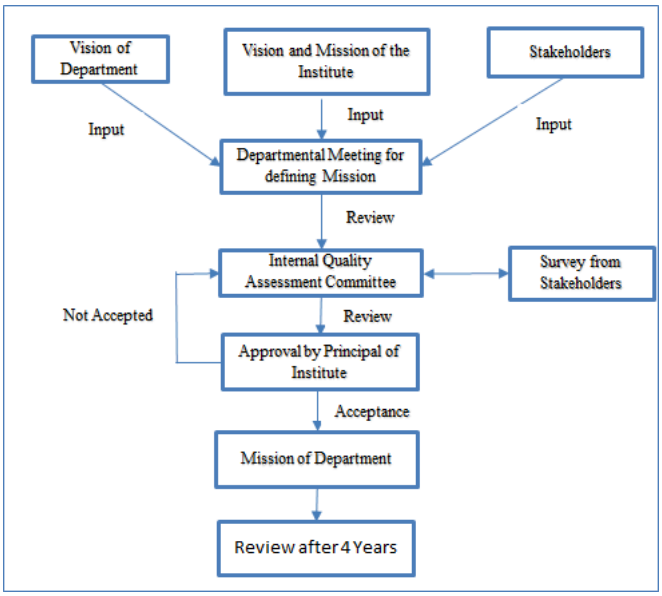


Figure1.4 (B): Procedure for Defining the Mission of the Department

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

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

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

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

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

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

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

Step 7. The department and the IQAC review it after 4 years.

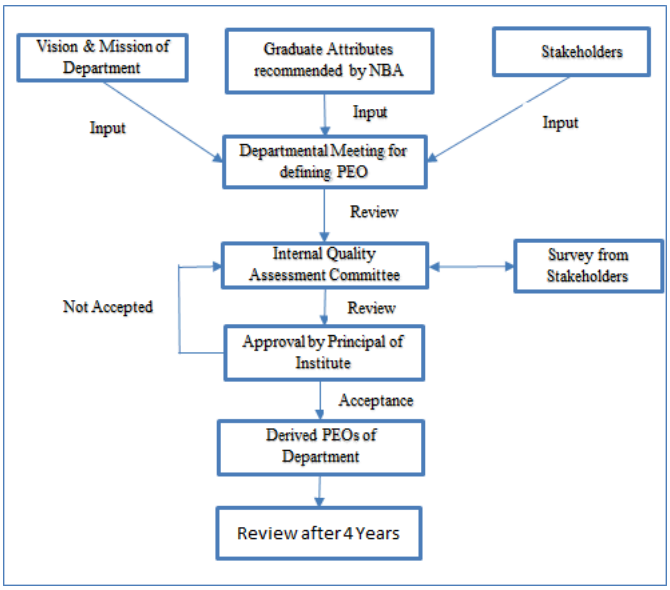


Figure1.4 (C): Procedure for Defining the PEOs of the Department

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

Institute Marks : 15.00

Mission	To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively their knowledge to the solution of problems arising in their career path.	To induce the habit of lifelong learning to continuously enhance overall performance.	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	To make the students responsive towards the ethical, social, environmental and in economic context for the society.
PEOs				
To provide students with the fundamentals of engineering sciences with more emphasis in Electronics & Communication Engineering by way of analyzing and exploiting electronics & communication challenges.	3	3	3	3
To train students with good scientific and Electronics & Communication Engineering knowledge so as to comprehend, analyze, design and create electronics & communication based novel products and solutions for the real life problems.	3	3	3	3
To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate Electronics & Communication Engineering with social issues.	3	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 Electronics & Communication Engineering professional career.	3	3	3	3
To prepare students to excel in electronics & communication based industry and higher education by educating students in Electronics & Communication Engineering field along with high moral values and knowledge.	3	3	3	3

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

- PEOs are divided into keywords, and the correlation between these keywords and each Mission is examined.
- Feedback from stakeholders is collected to assess the level of consistency. If the consistency between a PEO and a mission is found to be above 90%, a rating of **(3)** is assigned. If the consistency falls between75% and 90%, rating of **(2)** is assigned. If the consistency falls below 75% rating of **(1)** is assigned.

Why Substantial (3):

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

Why Moderate (2):

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

Why Slight (1):

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

	MISSION			
PEO 1 **Keyword**	To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively their knowledge to the solution of problems arising in their career path.	To induce the habit of lifelong learning to continuously enhance overall performance.	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	To make the students responsive towards the ethical, social, environmental and in economic context for the society.
Fundamental of Engineering Science	3	3	3	3
Exploring challenges	3	3	3	3

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

	MISSION			
PEO 2 **Keyword**	To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively their knowledge to the solution of problems arising in their career path.	To induce the habit of lifelong learning to continuously enhance overall performance.	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	To make the students responsive towards the ethical, social, environmental and in economic context for the society.
Train with good knowledge	3	3	3	3
Create novel products and solutions	3	3	3	3

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

	MISSION			
PEO 3 **Keyword**	To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively their knowledge to the solution of problems arising in their career path.	To induce the habit of lifelong learning to continuously enhance overall performance.	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	To make the students responsive towards the ethical, social, environmental and in economic context for the society.
Inculcate ethical attitude and skills	3	3	3	3
Entrepreneurial thinking	3	3	3	3

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

	MISSION			
PEO 4 **Keyword**	To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively their knowledge to the solution of problems arising in their career path.	To induce the habit of lifelong learning to continuously enhance overall performance.	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	To make the students responsive towards the ethical, social, environmental and in economic context for the society.
Excellence, leadership, ethical codes	3	3	3	3
Life long learning	3	3	3	3

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

	MISSION			
PEO 5 **Keyword**	To equip the students with strong foundation of basic sciences and domain knowledge of Electronics & Communication Engineering, so that they are able to creatively their knowledge to the solution of problems arising in their career path.	To induce the habit of lifelong learning to continuously enhance overall performance.	Students are able to communicate their ideas clearly and concisely so that they can work in team as well as an individual.	To make the students responsive towards the ethical, social, environmental and in economic context for the society.
Industry and higher education	3	3	3	3

High moral values & knowledge	3	3	3	3

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

Justification:

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

PEO Statements	M1	M2	M3	M4
To provide students with the fundamentals of engineering sciences with more emphasis in Electronics & Communication Engineering by way of analyzing and exploiting electronics & communication challenges.	3	3	3	3
To train students with good scientific and Electronics & Communication Engineering knowledge so as to comprehend, analyze, design and create electronics & communication based novel products and solutions for the real life problems.	3	3	3	3
To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate Electronics & Communication Engineering with social issues.	3	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 Electronics & Communication Engineering professional career.	3	3	3	3
To prepare students to excel in electronics & communication based industry and higher education by educating students in Electronics & Communication Engineering field along with high moral values and knowledge.	3	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 Annexurel. Also mention the identified curricular gaps, if any (10)

Institute Marks : 10.00

Program Outcomes (POs)

PO1. Engineering Knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and Electronics &Communication Engineering specialization to the solution of complex Electronics and Communication Engineering problems.

PO2.Problem Analysis: Identify, formulate, research literature, and analyze complex Electronics & Communication Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and Engineering sciences.

PO3. Design/Development of Solutions: Design solutions for complex Electronics & Communication Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of Electronics & Communication Engineering experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern Electronic Engineering and IT tools including prediction and modeling to complex Electronics & Communication Engineering activities with an understanding of the limitations.

PO6. The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Electronics & Communication Engineering practice.

PO7. Environment and Sustainability: Understand the impact of the professional Electronics & Communication Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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

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

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

PO11. Project Management and Finance: Demonstrate knowledge and understanding of the Electronics & Communication Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of Electronics & Communication Engineering changes.

Program Specific Outcomes (PSOs)

PSO1. Ability to develop knowledge of Embedded Systems and its application in Automation.

PSO2. Ability to develop the concept of Electric Vehicle (EV) to meet Industry Applications.

Jaipur Engineering College and Research Centre (JECRC), affiliated with Rajasthan Technical University (RTU), Kota, has been accredited by the National Assessment and Accreditation Council (NAAC) for the academic year 2023-24. The Department of Electronics & Communication Engineering strictly follows the academic framework and curriculum prescribed by RTU.

In response to dynamic industry demands, technological advancements and Holistic development, RTU has strategically revamped its curriculum by integrating contemporary courses such as Managerial Economics and Financial Accounting, 5G Communication Technology, Environmental Engineering and Disaster Management,Microcontrollers Lab, Skill Development Lab and Internet of Things Lab. Concurrently, obsolete subjects have been systematically phased out to maintain academic relevance.

Moreover, in alignment with the **National Education Policy (NEP) 2020**, the University has embraced a Choice-Based Credit System (CBCS), granting students the flexibility to select interdisciplinary electives. This progressive approach not only broadens academic horizons but also ensures holistic and industry-relevant education.

1. **Effective Implementation of the University Curriculum**

The successful and impactful delivery of the university-prescribed curriculum necessitates meticulous academic planning, with a strategic focus on the following key areas:

2. **Curriculum Implementation Strategies**

Systematic and outcome-based approaches are adopted to ensure structured and effective curriculum delivery, aligned with academic benchmarks and learning objectives.

3. **Enrichment Beyond the Syllabus**

Emphasis is placed on imparting knowledge and skills that transcend the formal curriculum, fostering critical thinking, innovation, and lifelong learning.

4. **Add-On and Certification Programs**

Value-added courses and professional certification programs are offered to enhance students competencies and improve their employability in emerging domains.

5. **Integration of Cross-Cutting Themes**

The curriculum incorporates essential cross-disciplinary topics such as Professional Ethics, Human Values, Environmental Sustainability, and Social Responsibility, shaping socially conscious and responsible graduates.

6. **Experiential and Immersive Learning**

Project-based assignments, industrial visits, internships, and fieldwork are integrated into the academic framework to bridge theory with practical application.

7. **Extension and Community Engagement Initiatives**

Students participate in outreach programs aimed at community development, thereby cultivating civic responsibility and real-world problem-solving skills.

8. **Project-Based Learning (PBL)**

A learner-centric approach encouraging innovation, collaboration, and critical inquiry through hands-on projects that simulate real-world engineering challenges.

All planning and execution are meticulously aligned with the guidelines of the Internal Quality Assurance Cell (IQAC) and are seamlessly incorporated into the department's Academic Calendar, ensuring quality and consistency in academic delivery.

1. **Curriculum Planning**

Curriculum planning at the institute is executed through a structured and strategic approach, focusing on the following pivotal aspects to ensure holistic and outcome-driven education:

2. **Adherence to University Curriculum**

The institute meticulously follows the academic curriculum prescribed by Rajasthan Technical University (RTU) for all its academic programs, ensuring compliance and consistency across departments.

3. **Clarification of Subject Prerequisites**

Essential subject-specific prerequisites are clearly identified, discussed, and communicated to students to establish a strong foundational understanding and facilitate academic preparedness.

4. **Curriculum Enrichment Beyond the Syllabus**

Gaps identified through structured feedback from students, faculty, alumni, and industry stakeholders are addressed through supplementary content, workshops, and enrichment activities, thereby enhancing learning outcomes.

5. **Experiential and Applied Learning Opportunities**

Hands-on learning is emphasized through a diverse array of activities such as lab sessions, fieldwork, live projects, and industry interactions, organized at both institutional and departmental levels to complement the RTU syllabus.

6. **Comprehensive Student Engagement through Extra-Curricular Initiatives**

A wide range of extracurricular activities are strategically integrated into the academic calendar to foster student engagement, creativity, leadership, and personal development.

7. **Strategic Financial Planning**

Comprehensive financial planning is undertaken to allocate adequate resources in support of academic, co-curricular, and extracurricular activities, ensuring seamless execution throughout the academic year.

8. **Career Readiness and Soft Skills Development**

The Training and Placement Cell spearheads targeted programs aimed at enhancing students career-oriented skills, including communication, critical thinking, and professional grooming, while also facilitating industry interface and placement opportunities.

9. **Integration of ICT in Pedagogy**

Innovative teaching-learning experiences are promoted through the incorporation of Information and Communication Technology (ICT) tools and platforms, fostering interactive, flexible, and tech-enabled education.

10. **Promotion of Constitutional Values**

Awareness initiatives are implemented to foster in students and staff a deep understanding of constitutional principles, including fundamental rights, duties, and civic responsibilities.

11. **Fostering Inclusivity, Tolerance, and Harmony**

The institute actively promotes cultural, linguistic, regional, communal, and socio-economic harmony through sensitization programs, ensuring a respectful and inclusive campus environment.

Procedure for Evaluating Curriculum Compliance and Identifying Gaps for Attainment of POs and PSOs

A structured, systematic approach is adopted to evaluate the extent of alignment between the university-prescribed curriculum and the attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs). The procedure also facilitates the identification and bridging of curriculum gaps through stakeholder collaboration and continuous feedback mechanisms:

1. **Subject Allocation and Course Group Formation**

At the commencement of each semester, subject allocation is carried out considering faculty expertise and preferences. Course groups are constituted, and a Program Coordinator is designated by the Internal Quality Assurance Cell (IQAC) to oversee the academic planning and compliance processes.

2. **Formulation of Course Outcomes (COs)**

Faculty members develop well-defined Course Outcomes (COs) for their respective subjects. These are reviewed and validated by the Program Coordinator and subsequently submitted to the IQAC for approval.

3. **Refinement of COs Based on IQAC Feedback**

The CO statements are revised and enhanced, incorporating insights and suggestions provided by the IQAC to ensure clarity, relevance, and alignment with institutional and program-level objectives.

4. **Development of CO–PO/PSO Mapping Matrix**

Each course is mapped to relevant Program Outcomes (POs) and Program Specific Outcomes (PSOs). A CO–PO/PSO matrix is created to visualize and quantify the degree of contribution of each course toward the attainment of defined outcomes.

5. **Curriculum Gap Analysis**

A quantitative evaluation is performed by calculating the weighted average from the CO–PO/PSO mappings. This analysis determines the extent of curriculum sufficiency and identifies specific areas where gaps exist in achieving program objectives.

6. **Stakeholder Input and Benchmarking**

Continuous inputs are gathered from diverse stakeholders including industry experts, employers, alumni, placement cell, and internal/external academic reviewers. Additionally, curricula from institutes of national repute are benchmarked to identify best practices and enhance curriculum relevance.

7. **Mapping IQAC-Recommended Activities to POs and PSOs**

Targeted academic and co-curricular activities proposed by IQAC are strategically aligned with relevant POs and PSOs, ensuring that gap-bridging measures directly contribute to outcome attainment.

8. **Identification of Thematic and Technical Gaps**

The updated CO–PO/PSO matrix is analysed to pinpoint specific shortcomings in areas such as technological advancements, cross-cutting issues, experiential learning, and other emerging competencies.

9. **Action Plan for Bridging Curriculum Gaps**

Based on the comprehensive analysis, corrective actions and enhancement strategies are formulated. These may include workshops, industry interactions, guest lectures, certifications, lab enhancements, and interdisciplinary projects to effectively bridge identified curriculum gaps.

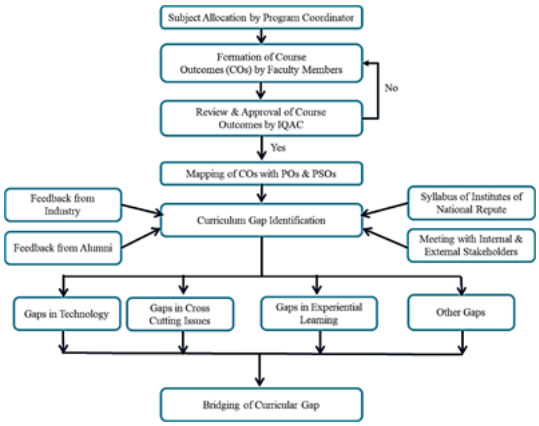


Figure 2.1.1 (A): Defining the Curriculum Gap

A. Analysis of Curriculum Mapping to Evaluate Attainment of POs and PSOs

To ensure systematic alignment of the academic framework with the intended Program Outcomes (POs) and Program Specific Outcomes (PSOs), a comprehensive mapping and analysis process is undertaken. This process serves as a strategic tool to evaluate the extent of curriculum compliance and its effectiveness in cultivating the desired graduate attributes.

Each course offered under the Electrical Engineering program is meticulously designed with well-defined Course Outcomes (COs) that directly or indirectly contribute to one or more POs and PSOs. These COs encompass a balanced integration of fundamental theoretical knowledge, analytical tools, and practical application methodologies, thereby fostering holistic development of core engineering competencies.

The mapping exercise involves the formulation of a CO-PO/PSO matrix, wherein the degree of correlation-categorized as strong, moderate, or low-is established based on the extent of outcome contribution. This matrix-driven approach allows for:

- Quantitative Assessment of the Curriculum's relevance to targeted Learning Outcomes
- Identification of Strengths and Gaps in Curriculum Design, and
- Strategic planning for enhancement through content enrichment or additional pedagogical interventions.

The resulting mapping, illustrated in Table 2.1.1 (A) for POs and PSOs, reflects a robust alignment between course deliverables and expected graduate capabilities. This structured compliance not only ensures academic coherence but also empowers students with domain-specific expertise, professional skills, and ethical responsibility, making them industry-ready professionals.

Table 2.1.1 (A): Identification of Curricular Gap as per Course-PO mapping

Program Outcomes (POs)/Program Specific Outcomes(PSOs)															
S. No.	**Subject Code**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO 1**	**PSO2**
1	**1FY2-01**	3	3	2	1	1	1	0	0	1	1	0	1	1	1
2	**1FY2-02**	3	2	1	1	1	1	0	0	1	1	0	1	2	1
3	**1FY2-03**	2	1	1	1	0	1	2	0	1	1	0	1	0	1
4	**1FY2-04**	0	0	1	0	0	2	0	2	2	3	1	2	0	0
5	**1FY2-05**	0	0	2	0	0	3	2	3	2	1	0	1	0	0
6	**1FY3-06**	3	2	2	1	1	1	0	0	1	1	0	1	2	1
7	**1FY2-07**	3	1	2	1	0	1	1	0	1	1	0	1	0	1
8	**1FY2-08**	3	3	2	2	2	2	3	3	3	2	2	3	2	3
9	**1FY2-09**	3	3	3	3	2	3	3	3	2	3	2	2	0	0
10	**1FY2- 20**	2	1	1	0	0	1	0	1	2	1	0	1	1	1
11	**1FY2-21**	2	2	2	1	1	2	2	2	2	1	1	1	0	0
12	**1FY1- 22**	0	0	0	0	2	2	0	2	2	3	1	2	0	0
13	**1FY1- 23**	0	0	1	0	0	3	3	3	1	1	0	1	0	0
14	**1FY3- 24**	2	2	2	1	1	0	0	0	1	1	0	1	3	1
15	**1FY3- 25**	3	3	2	2	2	2	2	1	2	2	2	2	0	0
16	**1FY3- 26**	3	3	2	2	2	0	1	1	3	1	1	1	2	3

17	**1FY3-27**	3	2	2	2	3	3	3	2	2	3	2	2	0	0
18	**1FY3- 28**	3	2	2	1	3	1	2	0	1	1	0	1	0	0
19	**1FY3- 29**	3	2	2	1	3	1	2	0	1	1	0	1	0	0
20	**2FY2-01**	3	3	2	1	1	1	0	0	1	1	0	1	1	1
21	**3EC2-01**	3	3	3	3	2	0	0	0	1	0	1	2	1	1
22	**3EC2-02**	2	1	0	0	1	1	0	2	2	3	2	3	0	0
23	**3EC4-04**	3	2	2	2	2	1	1	0	1	1	1	2	2	1
24	**3EC4-05**	3	3	2	2	3	0	0	0	1	1	1	2	2	1
25	**3EC4-06**	3	3	3	2	2	0	1	0	1	1	1	2	1	2
26	**3EC4-07**	3	2	2	2	2	0	0	0	0	0	1	2	2	2
27	**3EC4-21**	3	2	3	3	2	1	0	2	3	2	1	2	2	1
28	**3EC4-22**	3	3	3	2	2	1	0	2	3	2	1	2	2	1
29	**3EC4-23**	3	3	3	2	2	1	0	2	3	2	1	2	1	0
30	**3EC3-24**	3	3	2	2	3	1	0	1	2	2	1	2	1	0
31	**3EC7-30**	2	2	1	1	2	1	1	2	2	2	2	3	1	2
32	**4EC2-01**	2	3	2	3	2	1	0	0	1	1	1	2	1	0
33	**4EC1-03**	0	1	0	0	0	2	1	2	2	3	2	3	0	0
34	**4EC4-04**	3	2	3	3	2	0	1	0	1	1	1	2	2	2
35	**4EC4-05**	3	3	3	3	3	1	0	0	2	1	2	2	3	2
36	**4EC3-06**	3	2	3	2	1	1	1	0	1	1	1	2	2	2
37	**4EC4-07**	3	3	2	3	2	1	1	0	1	1	1	2	0	0
38	**4EC4-21**	3	3	2	3	2	1	0	2	3	2	1	2	1	0
39	**4EC4-22**	3	3	3	3	2	1	1	1	2	2	1	2	2	1
40	**4EC4-23**	3	3	3	3	3	1	1	2	3	2	2	2	3	2
41	**4EC4-24**	3	3	2	2	2	1	0	1	2	2	1	2	1	2
42	**5EC3-01**	3	1	2	1	2	2	2	1	2	1	2	3	3	1
43	**5EC4-02**	3	2	2	2	2	1	1	0	1	1	1	3	0	0
44	**5EC4-03**	3	2	2	3	2	1	0	0	1	0	1	3	3	3
45	**5EC4-04**	3	3	2	2	2	0	0	0	1	1	1	2	2	1
46	**5EC4-05**	3	3	3	3	2	1	1	0	1	1	1	2	0	0
47	**5EC5-14**	3	3	3	2	2	0	0	0	1	0	1	2	0	0
48	**5EC4-21**	3	3	3	3	3	1	0	2	3	3	2	3	0	0
49	**5EC4-22**	3	3	3	2	3	1	0	2	2	2	1	2	2	0
50	**5EC4-23**	3	2	3	3	3	0	0	1	2	2	1	2	0	0
51	**5EC7-30**	2	2	1	1	1	2	1	2	3	3	2	3	1	2
52	**6EC3-01**	3	2	2	2	2	2	1	1	2	1	1	2	2	3
53	**6EC4-02**	3	2	3	2	2	1	1	0	1	1	1	2	0	0
54	**6EC4-03**	3	2	2	2	2	1	1	0	1	1	1	2	0	0
55	**6EC4-04**	3	3	3	3	3	1	1	0	1	0	1	2	0	0
56	**6EC4-05**	3	3	2	3	1	3	2	0	0	3	0	1	0	0
57	**6EC5-11**	3	2	2	2	2	1	1	0	2	0	1	2	2	0
58	**6EC4-21**	3	2	2	2	2	1	1	2	2	2	2	2	0	0
59	**6EC4-22**	3	3	3	3	3	2	1	2	2	3	1	2	0	0
60	**6EC4-23**	3	3	3	3	2	1	1	2	2	2	1	2	2	1
61	**6EC4-24**	3	2	2	2	1	1	0	1	2	2	1	2	2	3
62	**7EC5-11**	3	3	3	2	2	0	1	0	1	1	1	2	3	1
63	**7AG6-60.2**	0	1	0	0	0	2	1	2	2	3	2	3	0	0
64	**7EC4-21**	3	3	3	3	2	1	1	2	2	3	1	2	2	0
65	**7EC4-22**	3	2	3	3	3	0	0	1	2	2	1	2	1	0
66	**7EC4-23**	3	3	3	3	2	0	0	2	3	3	1	3	0	0

67	**7EC7-30**	3	3	2	1	2	1	1	2	2	2	2	3	1	2
68	**7EC7-40**	3	3	2	2	2	2	1	1	3	2	2	2	0	0
69	**8EC5-12**	3	3	3	3	3	1	1	0	2	0	2	2	1	0
70	**8TT6-60.2**	1	1	0	0	0	2	1	2	2	3	2	3	0	0
71	**8EC4-21**	3	2	3	3	2	0	1	0	1	1	1	2	2	1
72	**8EC4-22**	3	3	3	3	3	2	1	1	3	2	2	2	1	1
73	**8EC7-50**	3	3	2	2	2	2	1	1	3	2	2	2	2	2
Grand Total		**191**	**166**	**156**	**138**	**132**	**84**	**60**	**72**	**127**	**115**	**80**	**144**	**76**	**57**
Curricular Sufficiency of POs/PSOs on a scale of 1 to 3		**2.62**	**2.27**	**2.14**	**1.89**	**1.81**	**1.15**	**0.82**	**0.99**	**1.74**	**1.58**	**1.09**	**1.97**	**1.04**	**0.78**
Curricular GAP		**0.38**	**0.73**	**0.86**	**1.11**	**1.19**	**1.85**	**2.18**	**2.01**	**1.26**	**1.42**	**1.91**	**1.03**	**1.96**	**2.22**
Severity of Gap on a scale of 1 = Low (0 < Gap ≤ 0.75), 2=Moderate(0.75< Gap ≤ 1.5) and 3=High (Gap>1.5)		**1**	**1**	**2**	**2**	**2**	**3**	**3**	**3**	**2**	**2**	**3**	**2**	**3**	**3**

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

S. No.	Gap Areas	Related PO/PSO	Possible ways to mitigate the gap
1	Limited Focus on Societal, Ethical, and Legal Implications of Engineering Solutions and Insufficient Contextual Understanding of Cultural and Global Issues in Engineering	**PO6**	Requirement of focused modules on legal compliance, health and safety standards, and also that highlight real-world responsibilities and the broader consequences of engineering decisions.
2	Limited Integration of Sustainability in ECE Design and Solutions and Lack of Practical Exposure to Real-World Environmental Challenges	**PO7**	Incorporate modules that focus on sustainable design principles, green technologies, and environmental impact assessment tools.
3	Limited exposure to Real-world ethical dilemmas, Professional standards, and regulatory frameworks. Topics like Ethical issues in data communication, cybersecurity ethics, and ethical considerations in emerging technologies like are also not integrated.	**PO8**	Dedicated modules or seminars on engineering ethics, professional liability, ethical hacking, and standards compliance to reinforce professional responsibilities and ethical reasoning among students
4	Significant gap in the structured teaching of concepts of project management, financial planning, cost estimation, resource optimization and risk analysis.	**PO11**	Modules or workshops on engineering project management, financial planning for technical projects, and business strategy fundamentals
5	Limited Practical Exposure to Advanced Embedded Systems and Insufficient Focus on Automation Industry Standards and Tools	**PSO1**	Specialized courses and practical sessions with advanced embedded system projects, focusing on industry-standard tools, RTOS, and integration with automation systems
6	Limited Focus on Advanced EV Technologies and Components and Insufficient Industry Collaboration for Real-World Applications	**PSO2**	Establish industry partnerships to facilitate internships, and live projects for providing students with practical experience in designing and testing electric vehicles.

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

Initiatives for Bridging Curriculum Gaps through Experiential and Enrichment-Based Learning

To address and bridge identified curricular gaps, the department actively integrates topics beyond the prescribed syllabus through innovative and interactive pedagogical approaches, including experiential learning, participative learning, and problem-solving methodologies. The delivery strategies are designed to align with industry expectations and evolving technological trends. Key initiatives include:

1. **Add-on Certification Courses**

   Industry-driven, trend-focused Add-On courses are offered in collaboration with reputed organizations, enabling students to acquire specialized skills and stay ahead of emerging technologies.

2. **Guest Lectures by Domain Experts**

   Renowned professionals from academia and industry are invited to deliver insightful sessions on Cutting-Edge technologies and thrust areas in Electronics & Communication Engineering, enriching students understanding of real-world applications.

3. **Technical Talks and Seminars**

   Regular technical seminars and expert talks are conducted to keep students abreast of advancements in engineering innovations, promoting continuous knowledge enhancement.

4. **Skill-Oriented Workshops**

   The department encourages participation in hands-on workshops, providing a practical platform to refine application-oriented skills and foster creativity through interactive learning experiences.

5. **Industrial Visits**

   Annual industrial visits to prominent companies offer students firsthand exposure to real-time applications of Electronics & Communication Engineering, helping them connect classroom learning with industry operations.

6. **Soft Skills and Employability Training**

   Comprehensive soft skills development programs are integrated into the academic structure to foster personality enhancement, communication abilities, emotional intelligence, and career readiness.

7. **Internship Opportunities**

   Students are actively motivated to pursue short-term internships via platforms like Internshala, Coursera, and industry tie-ups. These internships provide valuable insights into industrial practices, teamwork, and professional dynamics.

8. **Student-Run Technical Clubs/Societies**

   Various student-led clubs and societies serve as vibrant platforms for collaboration, innovation, and leadership. These clubs host workshops, guest lectures, hackathons, and technical events, encouraging students to engage in practical learning and networking.

9. **Spiritual Cell for Holistic Well-being**

   The Spiritual Cell offers a space for students to develop emotional resilience, mental clarity, and a balanced lifestyle, nurturing personal growth alongside academic and professional development.

10. **Incubation Centre for Innovation and Entrepreneurship**

    The department's Incubation Centre supports budding innovators, researchers, and aspiring entrepreneurs with access to workspace, mentorship, seed funding, and advanced infrastructure—nurturing a culture of innovation and start-up development.

11. **Centres of Excellence**

    The Centre of Excellence (CoE) in Embedded Systems & Design is a specialized research and innovation hubfocused on advancing technologies in the field of embedded systems and the Internet of Things (IoT). Equipped with required laboratories and development tools, the centre aims to enhance innovation, product development, and practical skill-building in next-generation embedded solutions. It serves as a collaborative platform for students, faculty, and researchers to explore, design, and develop intelligent systems that address real-world challenges. The CoE promotes a peer-to-peer learning environment, encouraging knowledge sharing, collaborative problem solving, and interdisciplinary research among participants. Through hands-on projects, workshops, and mentorship, learners gain valuable experience in designing efficient, scalable, and market-ready embedded and IoT products.

12. **Virtual Labs for Simulated Experimentation**

    The Virtual Labs initiative is a transformative step in enhancing experiential learning by providing students with the opportunity to conduct complex simulations in a virtual environment. These labs bridge the gap between theoretical knowledge and practical application, offering scalable, cost-effective, and innovative avenues to explore advanced concepts in Electronics & Communication Engineering.

Table 2.1.2 (A): Impact analysis

S. No.	Delivery Methods	Alignment with Program Outcomes	Impact
1	**Add-On Courses**	PO1, PO2, PO3, PO4, PO5, PO9, PO10 PO11, PO12, PSO1/PSO2	Facilitates acquisition of advanced technical competencies aligned with emerging industry trends. These structured, value-added programs are strategically designed to address curricular gaps and promote skill enhancement beyond the prescribed syllabus.
2	**Guest Lectures**	PO1, PO2, PO3, PO4, PO5, PO10, PO11, P012, PSO1/PSO2	Leverages the expertise of distinguished professionals from academia and industry to provide deep insights into evolving technologies, best practices, and real-world challenges, thereby bridging theoretical foundations with practical relevance.
3	**Technical Talks**	PO1, PO2, PO3, PO4, PO5, PO10, PO11, P012, PSO1/PSO2	Promotes intellectual curiosity and innovation by keeping students abreast of technological advancements. These talks encourage analytical thinking and inspire a research-oriented mindset among learners.

4	**Workshops**	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO11, PO12, PSO1/PSO2	Offers immersive, hands-on learning experiences that strengthen conceptual understanding, foster team collaboration, and promote skill-based competency development, contributing significantly to experiential learning.
5	**Industrial Visits**	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO10, PO12, PSO1/PSO2	Facilitates contextual learning by exposing students to operational environments of reputed industries. These visits enable students to relate academic content to industrial processes, enhancing their understanding of real-time engineering practices.
6	**Soft Skill Training**	PO6, PO7, PO8, P10, PO11, PO12	Focuses on the holistic development of students by enhancing essential employability attributes such as communication, leadership, critical thinking, and interpersonal effectiveness, thus preparing them for dynamic workplace environments.
7	**Internships**	PO1, PO2, PO3, PO4, PO5, PO7, PO10, PO11, PO12, PSO1/PSO2	Provides students with practical exposure to industry settings, offering them the opportunity to apply theoretical knowledge, understand corporate culture, and gain domain-specific experience that enhances their technical and professional preparedness.
8	**Clubs/Societies**	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1/PSO2	Encourages student-led innovation, teamwork, and collaborative learning through technical and non-technical clubs along with technical societies. These platforms support project-based learning, skill acquisition, and nurture leadership and organizational capabilities.
8	**Spiritual Cell**	PO7, PO8, PO9, PO10, PO12	Cultivates inner well-being, emotional intelligence, and mindfulness through structured activities. This initiative supports a balanced lifestyle and fosters mental resilience, contributing to the student's overall personality development.
9	**Incubation Centre**	PO6, PO7, PO8, PO9, PO10, PO12	Acts as a catalyst for entrepreneurial ventures by providing a nurturing ecosystem comprising mentorship, seed funding, co-working spaces, and technical resources. The centre empowers students to transform innovative ideas into viable startups.

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

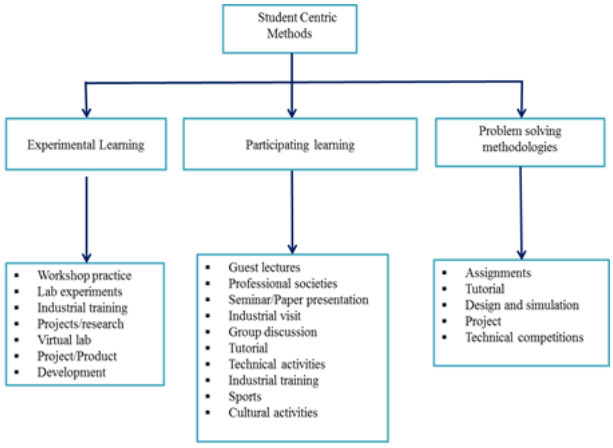


Figure 2.1.2 (A): Student Centric Methods

Student-Centric Learning Approach

To cultivate a learner-focused environment, JECRC has strategically adopted the following pedagogical methods and initiatives that align with Outcome-Based Education (OBE) and promote holistic student development:

1. Experiential Learning

The institute places a strong emphasis on immersive and experiential learning as a cornerstone of its pedagogy, aimed at cultivating critical thinking, fostering creativity, and empowering innovation-driven mindsets. These learning experiences are strategically structured through the following avenues:

- **Laboratory-Based Experiments**

A robust framework of meticulously designed laboratory experiments enables students to seamlessly integrate theoretical knowledge with hands-on application. These practical sessions are aligned with course outcomes to reinforce conceptual understanding, analytical reasoning, and technical proficiency. The laboratory environment simulates real-world scenarios, preparing students for research-oriented and industry-specific challenges.

- **Project-Based Learning and Development**

Students are actively engaged in interdisciplinary project development, where they identify real-world problems, explore viable solutions, and apply engineering principles in innovative ways. These projects not only enhance problem-solving acumen and design thinking, but also cultivate teamwork, communication, and project management skills. The focus on industry-relevant themes and societal challenges encourages students to develop scalable, impactful solutions that align with sustainable development goals.

- **Industrial Training and Skill-Oriented Workshops**

To bridge the gap between academia and industry, the institute organizes intensive industrial training programs and domain-specific workshops in collaboration with corporate and technical experts. These engagements offer students direct exposure to emerging technologies, tools, and industry best practices, enhancing their workplace readiness and professional competencies. Workshops also serve as a platform to acquire specialized skills, certifications, and hands-on experience with state-of-the-art technologies relevant to their field of study.

2. Participative Learning

Students at the institute are holistically engaged in a diverse array of co-curricular and extra-curricular activities designed to nurture leadership potential, collaborative spirit, interpersonal skills, and a strong sense of civic and social responsibility. These activities complement academic learning and contribute significantly to the all-round development of students. Participation is actively encouraged and facilitated in the following domains:

- **Technical and Cultural Events**

  Students are motivated to participate in departmental and inter-institutional technical festivals, hackathons, cultural fests, and innovation showcases that cultivate technical proficiency, creative expression, and strategic thinking. These platforms empower students to exhibit their talents, exchange ideas, and gain exposure to national and international academic trends.

- **Inter-University Competitions**

  Engagement in competitive academic and non-academic events across universities promotes a spirit of healthy competition and excellence. These include quizzes, debates, model United Nations (MUNs), paper presentations, coding contests, and innovation challenges that encourage critical thinking, research aptitude, and public speaking.

- **Sports Tournaments**

  The institute places high value on physical well-being and team spirit through organized sports activities and tournaments at intra- and inter-college levels. Participation in games such as cricket, football, basketball, volleyball, and athletics instills qualities like discipline, perseverance, leadership, and teamwork.

- **Student-Led Social Initiatives and Clubs**

  A robust ecosystem of student-driven clubs and social outreach programs actively promotes core human values, ethical consciousness, and civic engagement. These clubs work towards causes such as education for the underprivileged, environmental sustainability, women empowerment, and community health awareness. Through these initiatives, students develop empathy, social accountability, and a proactive approach to societal challenges.

  Flagship Student Clubs and Social Initiatives

The institute fosters a vibrant culture of student-led organizations that champion academic excellence, social responsibility, innovation, and personal growth. These clubs provide platforms for experiential learning, leadership development, and value-based engagement beyond the classroom:

- **Zarurat – "The Help Beyond"**

A compassionate initiative by JECRC students, Zarurat is dedicated to bridging educational disparities by providing learning opportunities to underprivileged children. Notably, the club earned a place in the Limca Book of Records by assembling over 24,626 handmade tricolored origami flowers, symbolizing a united commitment to social upliftment through creativity and collective action.

- **SOCH – Soch Kuch Kar Dikhane Ki**

A socially conscious outreach program focused on improving the lives of individuals in marginalized slum communities through need-based interventions. The initiative instills empathy and a proactive mindset among students by engaging them directly in field-based service activities.

- **ASHAYEIN – Ek Abhiyaan**

This humanitarian club drives impactful initiatives such as voluntary blood donation, environmental sustainability through tree plantations, and celebrations at old age homes, cultivating empathy, gratitude, and community connection among students.

- **SUHASINI**

A transformative social campaign led by students to champion girl child education in alignment with the national initiative "Beti Bachao, Beti Padhao." The club conducts awareness drives and educational support programs to promote equity and female empowerment.

- **ATRANGI**

A creative collective of artists, writers, and sketchers, ATRANGI serves as a platform for social expression through art. By channeling creativity into powerful visual storytelling, the club raises awareness of pressing societal issues with originality and impact.

- **Fotogra Freaks**

The official photography club of JECRC, Fotogra Freaks captures and archives the cultural, academic, and emotional essence of the campus. It fosters creative expression, visual communication, and storytelling through digital media.

- **Xananoid**

A cutting-edge robotics club that emphasizes affordable, behaviour-based robotic innovations. Xananoid is focused on building low-cost educational robotic platforms, promoting interdisciplinary learning in automation, electronics, and software engineering.

- **Theos Club**

A student-led initiative within the Civil Engineering domain that offers peer-led workshops, expert talks, and site visits to strengthen practical skills and industry readiness. It encourages applied learning and real-world exposure in infrastructure and design.

- **NSS (National Service Scheme)**

NSS instills the spirit of voluntary service, civic duty, and national integrity through its wide array of community outreach programs. Students engage in rural development, literacy campaigns, cleanliness drives, and disaster relief, shaping responsible and empathetic citizens.

- **MUN (Model United Nations)**

An internationally recognized platform where students simulate UN proceedings to debate global issues. With participation from over 8 countries and 1.5 lakh+ delegates, MUN fosters diplomatic discourse, cross-cultural understanding, critical thinking, and global leadership.

- **Toastmasters Club**

A globally affiliated public speaking and leadership development forum that provides a structured environment for communication mastery, confidence building, and peer mentoring. It empowers students to become articulate and influential professionals.

- **Sports Club**

The institute's Sports Club promotes physical fitness, discipline, teamwork, and a competitive spirit through organized tournaments and sporting events. It nurtures both recreational and professional athletic talents across diverse disciplines.

- **MoonRider**

A high-energy club devoted to automobile innovation, adventure, and motorsports engineering. MoonRider challenges students to design, prototype, and test performance vehicles, providing hands-on experience in automotive mechanics and team engineering.

- **Women Cell**

A proactive body that champions gender equality, safety, and female leadership. The Women Cell organizes workshops, mentorship programs, and awareness drives aimed at empowering women and fostering an inclusive and respectful campus culture.

- **Spiritual Cell**

Designed to cultivate inner well-being, mindfulness, and ethical clarity, the Spiritual Cell hosts activities such as guided meditation sessions, spiritual discourse, and wellness workshops. It plays a crucial role in enhancing students' emotional intelligence and life balance.

- **Marvel Cart**

A unique entrepreneurial incubator run by students, Marvel Cart enables aspiring business leaders to conceptualize, launch, and manage real-time business projects. It promotes innovation, financial literacy, and strategic thinking in a live market setting.

- **Alumni Cell**

The Alumni Cell strengthens institutional legacy by creating a dynamic bridge between past graduates and current students. It facilitates career guidance, industry mentorship, internships, and knowledge-sharing through curated events and alumni engagement programs.

3. Problem-Solving and Innovation-Driven Pedagogies

At the institute, problem-solving is recognized as a fundamental skill integral to academic excellence and professional success. The curriculum is purposefully structured to nurture analytical thinking, creativity, and solution-oriented mindsets. The following pedagogical strategies are employed to embed innovation and problem-solving competencies into the student learning experience:

- **Curriculum-Integrated Analytical Assignments & Tutorials**

Faculty design application-oriented assignments and guided tutorials that extend beyond textbook knowledge. These are tailored to connect conceptual understanding with practical, real-world contexts, fostering critical thinking and enabling students to analyse, evaluate, and synthesize information in diverse scenarios.

- **Simulation-Based Learning Frameworks**

Students are introduced to structured, model-driven problem-solving frameworks using digital simulation tools. The approach emphasizes a comprehensive methodology that includes problem identification, model formulation, computational strategy design, and result validation. This process equips learners with the ability to approach complex challenges in a methodical, technology-driven manner, mirroring professional industry practices.

- **Comprehensive Projects and Minor Projects for Innovation**

As part of project-based learning, students undertake Comprehensive and minor projects that require them to conceptualize, design, and implement sustainable and innovative solutions. These projects address current challenges across industries and communities, promoting interdisciplinary collaboration, prototyping, and entrepreneurial thinking. Emphasis is placed on scalability, societal impact, and relevance to emerging global trends.

2023-24

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Focus on Advanced EV Technologies and Components with exposure to real-world EV industry applications	Two-day workshop on Employability Skill Development Program under MG Nurture Initiative	03/05/2024	MG Motor India PvtLtd.	83	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO2
2	Industrial Exposure to get into Real-Time Industry Challenges and demands with exposure to real-world EV industry applications	Workshop on “EV Technology: Latest Trends and Future Prospects”	17/09/2023	Techienest India Pvt Ltd	95	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO2
3	Industrial Exposure to get into Real-Time Industry Challenges and demands with exposure to real-world EV industry applications	Workshop on “An Overview of Electric Vehicles and Simulation using MATLAB	04/02/2024	Techienest India Pvt Ltd	92	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO2
4	Industrial Exposure to get into Real-Time Industry Challenges and demands	Industry Visit to "Rajiv Gandhi Centre of Advanced Technology"	04/10/2023	Mr. V. P. Gupta	55	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO1
5	Industrial Exposure to get into Real-Time Industry Challenges and demands	Genus Power Infrastructures Limited (Corporate Office) is located in Sitapura, Jaipur.	06/11/2023	Mr. Devraj Tyagi	51	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO1
6	Industrial Exposure to get into Real-Time Industry Challenges and demands	Industry Visit to "TESCA Technologies Pvt. Ltd."	21/08/2024	Mr. Ashutosh Agarwal	49	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO1
7	Exposure to Continuous Learning Tools and Platforms	Expert Talk on “My Journey to becoming an Educator”	13/05/2024	Dr. Gajender Purohit	67	PO1, PO2, PO6, PO8, PO12
8	Comprehensive exposure to tools, platforms, and resources for lifelong learning	Expert talk on “Know more about Latest AICTE Rules and Regulations to make the Teaching-Learning Process more helpful for Students”	10/04/2023	Dr. Nikhil Kant (Deputy Director, AICTE)	54	PO1, PO2, PO5, PO6, PO7, PO8, PO12
9	To learn about sustainable design principles, green technologies, and environmental impact assessment tools	Expert Talk on “Climate Change and Sustainability”	05/12/2023	Mr. Varun Gaur, Managing Director De Calorie Energy Consultant LLP	68	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO1
10	Advanced tools for Modelling, simulation, and prediction	Expert Talk on Cloud Computing	03/10/2023	Mr. Ashutosh Saxena, AWS	63	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12
11	Exposure to Continuous Learning Tools and Platforms	Expert Talk on Discover IEEE: Opportunities in Membership & Volunteering	23/04/2024	Ms. Shatakshi Singh, Data Engineer, Lowe’s Companies Inc.	77	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12
12	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Workshop on Embedded System Design and Development using Arduino	14/09/2023	Mr. Peeyush Sanam, Exackt Tech fleeter Pvt Ltd.	83	PO1, PO2, PO3, PO4, PO5, PO8, PO12, PSO1
13	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Workshop on “QUANTUM ROBOTS-A Review, Structure and Applications”	07/05/2024	Dr. Parvinder Singh, Assistant Professor, Central University of Punjab	52	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO1
14	To develop the ability to convey complex engineering concepts clearly and professionally	National Conference (RACON-2024)	07/05/2024	Dept. of ECE, JECRC	100	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO10, PO12, PSO1, PSO2
15	Exposure to Advanced Simulation and Modelling Tools	Add-On Course on Artificial Intelligence and machine learning using Python	05/11/2024	Techienest India Pvt Ltd	63	PO1, PO3, PO5, PO7, PO10
16	To cover advanced research methodologies, statistical tools, and data analysis techniques	Add-On Course on Artificial Intelligence	22/08/2023	Techienest India Pvt Ltd	72	PO1, PO2, PO4, PO5, PO6, PO10, PO12
17	To cover advanced research methodologies, statistical tools, and data analysis techniques	Add-On Course on Machine learning with Data Science	04/02/2024	Techienest India Pvt Ltd	63	PO1, PO2, PO3, PO5, PO6, PO7, PO10, PO12, PSO1

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Industrial Exposure to get into Real-Time Industry Challenges and demands with exposure to real-world EV industry applications	Workshop on Electric Vehicle Technology	22/09/2022	Techienest India Pvt Ltd	90	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO2
2	Industrial Exposure to get into Real-Time Industry Challenges and demands	Industry Visit to "TESCA Technologies Pvt. Ltd."	30/09/2022	Mr. Ajay Sharma, Coordinator, TESCA Technologies	61	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO1
3	Industrial Exposure to get into Real-Time Industry Challenges and demands	Industry Visit to "SSTPL Technologies"	08/10/2022	Ms. Roopam Bindal	56	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO12, PSO1
4	To develop the ability to convey complex engineering concepts clearly and professionally	Expert Talk on “IEEE Membership and its Benefits” on IEEE Student Branch Inauguration Day	16/02/2022	Prof. Rohit Bhaker, MNIT, Jaipur	87	PO1, PO2, PO5, PO6, PO7, PO8, PO12
5	Exposure to Continuous Learning Tools and Platforms	Expert Talk on Learning of Futuristic Career Oriented Techniques	11/05/2023	Mr. Dwijendra Srivastava, Chief Mentor IMS - Rajasthan region	93	PO1, PO2, PO3, PO6, PO7, PO10, PO12
6	To learn about new technologies in use and its advancement	One Day Workshop 5G Technology and its challenges	15/09/2022	Sh. Rakesh Kumar Meena, Director Department of Telecommunication, Jaipur	84	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO10, PO12, PSO1
7	To develop the ability to convey complex engineering concepts clearly and professionally	National Conference (RACON-2023)	19/05/2023	Dept. of ECE, JECRC	100	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO10, PO12, PSO1, PSO2
8	To learn about new technologies in use and its advancement	Add-on Course on Machine Learning with Python	03/11/2022	Upflairs India Pvt Ltd	63	PO1, PO2, PO4, PO5, PO10, PO12
9	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Add-on Course on Embedded System Design and IOT	03/11/2022	Upflairs India Pvt Ltd	85	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO12, PSO1
10	To cover advanced research methodologies, statistical tools, and data analysis techniques	Add-on Course on Machine Learning and Data Science using Python	05/01/2022	Techienest India Pvt Ltd	64	PO1, PO2, PO4, PO5, PO10, PO12
11	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Add-on Course on Embedded System	15/09/2022	Upflairs India Pvt Ltd	79	PO1, PO2, PO3, PO5, PO9, PO10, PO12, PSO1, PSO2
12	Exposure to Advanced Simulation and Modeling Tools	Add-on Course on Artificial Intelligence	03/03/2023	Techinest India Pvt Ltd	74	PO1, PO2, PO4, PO5, PO10, PO12
13	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Add-on Course on Advance Embedded System and Design	20/08/2022	Upflairs India Pvt Ltd	72	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO12, PSO1
14	Exposure to Advanced Simulation and Modeling Tools	Add-on Course on Data Engineering over Clouds and DevOps	10/07/2022	Techienest India Pvt Ltd	68	PO1, PO2, PO5, PO6, PO10, PO11, PO12
15	To learn about new technologies in use and its advancement	Add-on Course on Python Application Development	10/07/2022	Techienest India Pvt Ltd	77	PO1, PO2, PO5, PO9, PO10, PO12
16	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Add-on Course on Advance Embedded System and IoT	10/03/2022	Upflairs India Pvt Ltd	72	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO12, PSO1

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Practical Exposure to Advanced Embedded Systems in Automation and other applications	2-Days Workshop cum Hands-on Practice on "Embedded System"	05/10/2021	Mr. Peeyush Sanam, Exackt Tech fleeters Pvt Ltd.	100	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO1
2	To learn about new technologies in use and its advancement	One Day Workshop on "Learn to code, Design the future"	03/03/2022	Mr. Siddharth Singh, UpflairsPvt. Ltd.	96	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO10, PO12, PSO1
3	Comprehensive exposure to tools, platforms, and resources for lifelong learning	Seminar on "Career Guidance & Future Opportunities After Engineering"	24/02/2022	Mr. Ekant Yadav, Selection Desk Academy	88	PO1, PO2, PO3, PO6, PO7, PO10, PO12, PSO1, PSO2
4	To learn about new technologies in use and its advancement	National Seminar on "Demystifying the Role of AI & Cyber Security for Industry 5.0"	02/02/2022	Dr. Mahesh Kolekar, Associate Professor, IIT Patna	94	PO1, PO2, PO3, PO6, PO7, PO10, PO12, PSO1
5	Practical Exposure to applications of various technological advancements	One Day hardware Project Exhibition on Embedded System & Its Application	03/12/2021	Dept. of ECE	100	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO10, PO12, PSO1, PSO2
6	To develop the ability to convey complex engineering concepts clearly and professionally	2nd International Conference on Advances in Materials Science, Communication and Microelectronics (ICAMCM-2022)	17/06/2022	Dept. of ECE, JECRC	100	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO10, PO12, PSO1, PSO2
7	To learn about new technologies in use, their applications and advancements	5-Days FDP on Advanced Sensor Technology for Efficient Biomedical and Energy Management in Smart Cities	03/01/2022	ATAL sponsored	35	PO1, PO2, PO3, PO4, PO10, PO12
8	Exposure to Advanced Simulation and Modeling Tools	Add-On Course on Machine Learning and Data Science using Python	05/09/2021	Upflairs India Pvt Ltd	83	PO1, PO2, PO4, PO5, PO10, PO12
9	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Add-On Course on Embedded System	11/10/2021	Upflairs India Pvt Ltd	92	PO1, PO2, PO3, PO5, PO9, PO10, PO12, PSO1
10	To learn about new technologies in use and its advancement	Add-On Course on Artificial Intelligence	08/01/2022	Techinest India Pvt Ltd	87	PO1, PO2, PO4, PO5, PO10, PO12
11	To enhance technical and coding skill-set for placements and future aspects	Add-On Course on Accenture Specific Training	18/08/2022	Mr. Abhishek B (FACE) Mr. Sivaraman Gananathan (FACE)	79	PO5, PO8, PO9, PO10, PO12
12	To enhance technical and coding skill-set for placements and future aspects	Add-On Course on TCS Specific Training	12/08/2022	Mr. Surender Praveen (FACE)	84	PO5, PO8, PO9, PO10, PO12
13	To enhance technical and coding skill-set for placements and future aspects	Add-On Course on Coding Workshop	03/03/2022	Ms. Sushma Sanjay Panwar (FACE)	70	PO1, PO2, PO3, PO5, PO9, PO10, PO12
14	Practical Exposure to Advanced Embedded Systems in Automation and other applications	Add-On Course on Advance Embedded System and Design	12/09/2021	Upflairs India Pvt Ltd	82	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO12, PSO1
15	Exposure to Advanced Simulation and Modelling Tools	Add-On Course on Data Engineering over clouds and DevOps	15/12/2021	Techinest India Pvt Ltd	82	PO1, PO2, PO5, PO6, PO10, PO11, PO12

2.2 Teaching - Learning Processes (100)

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

A. Adherence to Academic Calendar

A structured academic framework is pivotal to ensuring the timely and effective delivery of the curriculum. JECRC, Jaipur meticulously aligns its academic activities with the g

Step 1: Compliance with the University Calendar

The institute strictly follows the academic calendar prescribed by RTU, which outlines the overall academic schedule, examination timelines, and instructional periods for all a

Step 2: Institute-Level Academic Calendar Formulation and Implementation

Based on the tentative calendar issued by the university and considering the institution's own curriculum planning roadmap, an internal academic calendar is meticulously de calendar is strictly adhered to, with regular monitoring and follow-up by the academic and administrative leadership to ensure timely execution of all planned activities.

Department Academic Calend

Step 3: Planning and Execution of Continuous Internal Evaluation (CIE)

The Internal Quality Assurance Cell (IQAC) formulates a structured plan for Continuous Internal Evaluation (CIE), which is disseminated across all departments. The evaluat

- Two Internal Examinations per semester
- Continuous Assessment in Laboratory sessions, Project Work, and Assignments,
- Timely Evaluation of Course Outcomes (COs) to track student progress.

Based on CIE outcomes, students are categorized as fast learners or slow learners, enabling faculty to deploy targeted academic interventions. These include additional me performance.

This rigorous adherence to the academic calendar ensures academic discipline, predictability in operations, and timely assessment of student progress, thereby fostering an

B. Use of Various Instructional Methods and Pedagogical Initiatives

1. Alignment with Vision, Mission, and Outcome-Based Educational Philosophy

At JECRC, instructional strategies and pedagogical practices are deeply rooted in the institution's Vision and Mission, ensuring that all educational endeavours align with the

- **Vision & Mission Articulation**

The Vision defines the aspirational future of JECRC – to be a centre of excellence in technical education and research that contributes meaningfully to society and industry. T statements shape every academic decision, pedagogical model, and learning intervention.

- **Program Educational Objectives (PEOs)**

PEOs describe the broad career and professional accomplishments that graduates are expected to attain within a few years of completing the program. These objectives are

- **Program Outcomes (POs)**

POs represent a set of skills and attributes that students are expected to acquire by the time of graduation. These include domain-specific competencies such as problem-so

- **Program Specific Outcomes (PSOs)**

PSOs are specialized, discipline-focused competencies that students are expected to attain by the end of their engineering program. These outcomes reflect the unique stre applications. For instance, in the context of Robotics and Embedded Systems, the PSOs are designed to ensure that graduates possess in-depth technical knowledge and h

- **Course Outcomes (COs)**

Each course is designed with clearly defined Course Outcomes that contribute directly to the attainment of the POs and PSOs. These COs are formulated by the respective outcome attainment.

The instructional design integrates these layered outcomes through Outcome-Based Education (OBE) principles, employing active learning strategies such as:

- Simulation-based labs
- Problem-based learning
- Case studies, and
- Experiential and collaborative projects

Through this structured pedagogical framework, the institute ensures cohesive alignment between curriculum delivery and graduate attributes, empowering students to emer

2. Centre of Excellence: The Centre of Excellence (CoE) in Embedded Systems Design is a specialized research and innovation hub focused on advancing technologies ir innovation, product development, and practical skill-building in next-generation embedded solutions. It serves as a collaborative platform for students, faculty, and researche encouraging knowledge sharing, collaborative problem solving, and interdisciplinary research among participants. Through hands-on projects, workshops, and mentorship, l

3. Virtual Labs: The Virtual Labs initiative in the Department of Electronics & Communication Engineering at JECRC, Jaipur, is a forward-thinking pedagogical tool aimed at experiments in a virtual environment, removing constraints related to physical infrastructure and accessibility. This initiative strengthens conceptual understanding, enhances bridging the gap between theoretical learning and industrial applications.

4. Collaborative Learning: The department encourages interactive and peer-supported learning environments through collaborative methods. Students engage in dynamic teamwork, shared problem-solving, and holistic understanding of complex electronics concepts.

5. PowerPoint Presentations: The integration of student-led PowerPoint presentations promotes a learner-centric environment. By presenting on emerging technologies-lik while simultaneously building confidence and subject mastery.

6. Case Studies: Case-based learning fosters analytical thinking by allowing students to examine real-world issues in domains like RF Communication, Digital Signal Proces innovative solutions-mirroring industry-grade problem-solving scenarios.

7. Digital Library Access: The central digital library is a knowledge powerhouse offering a rich collection of reference materials specific to ECE. It includes access to IEEE J with global advancements in electronics and communication technology.

8. Brainstorming Sessions: Interactive brainstorming is embedded into seminars and advanced lab modules. Students explore contemporary challenges such as energy-e competitions, students sharpen their creativity and technological foresight.

9. MOOCs Integration: JECRC has been a pioneer in integrating Massive Open Online Courses (MOOCs) from NPTEL, SWAYAM, and Coursera into its teaching pedagog and Microelectronics, supplementing their formal curriculum and promoting lifelong learning.

10. Google Classroom & Digital Assignments: Google Classroom acts as an efficient digital interface between faculty and students. Course materials, assignments, and l platform ensures real-time feedback, streamlined content delivery, and continuous academic engagement.

11. Project-Based Learning (PBL): PBL is a cornerstone of the ECE teaching model. Students undertake hands-on projects involving Embedded Systems, Robotics, IoT, a principles into practical solutions.

12. Student-Driven Clubs: ECE-specific student clubs like Xananoid Robotics and IEEE JECRC Student Chapter provide platforms for hands-on learning and interdisciplina thinking.

13. Software Integration in Learning: Modern ECE education at JECRC is heavily integrated with industry-relevant software tools such as MATLAB, Multisim, Xilinx, and L high-tech roles in core and allied industries.

14. Faculty Diary: To enhance transparency and academic rigor, faculty members maintain detailed Faculty Diaries that document lesson plans, delivery objectives, course

	Analog Circuits Lab (4EC4-22) **Experiment List (As per RTU, Kota Sylla**
Experiment 1	Study and implementation of Voltage Series and Current Series Negative Feedback Amplifier.
Experiment 2	Study and implementation of Voltage Shunt and Current Shunt Negative Feedback Amplifier.
Experiment 3	Plot frequency response of BJT amplifier with and without feedback in the emitter circuit and calculate bandwidth, gain b
Experiment 4	Study and implementation of series and shunt voltage regulators and calculate line regulation and ripple factor.
Experiment 5	Plot and study the characteristics of small signal amplifier using FET.
Experiment 6	Study and implementation of push pull amplifier. Measure variation of output power & distortion with load and calculate tl
Experiment 7	Study and implementation of Wein bridge oscillator and observe the effect of variation in oscillator frequency.
Experiment 8	Study and implementation of transistor phase shift oscillator and observe the effect of variation in R & C on oscillator frec
Experiment 9	Study and implementation of the following oscillators and observe the effect of variation of capacitance on oscillator freq
Experiment 10	Study and implementation of the Inverting And Non-Inverting Operational Amplifier.
Experiment 11	Study and implementation of Summing, Scaling And Averaging of Operational Amplifier
Experiment 12	Implementation of active filters using OpAmp.
Content Beyond Experiments (Other than prescribed in University Curriculum)	
Experiment 1	To study Astable and Monostable Multivibrator using IC 555
Experiment 2	To design and analysis Single-phase Voltage Multiplier

Communication, Microprocessors, and Embedded Systems.

Beyond-Syllabus Innovation: To foster creativity and practical proficiency, additional experiments beyond the prescribed syllabus are introduced. For example, students ma

Well-Equipped Infrastructure: Each laboratory is furnished with state-of-the-art equipment such as DSOs, Function Generators, Spectrum Analysers, and FPGA Boards. F

Lab Manuals & Assessment: Comprehensive lab manuals with step-by-step experimental protocols and objective-based outcomes are provided. Students work in teams, r

Skill Reinforcement: Lab work supports the development of technical acumen, experimental accuracy, data interpretation, and engineering judgment. Students are encoura

Table 2.2.1 (A): Laboratory Plan

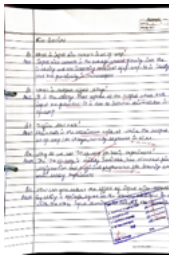
Experiment No.	**BATCH (A/B)**					
Turn-1	**Turn-2**	**Turn-3**	**Turn-4**	**Turn-5**	**Turn-6**	**Turn-7**
A	B	C	D	E	**First Internal Viva**	-
E	A	B	C	D		-
D	E	A	B	C		-
C	D	E	A	B		-
B	C	D	E	A		-
-	-	-	-	-		A
-	-	-	-	-		E
-	-	-	-	-		D
-	-	-	-	-		C
-	-	-	-	-		B

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

Table 2.2.1 (B): Continuous Evaluati

JAIPUR ENGINEERING COLLEGE AND												
Department of Electronics and Commu												
Internal Marks Experimer												
SEMESTER:4th SECTION:A Subject &												
Experiment Number	**Exp 1**				**Exp 2**				**Exp 3**			
Name of Student	**Experiment Setup**	**Execution**	**Presentation/Neatness**	**On time submission**	**Experiment Setup**	**Execution**	**Presentation/Neatness**	**On time submission**	**Experiment Setup**	**Execution**	**Pres**
	(2)	**(4)**	**(2)**	**(2)**	**(2)**	**(4)**	**(2)**	**(2)**	**(2)**	**(4)**	**(2)**
AAYUSH GOYAL	2	3	2	2	2	4	2	2	2	4	2
AAYUSH RATHORE	1	2	1	1	2	2	2	1	2	2	2
ABHAS GUPTA	2	2	1	0	2	2	2	1	2	2	2
ABHINAV DUBEY	1	2	2	1	2	2	2	1	2	3	2
ABHISHEK KR. GUPTA	2	3	2	2	2	4	2	2	2	4	2
ADITYA AGRAWAL	1	2	1	1	1	2	1	1	1	2	1

Sample Evaluation in Prac



The Electronics & Communication Engineering Department has effectively integrated Information and Communication Technology (ICT) into its laboratory pedagogy to eleva efficient revision. These quizzes also foster healthy competition and critical thinking among students.

Faculty and Lab Staff Development

- **Faculty Empowerment**: Faculty members are consistently encouraged to participate in Faculty Development Programs (FDPs), MOOCs, and SWAYAM courses, esp
- **Technical Skill Enrichment for Lab Technicians**: Laboratory assistants are regularly trained on both technical and soft skills, including instrument calibration, circuit

Structured Laboratory Methodology

- **Curriculum-Aligned Laboratory Manuals**: Custom-designed laboratory manuals are prepared in alignment with the university-prescribed syllabus, and additional ex and Raspberry Pi.
- **Pre-Lab Instructions & Safety Briefings**: Prior to each laboratory session, faculty members provide comprehensive guidance regarding experimental objectives, saf

- **Roster-Based Lab Scheduling**: Experiments are conducted in well-equipped labs with roster-based student grouping, allowing optimal use of time and resources.
- **Evaluation & Documentation**: Students maintain detailed lab records, which are reviewed and signed off by faculty members. Each student's performance is assess
- **IS Standards Correlation**: Experiment results are mapped to relevant IS standards, enhancing real-world applicability and instilling professional ethics.

Promoting Higher-Order Thinking

Laboratory sessions are designed to encourage critical thinking and analytical reasoning. Assignments and mini-projects push students to extend beyond textbooks, engage

D. Tailored Support for Academically At-Risk Students

A robust mentorship framework is in place to support students with slower academic progression:

- Students are identified through academic assessments such as internal tests and lab performance.
- Remedial classes are conducted to revisit difficult concepts in subjects like Analog Circuits, Digital System Design, and Control Systems.
- Additional academic aids like customized notes, extra tutorials, and practice sets are provided.
- Class coordinators maintain active communication with parents in cases of poor attendance or academic distress.
- Students receive targeted placement preparation assistance through mock interviews, resume-building workshops, and career counselling sessions.

E. Enrichment Opportunities for Advanced Learners

High-performing students are encouraged to:

- Enroll in advanced MOOCs (e.g., VLSI, RF Design, AI in Communication).
- Take part in competitive events organized by national bodies and institutional clubs.
- Undertake value-added projects that go beyond the curriculum, often involving embedded system prototypes, antenna design simulations, or machine learning applica
- Leverage facilities such as the Centre of Excellence, Innovation Cell, and E-Cell for incubation of start-up ideas and entrepreneurial ventures.
- Attend expert talks and industrial seminars for exposure to real-world ECE practices.
- Join dedicated GATE training sessions to prepare for postgraduate admissions and PSU exams.

F. Assurance of Quality in Classroom Teaching

Teaching quality is rigorously ensured through:

- Teaching Demonstrations: New faculty undergo an evaluative teaching demonstration before classroom allocation.
- Continuous Pedagogical Training: Regular FDPs are held on instructional techniques, classroom engagement, and curriculum delivery.
- Structured Course Planning: Faculty members meticulously prepare lesson plans, aligning course outcomes with program-specific goals.

G. Student Feedback Mechanism

A comprehensive feedback system is deployed at the end of each semester through Google Forms. The feedback is analyzed by the Internal Quality Assurance Cell (IQAC)

- One-on-one mentoring sessions by the Head of Department (HOD) for faculty members requiring improvement.
- Recognition and documentation of best practices adopted by highly rated faculty.
- Continuous loop of feedback and action to ensure sustained enhancement in the teaching-learning process.

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

To ensure rigorous academic standards and alignment with program objectives, the Electronics & Communication Engineering Department follows a structured and quality-assured approach in the preparation of internal semester question papers. The process is designed to promote higher-order thinking, comprehensive assessment, and industry-aligned evaluation.

Step 1: Structured Framework Based on IQAC Guidelines

Internal semester question papers are developed in a multi-tier format, aligned with the academic assessment framework prescribed by the Internal Quality Assurance Cell (IQAC). The papers are divided into well-defined sections that assess various levels of cognition, covering conceptual clarity, analytical reasoning, and problem-solving capabilities.

To ensure relevance and competitive edge, question design references are drawn from:

- Previous RTU university examinations
- GATE, IES, and PSU examinations
- Other nationally recognized competitive assessments related to core ECE domains such as Signal Processing, Control Systems, Communication Engineering, and Embedded Systems.

Step 2: Alignment with Bloom's Taxonomy and Course Outcomes

Each question paper is meticulously crafted to reflect Bloom's Taxonomy, encompassing all levels from Knowledge to Evaluation.
Questions are mapped directly to Course Outcomes (COs), ensuring a coherent link between the assessment and desired student competencies. This pedagogical approach ensures that students are evaluated not only on memory recall but also on their ability to analyze, design, and synthesize ECE systems and solutions.

Step 3: Multi-Level Scrutiny and Quality Assurance

The draft question papers prepared by subject faculty members undergo a rigorous scrutiny and moderation process:

- Internal Scrutiny Committee: A departmental moderation committee reviews the technical accuracy, cognitive balance, and CO-PO mapping of each paper.
- Expert Review: Subject experts from academia or industry are invited to evaluate the technical depth and industry relevance of the questions.
- If any question paper is found lacking in rigor, clarity, or alignment, it is returned to the concerned faculty with specific feedback for revision and enhancement.

Step 4: Finalization and Examination Logistics

Following scrutiny and approval, the moderation committee finalizes the set of question papers. The selected versions are then securely forwarded to the Examination Cell, which handles printing, confidentiality, and secure distribution of the papers.The entire process ensures transparency, consistency, and academic integrity, while also preparing students for real-world challenges and competitive examinations.

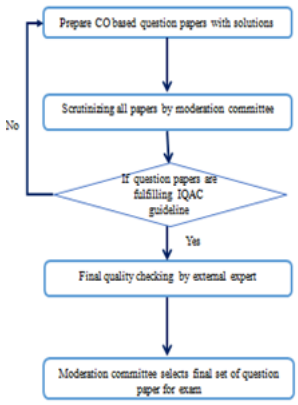


Figure 2.2.2 (A): Process of Preparation of Question Papers of Internal Examination

Process for Evaluation of Internal Semester Examinations and Assignments

Step 1: Timely Evaluation and Conceptual Reinforcement

Upon the conclusion of each internal theory examination, the respective course faculty evaluates answer scripts within the designated timeframe stipulated by the institution. Post-evaluation, a detailed discussion is held in the classroom to provide constructive feedback and clarify conceptual misunderstandings. Answer scripts are returned to students, enabling them to self-assess their performance. Key concepts, common errors, and effective answering strategies are emphasized to reinforce learning and encourage academic improvement.

Step 2: Student Grievance Redressal Mechanism

In cases where students express dissatisfaction with the evaluation, a structured grievance redressal process is implemented. Students are provided with a standardized grievance form through which they may request re-evaluation. The respective faculty member addresses these concerns within a defined timeline, ensuring transparency, fairness, and academic integrity.

Step 3: Course Outcome Analysis and Learner Categorization

Following the resolution of grievances and completion of evaluations, faculty members perform a comprehensive Course Outcome (CO) attainment analysis. Based on this assessment:

- Students achieving ≥ 70% attainment in all mapped COs are categorized as Fast learners.
- Those falling below the threshold are identified as Slow learners.

This classification facilitates targeted academic support and intervention. Internal marks are then compiled and submitted to the Examination Cell for institutional records.

Step 4: Differentiated Instruction through Assignment Design

To challenge Fast learners and extend their understanding, faculty assign advanced problem sets derived from past university exams, GATE, IES, PSU, and other competitive examinations relevant to Electronics & Communication Engineering. Simultaneously, CO-aligned assignments are given to slow learners, followed by structured discussions to reinforce foundational knowledge. Opportunity of Retest in form of Class-test is provided for slow learners to enhance CO attainment. Faculty members mentor slow learners through one-on-one or small group sessions to ensure they are on track for academic success.

Step 5: Consolidation and Submission of Internal Assessment Records

Once all evaluations-internal assessments, assignments, and any retests-are completed, faculty members consolidate the final internal marks for each student. This includes performance across Mid-Term Test 1 (MTT-1), Mid-Term Test 2 (MTT-2), Retests, and Assignments.

Final scores are normalized (if required) and formally submitted to the Examination Cell, which is responsible for uploading the marks onto the Rajasthan Technical University (RTU) portal, in adherence to university protocols.

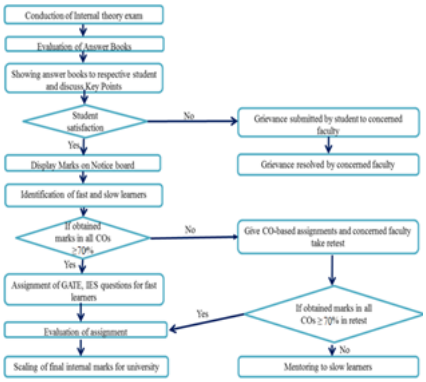


Figure 2.2.2 (B): Process of Evaluation of Internal Examination

Ensuring the Quality of Internal Semester Question Papers

To uphold academic precision and maintain the integrity of internal assessments, the Department of Electronics & Communication Engineering has constituted a dedicated **Moderation and Scrutiny Committee**. This committee operates in alignment with the guidelines prescribed by the Internal Quality Assurance Cell (IQAC) and comprises experienced faculty members entrusted with ensuring the academic relevance, fairness, and outcome orientation of question papers.

The committee plays a pivotal role in maintaining high-quality standards by systematically reviewing and moderating all internal semester question papers in close coordination with the course instructors. Each question is meticulously mapped to the respective **Course Outcomes (COs)**, thereby enabling outcome-based evaluation.

This structured approach not only enhances the validity and reliability of assessments but also facilitates the identification of **Slow and Fast learners** based on their performance against pre-established benchmarks. The insights gained from this mapping process are instrumental in tailoring academic support and enrichment activities, thereby reinforcing a student-centric and performance-driven learning ecosystem.

Table 2.2.2 (A): Moderation and Scrutinizing Committee

CAY (Session 2023-24)				
S. No.	**Faculty Name**	**Designation**	**Qualification**	**Role**
1	Dr. Sandeep Vyas	Ph.D.	HOD & Professor	Member
2	Dr. Parul Tyagi	Ph.D.	Asso. Professor	Head
3	Dr. Girraj Sharma	Ph.D.	Asso. Professor	Member
4	Mr. Rajkumar Jain	M. Tech.	Asst. Professor	Member
5	Mr. Bhoopesh Kumar Kumawat	M. Tech.	Asst. Professor	Member
CAYm1 (Session 2022-23)				
S. No.	**Faculty Name**	**Designation**	**Qualification**	**Role**
1	Dr. Sandeep Vyas	Ph.D.	HOD & Professor	Member
2	Dr. Parul Tyagi	Ph.D.	Asso. Professor	Head
3	Dr. Girraj Sharma	Ph.D.	Asso. Professor	Member
4	Dr. Vinita Mathur	Ph.D.	Asso. Professor	Member
5	Mr. Rajkumar Jain	M. Tech.	Asst. Professor	Member
CAYm2 (Session 2021-22)				
S. No.	**Faculty Name**	**Designation**	**Qualification**	**Role**
1	Dr. Sandeep Vyas	Ph.D.	HOD	Member
2	Dr. Parul Tyagi	Ph.D.	Asso. Professor	Head
3	Dr. Girraj Sharma	Ph.D.	Asso. Professor	Member
4	Mr. Rajkumar Jain	M. Tech.	Asst. Professor	Member
5	Dr. Vinita Mathur	Ph.D.	Asso. Professor	Member

MTT Paper (Sample)

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

MTT II

Academic Year 2024-25 (ODD Semester)

Course	:	B. Tech.	Date	:	
Semester/ Section	:	V	Time Duration	:	90 min
Subject& Subject Code	:	Control Systems	Max. Marks	:	40

COs	Course Outcomes
CO1	Characterize a system mathematically and find its steady state behaviour.
CO2	Analyze stability of a system using different tests.
CO3	Design various controllers.
CO4	Solve linear, non-linear and optimal complex control problems.
CO5	Designing state model for a given system of equations.

Q. No.	CO	Level	Questions	Marks
			PART- A: Attempt All Questions (5x2 = 10Marks) (Answer should be given up to 25 words only)	
1.	CO 3	L-2	Discuss the term frequency response.	2
2.	CO 3	L-2	Describe the procedure to sketch the polar plot.	2
3.	CO 4	L-5	Explain nonlinear systems?	2
4.	CO 5	L-2	Elaborate on the advantages of state space techniques?	2
5.	CO 5	L-4	Differentiate controllability and observability.	2
			PART-B: Attempt ANY THREE Questions (3x5 = 15Marks) (Analytical/Problem Solving Questions)	
1.	CO 3	L-3	Sketch the polar plot for G(s) = [illegible]	5
2.	CO 3	L-3	Sketch the Bode plot for the transfer function G(s)= [illegible]	5
3.	CO 4	L-1	Write a short note on lead-lag compensation?	5
4.	CO 5	L-5	A single input single output system is given as? $\dot{x}(t) = \begin{bmatrix} -1 & 0 & 0 \\ 0 & -2 & 0 \\ 0 & 0 & -3 \end{bmatrix} x(t) + \begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix} u$	5

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

			$y = [1 \;\; 0 \;\; 2] x(t)$ Test the controllability and observability	
			PART-C: Attempt ANY THREE Question (2x7.5 = 15Marks) (Descriptive/Analytical/Problem Solving/Design Questions)	
1.	CO5	L-5	Use Nyquist criterion, evaluate whether the closed loop system having the following open loop transfer function is stable or not G(s) H(s)= $\frac{1}{s(1+2s)(1+s)}$	7.5
2.	CO4	L-6	Design a lag compensator for a system whose open loop transfer function is G(s)= $\frac{K}{s(s+1)(s+4)}$ to meet the following specifications. Damping ratio=0.5, settling time=10sec, velocity error constant $K_v \geq 5$	7.5
3.	CO5	L-6	Construct the state model of a system characterized by the differential equation. $\frac{d^3y}{dt^3} + 6\frac{d^2y}{dt^2} + 11\frac{dy}{dt} + 6y = u$ Give the block diagram representation of the state model.	7.5
4.	CO5	L-5	A system is described by the matrices $A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & -2 & -3 \end{bmatrix}$, B= $\begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix}$, C = $[1 \;\; 2 \;\; 0]$ evaluate the transfer function.	7.5

2.2.3 Quality of student projects (25)

Institute Marks : 25.00

Project-Based Learning: Identification, Allotment, Monitoringand Evaluation Process

Project work undertaken by students serves as a comprehensive reflection of their cumulative learning, integrating knowledge across all Program Outcomes (POs) and aligning with contemporary technical and societal challenges. To ensure academic rigor and quality, the department has instituted a structured and multi-tiered evaluation process:

Project Identification

The identification of student projects is a strategically guided process that aligns with course learning outcomes, emerging industry demands, and societal needs:

- Faculty members propose project topics grounded in curriculum relevance, contemporary research domains, and industry trends—especially in areas such as Embedded Systems, IoT, Wireless Communication, VLSI, and Robotics.
- Students are encouraged to bring forth ideas inspired by internships, certifications (e.g., MOOCs), industry interactions, or personal interests.
- Projects with industry collaboration or practical applicability are highly encouraged to instil a problem-solving mindset and real-world exposure.

Project Allotment Process

To ensure optimal alignment between student capabilities and project scope, a systematic allotment procedure is followed:

- The Project Coordinator circulates a notification requesting faculty members to submit a curated list of project topics based on their areas of specialization.
- A departmental specialization matrix is shared with students to facilitate informed discussions with faculty mentors.
- Students collaborate with faculty to refine their project ideas, ensuring they align with current technologies and institutional objectives.
- Faculty members are advised to form balanced groups comprising students with diverse strengths (both advanced and slower learners) to promote peer-to-peer learning and holistic development.
- The approved list of final project topics is published for departmental reference and student access.

Project Evaluation and Monitoring

- Submitted project proposals undergo a stringent review by the Project Assessment Committee, constituted to monitor and assess student projects throughout the academic term, evaluates by considering key evaluation parameters such as Environmental sustainability, Cost-effectiveness, Ethical considerations, Safety compliance, and overall utility.
- Continuous evaluation is carried out through defined rubrics encompassing technical depth, innovation, teamwork, societal impact, and alignment with POs and PSOs.
- Each project is closely supervised by a Faculty Mentor, with regular progress reviews coordinated by the Project Coordinator to ensure timely completion and outcome-based deliverables.
- Assessment includes multiple checkpoints such as proposal presentation, interim reviews, demonstration of working models/simulations, and final viva-voce, promoting reflective learning and professional readiness.

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

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

S. No.	Title of project	Evaluation (10)						Relevance with POs and PSOs	Remarks
		Project Guide	Usefulness of the Project (3)	Safety (2)	Ethics & Communication (2)	Project Management (3)	Total (10)		
1	X		2	2	2	2	8	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1/PSO2	**ACCEPT**
2	Y		1	0	1	1	3	PO1, PO2, PO3, PO7, PO9, PO10	**REJECT**

The Major Project is strategically structured into two progressive phases to ensure depth and continuity in student learning.

- Phase I is undertaken during the 7th semester, focusing on problem identification, literature review, requirement analysis, and initial design or simulation.
- Phase II, conducted in the 8th semester, builds upon the foundation laid in the first phase and involves implementation, testing, performance evaluation, and final documentation.

This bifurcated approach allows students to engage in sustained inquiry, apply theoretical knowledge to practical challenges, and develop a comprehensive solution aligned with industry standards and societal needs.

Continuous Monitoring of Project Progress

- The Project Coordinator disseminates structured timelines for progress evaluations and final report submissions by prominently displaying deadlines on official notice boards and communicating them via departmental channels.
- Each student group is mandated to submit periodic progress reports to their assigned faculty mentor, detailing milestones achieved, challenges encountered, and next steps in alignment with the project objectives.
- A monthly review mechanism is implemented, wherein each project team presents their progress through a structured presentation and viva-voce session before the Project Assessment Committee. The committee critically evaluates the projects development trajectory, provides constructive feedback, and recommends corrective measures to ensure technical soundness and alignment with academic and industry standards.

Phase I (B.Tech. VII SEM)

- Stage 1: Formation of Groups
- Stage 2: Selection of Supervisor
- Stage 3: Assignment of Supervisor/Project guide to Each Group
- Stage 4: Submission of the Synopsis Report and Synopsis Presentations
- Stage 5: Design and development of Project with Continuous Assessment by project supervisor and End term university practical Exams

Phase II (B.Tech. VIII SEM)

- Stage 6: Project Status Report (PSR) by Supervisor from work done so far up to VII semester
- Stage 7: Project Status Report (PSR) by the respective project lab faculty
- Stage 8: Submission of the Project Report
- Stage 9: Internal Assessment
- Stage 10: External Exam
- Stage 11: Research Paper submission on the Project work

Table 2.2.3(B): Week-wise Dissemination of work to be done

PHASE-I			
S. NO.	**Concerned Authority**	**Week No.**	**Activity**
1	Project Coordinator/Faculty	I	Formation of student groups
2	HOD/Project Coordinator/Faculty	I	Selection and Appointment of Supervisor
3	Student	II	Submission of the Synopsis Report and Synopsis Presentations
4	Project Coordinator/ Supervisor	II	Selection of projects
5	Student / Supervisor	III	Submission of scope and detailed plan to supervisor
6	Student	IV - V	Survey and information collection
7	Student / Supervisor	VI - VII	Purchasing of raw material, Demo to the guide
PHASE-II			
S. NO.	**Concerned Authority**	**Week No.**	**Activity**
8	Project Coordinator/Faculty	I - II	Display of Model and project work in the Lab
9	HOD/Project Coordinator/Faculty	III	Intermediate Exam by lab faculty
10	Student	IV - V	Practical demo of the work
11	Project Coordinator/ Supervisor	VI - VII	Draft Report submission, verification of work
12	Student / Supervisor	VIII	Final submission Report in hard bound
13	Student	IX	Final internal exam Viva/Quiz
14	Student / Supervisor	As per Date	External Exam

Project Evaluation Framework

- At the completion of the semester, each project team delivers a comprehensive presentation followed by a viva-voce, evaluated by an external examiner in the presence of peers, fostering an environment of academic exchange and constructive critique.
- Teams are required to submit a detailed project report, encompassing technical documentation, outcomes, and a delineation of individual contributions by each team member, thereby ensuring transparency and accountability.
- A department-wide project exhibition is organized at the end of the term, wherein students showcase their innovations and prototypes. Projects are demonstrated live before external experts, fellow students, and faculty, allowing for peer learning and expert validation.
- As part of academic enrichment, all students must author and present a research paper based on their project work in the annual national conference hosted by the department. Participation is compulsory and duly credited. The conference invites distinguished academicians and industry professionals to provide insightful feedback and assess the quality of student research.
- All presented papers are compiled as conference proceedings, meticulously archived by the department, and made accessible online through the institute's official website.
- Each project is thoroughly mapped with relevant Program Outcomes (POs) and Program Specific Outcomes (PSOs), and evaluated using a predefined rubric-based assessment system. This ensures accurate measurement of outcome attainment and alignment with the program's academic objectives.

Table 2.2.3 (C): Project Assessment

Phase-I MID Evaluation (Assessment-1)					
Selection of Project	**Synopsis Submission and Presentation**	**Innovation/ Novelty in Idea**	**Survey and Data Collection**	**Mid-Sem I Internal Exam (Viva, Quiz, etc.)**	**Total**
(10)	**(10)**	**(10)**	**(10)**	**(30)**	**(70)**

Phase-II MID Evaluation (Assessment-2)						
Project report	**Power-point Presentation**	**Project Model and Demo**	**Overall Role in Project work**	**Mid-Sem II Internal Exam (Viva, Quiz, etc.)**	**Project Coordinator Evaluation**	**Total**
(10)	**(20)**	**(20)**	**(10)**	**(30)**	**(50)**	**(140)**
External Marks						
Project Demo		**Presentation**		**Quiz Exam**	**Viva**	**Total**
(40)		**(40)**		**(30)**	**(30)**	**140**
Overall Project Marks						
Phase-I MID Evaluation Marks	**Phase-II MID Evaluation Marks**	**Internal Marks**	**External Marks**	**Total Project Marks (For CAYm1 and CAYm2)**	**Scale Down to 100 (For CAY)**	
(70)	**(140)**	**(210)**	**(140)**	**(350)**	**100**	

Table 2.2.3 (D) List of Allotted Projects and Mapping with POs and PSOs

Session 2023-24						
S. No.	**Group Members**	**Name of Project**	**Technological Area**	**Recognition/ Award/ Publication**	**POs**	**PSOs**
1	Chetna Agarwal Ayush Sharma Abhijeet Dadheech Akshat Dhyani	Fractal with Split Ring Resonator for Wireless Applications	RF & Wireless Communication		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1
2	Gouri Mansinghka Ayush Mittal Aryan Sharma Anurag Kumar Shukla	Automatic Traffic System for Emergency Purpose	Embedded Systems, Smart Mobility	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1
3	Atul Singhal Arjun Amit Solanki Dhruv Goyal	Fire Safety Drone for Animals in Forest	Drones, Environmental Safety	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1
4	Hitin Vaswani Aditya Sharma Abhay Khandelwal Ayush Soni	IOT Based Real Time Water Nutrition Monitoring System for Hydroponic Plants	IOT, Agriculture Tech	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1
5	Harsh Pareek Anu Shekhawat Bal Krishan Saini Aman Sharma	AI Based Chatbot to Answer FAQs	Artificial Intelligence, NLP		PO01, PO02, PO03, PO04, PO05, PO08, PO09, PO10, PO11, PO12	PSO1
6	Garvita Gupta Divya Saxena Harshvardhan Sharma Ghanishth Kumawat	Car Parking System	IOT, Smart Cities	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO09, PO10, PO11, PO12	PSO1, PSO2
7	Bhavika Saini Divyanshi Upreti Deepak Vijay Harsh Rawal	Velocity Violation Monitoring and Charge System	IOT, Transportation		PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1, PSO2

8	Archita Khandelwal Abhi Soni Akshat Audichya Abhijeet Bhatnagar	BlazeGuardian - All-in-One Firefighter with Automated & Manual Modes, Camera, and RF	Robotics, Safety Systems		PO01, PO02, PO03, PO04, PO05, PO06, PO08, PO09, PO10, PO11, PO12	PSO1, PSO2
9	Chirag Jain Ashish Gupta Ashwani Sharma Ankit Doot	Microstrip Patch Antenna for Ku-band Satellite Applications	RF Engineering		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1
10	Himanshu Ameta Ankit Kumar Sharma Chirayu Trivedi Ashish Tiwari	Hazard Hunter: Gas Surveillance Robot	Robotics, Hazard Detection	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1
11	Chandra Prakash Gupta Chinmay Jain Dishant Chejara Aman Goyal	Next Generation Street Lighting and Fault Detection	Smart Cities, Energy Systems	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1, PSO2
12	Ayushi Agarwal Anubhav Singh Diwya Sudarshan Kaushik Himanshu Mittal	GPS/GSM SOS Tracking Device	Embedded Systems, GPS		PO01, PO02, PO03, PO04, PO05, PO06, PO09, PO10, PO11, PO12	PSO1
13	Anjali Chandan Kumar Amirullah Khan Bhuvan Kumar Singh	Feature Selection using Walrus Optimization Algorithm	Machine Learning		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	
14	Amit Kumar Aditya Raj	A Comprehensive Model for Intelligent Bins in Smart Cities Leveraging IOT	IOT, Smart Waste Management	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1
15	Manas Agrawal Khushi Bindal Pranika Goyal Laxmi Narayan	Small scale Wind Energy device	Renewable Energy		PO01, PO02, PO03, PO04, PO05, PO07, PO09, PO10, PO11, PO12	PSO1, PSO2
16	Nidhi Mundra Naman Doriya Nayan Jain Keshav Yadav	Wrist Watch Oscilloscope	Embedded Systems, Instrumentation		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1
17	Nilanshi Jain Kishan Gopal Jetwal Nikhil Bansal Nirvigh Nama	Smart Bullet Proof Jacket	Defence Tech, Embedded Systems		PO01, PO02, PO03, PO04, PO05, PO06, PO09, PO10, PO11, PO12	PSO1
18	Jyoti Soni Khushi Maheshwari Mohan Lal Kritika Sharma	A Digital Water Bottle	Embedded Systems	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1
19	Komal Gupta Krishna Jangir Priyanshu Jain Preetam Malakar	Multi-objective Greylag Goose Optimization	Optimization Algorithms, AI		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1

20	Mitali Vinocha Nidhi Tirthani Payal Soni Priyanshu	Solar Wireless Electric Vehicle Charging System	Renewable Energy, Automotive	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1, PSO2
21	Pankaj Kumar Yadav Nitesh Rao Love Dev Singh Nupur Agarwal	Smart Mines Detector	Safety Devices, IOT	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO08, PO09, PO10, PO11, PO12	PSO1
22	Manendra Saini Ms Pooja Choudhary Mohd Adnan Zaidi Kanad Mishra	Smart Way Toll Tracker.	IOT, GPS	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO09, PO10, PO11, PO12	PSO1, PSO2
23	Pulak Gupta Lakshya Jain Nikhil Agarwal Nikhil Nagori	SafeGuard: Child & Senior Proximity	Safety & Surveillance, IOT		PO01, PO02, PO03, PO04, PO05, PO06, PO08, PO09, PO10, PO11, PO12	PSO1
24	Mihir Natani Kalash Kshetija Nitin Mishra Kinshuk Pareek	Feature Selection using Metaheuristic Technique	Machine Learning, Optimization		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1
25	LakshtaNandwana Khushi Kachhara Keshav Thakuriya Pratham Kapoor	Solar Panel Cleaning Robot	Robotics, Renewable Energy	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO07, PO09, PO10, PO11, PO12	PSO1, PSO2
26	Rahul Sharma Rohan sharma Sameer mathur Rahul Singh	Fingerprint Door Lock using Arduino	Embedded Systems, Security	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO08, PO09, PO10, PO11, PO12	PSO1, PSO2
27	Vishal Kumawat Ramkesh Bairwa Purshotam Priyansh Gupta	Domestic Electric Power Generator operates with different Energy sources	Renewable Energy		PO01, PO02, PO03, PO04, PO05, PO07, PO09, PO10, PO11, PO12	PSO1, PSO2
28	Nakul Rathore Ronak Maheswari Rohit Sharma Shivam Vijay	No Parking System	Smart Infrastructure, IOT	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO09, PO10, PO11, PO12	PSO1, PSO2
29	Pulkit galav Hardik Parakh Anshul Yadav Manav Sharma	Automatic Drug Dispenser	Healthcare Tech, Embedded	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO09, PO10, PO11, PO12	PSO1
30	Saloni Goyal Siddharth Sharma Shashank Mangal Syed Azhan Rizvi	Study and Modeling of Photonic Crystal Fiber and its Applications	Photonics, Simulation		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1
31	Ronit kumarjain Sapan mittal Yashvi Jain Vaibhav bansal	Soil Nutrient Analysis	Agriculture Tech, Sensors		PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1

32	Vipul Agarwal Vishal jain Rishi saini jai vardhannagar	Wind Power Generator	Renewable Energy, Mechanical Systems		PO01, PO02, PO03, PO04, PO05, PO07, PO09, PO10, PO11, PO12	PSO1
33	Yogesh Kumar Dadhich Tushar Chaturvedi Yash Mittal Ritik chhipa	Conference Portal	Web Tech, Communication	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1
34	Sneha Jain Shreyansh shree Gangwal Stuti Arora Sarthak Saxena	Ventilator support with BPM, Blood Oxygen Monitor, and Temperature Monitoring	Medical Devices, Embedded		PO01, PO02, PO03, PO04, PO05, PO06, PO08, PO09, PO10, PO11, PO12	PSO1
35	Shivansh Bhardwaj Sanskar Kulshrestha Surya Pratap Tia Sobti	IOT Based RC Boat for Water Quality Sampling	IOT, Environmental Monitoring		PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1
36	Rajnandini Soni Tushar Toshniwal Dheeraj Bairwa Hemant Kumar Jangid	Fire Safety Drone for Animals in Forest	Drones, Wildlife Safety		PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1
37	yash babel udaygarg Yash goswami shantanu Sharma	Android Control Remote Password Security	Android, IOT, Embedded		PO01, PO02, PO03, PO04, PO05, PO09, PO10, PO11, PO12	PSO1, PSO2
38	Vaishnavi Chauhan Rachit Prajapati Zeeshan Ali 	Prevention of Under-loading/Overloading of Railway Wagons with IOT Devices	IOT, Transportation Safety		PO01, PO02, PO03, PO04, PO05, PO06, PO07, PO09, PO10, PO11, PO12	PSO1, PSO2
39	Akshat khandelwal Manvendra Vanshita Roonak Yash Agarwal Moti Singh Jayant Aswa Khusboo	EcoNinja: Autonomous Garbage Slayer with SLAM and YOLO	Robotics, AI, Smart Cities	National Conf. (RACON-2024)	PO01, PO02, PO03, PO04, PO05, PO06, PO08, PO09, PO10, PO11, PO12	PSO1, PSO2

Table 2.2.3 (E) Projects Done under Centre of Excellence Embedded Systems Lab

Session 2023-24				
S. No.	**Title of Project**	**Technological Area**	**Relevance with POs/PSOs**	**Relevance with PSOs**
1	Humanoid Robot	Arduino based Embedded System with Human-Machine Interaction (HMI) based Gesture control with AI and Speech Processing.	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12	PSO1
2	Gesture Controlled Robotic Hand	Arduino based Embedded System with Human-Machine Interaction (HMI) based Gesture control application.	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO2	PSO1
3	RC Planes with weapons	Embedded System application as Unmanned Aerial Vehicles (UAV)/ Drones for surveillance	PO1, PO2, PO3, PO5,PO6, PO7, PO9, PO10, PO11, PO12	PSO1
4	Drones	Drone Technology, Embedded system for surveillance and navigation, Wireless Communication	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12	PSO1
Session 2022-23				

S. No.	Title of Project	Technological Area	Relevance with POs/PSOs	Relevance with PSOs
1	3-D Printed Lamps	Embedded Systems, Additive Manufacturing (3D Printing), Computer-Aided Design (CAD) and Digital Fabrication/ Product Development	PO1, PO2, PO3, PO5, PO7, PO9, PO10, PO11, PO12	PSO1
2	Line Follower Robots	Arduino based Embedded Systems, Robotics, Automation, Sensors	PO1, PO2, PO3, PO5, PO7, PO9, PO10, PO11, PO12	PSO1, PSO2
3	Smart Car Theft and Accident alarm	Arduino based Embedded Systems, IOT, Real-Time Alert Based System, GSM based Wireless Application	PO1, PO2, PO3, PO5, PO7, PO9, PO10, PO11, PO12	PSO1, PSO2
4	Robotic Arm	Raspberry Pi based Embedded System, AI and ML based IOT application, Sensor Control	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12	PSO1
Session 2021-22				
S. No.	**Title of Project**	**Technological Area**	**Relevance with POs/PSOs**	**Relevance with PSOs**
1	Smart Bin	Atmega based Real-time Embedded System, Ultrasonic sensor application	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PO12	PSO1
2	Black Robot	Arduino based Embedded Systems, IOT, Real-Time Alert Based System, Wireless Communication with Bluetooth Technology, Ultrasonic sensor-based application	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PO12	PSO1
3	Smart Fire Fighter Robot	Arduino based Embedded Systems, Robotics, Sensing based Surveillance System Robotics	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PO12	PSO1, PSO2
4	Automatic Hand Sanitizer	Arduino based Embedded System, Ultrasonic sensor-based Health application	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12	PSO1

Figure 2.2.3 (B): Glimpse (Student Projects)

Impact Analysis

The integration of industry-relevant exposure and project-based learning has had a profound impact on the overall professional development of students in the Electronics & Communication Engineering discipline. Through immersive interactions with real-world applications, students gain firsthand insights into current industry practices, operational workflows, and emerging technological trends. This engagement not only reinforces their theoretical foundations but also fosters a pragmatic and solution-oriented mindset.

The technical competencies of students are significantly elevated as they acquire advanced domain-specific skills aligned with current industry expectations. These capabilities include the application of modern engineering tools, proficiency in simulation software, hands-on experience with embedded systems and IoT platforms, and familiarity with quality standards followed in core industry sectors.

The department's consistent efforts to bridge the gap between academia and industry have translated into notable improvements in placement outcomes. An increasing number of students are securing positions in reputed core industries, which highlights the credibility of their skill set and the value placed on their readiness for real-world challenges.

Furthermore, by participating in internships, industry-driven projects, and collaborative research activities, students accumulate practical work experience that enhances their professional portfolios. This exposure cultivates critical thinking, effective problem-solving abilities, and the confidence to address complex engineering problems in dynamic environments.

Ultimately, this comprehensive learning ecosystem prepares students to transition seamlessly from academic settings to professional roles, making them industry-ready graduates capable of contributing meaningfully from day one.

2.2.4 Initiative related to industry interaction (15) Institute Marks : 15.00

The Industry Institute Interaction activities conducted in the college/department make the students aware of the challenges they will face in the real world and make them industry ready. This formal platform helps the students and faculty members to identify the expectations of the industry and upgrade their skills to meet the job requirements. With the help of industry experts, guest lectures, workshops, projects and industrial training, the students are helped to build a good career.

A. Industry Sponsored Centre of Excellence:

The department has centre of Excellence in the field of Embedded system was established by Upflairs Pvt. Ltd. and Adhock Networks Infotech Pvt. Ltd..A **COE** is a hub or specialized unit within an educational institution or organization that focuses on **advanced training, research, and development** in a specific area of technology or domain. Since the beginning, students of this club are developing various educational robot, with this, the members of this club are taking participation and winning various titles and awards at different IITs, NITs, and various regional institutions. Staff and Students are involved in various projects related to robotics which gives a sound knowledge to the students in robotics field.

B. MoU with Industries

To strengthen interaction with industries and to keep our students updated with the latest trends in Electronic and Communication Engineering, the department has signed various MoUs.

S. No.	MoU is Signed	Year of Signing MoU	Duration
1	Adhock Networks Infotech Pvt. Ltd.	2023	3 Years
2	Morris Garages	2024	1 Year
3	Upflairs Pvt. Ltd.	2021	3 Years
4	Techie Nest Pvt. Ltd.	2018	3 Year
5	Baba Automobiles Pvt.Ltd.	2021	3 Years

To bridge the gap between theoretical learning and practical application, our department has organized enriching industrial visits for students. During the visit, students got firsthand exposure to real-time industrial operations, understood the workflow of industry, and interacted with industry professionals. The experience provided valuable insights into the latest technologies, work culture, and industry expectations. Such initiatives aim to equip our students with a better understanding of professional environments and inspire them to align their academic learning with industry needs.

C. Expert Talks by Industry Experts

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

Session 2024-25			
S. No.	**Topic**	**Resource Person**	**Date**
1	Think Without Ink: An Quantitative Technique	Mr. Dwijendra Srivastava , Chief Mentor, IMS, Rajasthan	2nd Sep, 2024
2	Change the Narrative	Lt. Col. Rohit Mishra	4th Sep, 2024
3	Inauguration of IEEE WIE Affinity Group (https://events.vtools.ieee.org/m/440661)	Sudeshna Choudhury, Consulting Partner, Sustainable Innovation in Tata Consultancy Services	Oct10, 2024

Session 2023-24			
S. No.	**Topic**	**Resource person**	**Date**
1	Climate Change and Sustainability	Mr. Varun Gaur, Managing Director De Calorie Energy Consultant LLP	05/12/23
2	Cloud Computing	Mr. Ashutosh Saxena, Amazon Web Services	03/10/23
3	Discover IEEE: Opportunities in Membership & Volunteering	Ms. Shatakshi Singh, Associate Data Engineer, Low's India	23/04/24

Session 2022-23			
S. No.	**Topic**	**Resource person**	**Date**
1	Learning of Futuristic Career Oriented Techniques	Mr. Dwijendra Srivastava, Chief Mentor IMS - Rajasthan region	5/11/2023

Session 2021-22			
S. No.	**Topic**	**Resource person**	**Date**
1	A one day Seminar on "Career Guidance & Future Opportunities After Engineering"	Mr. Ekant Yadav, Selection Desk Academy	2/24/2022

D. Industry Institute Interaction

Session 2024-25				
S. No.	**Faculty Development Program/ Add-On course/Workshop**	**Topic**	**Organization**	**Date**
1	Faculty Development Program	Connected Autonomous Electric Vehicle (CAEV) under MG Nurture Initiative	MG Motors Pvt. Ltd.	12/08/24 – 22/08/24
2	Faculty Development Program	6-Days Employability Skill Development Program	MG Motors Pvt. Ltd.	02/09/24 – 07/09/24
3	Add-On course	Fundamentals of CAEV (Connected Autonomous Electric Vehicle)	MG Motors Pvt. Ltd	17/09/24-19/12/24
4	Add-On course	Advanced of CAEV (Connected Autonomous Electric Vehicle)	MG Motors Pvt. Ltd	02/02/25-19/04/25
5	Add-On Course	Programming Unlock	FIAT Consultancy Services	17/03/25 - 27/03/25
6	Add-On Course	Algorithamming Unlocked	FIAT Consultancy Services	28 /03/25 - 11 /04/25
7	Add-On Course	Ansys for Beginners: simulation, Modelling , and Analysis	FIAT Consultancy Services	07 /10/24 - 19 /10/24
8	Add-On Course	IoT and Future Wireless Networks	WAE Consultancy Services	18 /10/24 - 29 /10/24
9	Add-On Course	AI for Signal and Image Processing	WAE Consultancy Services	16 /11/24 to 27 /11/24

Session 2023-24				
S. No.	**Faculty Development Program/ Add-On course/Workshop**	**Topic**	**Organization**	**Date**
1	Workshop	Employability Skill Development Program under MG Nurture Initiative	MG Motor India Pvt Ltd.	03/05/24 – 04/05/24
2	Workshop	EV Technology: Latest Trends and Future Prospects	Techienest India Pvt Ltd	17-09-23
3	Workshop	An Overview of Electric Vehicles and Simulation using MATLAB	Techienest India Pvt Ltd	04-02-24
4	Workshop	Embedded System Design and Development using Arduino	Exackt Techfleeters Pvt Ltd.	14-09-23
5	Workshop	Embedded System Design and Development using Arduino	Exackt Techfleeters Pvt Ltd.	14-09-23
6	Add-On Course	Artificial Intelligence and machine learning using Python	Techienest India Pvt Ltd	05/11/23-09/12/23
9	Add-On Course	Artificial Intelligence	Techienest India Pvt Ltd	22/08/23 -20/09/23
11	Add-On Course	Machine learning with Data Science	Techienest India Pvt Ltd	04/02/24 – 02/03/24

Session 2022-23				
S. No.	**Lecture/ Workshop/Expert Talk**	**Topic**	**Resource person**	**Date**
1	Workshop	Electric Vehicle Technology	Techienest India Pvt Ltd	22/09/22
2	Workshop	5G Technology and its challenges	Department of Telecommunication, Jaipur	15/09/22
3	Add-on Course	Machine Learning with Python	Upflairs India Pvt Ltd	03/11/22 05/12/22
4	Add-on Course	Embedded System Design and IOT	Upflairs India Pvt Ltd	03/11/22 05/12/22
5	Add-on Course	Machine Learning and Data Science using Python	Techienest India Pvt Ltd	05/01/22 25/01/22
6	Add-on Course	Embedded System	Upflairs India Pvt Ltd	15/09/22 16/10/22
7	Add-on Course	Artificial Intelligence	Techinest India Pvt Ltd	03/03/23 04/04/23

8	Add-on Course	Advance Embedded System and Design	Upflairs India Pvt Ltd	20/08/22 19/09/22
9	Add-on Course	Data Engineering over Clouds and DevOps	Techienest India Pvt Ltd	10/07/22 15/08/22
10	Add-on Course	Python Application Development	Techienest India Pvt Ltd	10/07/22 15/08/22
11	Add-on Course	Machine Learning and Data Science using Python	Techienest India Pvt Ltd	05/01/22 25/01/22
12	Add-on Course	Advance Embedded System and IoT	Upflairs India Pvt Ltd	10/03/22 09/04/22

Session 2021-22

S. No.	Lecture/ Workshop/ Expert Talk	Topic	Name of organization	Date
1	Workshop	2-Days Workshop cum Hands-on Practice on "Embedded System"	Exackt Tech fleeters Pvt Ltd.	05/10/21 06/10/21
2	Workshop	Learn to code, Design the future	Upflairs Pvt. Ltd.	03/03/22
3	Seminar	Career Guidance & Future Opportunities After Engineering	Selection Desk Academy	24/02/22
4	Add-On Course	Machine Learning and Data Science using Python	Upflairs India Pvt Ltd	05/09/21 10/10/21
5	Add-On Course	Embedded System	Upflairs India Pvt Ltd	11/10/21 20/11/21
6	Add-On Course	Artificial Intelligence	Techinest India Pvt Ltd	08/01/22 15/02/22
7	Add-On Course	Accenture Specific Training	Mr. Abhishek B (FACE) Mr. Sivaraman Gananathan (FACE)	18/08/22 20/08/22
8	Add-On Course	TCS Specific Training	Mr. Surender Praveen (FACE)	12/08/22 13/08/22
9	Add-On Course	Coding Workshop	Ms. Sushma Sanjay Panwar (FACE)	03/03/22
10	Add-On Course	Advance Embedded System and Design	Upflairs India Pvt Ltd	12/09/21 20/10/21
11	Add-On Course	Embedded System	Upflairs India Pvt Ltd	11/10/21 20/11/21
12	Add-On Course	Artificial Intelligence	Techinest India Pvt Ltd	08/01/22 15/02/22
13	Add-On Course	Data Engineering over clouds and DevOps	Techinest India Pvt Ltd	15/12/21 20/01/22

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

Ins

Rajasthan Technical University provides minimum 15 days industrial training for 1st year students and 45 days industrial training for 2nd, 3rd year students as per RTU curricu also encouraged to participate in industrial orientation programme from time to time.

The process of allotment of summer internships is as follows:

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

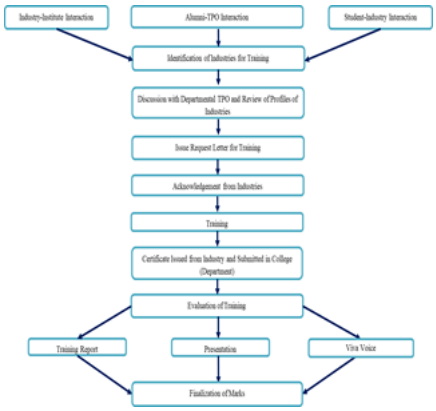

Figure 2.2.5 (A): Process of Evaluation of Industrial Training

Impact Analysis of Industrial Training

- Assessment will be based on type of industry, objectives; number of students participated, relevant area of training, documented visit report.
- Analyzing the likely impacts of the training on the performance of the student through detailed interaction with students.

Session 2024-25

S. No.	Name of Student	Name of Student	Sem	Company Name	Duration of Trai
1	Aayush Goyal	Python programming	IV	Internshala	01/07/24 15/08/24
2	Aayush Rathore	Wed Development Front End	IV	Azure Skynet Pvt. Ltd	26/06/24 09/08/24
3	Abhas Gupta	Data science	IV	Internshala	01 /07/24 26 /08/24
4	Abhinav Dubey	Python Programming	IV	Internshala	01/07/24 15/08/24
5	Abhishek Kumar Gupta	Web Development	IV	Ultra tech Cement Ltd. (Unit: Birla White)	03/07/24 17/08/24
6	Aditya Agrawal	Web Development	IV	Internshala Trainings	01/07/24 26/08/24
7	Aditya Sharma	Web Designing using PhP-MYSQL	IV	Center for Electronic Governance, Rajasthan	01/07/24 17/08/24
8	Aditya Singh Tomar	Web-design using PhP and MYSQL	IV	CEG (Centre For Electronic Governance)	01/07/24 17/08/
9	Akhilesh Barnala	Data Analytics	IV	Unified Mentor	20/07/24 20/09/2
10	Akshat garg	CORE JAVA	IV	INTERNSHALA	01/07/24 14/07/2
11	Akshat Sharma	Machine Learning	IV	Internshala Trainings	16/07/24 29/08/2
12	Akshat Tamboli	Web Development	IV	Matrix computers	01/07/24 17/08/2
13	Akshay Bathariya	Web Development	IV	Apptech Infosoft pvt Ltd	01/07/24. 15/08/
14	Akshita Agarwal	Web Development	IV	Internshala	01/07/24 26 /08/24
15	Alok Singhal	Machine learning	IV	Internshala	16/07/24 29/08/2
16	Aman Khan	Web Development	IV	Internshala	01/07/24 26/08/24

17	Amit Sharma	Cyber security	IV	Pregrad Private Limited	01/07/24 18/08/2
18	Anish Ranjan	Web Development	IV	Matrix computers	01/07/24 17/08/24
19	Anurag Gupta	Python	IV	Internshala	01/07/24 17/08/24
20	Anurag Singh	Web Development using HTML and CSS	IV	Azure skynet solutions pvt. Ltd.	26/06/24 09/08/2
21	Anushka pareek	Dsa in C++	IV	Matrix computers	01/07/24 15/08/2
22	Anvesha jain	Web Development	IV	Internshala	01/08/24 26/08/2
23	Arihant Jain	Web Development	IV	Internshala	01/07/24 21/08/2
24	Arpit Kumar Keer	Web Development	IV	Intenshala	01/07/24 20/08/2
25	Arpita Sharma	C++ language	IV	Matrix computers	09/07/24 22/08/2
26	Atul Sharma	Solar PV Plants	IV	MITARSH Energy Pvt. Ltd.	03/07/24 17/08/24
27	Atulya Kumar	Web development	IV	Internshala	01/07/24 24/08/2
28	Avani Jain	Web development	IV	Internshala	01/08/24 17/08/24
29	Avinash Jat	Python programming	IV	Centre of Electronic Governance	01/07/24 17/08/2
30	Basant Singh	VLSI DESIGN	IV	INTERNSHALA Training	01/07/24 12/08/2
31	Bharat Suthar	Cement manufacturing process	IV	JK cement works	03/07/24 16/08/2
32	Bhavana Dhaker	Internshala	IV	JECRC Foundation	06/07/24 26/08/2
33	Bhumi Laddha	VLSI	IV	INTERNSHALA TRAININGS	01/07/24 12/08/24
34	Bhumika Upadhyay	Web development	IV	Internshala	24/06/24 16/08/24
35	Chanchal Saini	Web development	IV	Internshala	01/08/24 26 /08/24
36	Chetan Gupta	Embedded systems Control and Instrumentation	IV	Nuclear power corporation of India limited, Rawatbhata	08/07/24 16/08/2
37	Deepanshu Arawagi	OOPs through C++	IV	Matrix Computer	09/07/24 15/08/2
38	Devansh Aggarwal	DSA	IV	Matrix Education	01/07/24 15/08/2
39	Devansh Sharma	AWS Cloud Computing	IV	Linux World Informatics	01/07/24 15/08/2
40	Dheeraj Sharma	AWS CLOUD computing	IV	Udemy	03/07/24 20/07/2
41	Dhruv Nehra	Web Development	IV	Internshala	19/07/24 17/09/2
42	Dhruv	Web Development	IV	Internshala	19 /07/24 17 /09/24
43	Dilkhush Saini	Web Development	IV	Internshala Training program	29/06/24 21/08/2
44	Dipti Mathur	Java development	IV	Matrix Computers	01/08/24 24/08/24
45	Divya kumari	WEB Development	IV	INTERNSHALA	01/07/24 26/08/24
46	Garvita Jain	Web Development	IV	INTERNSHALA	30/08/24 25/10/2
47	Geet Gaggar	Cyber Security	IV	Pregrad Private Limited	01/07/24 18/08/24
48	Govind Patidar	Automation	IV	JK CEMENT WORKS PVT .LTD	01/07/24 14/08/24
49	GOVIND TILWANI	VLSI Design	IV	INTERNSHALA TRAINING	01/07/24 11/08/2
50	Hardik Dadheech	VLSI Design	IV	Internshala	28/06/24 09/08/24
51	Hardik Mishra	Python	IV	Internshala	04/07/24 17/08/2
52	Harsh Choupal	Supply Chain Management	IV	Genus Power Infrastructures Limited	03/07/24 19/08/2
53	Harsh Kumar Yadav	Full stack web development	IV	Internshala	01/07/24 22/08/2

54	Harshit Bhatnagar	Web Development	IV	Internshala	01/07/24 22/08/2
55	Harshit Saini	Machine learning	IV	Internshala	01/07/24 12/08/24
56	Harshvardhan Singh Shekhawat	Web Development	IV	Internshala	20/07/24 04/09/24
57	Harshwardhan Singh Shekhawat	Python programming	IV	Internshala	30/06/24 14/08/24
58	Himanshu Detwani	Python programming	IV	Internshala	30/06/24 14/08/24
59	Hiten Paliwal	Core Java	IV	JECRC Foundation	10/07/24 04/09/2
60	Ishita Shekhawat	Machine Learning	IV	Internshala	01/07/24 15/08/24
61	Ishwar kumawat	VLSI Design	IV	Internshala	01/07/24 12/08/24
62	Janak Singh Solanki	Automation	IV	J.k. Cement Works Pvt. Ltd.	01/07/24 14/08/24
63	Jatin Bhargava	Embedded Systems	IV	INTERNSHALA	01/07/24 12/08/24
64	Kamya vyas	Web development	IV	Internshala	01/07/24 20/09/24
65	Kartik Mahawar	Web Development	IV	Internshala	26/07/24 30/08/2
66	KARTIKEY AGRAWAL	CORE JAVA	IV	INTERNSHALA	01/07/24 24/08/24
67	Kashish Kumari Gupta	Web Development	IV	Internshala	28/06/24 20/08/24
68	Kaustubh Bajaj	Core java	IV	INTERNSHALA	01/07/24 20/08/24
69	Keshav Samdani	WEB Development	IV	Internshalla	01/07/24 26/08/24
70	KINSHUK	VLSI Design	IV	Internshala	03/07/24 14/07/2
71	Kinshuk Saini	VLSI Design	IV	Internshala	03/07/24 15/08/24
72	Kirtibala Ameta	Web Development	IV	Internshala	01/07/24 26/08/24
73	Kunal Agarwal	Embedded system	IV	Internshala	01/07/24 11/08/24
74	Kunal Agarwal	Embedded system	IV	Internshala	01/07/24 12/08/24
75	Kunal Soni	Web Development	IV	Internshala	01/07/24 21/08/2
76	Lakshay	Web Development	IV	INTERNSHALA	01/07/24 26/08/24
77	Lakshaya Katiyar	Data Science & Machine Learning	IV	ZEETRON NETWORKS	08/07/24 06/09/24
78	Lavanya Jain	Python programming	IV	TechShlok	15/07/24 30/08/24
79	Lucky Saini	Web Development	IV	Internshala	01/07/24 26/08/24
80	Madhav Jangid	Web Development	IV	Internshala	28/06/24 24/08/24
81	Mahesh Gurjar	Cloud Computing and AI with AWS	IV	Learn and Build	01/07/24 15/08/24
82	Manvendara Singh Shekhawat	Web Development	IV	Internshala	01/07/24 26/08/24
83	Mayank Sharma	Core java	IV	Internshala	01/07/24 26/08/2
84	Medha Yadav	Web Development	IV	Internshala	01/07/24 26/08/24
85	Medhansh Singhal	Artificial Intelligence and Machine Learning Techniques	IV	E&ICT Academy, Indian Institute of Technology Guwahati	01/07/24 30/07/24
86	Minakshi Goyal	Web Development	IV	Internshala	01/07/24 26 /08/24
87	Mohak Khimnani	VLSI	IV	Internshala	23/06/24 08/08

88	Mohammed Aqeel	Machine Learning	IV	Internshala	05/07/24 16/08/24
89	Mohd Yasir	Web Development	IV	Internshala	06/07/24 20/08/2
90	Mohit	Machine learning	IV	Internshala	02/07/24 12/08/24
91	Mohit Choudhary	Web Development	IV	INTERNSHALA	28/06/24 20/08/24
92	Mohit bhatia	Python programming	IV	Internshala	28/07/24 09/08/2
93	Mohit Sharma	Control and Instrumentation	IV	Adani power limited	05/07/24 06/08/24
94	Mohit Yadav	ICB (IMMERSED CIRCUIT BREAKER)	IV	Mangal electrical industries pvt. Ltd	10/06/24 25/08/24
95	Naman Kumawat	VLSI DESIGN	IV	Internshala Pvt. Ltd	01/07/24 12/08/24
96	Naresh Baghel	Online	IV	Internshala	01/07/24 12/08/24
97	Navjot Singh Sinsinwar	Web Development	IV	Internshala	01/07/24 20/08/24
98	Navyansh Chandel	Programming with python	IV	Internshala	01/07/24 10/08/24
99	Neha Dadhich	Data Structure and Algorithms	IV	INTERNSHALA	01/07/24 01/09/24
100	Nidhi Mittal	Web Development	IV	Internshala	30/07/24 15/09/24
101	Nidhi Mittal	Web development	IV	Internshala	30 /08/24 15/09/24
102	Palak Gupta	Cloud Computing with AWS	IV	Internshala	01/07/24 12/08/2
103	Piyush Sharma	Web Development	IV	Apptech Infosoft Private limited	01/07/24 15/08/24
104	Prashat Chouhan	Web Development	IV	KOOE PRIVATE LIMITED	01/07/24 16/08/2
105	Prashant Lawaniya	Web Development	IV	Internshala	03/07/24 28/08
106	Pratiksha Saini	Web Development	IV	Internshala	01/06/24 26/07/24
107	Prince nagar	CORE JAVA	IV	KOOE PRIVATE LIMITED	01/07/24 15/08/24
108	Priyadarshni	Web Development	IV	Internshala	01/07/24 26/08/24
109	Priyanshu Garg	Programming with Python	IV	Internshala Training Company	01/07/24 10/08/24
110	Pulkit Jain	Web Development	IV	Internshala	01/07/24 26/08/24
111	Raghav Tiwari	Web Development.	IV	Internshalla	01/07/24 26/08/24
112	Sarvesh Rajora	Web development	IV	Internshala	01/07/24 26/08/24
113	Sarvesh Rajora	Web development	IV	JECRC Foundation	01/07/24 26/08/24
114	Rajveer Singh Shekhawat	Cyber Security	IV	Pregrad	01/07/24 26/08/24
115	Rashi Gupta	Web Development	IV	Internshala	01/07/24 26/08/24
116	Ravindra Kumar	Programming with Python	IV	Internshala Training	01/07/24 26/08/24
117	Ravita Kanwar Ranawat	Data Science	IV	Internshala	29/06/24 10/08/24
118	Rewant Ram	Web Development	IV	Internshala	01/07/24 26/08/24
119	Riddhi Pachlangia	VLSI Design	IV	Intershala	01/07/24 12/08/24
120	Ritvik Sharma	VLSI	IV	Internshala	28/07/24 09/08/24
121	Riya Singhal	Python Programming	IV	Internshala	01/07/24 15/08/24
122	Rohit saw	Web Development	IV	Apptech Infosoft Pvt. Ltd.	01/07/24 15/08/24
123	Ronak Kumar Saini	Programming with Python	IV	Internshala Training Company	29/06/24 10/08/24
124	Rudra Maheshwari	Web Development	IV	Apptech Infosoft Pvt. Ltd	01/07/24 15/08/24
125	Sahil Kumar Singh	VLSI Design	IV	Internshala	01/07/24 11/08/24

126	Sanjana Sharma	Machine Learning	IV	Internshala	28/06/24 26/07/24
127	Saurabh Avasthi	Data Science	IV	Apptech Infosoft Pvt. Ltd.	01/07/24 15/08/24
128	Shakti Singh Bhati	Web development	IV	Intershala	25/07/24 19/09/24
129	Shanaya Verma	Data Analytics	IV	JECRC Foundation	01/07/24 24/08/24
130	Shaurya Khandelwal	Web Development	IV	Leand and Build	01/07/24 15/08/24
131	Shivam Swami	Web Development	IV	Internshala	05/07/24 21/08/24
132	Shivang Sharma	Digital marketing	IV	JECRC Foundation	15/07/24 26/08/2
133	Shivraj Mishra	Machine Learning	IV	Internshala	15/07/24 26/08/2
134	Srishti Gupta	Android App Development	IV	Internshala	01/07/24 15/08/24
135	Shubham Prajapati	Machine Learning	IV	Internshala	15/07/24 26/08/2
136	Sohit Joshi	Machine Learning	IV	Internshala	15/07/24 26/08/2
137	Somay Gupta	Online	IV	Internshala	01/07/24 15/08/24
138	Somendra Raj	Data Science Training	IV	Internshala	01/07/24 26/08/24
139	Sujeet Kumar	Web Development	IV	Internshala	14/07/24 02/09/24
140	Sunil Choudhury	Web Development	IV	Internshala	10/07/24 11/09/24
141	SURAJ MAHAWAR	Machine Learning	IV	Internshala	01/07/24 12/08/24
142	Suryansh Kotpal	VLSI Design	IV	Internshala	(01/07/24)-(15/08
143	Tanish Sidana	VLSI Design	IV	Scholiverse Educare Private Limited	01/07/24 15/08/24
144	Tanishka Nandwana	Web development	IV	Internshala	01/07/24 26/08/24
145	Tanmay Kumar Jain	Web Development	IV	Internshala	25/07/24 28/08/24
146	Tirth jain	VLSI	IV	Intern shala	01/07/24 15/08/24
147	Umang mittal	Data science	IV	Intershala	01/07/24 26/08/24
148	utkarsh Sharma	Machine learning	IV	Internshala	01/07/24 15/08/24
149	Vaibhav Tiwari	Web Development	IV	Internshala	01/07/24 23/08/24
150	Vanisha vaishnav	MATLAB	IV	Internshala	01/07/24 12/08/24
151	Vanshika Khandal	Data Science	IV	Internshala	01/07/24 14/08/24
152	Vedansh Goyal	Web development	IV	Internshala	01/07/24 29/08/24
153	Vikas sharma	Web development	IV	Intensala	01/07/24 18/08/24
154	Vikash kumar	Web development	IV	Internshala	01/07/24 24/08/24
155	Vikram	Machine learning	IV	Internshala	01/07/24 12/08/24
156	Vivek Dave	Web development	IV	KOOE Pvt. Limited	01/07/24 15/08/24
157	Vivek sharma	Machine learning	IV	Internshala	01/07/24 10/08/24
158	Yash Jangid	Artificial Intelligence and Machine Learning	IV	PRP Webs	01/07/24 14/08/24
159	Yash Kumar Vaishnav	Web Development	IV	Internshala	01/07/24 23/08/24
160	YASHIKA GUPTA	Web development	IV	Internshala	01/07/24 26/08/24
161	YASHITA SISODIA	DATA SCIENCE	IV	INTERNSHALA	01/07/24 14/08/24
162	Yashvardhan singh shekhawat	Machine learning	IV	Intershala	01/07/24 12/08/24

163	Yashwant kumawat	Embedded System & Robotics	IV	Upflairs pvt. Ltd.	07/07/24 23/08/24
164	Yashwin Bagdi	Machine learning	IV	Internshala trainings	01/07/24 12/08/24
165	Yogesh Pathak	Web development	IV	Internshala	01/07/24 01/09/24
166	Anish Jain	Data Science	IV	Internshala	01/07/24 17/08/24
167	Ritiksha Jain	Web development	IV	Internshala	01/07/24 14/08/24
168	Raman Saxena	Machine Learning	IV	Internshala	28/06/24 02/08/24
169	Nikhil Trivedi	Web Development	IV	Internshala	01/07/24 25/08/24
170	Mansi Paliwal	Web development	IV	Internshala	01/07/24 14/08/24
171	Sanidhya Chaturvedi	Machine Learning	IV	JECRC Foundation	01/07/24 15/08/24
172	Chirag Khandelwal	Data Structure	IV	Matrix Computers	01/07/24 14/08/24

Industrial Visit Initiatives

- Industrial visit is a part of the professional courses, during which students visit companies and get insight on how companies work and also useful information related t aspects of the course which cannot be visualized in lectures. With an aim to go beyond academics, these visits are arranged to develop the insights of the students –a knowledge and their theoretical applications thereof.
- Developing contacts, collecting the addresses of the Industries (with the phone numbers) planned for the Industrial Visit.
- Prepare and send the letters approved by the HOD requesting the Industry concerned to grant permission mentioning the date / time and number of students accompa from the department concerned.
- Follow-up with the industry through telephone to confirm their acceptance for Industrial Visit on the mentioned date and time or convenient date is provided by the Indu requesting them to send permission letter.
- On the day of Visit, accompanying staff are provided with the Nominal roll number and names of the students for the Industry reference. Staff and students to carry ID

Industrial Visit

Session 2024-25				
S. No.	**Lecture/ Workshop/Industrial visit**	**Topic**	**Name of organization**	**Date**
1	Industrial Visit	Industrial Visit to "Bhamashah Techno Hub"	Bhamashah Techno Hub	4/10/ 24
2	Industrial Visit	Industrial Visit to CEERI Pilani (Jaipur Centre)	CEERI Pilani	4/10/ 24
3	Industrial Visit	Industry visit to "Rajiv Gandhi Centre of Advanced Technology"	R-CAT	5/11/24
Session 2023-24				
S. No.	**Lecture/ Workshop/Industrial visit**	**Topic**	**Name of organization**	**Date**
1	Industrial Visit	Industry visit to "Rajiv Gandhi Centre of Advanced Technology"	R-CAT	04/10/2023
2	Industrial Visit	Genus Power Infrastructures Limited (Corporate Office) is located in Sitapura, Jaipur.	Genus, Jaipur	06/11/23
3	Industrial Visit	Industry Visit to "TESCA Technologies Pvt. Ltd."	TESCA Technologies	21/08/2024
Session 2022-23				

S. No.	**Lecture/ Workshop/ Industrial visit**	**Topic**	**Name of organization**	**Date**

1	Industrial Visit	Industry Visit to "TESCA Technologies Pvt. Ltd."	TESCA Technologies	9/30/2022
2	Industrial Visit	Industry Visit to "SSTPL Technologies"	**Sai Skill Technology Pvt Ltd.**	10/8/2022

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	Ability to develop knowledge of Embedded Systems and its application in Automation.
PSO2	Ability to develop the concept of Electric Vehicle (EV) to meet Industry Applications.

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 :	2024-25

Course Name	Statements
C2 07.1	Explain semiconductor physics of intrinsic and extrinsic materials.
C2 07.2	Describe the current-voltage characteristics of BJT and MOSFET.
C2 07.3	Apply mathematical models of semiconductor devices in circuit analysis.
C2 07.4	Analyze the characteristics and applications of electronic devices like amplifiers, LEDs, solar cells.
C2 07.5	Demonstrate understanding of IC fabrication through theoretical and experimental approaches.

Course Name :	C2 04	Course Year :	2024-25

Course Name	Statements
C2 04.1	Analyze the operation of diodes and transistors.
C2 04.2	Design and analyze rectifiers and amplifiers.
C2 04.3	Design sinusoidal and non-sinusoidal oscillators.
C2 04.4	Evaluate OP-AMP operations and design applications.
C2 04.5	Design analog-to-digital and digital-to-analog conversion circuits.

Course Name :	C3 04	Course Year :	2024-25

Course Name	Statements
C3 04.1	Represent signals in continuous and discrete time, and in frequency domain.
C3 04.2	Evaluate the response of an LSI system to various input signals.
C3 04.3	Design digital filters for specific applications.
C3 04.4	Estimate spectral parameters of signals.
C3 04.5	Apply digital signal processing techniques in real-world scenarios.

Course Name :	C3 02	Course Year :	2024-25

Course Name	Statements
C3 02.1	Explain and interpret queuing theory principles.
C3 02.2	Illustrate and evaluate layered protocol models and various network layer protocols.
C3 02.3	Analyze and assess standard computer network protocols using reference materials.
C3 02.4	Design network solutions for homes, data centers, IoT/IoE systems, LANs, and WANs.

Course Name :	C4 11	Course Year :	2024-25

Course Name	Statements
C4 11.1	Describe the parameters of MOSFET and CMOS technologies.
C4 11.2	Apply and analyze the properties and design of MOSFET and CMOS.
C4 11.3	Evaluate various dynamic CMOS circuit configurations.
C4 11.4	Design custom and ASIC components using FPGA and VHDL.

Course Name :	C4 12	Course Year :	2024-25

Course Name	Statements
C4 12.1	Explain various image transformations and processing operations.
C4 12.2	Apply spatial and frequency domain techniques for enhancement and restoration.
C4 12.3	Illustrate compression and segmentation methods.
C4 12.4	Explain techniques for video processing and compression.

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	2	2	2	2	1	-	-	-	-	1	2
C207.2	3	2	2	2	2	-	-	-	-	-	1	2
C207.3	3	3	2	2	2	-	-	-	-	-	1	2
C207.4	3	2	2	2	2	1	1	-	1	-	2	3
C207.5	3	2	2	2	2	-	-	-	-	-	2	2
Average	**3.00**	**2.20**	**2.00**	**2.00**	**2.00**	**0.40**	**0.20**	**0.00**	**2.00**	**0.00**	**1.40**	**2.20**

2 . course name : C204

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	2	3	3	2	-	-	-	1	1	2	3
C204.2	3	2	3	2	1	-	1	-	1	1	1	2
C204.3	3	2	3	3	2	-	1	-	1	1	1	2
C204.4	3	3	3	2	2	-	1	-	1	1	1	2
C204.5	3	3	3	3	2	1	1	-	1	1	1	2
Average	**3.00**	**2.40**	**3.00**	**2.60**	**1.80**	**0.20**	**0.80**	**0.00**	**1.00**	**1.00**	**1.20**	**2.20**

3 . course name : C304

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	3	2	2	2	1	1	1	1	-	1	2
C304.2	3	2	2	2	1	-	1	-	1	1	1	2
C304.3	3	3	3	3	2	-	-	-	1	1	1	3
C304.4	3	3	2	2	1	-	-	-	1	1	2	2
C304.5	3	3	2	2	2	-	-	1	1	2	1	3
Average	**3.00**	**2.80**	**2.20**	**2.20**	**1.60**	**0.20**	**0.40**	**0.40**	**1.00**	**1.00**	**1.20**	**2.40**

4 . course name : C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	2	2	2	2	1	-	-	1	1	-	3
C302.2	3	2	2	2	2	2	1	-	1	1	2	2
C302.3	3	2	3	2	2	1	1	-	1	2	1	2
C302.4	3	3	3	3	2	1	1	-	1	1	2	2
Average	**3.00**	**2.25**	**2.50**	**2.25**	**2.00**	**1.25**	**0.75**	**0.00**	**1.00**	**1.25**	**1.25**	**2.25**

5 . course name : C411

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	3	3	3	2	-	-	-	1	1	1	2
C411.2	3	3	3	2	2	-	1	-	1	1	1	2
C411.3	3	3	3	2	2	-	1	-	1	1	1	2
C411.4	3	3	3	2	2	-	1	1	1	1	1	2
Average	**3.00**	**3.00**	**3.00**	**2.25**	**2.00**	**0.00**	**0.75**	**0.25**	**1.00**	**1.00**	**1.00**	**2.00**

6 . course name : C412

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C412.1	3	3	2	2	3	1	1	-	1	-	2	2
C412.2	3	3	3	3	3	1	2	-	2	-	2	2
C412.3	3	3	3	3	3	1	2	-	2	-	1	2
C412.4	3	3	3	3	3	1	-	-	1	1	1	2
Average	**3.00**	**3.00**	**2.75**	**2.75**	**3.00**	**1.00**	**1.25**	**0.00**	**1.50**	**0.25**	**1.50**	**2.00**

1 . Course Name : C207

Course	PSO1	PSO2
C207.1	1	2
C207.2	1	2
C207.3	1	2
C207.4	1	2
C207.5	1	2
Average	**1.00**	**2.00**

2 . Course Name : C204

Course	PSO1	PSO2
C204.1	2	2
C204.2	2	3
C204.3	2	1
C204.4	3	2
C204.5	2	3
Average	**2.20**	**2.20**

3 . Course Name : C304

Course	PSO1	PSO2
C304.1	2	1
C304.2	2	1
C304.3	3	1
C304.4	1	-
C304.5	2	1
Average	**2.00**	**0.80**

4 . Course Name : C302

Course	PSO1	PSO2
C302.1	-	-
C302.2	-	-
C302.3	-	-
C302.4	1	-
Average	**0.20**	**0.00**

5 . Course Name : C411

Course	PSO1	PSO2
C411.1	2	1
C411.2	3	1
C411.3	2	-
C411.4	3	1
Average	**2.00**	**0.60**

6 . Course Name : C412

Course	PSO1	PSO2
C412.1	1	-
C412.2	1	-

C412.3	1	-
C412.4	-	-
Average	**0.60**	**0.00**

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

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1FY2-01	3	3	2	1	1	1	-	-	1	1	-	1
1FY2-02	3	2	1	1	1	1	-	-	1	1	-	1
1FY2-03	2	1	1	1	-	1	2	-	1	1	-	1
1FY2-04	-	-	1	-	-	2	-	2	2	3	1	2
1FY2-05	-	-	2	-	-	3	2	3	2	1	-	1
1FY3-06	3	2	2	1	1	1	-	-	1	1	-	1
1FY2-07	3	1	2	1	-	1	1	-	1	1	-	1
1FY2-08	3	3	2	2	2	2	3	3	3	2	2	3
1FY2-09	3	3	3	3	2	3	3	3	2	3	2	2
1FY2-20	2	1	1	-	-	1	-	1	2	1	-	1
1FY2-21	2	2	2	1	1	2	2	2	2	1	1	1
1FY1-22	-	-	-	-	2	2	-	2	2	3	1	2
1FY1-23	-	-	1	-	-	3	3	3	1	1	-	1
1FY3-24	2	2	2	1	1	-	-	-	1	1	-	1
1FY3-25	3	3	2	2	2	2	2	1	2	2	2	2
1FY3-26	3	3	2	2	2	-	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	-	1	1	-	1
1FY3-29	3	2	2	1	3	1	2	-	1	1	-	1
2FY2-01	3	3	2	1	1	1	-	-	1	1	-	1
3EC2-01	3	3	3	3	2	-	-	-	1	-	1	2
3EC2-02	2	1	-	-	1	1	-	2	2	3	2	3
3EC4-04	3	2	2	2	2	1	1	-	1	1	1	2
3EC4-05	3	3	2	2	3	-	-	-	1	1	1	2
3EC4-06	3	3	3	2	2	-	1	-	1	1	1	2
3EC4-07	3	2	2	2	2	-	-	-	-	-	1	2
3EC4-21	3	2	3	3	2	1	-	2	3	2	1	2
3EC4-22	3	3	3	2	2	1	-	2	3	2	1	2
3EC4-23	3	3	3	2	2	1	-	2	3	2	1	2
3EC3-24	3	3	2	2	3	1	-	1	2	2	1	2
3EC7-30	2	2	1	1	2	1	1	2	2	2	2	3
4EC2-01	2	3	2	3	2	1	-	-	1	1	1	2
4EC1-03	-	1	-	-	-	2	1	2	2	3	2	3
4EC4-04	3	2	3	3	2	-	1	-	1	1	1	2
4EC4-05	3	3	3	3	3	1	-	-	2	1	2	2
4EC3-06	3	2	3	2	1	1	1	-	1	1	1	2
4EC4-07	3	3	2	3	2	1	1	-	1	1	1	2
4EC4-21	3	3	2	3	2	1	-	2	3	2	1	2
4EC4-22	3	3	3	3	2	1	1	1	2	2	1	2
4EC4-23	3	3	3	3	3	1	1	2	3	2	2	2
4EC4-24	3	3	2	2	2	1	-	1	2	2	1	2

5EC3-01	3	1	2	1	2	2	2	1	2	1	2	3
5EC4-02	3	2	2	2	2	1	1	-	1	1	1	3
5EC4-03	3	2	2	3	2	1	-	-	1	-	1	3
5EC4-04	3	3	2	2	2	-	-	-	1	1	1	2
5EC4-05	3	3	3	3	2	1	1	-	1	1	1	2
5EC5-14	3	3	3	2	2	-	-	-	1	-	1	2
5EC4-21	3	3	3	3	3	1	-	2	3	3	2	3
5EC4-22	3	3	3	2	3	1	-	2	2	2	1	2
5EC4-23	3	2	3	3	3	-	-	1	2	2	1	2
5EC7-30	2	2	1	1	1	2	1	2	3	3	2	3
6EC3-01	3	2	2	2	2	2	1	1	2	1	1	2
6EC4-02	3	2	3	2	2	1	1	-	1	1	1	2
6EC4-03	3	2	2	2	2	1	1	-	1	1	1	2
6EC4-04	3	3	3	3	3	1	1	-	1	-	1	2
6EC4-05	3	3	2	3	1	3	2	-	-	3	-	1
6EC5-11	3	2	2	2	2	1	1	-	2	-	1	2
6EC4-21	3	2	2	2	2	1	1	2	2	2	2	2
6EC4-22	3	3	3	3	3	2	1	2	2	3	1	2
6EC4-23	3	3	3	3	2	1	1	2	2	2	1	2
6EC4-24	3	2	2	2	1	1	-	1	2	2	1	2
7EC5-11	3	3	3	2	2	-	1	-	1	1	1	2
7AG6-60.1	-	1	-	-	-	2	1	2	2	3	2	3
7EC4-21	3	3	3	3	2	1	1	2	2	3	1	2
7EC4-22	3	2	3	3	3	-	-	1	2	2	1	2
7EC4-23	3	3	3	3	2	-	-	2	3	3	1	3
7EC7-30	3	3	2	1	2	1	1	2	2	2	2	3
7EC7-40	3	3	2	2	2	2	1	1	3	2	2	2
8EC5-12	3	3	3	3	3	1	1	-	2	-	2	2
8TT6-60.2	1	1	-	-	-	2	1	2	2	3	2	3
8EC4-21	3	2	3	3	2	-	1	-	1	1	1	2
8EC4-22	3	3	3	3	3	2	1	1	3	2	2	2
8EC7-50	3	3	2	2	2	2	1	1	3	2	2	2

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

Course	PSO1	PSO2
1FY1-22	0	0
1FY1-23	0	0
1FY2-01	1	1
1FY2-02	2	1
1FY2-03	0	1
1FY2-04	0	0
1FY2-05	0	0
1FY2-07	0	1
1FY2-08	2	3
1FY2-09	0	0
1FY2-20	1	1
1FY2-21	0	0
1FY3-06	2	1

1FY3-24	3	1
1FY3-25	0	0
1FY3-26	2	3
1FY3-27	0	0
1FY3-28	0	0
1FY3-29	0	0
2FY2-01	1	1
3EC2-01	1	1
3EC2-02	0	0
3EC3-24	1	0
3EC4-04	2	1
3EC4-05	2	1
3EC4-06	1	2
3EC4-07	2	2
3EC4-21	2	1
3EC4-22	2	1
3EC4-23	1	0
3EC7-30	1	2
4EC1-03	0	0
4EC2-01	1	0
4EC3-06	2	2
4EC4-04	2	2
4EC4-05	3	2
4EC4-07	0	0
4EC4-21	1	0
4EC4-22	2	1
4EC4-23	3	2
4EC4-24	1	2
5EC3-01	3	1
5EC4-02	0	0
5EC4-03	3	3
5EC4-04	2	1
5EC4-05	0	0
5EC4-21	0	0
5EC4-22	2	0
5EC4-23	0	0
5EC5-14	0	0
5EC7-30	1	2
6EC3-01	2	3
6EC4-02	0	0
6EC4-03	0	0
6EC4-04	0	0
6EC4-05	0	0
6EC4-21	0	0
6EC4-22	0	0
6EC4-23	2	1
6EC4-24	2	3

6EC5-11	2	0
7AG6-60.1	0	0
7EC4-21	2	0
7EC4-22	1	0
7EC4-23	0	0
7EC5-11	3	1
7EC7-30	1	2
7EC7-40	0	0
8EC4-21	2	1
8EC4-22	1	1
8EC5-12	1	0
8EC7-50	2	2
8TT6-60.2	0	0

3.2 Attainment of Course Outcomes (50) Total Marks 50.00

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10) Institute Marks : 10.00

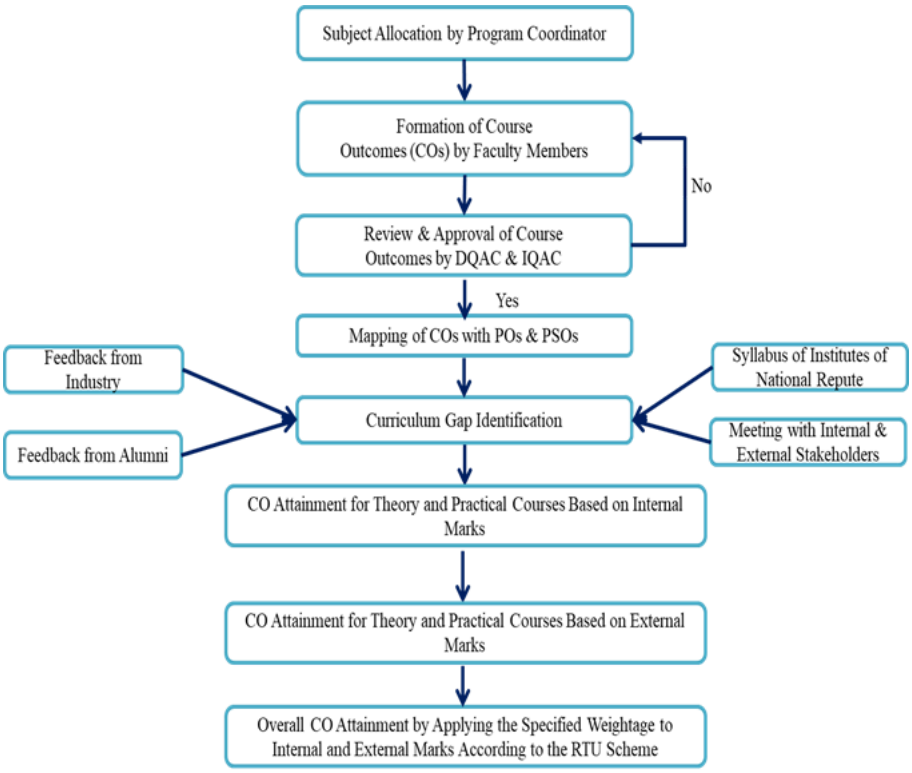

Figure 3.2.1 Process required for assessment

Process for Collecting Data to Evaluate Course Outcomes in Theory Courses

At our institute, a comprehensive and systematic approach is adopted to assess and evaluate Course Outcomes (COs). The processes ensure alignment with Outcome-Based Education (OBE) principles and provide measurable data to determine the level of CO attainment. The following assessment tools and methods are employed:

Internal and External Exams

- **Internal Exams**: The attainment level of each Course Outcome (CO) is determined based on student performance in midterm exams and assignments.
- **External Exams**: Data is collected from university examination results.

Identification of Slow and Advanced Learners

- Slow learners and advanced learners are identified based on their performance in mid-term examinations.
- Assignments are tailored and provided to students according to their performance.
- Re-internal examinations are conducted for 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 has set the threshold at **70%** for calculating attainment levels.
- The attainment percentage is calculated as the ratio of students scoring equal to or above the threshold to the total number of 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.
- 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 **70%**.

Final CO Attainment for Theory Courses

- The final CO attainment evaluation process for students in theory courses includes both components:
  - **70%** for the university examination (external).
  - **30%** for the midterm and internal examination.
- **Formula**:

$$\text{Final CO Attainment} = 0.7x + 0.3y$$

Where:

- x = External examination attainment
- y = Internal examination attainment

Assessment of Practical Courses

For practical courses, the evaluation consists of:

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

Internal Assessment Components (60%)

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

1. Mid-Term Exam I: Conducting experiments and viva-voce.

2. Mid-Term Exam II: 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 has set the threshold at **70%** for calculating attainment levels.
- The attainment percentage is calculated as the ratio of students scoring equal to or above the threshold to the total number of students appearing for that particular CO.

External Examination Components (40%)

- Includes conducting experiments, quizzes, 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 has set the threshold at **70%** for calculating attainment levels.
- The attainment percentage is calculated as the ratio of students scoring equal to or above the threshold to the total number of students appearing for that particular CO.

Final CO Attainment for Practical Courses

- The final calculation of CO attainment for practical courses consists of:
  - **40%** for the external examination.
  - **60%** for the internal examination (as per the RTU scheme).
- **Formula**:

$$\text{Final CO Attainment} = 0.4x + 0.6y$$

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

CO Attainment 2023-24					
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.7*X+0.3*Y)**
3EC2-01	Advanced Engineering Mathematics-I	CO-1	8.47	87.57	32.2
		CO-2	8.47	88.61	32.5
		CO-3	8.47	86.24	31.8
		CO-4	8.47	87.57	32.2
3EC2-02	Technical Communication	CO-1	38.42	80.00	50.9
		CO-2	38.42	78.60	50.5
		CO-3	38.42	78.80	50.5
3EC4-04	Digital System Design	CO-1	9.04	56.44	23.3
		CO-2	9.04	52.29	22.0
		CO-3	9.04	54.80	22.8
		CO-4	9.04	56.78	23.4
		CO-5	9.04	55.51	23.0
3EC4-05	Signal & Systems	CO-1	2.26	76.12	24.4
		CO-2	2.26	79.38	25.4
		CO-3	2.26	77.88	24.9
		CO-4	2.26	79.74	25.5
3EC4-06	Network Theory	CO-1	0.56	80.32	24.5
		CO-2	0.56	80.53	24.6
		CO-3	0.56	74.89	22.9
		CO-4	0.56	73.01	22.3
		CO-5	0.56	76.23	23.3
3EC4-07	Electronic Devices	CO-1	16.38	77.23	34.6
		CO-2	16.38	76.03	34.3
		CO-3	16.38	73.18	33.4
		CO-4	16.38	72.47	33.2
		CO-5	16.38	75.09	34.0
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.4*X+0.6*Y)**
3EC4-21	Electronic Devices Lab	CO-1	89.83	74.43	80.6
		CO-2	89.83	74.06	80.4
		CO-3	89.83	76.73	82.0
		CO-4	89.83	73.20	79.9
		CO-5	89.83	72.89	79.7
3EC4-22	Digital System Design Lab	CO-1	66.10	74.63	71.2
		CO-2	66.10	75.77	71.9
		CO-3	66.10	74.63	71.2
		CO-4	66.10	78.10	73.3
		CO-5	66.10	72.30	69.8
3EC4-23	Signal Processing Lab	CO-1	54.80	74.43	66.6
		CO-2	54.80	73.10	65.8
		CO-3	54.80	75.30	67.1
		CO-4	54.80	76.20	67.6
		CO-5	54.80	75.30	67.1
3EC3-24	Computer Programming Lab 1	CO-1	71.75	93.18	84.6
		CO-2	71.75	92.35	84.1
		CO-3	71.75	94.60	85.5

3EC7-30	Industrial Training	CO-1	90.96	89.20	89.9
		CO-2	90.96	90.20	90.5
		CO-3	90.96	88.30	89.4
		CO-4	90.96	89.20	89.9
		CO-5	90.96	90.50	90.7
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.7*X+0.3*Y)**
4EC2-01	Advance Engg. Mathematics II	CO-1	6.25	63.37	23.4
		CO-2	6.25	64.20	23.6
		CO-3	6.25	62.20	23.0
		CO-4	6.25	63.37	23.4
4EC1-03	Managerial Economics and Finacial Accounting	CO-1	28.98	76.92	43.4
		CO-2	28.98	80.43	44.4
		CO-3	28.98	79.41	44.1
		CO-4	28.98	77.58	43.6
4EC4-04	Analog Circuits	CO-1	18.18	51.89	28.3
		CO-2	18.18	54.10	29.0
		CO-3	18.18	57.42	30.0
		CO-4	18.18	53.65	28.8
		CO-5	18.18	56.65	29.7
4EC4-05	Microcontrollers	CO-1	11.93	74.75	30.8
		CO-2	11.93	73.75	30.5
		CO-3	11.93	73.25	30.3
		CO-4	11.93	71.80	29.9
		CO-5	11.93	74.30	30.6
4EC3-06	EMI	CO-1	9.66	74.62	29.1
		CO-2	9.66	74.71	29.2
		CO-3	9.66	74.77	29.2
		CO-4	9.66	79.10	30.5
		CO-5	9.66	77.26	29.9
4EC4-07	Analog and Digital Communication	CO-1	28.98	55.22	36.9
		CO-2	28.98	54.27	36.6
		CO-3	28.98	55.19	36.8
		CO-4	28.98	55.42	36.9
		CO-5	28.98	54.14	36.5
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.4*X+0.6*Y)**
4EC4-21	Analog and Digital Communication Lab	CO-1	47.73	58.58	54.2
		CO-2	47.73	62.01	56.3
		CO-3	47.73	59.19	54.6
		CO-4	47.73	52.04	50.3
		CO-5	47.73	51.34	49.9
4EC4-22	Analog Circuits Lab	CO-1	97.16	79.73	86.7
		CO-2	97.16	79.79	86.7
		CO-3	97.16	81.49	87.8
		CO-4	97.16	80.52	87.2
		CO-5	97.16	80.27	87.0

4EC4-23	Microcontrollers Lab	CO-1	91.48	88.60	89.8
		CO-2	91.48	86.75	88.6
		CO-3	91.48	88.85	89.9
		CO-4	91.48	87.90	89.3
		CO-5	91.48	87.90	89.3
4EC4-24	EMI Lab	CO-1	95.45	90.50	92.5
		CO-2	95.45	89.50	91.9
		CO-3	95.45	87.50	90.7
		CO-4	95.45	87.50	90.7
		CO-5	95.45	87.00	90.4
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.7*X+0.3*Y)**
5EC3-01	Computer Architecture	CO-1	28.95	47.36	34.5
		CO-2	28.95	48.60	34.8
		CO-3	28.95	48.60	34.8
		CO-4	28.95	45.60	33.9
5EC4-02	Electromagnetic Waves	CO-1	52.63	92.22	64.5
		CO-2	52.63	92.81	64.7
		CO-3	52.63	93.09	64.8
		CO-4	52.63	91.50	64.3
		CO-5	52.63	92.67	64.6
5EC4-03	Control System	CO-1	37.72	78.30	49.9
		CO-2	37.72	74.50	48.8
		CO-3	37.72	73.30	48.4
		CO-4	37.72	76.60	49.4
		CO-5	37.72	74.60	48.8
5EC4-04	Digital Signal Processing	CO-1	5.26	92.37	31.4
		CO-2	5.26	93.34	31.7
		CO-3	5.26	93.04	31.6
		CO-4	5.26	91.90	31.3
		CO-5	5.26	92.64	31.5
5EC4-05	Microwave Theory & Techniques	CO-1	25.44	69.29	38.6
		CO-2	25.44	70.60	39.0
		CO-3	25.44	68.50	38.4
		CO-4	25.44	71.20	39.2
		CO-5	25.44	69.29	38.6
5EC5-14	Satellite Communication	CO-1	41.23	76.88	51.9
		CO-2	41.23	75.51	51.5
		CO-3	41.23	75.66	51.6
		CO-4	41.23	75.96	51.6
		CO-5	41.23	76.34	51.8
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.4*X+0.6*Y)**
5EC4-21	RF Simulation Lab	CO-1	95.61	99.12	97.7
		CO-2	95.61	100.00	98.2
		CO-3	95.61	100.00	98.2
		CO-4	95.61	99.12	97.7

5EC4-22	Digital Signal Processing Lab	CO-1	71.05	99.10	87.9
		CO-2	71.05	99.10	87.9
		CO-3	71.05	99.10	87.9
		CO-4	71.05	100.00	88.4
		CO-5	71.05	100.00	88.4
5EC4-23	Microwave Lab	CO-1	98.25	99.10	98.8
		CO-2	98.25	100.00	99.3
		CO-3	98.25	100.00	99.3
		CO-4	98.25	99.10	98.8
		CO-5	98.25	100.00	99.3
5EC7-30	Industrial Training	CO-1	98.25	98.24	98.2
		CO-2	98.25	99.10	98.8
		CO-3	98.25	99.10	98.8
		CO-4	98.25	98.20	98.2
		CO-5	98.25	100.00	99.3
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.7*X+0.3*Y)**
6EC3-01	Power Electronics	CO-1	2.63	88.39	28.4
		CO-2	2.63	87.50	28.1
		CO-3	2.63	86.50	27.8
		CO-4	2.63	88.39	28.4
6EC4-02	Computer Networks	CO-1	33.33	92.20	51.0
		CO-2	33.33	93.50	51.4
		CO-3	33.33	92.06	51.0
		CO-4	33.33	91.62	50.8
6EC4-03	Fiber Optic Communication	CO-1	7.89	93.95	33.7
		CO-2	7.89	95.05	34.0
		CO-3	7.89	94.20	33.8
		CO-4	7.89	95.05	34.0
6EC4-04	Antenna and Propogation	CO-1	6.14	93.95	32.5
		CO-2	6.14	74.50	26.6
		CO-3	6.14	73.30	26.3
		CO-4	6.14	76.60	27.3
		CO-5	6.14	76.60	27.3
6EC4-05	5G Communication	CO-1	59.65	90.77	69.0
		CO-2	59.65	91.35	69.2
		CO-3	59.65	91.16	69.1
		CO-4	59.65	90.77	69.0
		CO-5	59.65	90.77	69.0
6EC5-11	Introduction to MEMS	CO-1	8.77	90.64	33.3
		CO-2	8.77	74.88	28.6
		CO-3	8.77	75.68	28.8
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.4*X+0.6*Y)**
6EC4-21	Computer Network Lab	CO-1	98.25	100.00	99.3
		CO-2	98.25	100.00	99.3
		CO-3	98.25	100.00	99.3
		CO-4	98.25	100.00	99.3
		CO-5	98.25	100.00	99.3

6EC4-22	Antenna and Propogation Lab	CO-1	97.37	98.21	97.9
		CO-2	97.37	98.20	97.9
		CO-3	97.37	100.00	98.9
		CO-4	97.37	98.20	97.9
		CO-5	97.37	100.00	98.9
6EC4-23	Electronic Design Lab	CO-1	79.82	96.42	89.8
		CO-2	79.82	98.50	91.0
		CO-3	79.82	95.20	89.0
		CO-4	79.82	95.20	89.0
		CO-5	79.82	96.42	89.8
6EC4-24	Power Electronics Lab	CO-1	95.61	92.75	93.9
		CO-2	95.61	92.82	93.9
		CO-3	95.61	94.05	94.7
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.7*X+0.3*Y)**
7EC5-11	VLSI Design	CO-1	54.75	80.44	62.5
		CO-2	54.75	81.30	62.7
		CO-3	54.75	79.30	62.1
		CO-4	54.75	80.44	62.5
7AG6-60.2	Environmental Engineering and Disaster Management	CO-1	15.08	90.50	37.7
		CO-2	15.08	91.20	37.9
		CO-3	15.08	91.20	37.9
		CO-4	15.08	88.20	37.0
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.4*X+0.6*Y)**
7EC4-21	VLSI Design Lab	CO-1	84.35	100.00	93.7
		CO-2	84.35	100.00	93.7
		CO-3	84.35	100.00	93.7
		CO-4	84.35	100.00	93.7
7EC4-22	Advance Communication Lab (MATLAB Simulation)	CO-1	98.88	97.76	98.2
		CO-2	98.88	100.00	99.6
		CO-3	98.88	97.76	98.2
		CO-4	98.88	100.00	99.6
7EC4-23	Optical Communication Lab	CO-1	65.92	98.82	85.7
		CO-2	65.92	100.00	86.4
		CO-3	65.92	98.20	85.3
7EC7-30	Industrial Training	CO-1	91.62	86.59	88.6
		CO-2	91.62	85.60	88.0
		CO-3	91.62	87.20	89.0
		CO-4	91.62	86.20	88.4
		CO-5	91.62	86.20	88.4
7EC7-40	Seminar	CO-1	100.00	100.00	100.0
		CO-2	100.00	100.00	100.0
		CO-3	100.00	100.00	100.0
		CO-4	100.00	100.00	100.0
		CO-5	100.00	100.00	100.0
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.7*X+0.3*Y)**

8EC5-12	Digital Image and Video Processing	CO-1	39.66	87.80	54.1
		CO-2	39.66	82.83	52.6
		CO-3	39.66	86.68	53.8
		CO-4	39.66	82.68	52.6
8TT6-60.2	Disaster Management	CO-1	51.40	88.82	62.6
		CO-2	51.40	89.33	62.8
		CO-3	51.40	87.20	62.1
		CO-4	51.40	84.20	61.2
Sub. Code	**Sub. Name**	**COs**	**External Attainment (X)**	**Internal Attainment (Y)**	**Final Attainment (0.4*X+0.6*Y)**
8EC4-21	Internet of Things (IOT) Lab	CO-1	100.00	100.00	100.0
		CO-2	100.00	100.00	100.0
		CO-3	100.00	100.00	100.0
8EC4-22	Skill Development Lab	CO-1	98.88	100.00	99.6
		CO-2	98.88	100.00	99.6
8EC7-50	Project	CO-1	82.12	87.70	85.5
		CO-2	82.12	88.50	85.9
		CO-3	82.12	86.30	84.6
		CO-4	82.12	85.60	84.2
		CO-5	82.12	88.90	86.2

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

To ensure effective implementation of **Outcome-Based Education (OBE)**, the institute has established a robust system for assessing and evaluating the attainment of **Program Outcomes (POs)** and **Program Specific Outcomes (PSOs)**. The process integrates **direct and indirect assessment tools**, conducted periodically, and documented through attainment level analysis.

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

Formula for Direct POs/PSOs Attainment:

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. These include:

- **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.
- **Weightage Assignment**: The **DQAC (Departmental Quality Assurance Cell)** assigns weightage to each tool in relation to each **PO**. An Excel sheet is used to calculate **PO attainment levels**.
- **Rubric-Based Evaluation**: Each tool is evaluated according to defined rubrics, with the attained values recorded based on rubric criteria.

INDIRECT ATTAINMENT (POs/PSOs)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and electronics & communication engineering specialization to the solution of complex electronics and communication engineering problems.				
	Tools	Target	Attainment	Rubric
INDIRECT	Placement	3	2.58	>=70% students placed => Target Achieved Else pro rata
	Co-curriculer activities	2	2	>=80% students participated => Target Achieved Else pro rata
	Course Exit survey	3	2.5	Pro rata
	Student Exit survey	3	1.8	Pro rata
	Alumni survey	1	0.66	Pro rata
		2.4	1.908	

PSO1: Ability to develop knowledge of Embedded Systems and its application in Automation.				
	Tools	Target	Attainment	Rubric
INDIRECT	Placement	2	1.78	>=70% students placed => Target Achieved Else pro rata
	Co-curriculer activities	1	1	>=80% students participated => Target Achieved Else pro rata
	Course Exit survey	1	0.76	Pro rata
	Student Exit survey	3	1.8	Pro rata
	Alumni survey	2	1.5	Pro rata
		1.8	1.368	

Note: All other POs calculation is same with different weightages

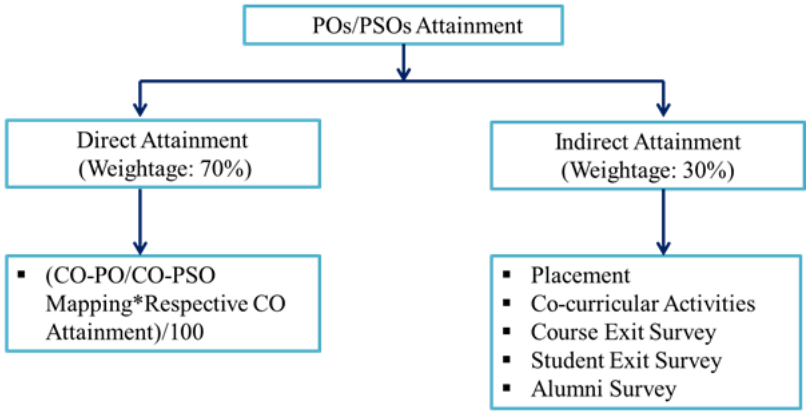

Fig. 3.3.1.1 PO/PSO Assessment Tool

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
3EC2-01	1.04	1.04	1.04	0.87	0.70	0.09	0.00	0.00	0.26	0.00	0.26	0.70
3EC2-02	1.07	0.43	0.22	0.00	0.86	0.85	0.22	1.28	1.28	1.92	1.07	1.92
3EC4-04	1.65	1.32	1.32	1.10	0.88	0.33	0.44	0.22	0.44	0.66	0.66	1.10
3EC4-05	2.10	1.93	1.40	1.57	1.75	0.17	0.00	0.00	0.70	0.70	0.70	1.40
3EC4-06	1.65	1.65	1.54	1.21	1.10	0.00	0.44	0.22	0.55	0.55	0.55	0.99
3EC4-07	1.73	1.27	1.15	1.15	1.15	0.23	0.11	0.00	0.11	0.00	0.80	1.27
3EC4-21	2.99	1.99	2.99	2.79	1.99	1.00	0.00	1.99	2.99	1.79	1.00	1.99
3EC4-22	2.99	2.99	2.99	2.39	1.99	1.00	0.40	1.79	2.79	1.99	1.00	2.39
3EC4-23	2.96	2.57	2.77	1.97	1.97	0.59	0.00	1.78	2.57	1.97	0.99	1.97
3EC4-24	2.99	2.99	2.32	1.99	2.99	1.00	0.00	1.33	2.32	1.99	1.00	1.99
3EC7-30	1.93	1.55	1.16	1.16	1.93	1.36	0.58	1.93	2.32	2.13	1.74	2.90
4EC2-01	1.08	1.62	1.08	1.35	1.08	0.27	0.13	0.00	0.40	0.27	0.27	1.08
4EC1-03	0.00	0.38	0.00	0.19	0.19	1.52	0.76	1.52	1.52	2.09	1.52	2.28
4EC4-04	1.26	1.01	1.26	1.09	0.76	0.08	0.34	0.00	0.42	0.42	0.51	0.93
4EC4-05	1.59	1.38	1.49	1.49	1.38	0.53	0.11	0.10	1.06	0.63	0.85	1.27
4EC3-06	1.61	1.29	1.39	1.07	0.64	0.54	0.54	0.00	0.64	0.54	0.54	1.07
4EC4-07	2.08	2.08	1.52	1.80	1.66	0.69	0.55	0.00	0.69	0.69	0.69	1.39
4EC4-21	2.99	2.79	1.99	2.99	1.99	0.60	0.40	1.99	2.59	2.39	1.19	2.19
4EC4-22	2.99	2.79	2.79	2.99	1.99	1.00	0.80	1.00	1.99	1.99	1.19	2.39
4EC4-23	2.99	2.99	2.59	2.99	2.99	1.00	1.00	1.79	2.79	1.99	1.59	1.99
4EC4-24	2.99	2.99	2.39	2.19	1.99	1.00	0.20	1.00	1.99	1.99	1.00	2.19
5EC3-01	1.18	0.39	0.88	0.49	0.59	0.78	0.68	0.49	0.78	0.39	0.78	1.08
5EC4-02	0.70	0.51	0.47	0.52	0.42	0.14	0.19	0.05	0.24	0.14	0.19	0.66
5EC4-03	0.89	0.71	0.65	0.89	0.65	0.18	0.12	0.06	0.35	0.06	0.23	0.77
5EC4-04	1.05	0.98	0.77	0.77	0.56	0.07	0.14	0.14	0.35	0.35	0.42	0.84
5EC4-05	0.79	0.79	0.68	0.68	0.63	0.16	0.21	0.05	0.37	0.26	0.26	0.63
5EC5-14	1.14	1.06	1.06	0.90	0.81	0.16	0.16	0.17	0.57	0.17	0.32	0.81
5EC4-21	2.96	2.96	2.96	2.96	2.47	0.49	0.25	1.73	2.72	2.47	1.73	2.96
5EC4-22	2.96	2.77	2.77	2.37	2.96	0.79	0.40	1.78	2.17	2.17	0.99	1.98
5EC4-23	2.96	1.97	2.76	2.76	2.56	0.20	0.20	1.38	1.97	2.36	1.18	1.97
5EC7-30	2.18	1.78	0.99	0.79	0.79	1.98	1.18	2.37	2.57	2.77	1.98	2.97

6EC3-01	1.05	0.79	0.70	0.61	0.61	0.52	0.35	0.26	0.53	0.44	0.44	0.79
6EC4-02	1.01	0.76	0.84	0.76	0.67	0.42	0.25	0.00	0.34	0.42	0.43	0.76
6EC4-03	1.40	0.94	0.94	0.94	0.94	0.47	0.35	0.12	0.47	0.23	0.47	0.94
6EC4-04	1.42	1.42	1.33	1.33	1.42	0.47	0.57	0.10	0.66	0.19	0.57	1.05
6EC5-11	0.92	0.80	0.68	0.68	0.68	0.23	0.46	0.00	0.57	0.00	0.23	0.68
6EC4-21	2.50	1.83	1.83	1.66	2.00	1.16	0.83	1.33	1.66	1.66	1.33	1.66
6EC4-22	2.95	2.55	2.55	2.55	2.95	1.57	0.59	1.96	1.96	2.75	1.18	1.96
6EC4-23	2.72	2.72	2.36	2.35	2.18	0.91	1.09	1.63	2.17	1.99	0.91	1.81
6EC4-24	2.98	1.99	1.99	1.99	0.99	0.99	0.00	0.99	1.99	1.99	0.99	1.99
7EC5-11	1.87	1.87	1.87	1.40	1.25	0.00	0.47	0.16	0.62	0.62	0.62	1.25
7AG6-60.2	0.00	0.19	0.00	0.09	0.09	0.75	0.38	0.75	0.75	1.03	0.75	1.13
7EC4-21	2.81	2.58	2.34	2.34	2.11	1.17	1.17	1.64	2.11	2.34	0.94	1.87
7EC4-22	2.97	1.98	2.72	2.72	2.48	0.25	0.25	1.23	1.98	2.22	1.24	1.98
7EC4-23	2.57	2.29	2.57	2.57	2.00	0.28	0.00	1.72	2.29	2.29	1.14	2.29
7EC7-30	2.65	2.30	1.42	1.24	1.77	1.24	0.53	1.77	2.12	1.95	1.59	2.65
7EC7-40	3.00	2.80	2.20	2.20	2.40	2.00	1.40	1.00	2.80	2.20	1.80	2.00
8EC5-12	1.60	1.60	1.46	1.46	1.60	0.53	0.67	0.00	0.80	0.13	0.80	1.07
8TT6-60.2	0.78	0.62	0.00	0.00	0.16	1.24	0.62	1.24	1.24	1.71	1.24	1.87
8EC4-21	3.00	2.00	3.00	2.67	1.67	0.00	0.67	0.00	1.00	1.00	1.33	2.33
8EC4-22	2.99	2.99	2.49	2.49	2.49	1.99	1.00	1.00	2.49	1.99	1.99	1.99
8EC7-50	2.56	2.39	1.88	1.88	2.05	1.71	1.20	0.86	2.39	1.88	1.53	1.71
6EC4-05	0.92	0.76	0.69	0.76	0.23	0.77	0.46	0.16	0.00	0.92	0.00	0.23
PO Attainment	1.95	1.79	1.66	1.48	1.51	0.90	0.66	1.04	1.45	1.43	1.08	1.67

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.97	1.72	1.61	1.55	1.46	0.71	0.45	0.83	1.39	1.28	0.92	1.59
InDirect Attainment	1.87	2.05	1.87	1.18	1.70	1.64	1.49	1.87	1.70	2.02	1.74	2.00

PSO Attainment

Course	PSO1	PSO2
3EC2-01	0.26	0.18
3EC2-02	0.00	0.00
3EC3-24	1.00	0.00
3EC4-04	1.32	0.66
3EC4-05	1.23	0.53
3EC4-06	0.55	1.10
3EC4-07	1.16	1.16
3EC4-21	1.59	1.20
3EC4-22	2.39	1.00
3EC4-23	0.59	0.00
3EC7-30	1.16	1.54
4EC1-03	0.00	0.00
4EC2-01	0.40	0.00
4EC3-06	0.86	1.29
4EC4-04	0.93	0.93
4EC4-05	1.48	0.85
4EC4-07	0.69	0.00
4EC4-21	0.80	0.00
4EC4-22	1.99	1.39
4EC4-23	2.79	1.59

4EC4-24	1.39	2.19
5EC3-01	0.98	0.39
5EC4-02	0.00	0.00
5EC4-03	0.77	0.83
5EC4-04	0.70	0.28
5EC4-05	0.00	0.00
5EC4-21	0.00	0.00
5EC4-22	1.78	0.00
5EC4-23	0.00	0.00
5EC5-14	0.00	0.00
5EC7-30	1.19	1.58
6EC3-01	0.52	1.05
6EC4-02	0.09	0.00
6EC4-03	0.00	0.00
6EC4-04	0.00	0.00
6EC4-05	0.00	0.00
6EC4-21	0.33	0.00
6EC4-22	0.00	0.00
6EC4-23	1.45	0.55
6EC4-24	1.66	2.98
6EC5-11	0.80	0.12
7AG6-60.2	0.00	0.00
7EC4-21	1.41	0.23
7EC4-22	0.74	0.00
7EC4-23	0.00	0.00
7EC5-11	1.56	0.47
7EC7-30	1.06	1.59
7EC7-40	0.40	0.40
8EC4-21	2.00	1.00
8EC4-22	0.50	0.50
8EC5-12	0.40	0.00
8EC7-50	1.53	1.53
8TT6-60.2	0.00	0.00
PSO Attainment	0.91	0.72

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	0.80	0.55
InDirect Attainment	1.33	1.39

4 STUDENTS' PERFORMANCE (150) Total Marks 116.84

:

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23(CAYm2)	2021-22(CAYm3)	2020-21(CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
Sanctioned intake of the program(N)	120	120	180	180	180	240	240
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)	124	125	177	116	181	226	167
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	0	0	1	0	0	0
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	124	125	177	117	181	226	167

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
2024-25 (CAY)	124	0	0	0	0
2023-24 (CAYm1)	125	63	0	0	0
2022-23 (CAYm2)	177	89	75	0	0
2021-22 (CAYm3)	117	46	43	41	0
2020-21 (LYG)	181	175	111	110	110
2019-20 (LYGm1)	226	106	106	92	92
2018-19 (LYGm2)	167	64	55	53	53

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
2024-25 (CAY)	124	0	0	0	0
2023-24 (CAYm1)	125	125	0	0	0
2022-23 (CAYm2)	177	177	176	0	0
2021-22 (CAYm3)	117	116	116	115	0
2020-21 (LYG)	181	179	179	179	153
2019-20 (LYGm1)	226	226	226	225	214
2018-19 (LYGm2)	167	160	160	159	154

4.1 Enrolment Ratio (20) Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	120	124	103.33
2023-24 (CAYm1)	120	125	104.17
2022-23 (CAYm2)	180	177	98.33

Average [(ER1 + ER2 + ER3) / 3] : 101.94

Assessment : 20.00

4.2 Success Rate in the stipulated period of the program (40) Total Marks 24.85

4.2.1 Success rate without backlogs in any semester / year of study (25) Institute Marks : 11.25

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	181.00	226.00	167.00
Y Number of students who have graduated without backlogs in the stipulated period	110.00	92.00	53.00
Success Index [SI = Y / X]	0.61	0.41	0.32

Average SI [(SI1 + SI2 + SI3) / 3] : 0.45

Assessment [25 * Average SI] : 11.25

4.2.2 Sucess rate in stipulated period (15) Institute Marks : 13.60

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	181.00	226.00	167.00
Y Number of students who have graduated in the stipulated period	153.00	214.00	154.00
Success Index [SI = Y / X]	0.85	0.95	0.92

Average SI[(SI1 + SI2 + SI3) / 3]: 0.91

Assessment [15 * Average SI] : 13.60

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 11.20

Institute Marks : 11.20

Academic Performance	CAYm3 (2021-22)	LYG (2020-21)	LYGm1 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	7.37	7.31	7.82
Total number of successful students(Y)	115.00	179.00	225.00
Totalnumber of students appeared in the examination(Z)	116.00	179.00	226.00
API [X*(Y/Z)]:	7.31	7.31	7.79

Average API [(AP1 + AP2 + AP3)/3] : 7.47

Assessment [1.5 * AverageAPI] : 11.20

4.4 Academic Performance in Second Year (15) Total Marks 10.92

Institute Marks : 10.92

Academic Performance	CAYm2 (2022-23)	CAYm3 (2021-22)	LYG (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	7.31	6.91	7.73
Total number of successful students (Y)	176.00	116.00	179.00
Total number of students appeared in the examination (Z)	177.00	117.00	179.00
API [X * (Y/Z)]	7.27	6.85	7.73

Average API [(AP1 + AP2 + AP3)/3] : 7.28

Assessment [1.5 * AverageAPI] : 10.92

4.5 Placement, Higher Studies and Entrepreneurship (40) Total Marks 29.87

Institute Marks : 29.87

Item	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
Total No of Final Year Students(N)	179.00	225.00	159.00
No of students placed in the companies or government sector(X)	143.00	147.00	115.00
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	4.00	4.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	5.00	1.00
x + y + z =	144.00	156.00	120.00
Placement Index [(X+Y+Z)/N] :	0.80	0.69	0.75

Average Placement [(P1 + P2 + P3)/3] : 0.75

Assessment [40 * Average Placement] : 29.87

Program Name :
Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Arya Raj	20EJCEC022	Deloitte USI	Offer letter Dated 16/08/2024
2	Yogesh Kumar Dadhich	20EJCEC176	RJ Solar, Accelnomics	Email Dated 09/12/2023
3	Nitin mishra	20EJCEC108	SSTPL	Offer Dated 7/11/2023
4	Gouri MANSINGHKA	20EJCEC051	Deloitte,R J solar	Offer dated 22/02/2024
5	Amirullah Khan	20EJCEC011	Cyntexa	Offer letter Dated 03/01/2024
6	Ronit kumar jain	20EJCEC133	Deloitte	Offer letter Dated 06/11/2024
7	Sapan Mittal	20EJCEC141	LTIMINDTREE	LTIMindtree/HR/EN11/Campus/2024, Dated 18/09/2024
8	Garvita Gupta	20EJCEC049	Deloitte	Offer letter Dated 27/02/2024
9	Vanshita khanda	20EJCEC166	Accenture	Offer letter Dated 10/10/24
10	Nirvigh Nama	20EJCEC106	Upflairs	UPL/JPR/2023-24/144
11	Bhavika Saini	20EJCEC033	Accenture	C08167811, Dated 19/06/24
12	Chinmay Jain	20EJCEC038	RJ Solar, Talent Serve	Email Dated 09/12/2023
13	Saloni goyal	20EJCEC137	TCS	na
14	SAMEER MATHUR	20EJCEC138	Government JOB, Indian Railway	Appointment Letter by Indian Railway
15	Chandra Prakash Gupta	20EJCEC036	RJ Solar, Talent Serve	Email Dated 09/12/2023
16	Love Dev Singh	20EJCEC084	Transfunnel	TF/OFFER/TF0242-T, Dated 01/11/2023
17	Akshat dhyani	20EJCEC008	Academor	OL No: AM4619, 10/10/2023
18	Nikhil nagori	20EJCEC103	Academor	Email Dated 03/10/2023
19	Nikhil bansal	20EJCEC102	Academor	Email Dated 03/10/2023
20	Surya pratap singh	20EJCEC156	Academor	Email Dated 03/10/2023
21	Amit kumar	20EJCEC012	Academor,skillbuzz, Talent Serve	Email Dated 03/10/2023
22	Ayush soni	20EJCEC030	Academor,SSTPL	Offer Dated 30/09/2023
23	Hitin vaswani	20EJCEC060	Yuki Nova (E-oxygen)	EOA/GN/2024/March/9 , Dated 09/03/24
24	Mitali Vinocha	20EJCEC089	TCS	TCSL/CT20234176036/Delhi, 21/03/24
25	Aman Goyal	20EJCEC009	Academor	OLNo:AM4620, Dated 10/10/23
26	Kishan Gopal Jetwal	20EJCEC076	Ericsson India Pvt Ltd	EGIL/HR-24:1095 Uen , Dated 21/3/24
27	Mihir Natani	20EJCEC088	Accenture	C06254741, Dated 21/02/24
28	Harshvardhan Soni	20EJCEC057	AU Small Finance Bank	Offer letter dated 4/11/23
29	Shivansh Bhardwaj	20EJCEC148	Tech Mahindra	LTTS/HR/ET/2024/Mysore/631113, Dated 21/05/24
30	Chirag Jain	20EJCEC039	L&T Technology Services	LTTS/HR/ET/2024/Mysore/631113, Dated 14/06/2024
31	Manas Agrawal	20EJCEC085	Newgen Software	DC/2023-24/011838, Dated 01/07/2024
32	Nilanshi Jain	20EJCEC104	Hpe	Offer letter Dated 07/12/2023
33	Komal Gupta	20EJCEC077	HPE, Celebel	Offer letter Dated 8/12/2023
34	Ankit Kumar Sharma	20EJCEC016	Talent serve, Asset Deal, Edustation	Offer letter 8/12/2023, TSIPL/CH/MTH0024/24/610198(Talent Serve)
35	Manvendra Singh Shekhawat	20EJCEC087	Fev india	Offer letter Dated 19/03/2024
36	Abhinav Singh Shekhawat	20EJCEC301	Talent Serve	TSIPL/CH/NTASSI/24/610188, Dated 20/03/2024
37	Krishna Jangir	20EJCEC078	Chegg India, Deloitte	Offer letter attached Dated 11/07/2024
38	Himanshu Ameta	20EJCEC058	E-OXYGEN	EOA/GN/2024/March/9 , 9/3/2024
39	Chandan kumar	20EJCEC035	Victory ev	Result screenshot attached Dated 22/10/2023
40	Ashish Gupta	20EJCEC024	Edustation	EDUS23-2561, Dated 6/12/2023
41	Naman Doriya	20EJCEC095	TCS	TCSL/DT20234717495/Ahmedabad, Dated 15/07/2024
42	Harshvardhan Sharma	20EJCEC056	Chegg	Email Dated 20/03/2024
43	Mohan Lal	20EJCEC090	RJ Solar	TSPL/OL/2024/Jan/25, Dated 25/01/2024
44	Nayan jain	20EJCEC097	Acadmor	OLNo:AM4627, Dated 10/10/2023
45	Rachit Prajapati	20EJCEC124	RJ SOLAR	TSPL/OL/2024/Jan/25, Dated 25/01/2024
46	Laxmi Narayan	20EJCEC083	SSTPL	Offer Dated 7/11/2023
47	KALASH KSHETIJA	20EJCEC064	Newgen softwares	Email dated 2/11/2023
48	Khushi Maheshwari	20EJCEC073	Rj solar	TSPL/OL/2024/Jan/10, 10/01/2024
49	Nitesh Rao	20EJCEC107	TCS, RJ Solar	TCSL/CT20234175515/Ahmedabad, Dated 15/07/2024

50	Ramkesh Bairwa	20EJCEC129	Ev clinic	Email Dated 9/1/24
51	VISHAL KUMAWAT	20EJCEC170	RJ Solar	Email Dated 09/12/2023
52	Atul Singhal	20EJCEC027	TCS	TCSL/DT20234368247/Delhi, 21/03/2024
53	Diwya sudarshan kaushik	20EJCEC047	RJ Solar	TSPL/OL/2024/Jan/25, Dated 25/01/2024
54	Uday garg	20EJCEC309	Genus power insfastrature ltd	GPIL/Int./23-2024, Dated 11/12/2024, Email dated 7/10/23
55	Ayush Sharma	20EJCEC029	RJ Solar	TSPL/OL/2024/Jan/10, Dated 10/01/2024
56	Gorav	20EJCEC311	TCS	TCSL/DT20245675369/Ahmedabad, Dated 15/07/2024
57	Ghanishth Kumawat	20EJCEC050	SSTPL , The Editor Suite	Offer Dated 7/11/2023, Offer letter Dated 30/08/24
58	Yash mittal	20EJCEC174	Eoxygen	EOA/GN/2024/March/9, Dated 9/3/24
59	Akshat Khandelwal	20EJCEC310	Cyntexa Labs Pvt Ltd	Appointment letter Dated 04/03/2024
60	Kanad Mishra	20EJCEC065	RJ solar	Email Dated 09/12/2023
61	Pankaj Kumar Yadav	20EJCEC110	Ericsson	EGIL/HR-24:1094 Uen, 21/03/2024
62	Sarthak Saxena	20EJCEC142	Kugelblitz	LOI Dated 01/06/2024
63	Yash kumar more	20EJCEC173	-elluminati inc	Offer letter Dated 15/01/2024
64	Priyanshu Jain	20EJCEC120	TCS	TCSL/DT20234710934/Ahmedabad, Dated 18/07/2024
65	Ashwani sharma	20EJCEC026	TCS	TCSL/CT20234264937/Ahmedabad, Dated 15/07/2024
66	Abhijeet Dadheech	20EJCEC004	Genus Power	GPILAL609, Dated 06/07/2024
67	Payal Soni	20EJCEC112	RJ Solar	Email Dated 09/12/2023
68	Vaishnavi Chauhan	20EJCEC165	Newgen Softwares	DC/2023-24/012118, Dated 30/11/2023
69	Kirtika Sharma	20EJCEC075	Academor, Core Teams	OLNo:AM4625, Dated 10/10/2023
70	Rajnandini Soni	20EJCEC128	Indus towers	ID 113565, 05/08/2024
71	Ayushi Agarwal	20EJCEC031	Accenture	C06537681, Dated 12/06/2024
72	Nidhi Tirthani	20EJCEC100	HPE	Offer letter Dated 29/02/2024
73	Tushar chaturvedi	20EJCEC160	Acedemor	OLNo:AM4604, Dated 10/10/2024
74	Rohit prajapati	20EJCEC308	Academor/ Papriwal group	Offer Dated 30/09/2023
75	Abhijeet bhatnagar	20EJCEC003	Academor/SSTPL	Email Dated 03/10/2023
76	Shashank mangal	20EJCEC145	Academore	Email Dated 03/10/2023
77	Yash goswami	20EJCEC172	Acadmore	Email Dated 03/10/2023
78	Srishti kumari	20EJCEC154	acadomare	Email Dated 03/10/2023
79	Yashvi jain	20EJCEC175	Accenture	Email Dated 16/11/2023
80	Pranika goyal	20EJCEC115	Agumentik	Email Dated 26/09/2023
81	Naveen gurjar	20EJCEC096	AU Bank	Offer letter Dated 4/11/2023
82	Poorvi gupta	20EJCEC114	AU Bank	Offer letter Dated 4/11/2023
83	Shubhankar pandey	20EJCEC151	Capital Via	Offer Dated 8/10/23
84	Harsh pareek	20EJCEC054	Capital Via / EV clinic	Email Dated 9/1/24, Email Dated 7/10/23
85	Amit solanki	20EJCEC013	Chegg	Email Dated 20/03/2024
86	Khushi kachhara	20EJCEC072	Chegg	Email Dated 20/03/2024
87	Lakshya jain	20EJCEC081	Chegg	Email Dated 20/03/2024
88	Nikhil agarwal	20EJCEC101	Chegg	Email Dated 20/03/2024
89	Dishant chejara	20EJCEC043	Edustation ,Talent Serve	Offer Dated 5/12/23
90	Siddharth sharma	20EJCEC152	E-Oxygen	Email Dated 13/12/23
91	Gagan goyal	20EJCEC048	EV clinic	Email Dated 9/1/24
92	Vipul agarwal	20EJCEC168	EV Clinic	Email Dated 9/1/24
93	Ashish tiwari	20EJCEC025	Sinume Automation	Offer letter Dated 23/05/2025
94	Bhuvan kumar singh	20EJCEC034	Delvex Innovations	Delv/2023-24/67
95	Jyoti soni	20EJCEC063	Future first, Accenture	Offer letter dated 23/09/2023
96	Saurav mall	20EJCEC143	Genus Power	Email Dated 18/11/23
97	Pulak gupta	20EJCEC121	Hexaware	Offer letter Dated 03/05/2024
98	Hemant kumar jangid	20EJCEC312	Just dial	Email dated 21/10/2023
99	Rohit sharma	20EJCEC302	Learn and Build	Email dated 04/10/2023

100	Bal krishan saini	20EJCEC032	Learning Routes	Offer letter Dated 18/09/2023
101	Sanskar kulshrestha	20EJCEC140	LTIMindtree	Ref: LTIMindtree/HR/EN11/Campus/2024, Dated 18/09/2024
102	Abhi soni	20EJCEC002	Newgen	Email Dated 2/11/23
103	Yash babel	20EJCEC171	Newgen software	Email Dated 2/11/23
104	Chetna agarwal	20EJCEC037	RJ Solar	Email Dated 09/12/2023
105	Nupur agarwal	20EJCEC109	RJ Solar	Email Dated 09/12/2023
106	Lakshta nandwana	20EJCEC080	RJ Solar/LTI mindtree	Email Dated 09/12/2023
107	Khushi bindal	20EJCEC070	SolvFore	Email Dated 21/03/2024
108	Ankit doot	20EJCEC015	Talent Serve	Email Dated 8/4/24
109	Archita khandelwal	20EJCEC020	Tata Power	Offer letter Dated 5/2/24
110	Aryan sharma	20EJCEC023	Tesca	Email Dated 26/09/2023
111	Deepak vijay	20EJCEC041	Tesca	Email Dated 26/09/2023
112	Ayush mittal	20EJCEC028	Tesca / Cyntexa/Talent Serve	Email Dated 26/09/2023
113	Keshav yadav	20EJCEC068	Tesca, RJ Solar	Email Dated 09/12/2023
114	Priyanshu	20EJCEC119	Wayspire (Sales) / EV clinic	Email Dated 9/1/24
115	Anjali	20EJCEC014	ZS Associates, Accenture	Email Dated 26/9/23
116	Zeeshan Ali	20EJCEC177	E-OXYGEN	Email Dated 13/12/23
117	Parul sharma	20EJCEC111	Academor /TCS	Email Dated 03/10/2023
118	ARJUN	20EJCEC021	Briskminds	Offer letter Dated 24/06/204
119	VINIT GARG	20EJCEC167	Talent Serve	Offer letter dated 20/03/24
120	RONAK MAHESHWARI	20EJCEC300	OWEBEST-Off Campus	Offer Letter OWEBEST
121	AKSHAT AUDICHYA	20EJCEC007	UpFlairs	Ref ID: UPL/JPR/2023-24/128
122	ANUBHAV SINGH	20EJCEC018	DELVEX INNOVATIONS	Reference No: Delv/2023-24/64
123	ANURAG KUMAR SHUKLA	20EJCEC019	UpFlairs	Ref ID: UPL/JPR/2023-24/125
124	CHIRAYU TRIVEDI	20EJCEC040	Rajasthan Network Solution	RNS/HR/2023-24/21
125	DHRUV GOYAL	20EJCEC042	DELVEX INNOVATIONS	Delv/2023-24/65
126	DIVYAM GARG	20EJCEC045	UpFlairs	UPL/JPR/2023-24/123
127	DIVYANSHI UPRETI	20EJCEC046	Koshalya Enterprises	Rect./2023-24/42
128	HIMANSHU MITTAL	20EJCEC059	Rajasthan Network Solution	RNS/HR/2023-24/15
129	JAYANT ASAWA	20EJCEC061	DELVEX INNOVATIONS	Delv/2023-24/63
130	KANISHK VIJAYVARGIA	20EJCEC066	Koshalya Enterprises	Rect./2023-24/47
131	KESHAV THAKURIYA	20EJCEC067	DELVEX INNOVATIONS	Delv/2023-24/58
132	KHUSHBOO	20EJCEC069	Koshalya Enterprises	Rect./2023-24/44
133	KINSHUK PAREEK	20EJCEC074	UpFlairs	UPL/JPR/2023-24/146
134	MANENDRA SAINI	20EJCEC086	DELVEX INNOVATIONS	Delv/2023-24/56
135	PULKIT GALAV	20EJCEC122	UpFlairs	UPL/JPR/2023-24/135
136	PURSHOTAM	20EJCEC123	UpFlairs	UPL/JPR/2023-24/145
137	RAHUL SHARMA	20EJCEC125	Rajasthan Network Solution	RNS/HR/2023-24/14
138	Rahul Singh	20EJCEC126	UpFlairs	UPL/JPR/2023-24/137
139	RISHI SAINI	20EJCEC130	Koshalya Enterprises	Rect./2023-24/45
140	SAIF ALI	20EJCEC136	Rajasthan Network Solution	RNS/HR/2023-24/12
141	SHIVAM VIJAY	20EJCEC146	UpFlairs	UPL/JPR/2023-24/142
142	SHRIKANT VAISHNAV	20EJCEC149	UpFlairs	UPL/JPR/2023-24/144
143	SHRYANSH SHREE GANGWAL	20EJCEC150	DELVEX INNOVATIONS	Delv/2023-24/61

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Megha	19EJCEC101	Newgen software technology	DC/2022-23/007214, Dated 02/11/2022
2	Megha Kumari	19EJCEC102	LTI	LTI/HR/EN9/Campus/2023, Dated 16/11/2022
3	Mihir Dadhich	19EJCEC104	LTI	LTI/HR/EN6/Campus/2023, Dated 10/11/2022
4	Mohit goyal	19EJCEC109	spanidea systems	Offer letter dated 16/12/2022
5	Mohit mathur	19EJCEC110	Accenture	Offer letter Dated 04/05/2023
6	Monika Saini	19EJCEC111	EY GDS	Letter of Intent dated 11/10/2022
7	Muskan Agarwal	19EJCEC114	EY Global Delivery Services India LLP	Offer letter dated 11/10/2022
8	Muskan Bhattar	19EJCEC115	Salesforce	Offer letter Dated 06/01/2023
9	Muskan Jalan	19EJCEC116	Consultadd, LTI	LTI/HR/EN9/Campus/2023, Dated 10/11/2022
10	Naman jain	19EJCEC119	TCS	TCSL/CT20223951991/Delhi, Dated 24/11/2022
11	Nandini Vyas	19EJCEC120	Consultadd	Offer letter dated 22/09/2022
12	Neha Jain	19EJCEC122	Appcino	APPCINO/#01326, Dated 14/11/2022
13	Neha ved	19EJCEC123	Genus power infrastructures ltd	Genus/HRD/2022-23, Dated 03/10/2022
14	Nikhil Mittal	19EJCEC124	Accenture	Letter of Intent
15	Palak Marwal	19EJCEC128	Accenture	C11868586 Dated 04/05/2023
16	Parag Gupta	19EJCEC129	Ericsson	EGIL/HR-23:793 Uen, Dated 27/02/2023
17	Parth Pareek	19EJCEC132	TCS, LTD	TCSL/CT20223948169/Delhi, Dated 24/11/2022
18	Parth Sharma	19EJCEC133	Intellipaat	Offer letter Dated 03/02/2023
19	Prachi Maheshwari	19EJCEC135	Ericsson	EGIL/HR-23:798 Uen, Dated 27/02/2023
20	Prachi Soni	19EJCEC136	HPE	Offer letter Dated 19/12/2022
21	Pratyush Amrit	19EJCEC140	Comviva	Offer letter Dated 11/11/2022
22	Prinal gupta	19EJCEC141	Consultadd	Offer letter Dated 14/02/2023
23	Priyanshi Agrawal	19EJCEC143	EY	Offer letter dated 12/10/2022
24	Priyanshu Jain	19EJCEC145	SSTPL	Offer letter Dated 16/11/2022
25	Priyanshu Singhal	19EJCEC146	COMVIVA	Offer letter Dated 11/11/2022
26	Pulkit khandelwal	19EJCEC147	LTI	LTI/HR/EN9/Campus/2023, Dated 10/11/2022
27	Puneet kukkar	19EJCEC148	Habilelabs	U72900RJ2016PTC055203
28	RACHIT BHARGAVA	19EJCEC149	LTI	LTI/HR/EN9/Campus/2023, Dated 10/11/2022
29	Aditi Jain	19EJCEC002	Newgen	DC/2022-23/007188, November 2, 2022
30	Aditi Malhotra	19EJCEC003	EY GDS	Letter of Intent dated 11/10/2022
31	Aditya Mehta	19EJCEC005	Newgen Software	DC/2022-23/007358, 02/11/2022
32	Aditya Swarnkar	19EJCEC008	Ericsson	EGIL/HR-23:432 Uen, Dated 05/01/2023
33	Aishwarya Lodha	19EJCEC009	Accenture	C11869119 , Dated 04/07/2023
34	Akash soni	19EJCEC011	Genus	Genus/HRD/2022-23, Dated 03/10/2022
35	Akshat Singhal	19EJCEC013	Comviva	Offer letter dated 11/11/2022
36	Akshit Jagetiya	19EJCEC015	Flitpay	Offer letter dated 01/01/2023
37	Alisha Lohia	19EJCEC016	SSTPL	Offer letter Dated 16/11/2022
38	Aman Singh	19EJCEC018	Newgen	DC/2022-23/007184, Dated 02/11/2022
39	Aniket sharma	19EJCEC019	Smart Brain Engineers and Technologist PVT Ltd	SBHTDJP32, Dated 20-02-2023
40	Ansh Agarwal	19EJCEC020	TCS	TCSL/CT20203186933/Delhi, Dated 24/11/2022
41	Arpan Goyal	19EJCEC024	Flitpay	Campus drive result snapshot
42	Arpit Gupta	19EJCEC025	TCS	TCSL/CT20224016691/Delhi, Dated 14/11/2022
43	Ashish Kumar	19EJCEC028	ConsultAdd	Offer letter Dated 22/09/2022
44	Ashutosh Krishan	19EJCEC029	Friscon Solutions	Offer letter dated 29/10/2022
45	Ashutosh Lawania	19EJCEC030	Appcino	APPCINO/#01340, Dated 14/11/2022
46	Ayush Agarwal	19EJCEC032	Tech Mahindra	2175106 / ELTP-CAMPUS / 2023, Dated 15/12/2022
47	Ayush	19EJCEC033	ERICSSON	EGIL/HR-23:436 Uen, Dated 05/01/2023
48	Bipul Kumar Giri	19EJCEC040	TECH MAHINDRA	2175092 / ELTP-CAMPUS / 2023, Dated 15/12/2022
49	Dolly Mehta	19EJCEC055	Consultadd	Offer letter Dated 22/09/2022

50	Garvit Mittal	19EJCEC059	Accenture	C11869206, Dated 04/07/2023
51	Gaurav Bharadwaj	19EJCEC061	TCS	TCSL/CT20223952161/Delhi, Dated 24/11/2022
52	Hardik Singh Bisht	19EJCEC064	Newgen	DC/2022-23/00719, Dated 02/11/2022
53	Harkishan S Walia	19EJCEC065	TCS	TCSL/CT20203234511/Delhi,Dated 24/11/2022
54	Harsh Sharma	19EJCEC068	Consultadd	Appointment letter dated 28th December, 2022
55	Harsh Vardhan Singh	19EJCEC069	Consultadd	Offer letter dated 22/09/2022
56	Harshdeep Singh Songara	19EJCEC070	Accenture, Salesforce	Offer letter Dated 04/02/2023
57	HARSHIT BHAT	19EJCEC071	Girnar Software, L&B	Offer letter dated 21/02/2023
58	Harshita sharma	19EJCEC072	Consultadd	Offer letter dated 22/09/2022
59	Hiranshi Malvi	19EJCEC074	Accenture	C11868582, Dated 04/05/2023
60	Indraysh Vijay	19EJCEC076	Metacube	Offer letter Dated 12/10/2022
61	Ishika Gupta	19EJCEC077	Accenture	C11869121, Dated 04/07/2023
62	Ishika vaishnav	19EJCEC078	TCS	TCSL/DT20222917822/Delhi, Dated 24/11/2022
63	Ishu Parihar	19EJCEC079	LTIMindtree	LTI/HR/EN9/Campus/2023, Dated 10/11/2022
64	Janvi Jain	19EJCEC081	Newgen Software Technologies limited	DC/2022-23/009795, Dated 27/01/2023
65	Jatin Pareek	19EJCEC082	SSTPL	Offer letter Dated 16/11/2022
66	Jayesh Gupta	19EJCEC083	TATA Consultancy Services Limited(TCSL)	TCSL/CT20203187812/Delhi, Dated 24/11/2022
67	Jyoti Poddar	19EJCEC084	Billdesk	Offer letter dated 02/04/2023
68	Kajal Goyal	19EJCEC085	Intellipaat Software Solution	Offer letter dated 03/02/2023
69	Kashish Chandra	19EJCEC087	EY	Letter of Intent Dated 11/10/2022
70	Keshav Khandelwal	19EJCEC088	Newgen software	DC/2022-23/007209, Dated 02/11/2022
71	Kuldeep Singh Dagur	19EJCEC090	LTI & M	LTIMindtree/HR/EN9/Campus/2023, Dated 24/01/2023
72	Kunal Dadheech	19EJCEC091	Genus power Infrastructure	Genus/HRD/2022-23, Dated 03/10/2022
73	Kunal Sharma	19EJCEC092	Newgen Software Technologies Limited	DC/2022-23/007229, 02/11/2022
74	Lakshay Jain	19EJCEC093	Newgen software	DC/2022-23/007227, Dated 02/11/2022
75	Laxman Prasad Ojha	19EJCEC095	Metacube Pvt. Software Ltd.	Offer letter Dated 12/10/22
76	Lokender singh	19EJCEC096	Focus edumatics	Email with list of selected students
77	Ranjeet Pankaj	19EJCEC159	genus power infrastructures	Genus/HRD/2022-23, Dated 03/10/2022
78	Rishabh Mahla	19EJCEC163	SSTPL	Offer letter Dated 16/11/2022
79	Rishabh Mishra	19EJCEC164	Genus Power Infrastructure Ltd.	Genus/HRD/2022-23, Dated 03/10/2022
80	RITIK SHARMA	19EJCEC166	Newgen Software Technologies Limited	DC/2022-23/007190, Dated 02/11/2022
81	Rohit datwani	19EJCEC169	Genus power infrastructure Ltd	Genus/HRD/2022-23, Dated 03/10/2022
82	Roushan Raj	19EJCEC172	Ericsson	EGIL/HR-23:11188 Uen, Dated 29/12/2022
83	Sagar Jain	19EJCEC174	Accenture	Offer letter of Sagar Jain
84	Madhur Maharshi	19EJCEC097	Focus edumatics	Email with list of selected students
85	Manan Agrawal	19EJCEC098	Celebal	Offer letter dated 04/02/2023
86	Md Jauhar Iqbal	19EJCEC100	Accenture	Offer letter of Accenture
87	Raghav Tiwari	19EJCEC151	LTI	LTI/HR/EN3/Campus/2023, Dated 10/11/2022
88	Raj Bhatnagar	19EJCEC153	Consultadd	Offer letter dated 22/09/2022
89	Rajshree Prajapati	19EJCEC155	HARMAN LTD International	Offer letter dated 27/03/2023
90	Raksha Verma	19EJCEC157	Comviva	Offer letter Dated 11/11/2022
91	Ram jashnani	19EJCEC158	METACUBE	Appointment letter dated 12/10/2022
92	Saksham Arya	19EJCEC176	TCS	TCSL/DT20222910725/Delhi, Dated 24/11/2022
93	Sakshi Jaiswal	19EJCEC177	Insurance dekho	CIN U93000MH2007PTC172659, Dated 28/02/2023
94	Sakshi Kansal	19EJCEC178	TCS	TCSL/DT20222907696/Delhi, Dated 24/11/2022
95	Sakshi Sharma	19EJCEC179	Tech mahindra	973355/2175090/ELTP dated 11/09/2023
96	Sambhav Agarwal	19EJCEC180	Ericsson	EGIL/HR-23:795 Uen, Dated 27/02/2023
97	Samiksha Mathur	19EJCEC181	TCS, Accenture	TCSL/DT20206649694/Delhi, Dated 24/11/2022
98	Sejal Mathur	19EJCEC185	Accenture	C11869122, Dated 04/07/2023
99	Shailendra Singh Ranawat	19EJCEC186	ConsultAdd	Appointment letter dated 22/09/2022

100	Shalin Maloo	19EJCEC187	TCS	TCSL/CT20213820840/Delhi, Dated 24/11/2022
101	Shivesh Singh	19EJCEC192	TCS	TCSL/CT20223823785/Delhi, Dated 24/11/2022
102	Shreyans geldrajain	19EJCEC193	Programmers iO	PIO/HRDOC/JOCL/12/22, Dated 9/12/2022
103	Shruti sharma	19EJCEC195	EY	Letter of Intent dated 11/10/2022
104	Shubham Maheshwari	19EJCEC196	Ediiie	Offer letter Dated 19/06/2023
105	Siddham Jain	19EJCEC198	TCS	TCSL/CT20203187488/Delhi, Dated 24/11/2022
106	Shristi Pathak	19EJCEC300	Billdesk	Offer letter dated 02/04/2023
107	Aditya Kumar Singh	19EJCEC301	Newgen software	Email snapshot result
108	Subrata Pal	19EJCEC802	Newgen Software	DC/2022-23/007203, Dated 02/11/2022
109	Sudeshna Pal	19EJCEC803	LTI	LTI/HR/EN9/Campus/2023, Dated 10/11/2022
110	Swati jain	19EJCEC805	Ericsson	EGIL/HR-23:797 Uen, Dated 27/02/2023
111	Tanisha Garg	19EJCEC806	Newgen	DC/2022-23/007189, Dated 02/11/2022
112	Tayade Akshay Arun	19EJCEC808	Comviva Technologies	Letter of Intent dated 11/11/2022
113	Teena Gurjar	19EJCEC809	Newgen software	Email snapshot
114	Tejvrat Singh chauhan	19EJCEC810	Tech Mahindra	2175088 / ELTP-CAMPUS / 2023 dated 15/12/2022
115	Vaibhav Garg	19EJCEC813	TATA Consultancy Services Limited (TCSL)	TCSL/CT20223954845/Delhi, Dated 24/11/2022
116	Vanshika soni	19EJCEC817	LTI Mindtree	LTI/HR/EN9/Campus/2023, Dated 10/11/2022
117	Vanshita Rathore	19EJCEC818	Erricson	EGIL/HR-23:433 Uen, Dated 05/01/2023
118	Vijay Sharma	19EJCEC819	LTIMINDTREE	LTI/HR/EN6/Campus/2023, Dated 10/11/2022
119	Vikas dubey	19EJCEC820	SSTPL	Offer letter Dated 16/11/2022
120	Vipin Gupta	19EJCEC821	Infoware house	Email snapshot
121	Vipul khanna	19EJCEC822	codebird technologies	Offer letter dated 19/09/2022
122	Vishakha Jajoo	19EJCEC823	ACCENTURE	C11868388, Dated 04/05/2023
123	Vishal Jain	19EJCEC824	Intellipat	Email dated 14/01/2023
124	Yamini kumawat	19EJCEC828	Ericsson	EGIL/HR-23:11190 Uen, Dated 29/12/2022
125	Yash jain	19EJCEC830	SSTPL	Offer letter Dated 16/11/2022
126	Yash Tekewal	19EJCEC834	Tech Mahindra	2175107 / ELTP-CAMPUS / 2023, Dated 15/12/2022
127	Yashika Saraswat	19EJCEC835	EY GDS	Offer letter dated 11/10/2022
128	Yashwant Tailor	19EJCEC836	SSTPL	Offer letter Dated 16/11/2022
129	Yuvraj Singh Shekhawat	19EJCEC838	Ericsson	EGIL/HR-23:11191 Uen, Dated 29/12/2022
130	Yash Tank	19EJCEC833	Sarve.com (OFF Campus)	Employee ID: 451
131	ADITYA RAJ	19EJCEC006	Verezo	Offer letter Dated 18/01/2023
132	AKSHAT JAIN	19EJCEC012	Codebird technologies	Offer letter dated 05/09/2022
133	ANSHUL GADIA	19EJCEC021	Sarvika Technologies, Jaipur (Off Campus)	Employee id with id No IT-370
134	HASAN	19EJCEC073	Codebird technologies	Offer letter dated 05/09/2022
135	KINSHU KUMAR GUPTA	19EJCEC089	Devlabs alliance Gurgaon SD(Off Campus)	Employee id No-000138
136	LAKSHYA JHALANI	19EJCEC094	SSTPL	Offer letter Dated 16/11/2022
137	MOHAMMED ADNAN KHAN	19EJCEC107	SSTPL	Offer letter Dated 16/11/2022
138	PRATHAM MITTAL	19EJCEC139	Codebird Technologies	Offer letter dated 05/09/2022
139	PRIYANSHI CHASTA	19EJCEC144	EY	Offer letter dated 15/09/2022
140	RAHUL DANGA	19EJCEC152	Intellipat	Offer Letter dated 07/12/2022
141	ROHITH KUMAR SAINI	19EJCEC170	Ericsson	EGI/H-23:3954 , Dated 18/08.2023
142	SHIKHA JAT	19EJCEC190	EY Global	Offer letter dated 15/09/2022
143	SHIVAM KALANI	19EJCEC191	Genpact, Jaipur (Off-Campus)	Offer letter Dated 17/03/2025
144	SHRUTI MITTAL	19EJCEC194	ConsultAdd	Offer letter dated 23/09/2022
145	Vaibhav kabra	19EJCEC814	Intellipat	Offer Letter Dated 07th December, 2022
146	VISHAL MEHLA	19EJCEC826	Mahindra Defence, Mumbai (Off campus)	Offer Letter Dated 03rd Feb 2024
147	SURAJ BISHT	19EJCEC804	Accenture	Employee ID No-13801674

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ADITYA YADAV	18EJCEC007	Planet spark	12/11/2021/_PS006218
2	AKASH ARORA	18EJCEC009	Cloud Analogy, TCS, Wipro	Offer Letter Dated 25 Nov-2021/
3	AKSHAT TODI	18EJCEC011	Metacube	Offer Letter Dated 22-Jan-22
4	AKSHAY KUMAR BENIWAL	18EJCEC012	SquareYard	Email with list of selected students
5	AMAN JAIN	18EJCEC014	Infosys	Offer letter received
6	AMAN KUMAR JANGIR	18EJCEC015	Meditab, TCS	Offer Letter Dated 27-Oct-21
7	AMIT KUMAR CHHIPA	18EJCEC016	Metacube,TCS	Offer Letter Dated 28-Dec-21
8	ANCHAL MADNANI	18EJCEC017	Coforge ,birlasoft , TCS	8/12/2021 /TCSL/DT20206752508/Delhi
9	ANJALI	18EJCEC018	Accenture, Wipro, TCS	Offer letter received
10	ANKIT KUMAR SHARMA	18EJCEC019	wipro,matrix comsec	Offer Letter Dated 16-Dec-21
11	ARUSHI JAIN	18EJCEC023	LTI	10/14/2021/LTI/HR/EN3/Campus/2022
12	ARYAN JAIN	18EJCEC024	Capgemini,Wipro,TCS	31-oct-2021/22991070
13	ASHISH JAIN	18EJCEC025	Capgemini,TCS	Offer Letter Dated Dec-16-2021/1584045
14	ASHISH MANGAL	18EJCEC027	Capgemini	Offer Letter Dated Dec-16-2021/1364318
15	ASHISH RAJ	18EJCEC028	Cloud Analogy	Offer Letter Dated 29 November 2021/
16	ASHISH YADAV	18EJCEC029	Metacube Software Pvt Ltd	Oct-13-2021/5DAC79B2-8C56-4626-948B-1D7A559D0E69
17	ASHOK SINGH GURJAR	18EJCEC030	Accenture	Offer letter received
18	ASHYA JAIN	18EJCEC033	JustDial	Offer Letter Dated Dec-04-2021
19	ASTHA GOYAL	18EJCEC035	Wipro, TCS	Offer Letter Dated Oct-31-2021/22994506, Aug-12-2021/TCSL/CT20203131869
20	AYUSH KUMAR	18EJCEC037	Capegemini/ Wipro	Offer Letter Dated 31-oct-2021/1469124
21	AYUSH SHARMA	18EJCEC038	Wipro	Offer Letter Dated 31-oct-2021/23001901
22	AYUSHI PRAJAPATI	18EJCEC039	CoForge	Offer Letter Dated Dec-17-2021
23	BHUMI GAJJAR	18EJCEC040	Capgamini, wipro	Offer Letter Dated 31-oct-2021/1580803
24	BHUPENDAR SHARMA	18EJCEC041	Talentployer	Jan-03-2022/HR/LOA/2021/ECE/506
25	CHARUL BHATI	18EJCEC042	Flitzbweb	Offer Letter Dated Dec-28-2021
26	CHHAYA AGARWAL	18EJCEC043	LTI	Oct-14-2021/LTI/HR/EN3/Campus/2022
27	CHIRAG MAHAJAN	18EJCEC044	Accenture / HPE	Offer Letter Dated Nov -20-2021
28	DARSHAN NAHATA	18EJCEC045	Accenture	Offer letter received
29	AAKASH CHAMOLI	18EJCEC001	AdWeb Designs	Offer Letter Dated 2-Feb-22
30	ABHINAV DADHICH	18EJCEC003	Thrilophilia/ Yudiz(Off-campus)	Offer Letter Dated Jan-05-2022
31	ABHISHEK DAVE	18EJCEC005	Wipro, TCS	31/oct/2021 / 22995225
32	ABHISHEK JAIN	18EJCEC006	LTI, Wipro,TCS	Offer Letter Dated October 14, 2021/LTI/HR/EN3/Campus/2022
33	DEVANSHI GAUTAM	18EJCEC046	Metacube	Offer Letter Dated Oct-19-2021
34	Devanshi Nehra	18EJCEC047	Wipro	Oct-31-2021/22998903
35	DEVHUTI JOSHI	18EJCEC048	Capgemini / TCS	Dec-08-2021/TCSL/CT20203125770/Delhi
36	DHEEREN MITTAL	18EJCEC049	Espoir Networks	23-nov-2021/HR/Nov/2021/0071
37	DIGVIJAY SINGH	18EJCEC050	Meditab	Offer Letter Dated Nov-15-2021
38	DIPANSHU TOMER	18EJCEC051	SquareYard	Email with list of selected students
39	GARGI JAIMAN	18EJCEC054	Wipro	Oct-21-2021/22987380
40	GARIMA GOYAL	18EJCEC055	Accenture	Offer letter received
41	GAURANG SINGHAL	18EJCEC056	Appcino	Oct-23-2021/APPCINO/ #00828
42	GAURAV AGRAWAL	18EJCEC057	Cloud Analogy	Offer Letter Dated Nov-25-2021
43	HARSH KUMAR JARTHAL	18EJCEC059	Metacube, Wipro	Offer Letter Dated Dec-28-2021, Dec-28-2021/21957956
44	HARSHITA JAIN	18EJCEC061	Capgemini ,TCS, Wipro	/1577204, Dec-08-2021/TCSL/CT20203129127/Delhi, Offer letter received
45	Himanshu jangid	18EJCEC063	Capgemini	Oct-31-2021/2374651
46	HIMANSHU KAPOOR	18EJCEC064	Meditab	Offer Letter Dated Oct-28-2021
47	HIMANSHU SAHU	18EJCEC065	JTC, Wipro (Now Infoys throuh Infytq)	Offer Letter Dated Oct-04-2021

48	Hitesh Mittal	18EJCEC068	Wipro	April-27-2022/:L32102KA1945PLC020800
49	ISHA GOTHI	18EJCEC069	Wipro /TCS	23262892
50	ISHIKA CHABRA	18EJCEC070	Capgemini, TCS	Oct-31-2021/1408876, Dec-08-21/TCSL/CT20213692077/Delhi
51	JATIN BALANI	18EJCEC072	Wipro/360 Degree Cloud,	Oct-31-2021/22996956
52	KAUSHAL KHANDAL	18EJCEC075	squareyards	Offer Letter Dated Feb-04-2022
53	KAUSHAL SHARMA	18EJCEC076	Pratham Software, Wipro	Nov-23-2021/22995637
54	KHUSHAL VIJAY	18EJCEC077	Wipro	Oct-31-2021/22994788
55	KHUSHBU JETHWANI	18EJCEC078	Capgemini, TCS	1579159 , Oct-31-2021/22995221
56	KRITIKA BOHRA	18EJCEC080	TCS, Ernst and young	Dec-08-2021/TCSL/CT/20203146678
57	LEKHRAJ PALIWAL	18EJCEC082	Capgemini / Wipro	Oct-31-2021/1579159
58	MAYANK JAIN	18EJCEC087	Capgemini	1559056
59	MAYUR MANGAL	18EJCEC088	Cloud analogy	Offer Letter Dated Nov-29-2021
60	MOHIT KHANDELWAL	18EJCEC091	Metacube, TCS	Oct-20-2021, Dec-09-2021/TCSL/CT20213696926/Delhi
61	MUDIT SINGHAL	18EJCEC093	Cloud Analogy	Offer Letter Dated Nov-29-2021
62	NAVEEN KUMAR SHARMA	18EJCEC094	Metacube	Email with list of selected students
63	NIHARIKA MISHRA	18EJCEC097	HPE	Offer Letter Dated Oct-27-2021
64	NIKHIL KHANDELWAL	18EJCEC098	Cyntexa(Off-Campus)	04-03-2022/202203OL-755
65	NITIN KUMAR	18EJCEC101	Meditab Software	Offer Letter Dated Nov-15-2021
66	PALAK YADAV	18EJCEC104	Accenture	Offer letter received
67	PARTH SHARMA	18EJCEC105	Capgemini	31-oct-2021/1400683
68	PIYUSH JAIN	18EJCEC106	Naggaro (Off-campus)	Offer Letter Dated Nov-25-2021
69	PRACHI SINHA	18EJCEC107	Accenture, TCS, Wipro	Offer letter received
70	PRADHUMN SINGH PARIHAR	18EJCEC108	planetspark, wipro	Nov-12-2021/_PS006221
71	PRATEEK GAUTAM	18EJCEC111	Infosys	Offer letter received
72	PRATIBHA BOTHRA	18EJCEC112	Wipro, Capgimini	22989484, 1400223
73	PRIYA SINGH	18EJCEC114	Flit Webs	NA
74	PRIYANSHI AGARWAL	18EJCEC115	Accenture	Offer letter received
75	PURU SONI	18EJCEC117	Practo Technology	Email with list of selected students
76	RASHI GUPTA	18EJCEC120	Metacube	Offer Letter Dated Dec-28-2021
77	RAVI SAIN	18EJCEC121	capegemini	Oct-31-2021/2352702
78	RISHIT MANGAL	18EJCEC122	Appcino, wipro	Oct-25-2021/APPCINO/ #00820
79	RITIKA SHARMA	18EJCEC123	LTI	Oct-14-2021/LTI/HR/EN3/Campus/2022
80	RONAK MATHUR	18EJCEC126	TCS	Dec-14-2021/TCSL/CT20213689388/Delhi
81	Saakshi Goswami	18EJCEC127	Aavas Financiers	Offer Letter Dated July-23-22
82	Sagar Gunani	18EJCEC128	Celebal technologies	Offer Letter Dated March-16-2022
83	SAKSHI NATANI	18EJCEC129	Wipro	Oct-31-2021/22993677
84	SAKSHI SINGH	18EJCEC130	Espoir Network pvt Ltd	Offer letter received on mail Joining date dec-04-2021
85	SALONI GANGWAL	18EJCEC131	Wipro, Coforge	Oct-31-2021/22987377
86	SALONI VYAS	18EJCEC132	Celebal technologies/ Wipro , TCS	Offer Letter Dated Oct-27-2021/
87	SAMYAK JAIN	18EJCEC133	Kogta Financial	April-05-2022/KFL/HO/HR/2022/
88	SANKALP NEGI	18EJCEC134	Wipro, TCS	Dec-08-2021/TCSL/DT20218212127/Delhi
89	SARTHAK AGRAWAL	18EJCEC135	ZS ASSOCIATES, LTI	Offer Letter Dated June-9-22
90	SATVIK JAIN	18EJCEC136	Accenture, Wipro, TCS	Oct-31-2021/22987375
91	SAURABH JAIN	18EJCEC138	Cloud Analogy, CRMIT Solutions	Offer Letter Dated Nov-29-2021
92	SEEMA JOSHI	18EJCEC139	Appacino	Oct-26-2021/APPCINO/ #00831
93	SHAILVI	18EJCEC140	Accenture	Offer letter received
94	SHIKHA JAIN	18EJCEC142	LTI	Oct-14-2021/LTI/HR/EN3/Campus/2022
95	SHIVAM GUPTA	18EJCEC143	Metacube	Offer Letter Dated Dec-28-2021

96	SHIVGAUTAM AGRAWAL	18EJCEC144	capgemini	Oct-12-2021/22848974
97	SHREY BHARGAVA	18EJCEC145	ZS Associates	NA
98	SHREYA SHARMA	18EJCEC146	Accenture	Offer letter received
99	SHUBH KOHLI	18EJCEC148	Yudiz solutions pvt ltd	Offer Letter Dated Oct-6-2021
100	SHUBHAM SINGH RAJPUT	18EJCEC150	Preparing CDS / F-Cat	Offer Letter Dated Oct-28-2021
101	SHUBHAM SRIVASTAVA	18EJCEC151	Meditab	Dec-08-2021/TCSL/CT20213762710/Delhi
102	SIDDHARTH JAIN	18EJCEC152	Wipro	Oct-31-2021/22987381
103	SRASHTI GUPTA	18EJCEC153	Wipro	Oct-31-2021/22989993
104	STUTI JAIN	18EJCEC154	Traction On Demand, TCS	Oct-29-2021/7CE48BFD-8530-4CCA-9703-AA4B081B4B00
105	SULEKHA GUPTA	18EJCEC155	coforge/Wipro,	Offer Letter Dated Dec-17-2021
106	SUMIT KUMAR	18EJCEC156	Meditab	Offer Letter Dated Nov-03-2021
107	SUMIT SANGHI	18EJCEC158	Cloud Analogy	Offer Letter Dated Nov-29-2021
108	SWASTIK AMERA	18EJCEC160	Planet Spark	Dec-11-2021/_ PS006219
109	VANSHIKA BORDIA	18EJCEC164	wipro, Capgemini, SHL	Oct-31-2021/22989864,1408489, Sep-08-2022/EC2E7BE1-F7BD-4B52-A987-99BAAC0A99AB
110	VINIT KHANDAL	18EJCEC168	Meditab Software/SquareYard, TCS	Offer Letter Dated Nov-15-2021
111	Vishal sharma	18EJCEC170	Competenza Innovare Pvt. Ltd	Offer Letter Dated Nov-1-2021
112	YASH BENIWAL	18EJCEC171	Appcino Technologies, Coforge	Oct-23-2021/APPCINO/ #00824
113	YASHRAJ SINGH CHAUHAN	18EJCEC173	Staffing Global	Dec-11-2021/_PS006220
114	YOJANA JAIMINI	18EJCEC174	Accenture,Wipro	Offer letter received
115	Rohit Raj	18EJCEC124	Infosys	/June-24-2022/HRD/3T/1003317684/22-23

4.6 Professional Activities (20) Total Marks 20.00

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

Institute Marks : 5.00

The following events have been conducted under the societies of Xananoids, IEEE & OPTICA OSA

Table No.4.6.1.1 events conducted under the societies **Xananoids** CAY (2024-25)

S. No.	Organized Event under Society	Organized Period	Level of Event	Event Outcome
1	**Xananoids (Game of Drones)**	16th Sep 2024	National	This event serves as a platform for budding electronics engineers, computer scientists, and tech enthusiasts to unlock their potential, push the boundaries of drone technology, and transform their ideas into reality. With a focus on innovation, education, and practical application, The game od drone event promises to be an unforgettable experience for participants and attendees alike.
2	**Xananoids (Robot Tug of War)**	6th March 2025	National	The tug-of-war competition between robots is an exciting way to test engineering capabilities in a controlled environment. Future developments may include improved AI integration, enhanced materials for better grip, and more efficient power management for prolonged battles.
3	**Xananoids (Robo Soccer)**	17th Feb 2025	National	Outcomes include goal count, defensive strategies, passing accuracy, and overall teamwork efficiency. Robo Soccer enhances AI decision-making, path planning, and real-time strategy execution. Robots learn to collaborate, improving teamwork strategies that are applicable in broader AI research.
4	**Xananoids (Formula Zero)**	01st Oct 2024	National	The race outcomes are determined by factors like speed, navigation accuracy, obstacle avoidance, and overall lap times. Enhancements in obstacle avoidance and AI-driven speed optimization are applicable in drones and delivery robots. Different teams employ unique AI algorithms for optimal pathfinding, leading to varied race performances.
5	**Xananoids** One Day inter-department Project Exhibition **(Xan Expo)**	17th Sep 2024	National	Develop hands-on experience in designing and implementing hardware and software systems. Enhance problem-solving and critical thinking skills. Improve teamwork, communication, and project management abilities. Stay updated with the latest technological advancements in their field. Boost confidence through public presentations and peer evaluations.

Table No.4.6.1.2 events conducted under the societies **of Students Chapter** CAY (2024-25)

S. No.	Organized Event under Society	Organized Period	Name of Event	Level of Event	Event Outcome
1	IEEE JECRC Students Branch	10th March 2025	Panel discussion on "The state of Belonging, Diversity, Equity and Inclusion -Pushing Towards the Boundaries in Organizations"	National	One of the most important outcomes would be the **awareness and sensitization** of students and attendees toward the concepts of belonging, diversity, equity, and inclusion in professional and academic spaces. The panel likely brought together speakers from varied backgrounds, industry experts, educators, or DEI advocates—who shared their personal experiences and insights, helping the audience understand the real-world importance of inclusive practices in organizations.
2	IEEE JECRC Students Branch	21st Feb 2025	National Project Expo	National	Many projects like autonomous robot Projects were made, Bluetooth controlled a robot through PC and Android mobile. Students enjoyed themselves and learnt a lot.

3	IEEE JECRC Students Branch	04th Oct 2024	Tournament of Mobile gaming Competition	National	One of the primary outcomes was the **enhancement of teamwork and strategic thinking** among participants. Many mobile games, especially in competitive formats like battle royale, multiplayer strategy, or sports simulations, require players to collaborate, communicate effectively, and plan tactics in real-time. These experiences help sharpen decision-making skills, reflexes, and adaptability—attributes valuable both in gaming and in academic or professional scenarios.
4	IEEE JECRC Students Branch	05th Oct 2024	Tournament of Coding Competition	National	These tournaments are crafted to mirror the complexities and challenges developers face in their daily work, turning abstract concepts into tangible skills that can be immediately applied. By focusing on real-world scenarios, participants are not only testing their coding abilities but are also learning to navigate and solve problems that directly impact the security and efficiency of software applications in the industry.
5	IEEE JECRC Students Branch	29th Sep 2024	Tournament of E-poster Making Competition	National	The outcome of the competition was to ignite the fire of imagination, awareness and creativity in the students. The theme of the competition was 'Leveraging Technology for better Tomorrow'. The young learners displayed their artistic skills through an array of posters.
6	IEEE Students Branch & OPTICA Students Chapter	19th Aug 2024	Event of Anti Ragging Day	National	Students participated in the event with a lot of fervour and excitement, sharing their perspectives and opinions. We witnessed respectful exchanges and an incredible debate overall.

Table No.4.6.1.3 events conducted under the societies **Xananoids** CAY (2023-24)

S. No.	Organized Event under Society	Organized Period	Level of Event	Event Outcome
1	**Xananoids (Game of Drones)**	11th Jan 2024	National	This event serves as a platform for budding electronics engineers, computer scientists, and tech enthusiasts to unlock their potential, push the boundaries of drone technology, and transform their ideas into reality. With a focus on innovation, education, and practical application, The game od drone event promises to be an unforgettable experience for participants and attendees alike.
2	**Xananoids (Robo War)**	12th Feb 2024	National	In this exhilarating event, engineering enthusiasts from across the campus and country come together to design, build, and control their own customized robots. These autonomous or remote-controlled machines are put to the test in a fierce combat arena, where they engage in intense battles, showcasing their strength, agility, and strategic capabilities.
3	**Xananoids (Robo Soccer)**	05th March 2024	National	Outcomes include goal count, defensive strategies, passing accuracy, and overall teamwork efficiency. Robo Soccer enhances AI decision-making, path planning, and real-time strategy execution. Robots learn to collaborate, improving teamwork strategies that are applicable in broader AI research.

4	**Xananoids (Formula Zero)**	08th April 2024	National	The race outcomes are determined by factors like speed, navigation accuracy, obstacle avoidance, and overall lap times. Enhancements in obstacle avoidance and AI-driven speed optimization are applicable in drones and delivery robots. Different teams employ unique AI algorithms for optimal pathfinding, leading to varied race performances.

Table No.4.6.1.4 events conducted under the societies **of Students Chapter** CAY (2023-24)

S. No.	Organized Event under Society	Organized Period	Name of Event	Level of Event	Event Outcome
1	IEEE Students Branch & OPTICA Students Chapter	19th March 2024	BITS Coding Contest	National	Contests help participants develop and hone their skills in areas like algorithm design, data structures, problem-solving, and coding efficiency. Participants gain experience in the competitive programming environment, which can be beneficial for future careers in software development and related fields.
2	IEEE Students Branch & OPTICA Students Chapter	20th March 2024	Chess Tournament	National	Chess tournaments offer numerous outcomes, including fostering strategic thinking, improving cognitive skills, promoting social interaction, and encouraging sportsmanship, while also providing a platform for players to test their abilities and gain experience.
3	IEEE Students Branch & OPTICA Students Chapter	12th Dec 2023	One Day inter-department Project Exhibition **(Technothon 3.0)**	National	Many projects like autonomous robot Projects were made, Bluetooth controlled a robot through PC and Android mobile. Students enjoyed themselves and learnt a lot.
4	IEEE Students Branch & OPTICA Students Chapter	03rd Oct 2023	Debate Competition	National	Debate competitions offer numerous Outcomes including enhanced critical thinking, improved communication and public speaking skills, increased confidence, and better research abilities, ultimately leading to improved academic performance and a broader understanding of complex issues.
5	IEEE Students Branch	06th March 2024	YESIST12	National	Knowledgeable Resources: Gear up to Listen to the ocean of knowledge. The speakers will nourish their experiences. Global Presence: Being part of a YESIST12 you get to connect with likeminded people, geographically to collaborate and grow. Professional Connect: Get in touch with professionals from all walks of life and build good relationships.

Table No.4.6.1.5 events conducted under the societies **Xananoids** CAY (2022-23)

S. No.	Organized Event under Society	Organized Period	Level of Event	Event Outcome
1	Xananoids (Game of Drones)	15th March 2023	National	This event serves as a platform for budding electronics engineers, computer scientists, and tech enthusiasts to unlock their potential, push the boundaries of drone technology, and transform their ideas into reality. With a focus on innovation, education, and practical application, The game od drone event promises to be an unforgettable experience for participants and attendees alike.

2	Xananoids (Robo War Pro)	11th May 2023	National	In this exhilarating event, engineering enthusiasts from across the campus and country come together to design, build, and control their own customized robots. These autonomous or remote-controlled machines are put to the test in a fierce combat arena, where they engage in intense battles, showcasing their strength, agility, and strategic capabilities.
3	Xananoids (Robo Soccer)	28th Feb 2023	National	Outcomes include goal count, defensive strategies, passing accuracy, and overall teamwork efficiency. Robo Soccer enhances AI decision-making, path planning, and real-time strategy execution. Robots learn to collaborate, improving teamwork strategies that are applicable in broader AI research.
4	Xananoids (Robot Tug of War)	13 April 2023	National	In a Robot Tug of War, the outcome can unfold in various ways depending on the design, programming, and physical capability of the robots involved. A clear victory occurs when one robot successfully pulls the other across the designated canter line, often showcasing better traction, torque, or overall mechanical design. This indicates that the winning robot has an edge either in power, grip, weight distribution, or strategic programming...
4	Xananoids (Formula Zero)	12th Jan 2023	National	The race outcomes are determined by factors like speed, navigation accuracy, obstacle avoidance, and overall lap times. Enhancements in obstacle avoidance and AI-driven speed optimization are applicable in drones and delivery robots. Different teams employ unique AI algorithms for optimal pathfinding, leading to varied race performances.

Table No.4.6.1.6 events conducted under the societies **of Students Chapter** CAY (2022-23)

S. No.	Organized Event under Society	Organized Period	Name of Event	Level of Event	Event Outcome
1	IEEE Students Branch	16th Feb 2023	Inauguration of IEEE Student Branch	National	The **Inauguration of an IEEE Student Branch** is a significant milestone for any academic institution. The event typically involves a blend of formal procedures, interactive sessions, and community-building activities. The outcomes of such an inauguration can be both immediate and long-term, contributing to the growth of students and the institution.
2	IEEE Students Branch	29th April 2023	IEEE Quarter Tech Talk 9.0 **(Panel Discussion)**	National	The **IEEE Quarter Tech Talk 9.0 (Panel Discussion)** likely produced several meaningful outcomes that contributed to the academic and professional growth of attendees as well as the overall success of the IEEE Student Branch. As a panel discussion, the event would have facilitated in-depth dialogue, diverse perspectives, and interactive engagement on a specific theme or trending topic in technology.

3	JECRC OPTICA Students Chapter	15th Sep 2022	One Day Workshop 5G Technology and its challenges	National	The workshop has likely resulted in a **significant knowledge upgrade** for the attendees. Through expert-led sessions, participants would have gained a clear understanding of the fundamentals of 5G technology, including its architecture, use cases, and key enablers such as massive MIMO, beamforming, and mm Wave communication. This technical exposure goes beyond textbook learning, equipping students with real-world insights into cutting-edge communication systems.
4	JECRC OPTICA Students Chapter	15th Dec 2022	One Day inter-department Project Exhibition **(Technothon 2.0)**	National	Many projects like autonomous robot Projects were made, Bluetooth controlled a robot through PC and Android mobile. Students enjoyed themselves and learnt a lot.
5	IEEE Students Branch	10th Dec 2022	IEEE Awareness Session	National	Sessions aim to raise awareness about the ethical considerations involved in AI, including bias, fairness, and accountability. Awareness sessions can encourage students and professionals to actively participate in IEEE activities, such as student chapters and events. The sessions introduce the IEEE Certified program, which provides a framework for evaluating the ethicality of AI solutions.

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

Institute Marks : 5.00

Table 4.6.2.1: List of Publication of Newsletters

S. No.	Academic Year	Name of The Newsletter	Month and Year of Publication	Name of editors	Name of Publishers
1	2023-24	Ujjwalam	July 2023	Dr. Parul Tyagi (Associate Professor) Department of Electronics & Communication Engineering	ECE Department
2	2022-23	Ujjwalam	January-2023	Dr. Parul Tyagi (Associate Professor) Department of Electronics & Communication Engineering	ECE Department
3	2021-22	Ujjwalam	July-Sep 2021	Dr. Parul Tyagi (Associate Professor) Department of Electronics & Communication Engineering	ECE Department
4	2021-22	Ujjwalam	Oct-Dec 2021	Dr. Parul Tyagi (Associate Professor) Department of Electronics & Communication Engineering	ECE Department

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

Institute Marks : 10.00

Table 4.6.3.1: Participation in Inter-Institute Events by Students in CAY (2024-25)

S. No.	Name of students	Event	Date	Organized by	Event outcomes
1	Aakarsh Gupta	Manthan (Tech-Exhibition)	19-12-2024	Poddar Group of Institute, Jaipur	Certificate of Ist Position
2	Aakarsh Gupta	National Project Exhibition	15-09-2014	Vivekananda Global University, Jaipur	Certificate of IInd Position
3	Harshit Soni	Drone Rescue	24th to 27th August, 2024	Technoxian , Nodia Stadium Complex, Noida	Certificates of Participation
4	Dharmendra Sharma	National Project Exhibition	15-09-2024	Vivekananda Global University, Jaipur	Certificate of IInd Position
5	Dharmendra Sharma	Drone Rescue	24th to 27th August, 2024	Technoxian , Nodia Stadium Complex, Noida	Certificates of Participation
6	Dharmendra Sharma	INNOV8' 24 RoBo Soccer	18th to 19th Oct 2024	JECRC University Jaipur	Certificate of IInd Position
7	Dharmendra Thakur	ELICIT 24	Oct 2024	MUJ ACM Chapter	Certificate of Ist Position
8	Avish Gupta	National Science Day 2023	Feb 2025	Department of Science & Technology and Apex University, Jaipur	Certificate of Ist Position
9	Avish Gupta	Manthan (Tech-Exhibition)	19-12-2024	Poddar Group of Institute, Jaipur	Certificate of IIIrd Position
10	Dharmendra Thakur	Plasma Pull in Pravah 2025	Feb 2025	SKIT, Jaipur	Certificate of Ist Position
11	Paawan Dubey	Drone Rescue	24th to 27th August, 2024	Technoxian , Nodia Stadium Complex, Noida	Certificates of Participation
12	Khushi Jain	INNOV8' 24 RoBo Soccer	18th to 19th Oct 2024	JECRC University Jaipur	Certificate of IInd Position
13	Shahid Khan	National Project Exhibition	15-09-2024	Vivekananda Global University, Jaipur	Certificates of Participation
14	Jeeves Saini	Drone Rescue	24th to 27th August, 2024	Technoxian , Nodia Stadium Complex, Noida	Certificates of Participation
15	Manvi Jain	National Science Day 2023	Feb 2025	Department of Science & Technology and Apex University, Jaipur	Certificate of Ist Position
16	Rashi Gupta	Poster Presentation Competition on Advances in Optical Communication	19th Oct 2024	SKIT, Jaipur	Certificate of III Position
17	Rashi Gupta	ICFAISE-2025 Poster Presentation	06th-07th 2025	ICFAI University, Jaipur	Certificates of Participation
18	Tanish Sidana	36 hour National Level Hackathon	22nd-23rd February, 2025	Google Developer Student Clubs, DDU	Certificates of Participation
19	Sanjana Sharma	3-Day Tec Connect Program	24th-25th Oct 2024	Vigyan Bharti Rajasthan, REPC, CSIR-CEERI Pilani, RTU Kota, Poornima College of Engg. Jaipur and Forti Rajasthan	Certificates of Participation

20	Sanjana Sharma	Poster Presentation Competition on Advances in Optical Communication	19th Oct 2024	SKIT, Jaipur	Certificate of III Position
21	Rajveer Shekhawat	36-hour National Level Hackathon	22nd-23rd February, 2025	Google Developer Student Clubs, DDU	Certificates of Participation
22	Anvesha Jain	Galactic Problem Solver	05th -06th Oct 2024	NASA International Space Apps Challenge	Certificates of Participation
23	Palak Gupta	Girls Script.Tech	01th -10th Oct 2024	Girls Script Summer of Code Extended	Certificates of Participation

able 4.6.3.2: Publication Details: International Conference/International Journal Publication/ Book Chapter CAY (2024-25)

S. No.	Name of students	Event	Title of Paper	Published by	Volume No & Date	Event outcomes
1	Pratyush Amrit	International Conference (ICMEET 2023)	Numerical exploration of supercontinuum generation in Zinc-Germanium Diphosphide based photonic crystal fiber" in 8th International Conference on Micro-Electronics, Electromagnetics and Telecommunications	Lecture Notes in Electrical Engineering (Springer)	(1156) 19th May 2024	Show cases students work on an international stage, builds academic and research reputation early, improves critical thinking and technical communication.

Table 4.6.3.3: Participation in Inter-Institute Events by Students in CAY (2023-24)

S. No.	Name of students	Event	Date	Organized by	Event outcomes
1	Varuna Sharma	Tech Fest 2023	27th-29th Dec 2023	IIT Bombay	Certificates of 4th Position
2	Shahid Khan	Workshop on Robotics	15th Sep to 01 Oct 2023	Edubotix Innovation Lab	Certificates of Participation
3	Akhilesh Barnala	mBAJA BAJA-SAEINDIA 2024	10th to 13th Jan 2024	SAEINDIA, NATRAX, MP	Certificates of Participation
4	Avni Jain	SRN MUN-2023	30th Sep-02nd Oct 2023	SRN International School, Jaipur	Certificates of Participation

5	Avni Jain	International Day of Light (IDL-2024)	16th May 2024	MNIT, Jaipur	Certificates of Participation

Table 4.6.3.4: Publication Details: International Conference/International Journal Publication/ Book Chapter CAY (2023-24)

S. No.	Name of students	Event	Title of Paper	Published by	Volume No & Date	Event outcomes
1	Ms. Sakshi Natani,	International Conference (International Symposium on Integrated Uncertainty in Knowledge Modelling and Decision Making)	A Novel Methodology for Real-Time Face Mask Detection Using PSO Optimized CNN Technique	Lecture Notes in Computer Science (Springer)	(14376) 25th Oct 2023	Boosts student's academic profile and credibility, enhances research, writing, and presentation skills, Connects students with global researchers and experts.
2	Ms. Simran Kaur	International Conference (CCIE 2023)	Optical Character Recognition Using Hybrid CRNN Based Lexicon-Free Approach with Grey Wolf Hyperparameter Optimization	Lecture Notes in Electrical Engineering (Springer)	(1047) 21st July 2023	Boosts student's academic profile and credibility, enhances research, writing, and presentation skills, Connects students with global researchers and experts.

Table 4.6.3.5: Participation in Inter-Institute Events by Students in CAY (2022-23)

S. No.	Name of students	Event	Date	Organized by	Event outcomes
1	Varuna Sharma	National Project Exhibition	15-09-2022	Vivekananda Global University, Jaipur	Certificate of III Position
2	Vivek Sharma	Manthan 2023 (Kabaddi)	26th Feb to 02nd March 2023	Sri Balaji Shikha Samiti, Jaipur	Certificate of Ist Position
3	Akhilesh	INFI League (ATVC-2023)	1st March-5th March 2023	Nutan Maharashtra Institute of Engineering and Technology, Pune, Maharashtra	Certificates of Participation
4	Akhilesh	AIRC-2023 SEASON 6	25th May-28th May 2023	AIRC, Wagholi, Pune, MH	Certificates of Participation
5	Varuna Sharma	Project Expo 2023	28th March 2023	SKIT, Jaipur	Certificates of Participation

Table 4.6.3.6: Publication Details: International Conference/International Journal Publication/ Book Chapter CAY (2022-23)

S. No.	Name of students	Event	Title of Paper	Published by	Volume No & Date	Event outcomes
1	Pratyush Amrit	International Conference (ICMEET-2023)	Semiconductor material photonic crystal fiber for mid-infrared supercontinuum generation	Materials Today: Proceedings (Elsevier)	74 08th Feb 2023	Boosts student's academic profile and credibility, enhances research, writing, and presentation skills, Connects students with global researchers and experts.

able 4.6.3.7: Students Grants for Startups: CAY (2022-23)

S. No.	Name of students	Name of Startup	Name of Incubation Centre	Sensation Amount for Grant
1	Aman Somvanshi, Aagam Jain and Sejal Pokharna	E-Bharat Vehicle	JECRC Incubation Centre (JIC)	15000/-
2	Aman Somvanshi, Aagam Jain and Sejal Pokharna,	E-Bharat	JECRC Incubation Centre (JIC)	25000/-

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 186.92

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	Associa Type
Dr. Sandeep Vyas	AFXPV5199R	Ph.D	06/01/2018	Optical Communication	29	1	0	Professor	02/12/2020	19/07/2017	Regular
Dr. Santosh Kumar Singh	BOUPS5721K	Ph.D	14/12/2013	Machine Learning	0	0	0	Professor	02/01/2017	02/01/2017	Regular
Dr. Shruti Kalra	ANQPK5955P	Ph.D	14/09/2020	Optical Communication	2	0	0	Professor	02/12/2020	19/08/2003	Regular
Dr. Vinita Mathur	AKHPM3052H	Ph.D	06/01/2018	Microwave	17	0	0	Professor	01/07/2023	28/09/2005	Regular
Dr. Parul Tyagi	AEVPT9930N	Ph.D	05/01/2019	Wireless Network	16	0	0	Professor	01/01/2025	14/02/2009	Regular
Dr. Girraj Sharma	CUGPS6564P	Ph.D	20/01/2020	Wireless Network	16	0	0	Professor	01/01/2025	13/12/2019	Regular
Dr. Shyam Sunder Manaktala	AGYPM8906B	Ph.D	02/01/2020	Nano Photonics	5	0	0	Professor	01/01/2025	25/11/2004	Regular
Dr. Shweta Sharda	BAWPS0763H	Ph.D	07/06/2024	Computer vision	14	0	1	Associate Professor	01/01/2025	17/07/2017	Regular
Dr. Jai Prakash Mishra	AWCPM2988B	Ph.D	20/08/2024	Embedded System	13	0	1	Associate Professor	01/01/2025	13/12/2019	Regular
Dr. Sudarshan Jain	AQLPJ4002A	Ph.D	18/09/2024	Optical Fiber and Photonics	6	0	1	Associate Professor	01/01/2025	25/03/2021	Regular
Mr. Naresh Kumar	ALGPN5796H	M.E/M.Tech	24/04/2010	Digital Communication	0	0	0	Assistant Professor		22/07/2013	Regular
Mr. Bhoopesh Kumar Kumawat	BAXPK5296E	M.E/M.Tech	07/12/2011	Wireless Communication	1	0	0	Assistant Professor		01/07/2015	Regular
Mr. Lokesh Kumar Sharma	AXHPS2584H	M.E/M.Tech	16/06/2011	Digital Communication	2	0	0	Assistant Professor		04/07/2015	Regular
Mr. Honey Agarwal	AKEPA0586H	M.E/M.Tech	08/02/2014	Digital Communication	0	0	0	Assistant Professor		21/07/2011	Regular
Mr. Vikas Sharma	CQFPS8859A	M.E/M.Tech	08/02/2014	Optical Communication	8	0	0	Assistant Professor		20/02/2010	Regular
Ms. Ritu Vyas	AEKPV4859C	M.E/M.Tech	10/04/2012	Digital Communication	9	0	0	Assistant Professor		16/08/2010	Regular
Mr. Rakesh Kumar Kardam	AMDPK4998A	M.E/M.Tech	06/01/2018	Microwave	6	0	0	Assistant Professor		01/03/2014	Regular
Mr. Raj Kumar Jain	ANSPJ5809M	M.E/M.Tech	14/02/2015	Digital Communication	9	0	0	Assistant Professor		30/07/2012	Regular
Mr. Mangi Lal Meghwal	BKZPM4835M	M.E/M.Tech	16/01/2018	Microwave	6	0	0	Assistant Professor		02/08/2010	Regular
Mr. Ashish Kulshrestha	BMFPK1793Q	M.E/M.Tech	14/02/2015	Optical Communication	8	0	0	Assistant Professor		25/04/2012	Regular
Mrs. Deepmala Kulshestha	AXJPD8149H	M.E/M.Tech	23/02/2022	Optical Communication	6	0	0	Assistant Professor		14/07/2015	Regular
Mr. Deepak Shankhala	BXYPS2998K	M.E/M.Tech	08/02/2014	Digital Communication	6	0	0	Assistant Professor		22/08/2016	Regular
Ms. Yazusha Sharma	BRDPS2349B	M.E/M.Tech	19/03/2016	Optical Communication Optoelectronics	3	0	0	Assistant Professor		17/07/2017	Regular
Ms. Ritambhara	BTCPR2037J	M.E/M.Tech	01/12/2016	Microelectronics	12	0	0	Assistant Professor		02/08/2017	Regular
Ms. Mamta Rani	BHMPM5509E	M.E/M.Tech	28/12/2015	Optical Communication	6	0	0	Assistant Professor		18/12/2019	Regular

Ms. Anju Rajput	AXHPR2031G	M.E/M.Tech	06/01/2018	VLSI Design	14	0	0	Assistant Professor		11/01/2020	Regular
Mr. Devendra Sharma	FMXPS2695B	M.E/M.Tech	14/02/2015	Digital Communication	10	0	0	Assistant Professor		25/04/2012	Regular
Ms. Bhawna Kalra	DOSPB3625H	M.E/M.Tech	12/07/2017	Microwave and Antennas	15	0	0	Assistant Professor		25/03/2021	Regular
Ms. Vipra Bohara	BOGPB6883K	M.E/M.Tech	12/07/2017	Optical Fiber and Digital Communication	10	0	0	Assistant Professor		29/03/2021	Regular
Mrs. Sameeksha Chaudhary	BEPPC8963J	M.E/M.Tech	12/07/2017	Optical Fiber and Antennas	0	0	0	Assistant Professor		24/03/2021	Regular
Mr. Aashish Kumar Sharma	EKAPS1130K	M.E/M.Tech	10/06/2019	Digital Communication	0	0	0	Assistant Professor		11/03/2025	Regular
Mr. Rajat Jain	BBXPJ0345J	M.E/M.Tech	06/08/2022	Industrial Automation	0	0	0	Assistant Professor		12/08/2024	Regular
Ms. Tripti Dua	BLGPD6639E	M.E/M.Tech	24/01/2015	VLSI Design	0	0	0	Assistant Professor		11/01/2020	Regular
Mr. Rajendra Singh Sirowa	ANXPS5372H	MCA	01/01/2016	Computer application	0	0	0	Assistant Professor		16/11/2020	Regular
Mr. Hemant Vashishtha	AWMPV9905F	MCA	02/02/2009	Computer application	0	0	0	Assistant Professor		16/11/2020	Regular
Mr. Vinod Kumar	BGNPK5526R	B.E/B.Tech	21/02/2014	Electronics and Communication	0	0	0	Assistant Professor		13/07/2016	Regular
NISHI	AYSPN9016F	M.E/M.Tech	01/04/2020	VLSI Design	4	0	0	Assistant Professor		13/12/2019	Regular
SHIKHA SHRIVASTAVA	DFNPS4835A	M.E/M.Tech	01/01/2019	Digital Communication	0	0	0	Assistant Professor		22/07/2017	Regular
ASHISH SHARMA	DOBPS4622L	M.E/M.Tech	01/04/2017	Signal Processing	11	0	1	Assistant Professor		15/07/2016	Regular
AJAY KUMAR SINGH YADAV	AIDPY2449L	Ph.D	01/04/2021	Antenna Design	4	0	0	Associate Professor		25/03/2021	Regular
JITENDRA SHARMA	CWXPS7101P	M.E/M.Tech	06/04/2017	Microwave	0	0	0	Assistant Professor		01/05/2012	Regular
ASHUTOSH SHARMA	BHVPS3926E	M.E/M.Tech	01/08/2020	Digital Communication	0	0	0	Assistant Professor		24/07/2014	Regular
SYED MOHAMMAD SANA	GIYPS3073M	MBA	02/04/2020	Human resource	0	0	0	Assistant Professor		30/03/2021	Regular
ADITYA YADAV	ASJPY0616K	M.E/M.Tech	01/04/2022	Digital Communication	0	0	0	Assistant Professor		15/02/2023	Regular

5.1 Student-Faculty Ratio (20)

Total Marks 18.00

Institute Marks : 18.00

UG

No. of UG Programs in the Department 1

Electronics & Communication Engineering						
Year of Study	**CAY (2024-25)**		**CAYm1 (2023-24)**		**CAYm2 (2022-23)**	
	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	120	0	180	0	180	1
3rd Year	180	0	180	1	180	0
4th Year	180	1	180	0	240	0
Sub-Total	**480**	**1**	**540**	**1**	**600**	**1**
Total	**481**		**541**		**601**	

Grand Total	481	541	601

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(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
Total No. of Students in the Department(S)	481 **Sum total of all (UG+PG) students**	541 **Sum total of all (UG+PG) students**	601 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	32 **F1**	31 **F2**	34 **F3**
Student Faculty Ratio(SFR)	15.03 **SFR1=S1/F1**	17.45 **SFR2=S2/F2**	17.68 **SFR3=S3/F3**
Average SFR	16.72 **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(2024-25)	32	0
CAYm1(2023-24)	31	0
CAYm2(2022-23)	34	0

Average SFR for three assessment years : 16.72

Assessment SFR : 18

5.2 Faculty Cadre Proportion (25) Total Marks 25.00

Institute Marks : 25.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2024-25)	2.00	4.00	5.00	3.00	16.00	25.00
CAYm1(2023-24)	3.00	4.00	6.00	3.00	18.00	24.00
CAYm2(2022-23)	3.00	3.00	6.00	4.00	20.00	27.00
Average Numbers	2.67	3.67	5.67	3.33	18.00	25.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 25.00

5.3 Faculty Qualification (25)

Total Marks 16.39

Institute Marks : 16.39

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2024-25(CAY)	9	23	24.00	18.96
2023-24(CAYm1)	7	24	27.00	15.37
2022-23(CAYm2)	7	27	30.00	14.83

Average Assessment : 16.39

5.4 Faculty Retention (25)

Total Marks 25.00

Institute Marks : 25.00

Description	2023-24	2024-25
No of Faculty Retained	31	31
Total No of Faculty	30	30
% of Faculty Retained	103	103

Average : 103.00

Assessment Marks : 25.00

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

Total Marks 20.00

Institute Marks : 20.00

A. Innovative Teaching Method

Title of Innovation: Use of ICT

a. Google Classroom to facilitate flipped learning to manage the following task.
b. Posting teaching materials, time-bound assignments, and quizzes, and managing them digitally.
c. Reviewing the course progress by the Department and archiving the course for future records and references.
d. Some of the Faculty members start preparing MOOCs (Massive Open Online Course).

Aim of Method

a. To revise and remember the concept of the module
b. To maximize the learning experience
c. To identify gaps in understanding.

Benefits / Outcomes of the Method

These methods help students to reiterate or revise the topic easily and collecting assignments through Google Classroom makes it easy to access important questions while revision.

B. Title of Innovation: Flipped Classroom

a. A flipped classroom is an instructional strategy and a type of blended learning that reverses the traditional learning environment by delivering instructional content, often online, outside of the classroom.
b. Student-centric instructional delivery mechanisms were followed, we changed our role from Educator to Facilitator by focusing on developing learners' independence and assisting them in the quest to ask questions, exploring better options, suggesting alternatives, along with meaningful feedback.

Aim of the Method

To make the classroom an active learning environment and enable students to learning at their own pace and time.

Benefits / Outcomes of the Method

Students may verify their understanding with the concerned faculty. It allows students who have missed classes can view the lecture materials.

C. Title of Innovation -Integrating Online Resources

a. Various subjects are mapped with the Swayam Prabha portal, and lectures from Swayam Prabha are also referred to as quality education and are also uploaded on the student corner tab in ICT.
b. The Laboratory facilities and instructional material of the laboratory are accessed by our students through Virtual Labs (V-Labs), as our institution has an MOU with IIT Delhi V Labs.
c. To bridge the gap between industry and Academia, the facilities to access E-books, journals, and Magazines are available as our institution has a collaboration with Delnet, NPTEL, EBSCO, as well Technical Students forum and chapter, including IETE & Optica.
d. Learning with fun activities to foster Critical thinking and problem solving among students.

Aim of the Method

a. To maximize the learning experience.
b. To update the learning experience on thrust technologies.
c. To gain knowledge of content beyond the syllabus**.**

Benefits / Outcomes of the Method

a. Students are able to explore beyond the classroom.
b. Students can enhance their learning experiences and knowledge on thrust technologies.

D. Title of Innovation: Project-Based Learning

a. Our department adopted a channelized system for major/final year projects with at least one National/International Conference publication.
b. Department opened new thrust technologies in project-based learning through their Centre of Excellence, which focuses on developing critical thinking and problem-solving skills in the students as well as integrates "Knowing and doing" so that they can solve authentic problems with the intention to produce results and solve societal problems.

Aim of the Method

This method provides opportunities for deeper learning in context and for the development of important skills through an engaging experience for the betterment of society and thus of the nation.

Benefits /Outcome of the Method

This method helps students to remember, reiterate the complex problem, and then provide a better solution, aiming multi-domain approach.

E. Title of Method: Short Presentation

In this method, students have to give a short (10- 15min) Presentation on any topic of their choice in front of a few faculty members as well as students of their class.

Aim of the Method

a. To prepare a presentation on the topic.
b. To enhance public speaking
c. To adhere to the time limit.
d. To memorize the topic.

Benefits / Outcomes of the Method

This method is more interesting and effective, which enhances the content knowledge and public speaking skills among the students.

F. Title of Method: Peer-to-Peer Learning

Peer- to- Peer Learning is the process of students learning with and from each other. This is usually facilitated through teaching and learning activities such as student-led workshops, group study, and group work.

Aim of the Method

a. To explain their ideas, participating as well as coordinating activities, which will enhance their leadership skills as well as lifelong learning.

b. To develop collaboration skills, giving and receiving feedback with others.
c. To develop the skill of teamwork.

Benefits/ Outcomes of the Method

Peer learning enhances teamwork, motivation, and confidence, as well as helps students through cooperative learning, which in turn fosters academic achievement.

G. Title of Method: Report Writing

In this method, report writing after Internships & Industrial training is mandatory by using Google or an open-access source.

Aim of the Method

a. To maximize the learning experience.
b. To identify and prioritize content.
c. To identify gaps in understanding.

Benefits of the Method

Report writing enhances students professional writing concepts as well as effectively exploring and integrating the topic, and creating flow and linkage while writing.

H. Title of Method: Experts Lecture on Thrust Technologies/ Content Beyond Syllabus.

Expert lectures from industry/academia persons from (IITs/ NITs/IIITs or other institutions of repute) are invited to sensitize the thrust technologies among the students to bridge the gap between industry and academia.

Aim of the Method

a. To identify birding curriculum gaps.
b. To enhance the knowledge of thrust technologies.
c. To foster content knowledge.

1. **Title of Method: Research Paper Writing and Presentation.**

The department has a system that every final-year student has to write a research paper based on their project/ Internships and present at the conference, which may be International or National (which is organized by the department) to foster their presentation

Aim of the Method

a. To maximize the Domain Knowledge.
b. To enhance presentation skills, team building, and teamwork skills.
c. To write a research paper.

J. Title of Innovation: Skill-Based Training

The department has a system to conduct expert lectures on skill-based training to increase productivity, enhance adaptability, and career prospects. and improve employee engagement and lifelong learning.

Aim of the Method

a. To improve talent acquisition and retention.
b. To enhance workforce adaptability.
c. To foster employability and Career Prospects.

Benefits of the Method

Skill development training helps students acquire in-demand skills, making them more competitive in the job market and potentially leading them to better job opportunities, which in turn boosts specific skills, including technical skills.

Availability of work on the institute website

All the Innovations adopted in the Teaching methodology are available at the Institute website under the Electronics and Communication Department tab.

Table No: 5.1 (Links Innovation by faculty in Teaching and Learning)

S. No.	Innovation/Novel Methods Adopted by Faculty in Teaching-Learning Process	URL
1	Video Lectures	http://jecrcfoundation.com/jf-data/NBA/ECE/EC3/2019-20.pdf (http://jecrcfoundation.com/jf-data/NBA/ECE/EC3/2019-20.pdf)
2	Online Notes	https://jecrcfoundation.com/student-corner/notes (https://jecrcfoundation.com/student-corner/notes)
3	Lab Experiment Videos	https://jecrcfoundation.com/docs-category/electrical-communication-engineering/
4	GATE/PSU related Quizzes	http://jecrcfoundation.com/jf-data/NBA/ECE/EC2/ZTRANSFORM.pdf (http://jecrcfoundation.com/jf-data/NBA/ECE/EC2/ZTRANSFORM.pdf)
5	MYTAT Link	https://jecrcfoundation.com/mytat.html (https://jecrcfoundation.com/mytat.html)
6	Delnet Link	https://jecrcfoundation.com/naacdata/Criteria%204/4.2/4.2.2/4.2.2%20Additional%20Information.pdf (https://jecrcfoundation.com/naacdata/Criteria%204/4.2/4.2.2/4.2.2%20Additional%20Information.pdf)
7	NPTEL Link	https://jecrcfoundation.com/student-corner/nptel (https://jecrcfoundation.com/student-corner/nptel)

8	Learning with fun activities like	
	1. Renovator: Circuit Designing with Random Components	http://jecrcfoundation.com/jf-data/NBA/ECE/EC2/Renovator.pdf (http://jecrcfoundation.com/jf-data/NBA/ECE/EC2/Renovator.pdf)
	2. Phoenix: Making running model through Electronic waste	http://jecrcfoundation.com/jf-data/NBA/ECE/EC1/PhonixReport.pdf (http://jecrcfoundation.com/jf-data/NBA/ECE/EC1/PhonixReport.pdf)
9	Project Expo	https://jecrcfoundation.com/student-projects/
10.	Skill Development Training	https://jecrcfoundation.com/skill-development-and-training/

Innovative Method: Peer Review and Critique for Further Improvement

The Innovations adopted by the Faculty of the department are disseminated on the institutes website. Along with the Google form, it is floated in the WhatsApp group of concerned students, and also on the notice board of the department, and also available under the resource tab of the Electronics and Communication Department tab on the college website for Peer review and Critique.

Reproducibility and reusability by other scholars for further development

The faculty of the Department has adopted different Innovative Practices and shares the same with other departments of the Institute through their expert talk on Innovation in Teaching Learning or Teaching Learning Pedagogy.

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

Total Marks 14.53

Institute Marks : 14.53

Name of the faculty	Max 5 Per Faculty		
	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
Dr. Sandeep Vyas	3.00	2.00	3.00
Dr. Vinita Mathur	2.00	2.00	2.00
Dr. Parul Tyagi	2.00	2.00	2.00
Dr. Girraj Sharma	2.00	2.00	2.00
Dr. Shyam Sunder Manaktala	2.00	2.00	2.00
Dr. Shweta Sharda	2.00	4.00	0.00
Dr. Jai Prakash Mishra	0.00	1.00	2.00
Dr. Sudarshan Jain	1.00	3.00	3.00
Mr. Lokesh Kumar Sharma	2.00	0.00	2.00
Mr. Vikas Sharma	2.00	3.00	4.00
Ms. Ritu Vyas	2.00	2.00	2.00
Mr. Rakesh Kumar Kardam	2.00	2.00	2.00
Mr. Raj Kumar Jain	2.00	2.00	2.00
Mr. Mangi Lal Meghwal	2.00	2.00	2.00
Mr. Ashish Kulshrestha	2.00	5.00	2.00
Mrs. Deepmala Kulshestha	2.00	5.00	3.00
Mr. Deepak Shankhala	2.00	2.00	1.00
Ms. Yazusha Sharma	2.00	2.00	2.00
Ms. Ritambhara	2.00	2.00	3.00
Ms. Mamta Rani	2.00	2.00	0.00
Ms. Anju Rajput	2.00	2.00	2.00
Mr. Devendra Sharma	2.00	2.00	2.00
Ms. Bhawna Kalra	2.00	2.00	2.00
Ms. Vipra Bohara	2.00	2.00	2.00
Ms. Tripti Dua	0.00	2.00	2.00
ASHISH SHARMA	0.00	2.00	2.00
AJAY KUMAR SINGH YADAV	0.00	0.00	2.00
Mr. Bhoopesh Kumar Kumawat	2.00	2.00	2.00
Mr. Honey Agarwal	2.00	2.00	2.00
Mr. Naresh Kumar	2.00	2.00	2.00
Dr. Shruti Kalra	2.00	2.00	2.00
Dr. Santosh Kumar Singh	2.00	2.00	2.00
Mrs. Sameeksha Chaudhary	2.00	2.00	2.00
Sum	58.00	71.00	67.00

RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	24.05	27.05	30.05
Assessment [3*(Sum / 0.5RF)]	14.47	15.75	13.38

Average assessment over 3 years: 14.53

5.7 Research and Development (30)

5.7.1 Academic Research (10)

Ins

5.7.1 Academic Research

A. Journals Books/ Book Chapters

		2024-2025		2023-2024		2022-2023		2021-2022	
National Publication		30		40		45		43	
International Publication	SCI	7	24	0	12	1	16	4	28
	Scopus	13		12		15		20	
	UGC Approved	4		0		0		4	
Total		**54**		**52**		**61**		**71**	

International Publication 2024-25

S. No.	Name of the Faculty (Author)	Title of Manuscript/ Paper	DOI/ ISBN/ISSN	Name of The Publisher	Indexing (SCI/Scopus /ESCI/SCIE/Web of Science)/ UGC Approved	Journ Proce Chapt
1	Vinita Mathur, Parul Tyagi, Ritu Vyas, Lokesh Sharma, Jai Prakash Mishra, Vikas Sharma	Spheroid Fractal Patch Antenna for Wireless Applications	DOI: 10.1109/ICMACC62921.2024.10893914	IEEE Explore	Scopus	Confer
2	Vinita Mathur, Parul Tyagi	Fractal Ring Shaped with Saw Feed Microstrip Patch Antenna for Wireless Utilizations	https://doi.org/10.1007/s11277-024-11614-1	Springer Nature	Scopus	Book C
3	Mamta Rani, Nishi Atry, Vipra Bohra	Prevention of underloading and overloading of railway wagons by iot devices	2454-4116	IJIRT	UGC Approved	Journa
4	Vipra Bohara, Mangilal Meghwal, Rakesh Kardam, Lokesh Sharma, Devendra Sharma	Review of Smart Traffic Control System Using Image Processing & Iterative Enhancement Wavelet	ISSN: 2454-8236	World Journal of Innovative Research (WJIR)	UGC Approved	Journa
5	Anju Rajput	AI Fusion Hub: Advances in AI-Powered Communication Platforms	DOI: 10.48175/IJARSCT-19853	International Journal of Advanced Research in Science	UGC Approved	Journa
6	Anju Rajput	Plant Leaf Diseases Prediction Using Convolutional Neural Network (CNN)	DOI: https://doi.org/10.1007/978-981-97-3745-1_10	Springer, Singapore	Scopus	Book C
7	Anju Rajput	Design of novel high speed energy efficient robust 4:2 compressor	ISSN: 2582-145	Journal of VLSI Circuits and System	Scopus	Journa
8	Anju Rajput	Design and Comparative Evaluation of 2:4 Decoder Utilizing Varied Static Design Paradigms	DOI: 10.1007/978-981-97-4650-7_1	Springer, Singapore	Scopus	Book C
9	Anju Rajput	Novel XOR-XNOR Logic Gate: A Paradigm of Low Power Consumption and Energy Efficiency	10.14445/22315381/IJETT-V72I3P113	International Journal of Engineering Trends and Technology	Scopus	Journa
10	Bhawna Kalra	Compact Hexagonal shaped Multiband Patch Antenna Loaded with Complementary Split Ring Resonators for THz Frequency Applications	10.1109/MAPCON61407.2024.10922858	IEEE Explore	Scopus	Confer
11	Bhawna Kalra	Compact Circularly Polarized Shared Aperture Antenna with Wide Axial Ratio Bandwidth for NavIC Receiver	10.1080/03772063.2024.2404963	Tyalor and Francis	SCI	Journa
12	Bhawna Kalra	Defective ground structure loaded polarization reconfigurable ring-shaped patch antenna for multiband applications	10.1080/02726343.2025.2456199	Tyalor and Francis	SCI	Journa

13	Bhawna Kalra	A CPW-Fed Hybrid Polarization-Frequency Reconfigurable Antenna with TCM Analysis for 5G New Radio Frequency Applications	10.1007/s13369-024-09929-z	Springer	SCI	Journa
14	Bhawna Kalra	A Comprehensive Review of Massive MIMO Systems: Key Technologies, Challenges, and Future Directions	10.5772/intechopen.1007750	Inotech (Innovation in MIMO Technologies System and Antenna)	SCI	Journa
15	Bhawna Kalra	Antenna Design and Optimization Using Machine Learning: A Comprehensive	https://doi.org/10.1007/978-981-97-3523-5_34	Springer	SCI	Journa
16	Bhawna Kalra	A compact dual band circularly polarized antenna using shared aperture technique for NavIC receiver	DOI: 10.1007/s12046-025-02716-y	Springer	SCI	Journa
17	Girraj Sharma	Comparative Analysis of OFDM and FBMC System Using Cognitive and FBMC System Using Cognitive	978-981-97-8471-4	Springer	SCI	Journa
18	Shyamsunder Manaktala	Post Pandemic Bio-metric Solution : A shocker to supply chain	DOI: 10.4018/979-8-3693-1347-3.ch013	IGI Global Scientific Publishing Research Books	UGC Approved	Book
19	Bhawna Kalra	A Comprehensive Review of Massive MIMO Systems: Key Technologies, Challenges, and Future Directions	DOI: 10.5772/intechopen.1007750	IntechOpen	Scopus	Book C
20	Sandeep Vyas, Girraj Sharma	Hard Fusion Techniques for Energy-Efficient CSS Over Fading Channels in Cognitive Wireless Sensor Network	Print ISBN: 978-981-97-6713-7, Online ISBN: 978-981-97-6714-4	Springer Nature Singapore	Scopus	Book C
21	Jai Prakash Mishra	Integrating Ant Colony Optimization With Deep Learning for Improved Kidney Disease Diagnosis and Prognosis	DOI: 10.4018/979-8-3693-6834-3.ch006	IGI Global	Scopus	Book C
22	Sandeep Vyas, Girraj Sharma, Sudarshan Kumar Jain	Performance Improvement for Energy-Efficient CSS with Optimized Cognitive Users Over Fading Channels	Print ISBN: 978-3-031-64075-9, Online ISBN: 978-3-031-64076-6	Springer Nature Switzerland	Scopus	Book C
23	Sandeep Vyas, Ritambhara, Yazusha Sharma	Comparison of Silver and Gold Based Plasmonic Square Ring Resonator with MIM Waveguide	Electronic ISBN: 979-8-3503-8735-3, Print on Demand(PoD) ISBN: 979-8-3503-8736-0	IEEE Explore	Scopus	Confer
24	Jai Prakash Mishra, Shweta Sharda, Sandeep Vyas, Ritambhara Parashar, Yazusha Sharma	Machine Learning based approach for predicting ocean surface temprature	DOI: 10.21203/rs.3.rs-4501938/v1	Research Square	Scopus	Journa

International Publication 2023-24

S. No.	Name of the Faculty (Author)	Title of Manuscript/ Paper	DOI/ ISBN/ISSN	Name of The Publisher	Indexing (SCI/Scopus /ESCI/SCIE/Web of Science)/ UGC Approved	Journ Proce Chap
1	Sandeep Vyas, Ashish Sharma	A Novel Methodology for Real-Time Face Mask Detection Using PSO Optimized CNN Technique	DOI: https://doi.org/10.1007/978-3-031-46781-3_10	Springer Nature Switzerland	Scopus	Book
2	Sandeep Vyas, Ashish Sharma	Density-Based Spatio-Temporal Clustering Model for Earthquake Analysis and Seismo-Tectonic Zoning	DOI: https://doi.org/10.1007/978-981-99-3656-4_55, Print ISBN: 978-981-99-3655-7, Online ISBN: 978-981-99-3656-4	Springer, Singapore	Scopus	Book
3	Vipra Bohara	Improved human activity recognition technique with multi-class support vector machine	10.1109/iSES58672.2023.00079	IEEE Explore	Scopus	Confe

4	Sandeep Vyas	Dual-layer electromagnetic band gap (EBG) structure loaded dual band notched UWB antenna	DOI: https://doi.org/10.1063/5.0175938, Online ISSN 1551-7616, Print ISSN 0094-243X	AIP Publishing	Scopus	Confe
5	Sandeep Vyas, Ashish Sharma	Optical Character Recognition Using Hybrid CRNN Based Lexicon-Free Approach with Grey Wolf Hyperparameter Optimization	DOI: https://doi.org/10.1007/978-981-99-2730-2_47Electronic, ISBN: 978-981-9927-30-2, Print ISBN: 978-981-9927-29-6	Springer Nature Singapore	Scopus	Book
6	Sandeep Vyas, Girraj Sharma	Reconfigurable Intelligent Surface-Based Cooperative Spectrum Sensing Over Noisy Reporting Channel	DOI: https://doi.org/10.1007/978-981-99-3656-4_56, Print ISBN: 978-981-99-3655-7, Online ISBN: 978-981-99-3656-4	Springer, Singapore	Scopus	Book
7	Sandeep Vyas, Girraj Sharma, Sudarshan Kumar Jain	Reconfigurable Intelligent Surface-Enabled Energy-Efficient Cooperative Spectrum Sensing	DOI: https://doi.org/10.1007/978-981-99-1479-1_12, ISBN978-981-99-1478-4	Springer, Singapore	Scopus	Book
8	Sandeep Vyas, Girraj Sharma, Sudarshan Kumar Jain	Supercontinuum Generation in Dispersion-Tailored Tetrachloroethylene Filled Photonic Crystal Fibers	DOI: https://doi.org/10.1007/978-981-99-1479-1_7, ISBN978-981-99-1478-4	Springer, Singapore	Scopus	Book
9	Bhawna kalra	A Compact Dual Band Dual Linear Polarized Shared Aperture Antenna for Satellite C Band Tx and Rx	DOI: 10.1109/MAPCON58678.2023.10464163	IEEE Explore	Scopus	Confe
10	Sandeep Vyas, Ritambhara, Girraj Sharma, Bhawna Kalra, Yazusha Sharma	Numerical Exploration of Supercontinum Generation in Zinc-Ger based photonic crystal fiber	DOI: https://doi.org/10.1007/978-981-97-0767-6_8	Springer, Singapore	Scopus	Book
11	Bhawna kalra	A Quad band T- Shaped Slot Antenna for shortrange Terahertz wireles communication	DOI: 10.1109/AISP57993.2023.10134907 (https://doi.org/10.1109/AISP57993.2023.10134907)	IEEE Explore	Scopus	Confe
12	Vinita Mathur, Parul Tyagi, Ashish Kulshretha, Mangilal, Devendra Sharma, Rakesh Kardam	Eliptical Slotted Patch Antenna for Wi-Fi,WLAN Application	DOI: 10.1109/ICIPTM59628.2024.10563605 (https://doi.org/10.1109/ICIPTM59628.2024.10563605)	IEEE Explore	Scopus	Confe

International Publication 2022-23

S. No.	Name of the Faculty (Author)	Title of Manuscript/ Paper	DOI/ ISBN/ISSN	Name of The Publisher	Indexing (SCI/Scopus /ESCI/SCIE/Web of Science)/ UGC Approved	Journa Proce Chapte
1	Jai Prakash Mishra	New Flexible Printed Circuit Electronic Devices and Their IoTs Applications	DOI: https://doi.org/10.1007/978-981-19-0588-9_13, ISBN: 978-981-19-0588-9	Springer Nature Singapore	Scopus	Book C
2	Sandeep Vyas, Girraj Sharma	Fusion Rule Optimization for Energy Efficient Cluster-based Cooperative Spectrum Sensing	DOI: https://doi.org/10.1007/978-981-19-4300-3_24	Springer Nature Singapore	Scopus	Book C
3	Anju Rajput	Area Efficient and Low Power Half Subtractor Using Transmission Gate CMOS Logic	DOI: 10.1109/TENSYMP54529.2022.9864422, ISBN:978-1-6654-6658-5	IEEE Xplore	Scopus	Confer
4	Shweta Sharda	Dynamic hand gesture recognition using combination of two-level tracker and trajectory-guided features	DOI: https://doi.org/10.1007/s00530-021-00811-8	Springer-Verlag GmbH Germany	SCI	Journa
5	Sandeep Vyas, Girraj Sharma, Ajay Kumar Yadav	Semicoundctor material photonic crystal fiber for mid-infrared supercontinum generation	DOI: https://doi.org/10.1016/j.matpr.2022.08.117 (https://doi.org/10.1016/j.matpr.2022.08.117)	Elsevier Ltd: Materials Today	Scopus	Journa
6	Sandeep Vyas, Girraj Sharma	Quality parameter index estimation for comprehensive sensing based sarse auido signak reconstrcution	DOI: 10.1088/1757-899X/1119/1/012005 (http://dx.doi.org/10.1088/1757-899X/1119/1/012005)	Elsevier Ltd: Materials Today	Scopus	Journa

7	Sandeep Vyas, Girraj Sharma	AlGaN/AlN/GaN SG-HEMT as pH detector: Asimulation study	DOI: https://doi.org/10.1016/j.matpr.2021.03.740 (http://dx.doi.org/10.1088/1757-899X/1119/1/012005)	Elsevier Ltd: Materials Today	Scopus	Journa
8	Sandeep Vyas, Bhawna Kalra	Material analysis of sequentially rotated 2*2 patch array antenna	DOI: https://doi.org/10.1016/j.matpr.2022.08.038 (https://doi.org/10.1016/j.matpr.2022.08.038)	Elsevier Ltd: Materials Today	Scopus	Journa
9	Sandeep Vyas, Girraj Sharma, Sudarshan Kumar Jain	Influence of hole interface layer on the performance of cadmium telluride-based thin film solar cell	DOI: https://doi.org/10.1016/j.matpr.2022.08.058	Elsevier Ltd: Materials Today	Scopus	Journa
10	Sandeep Vyas	Advance 3D FSS with several transmission zeros for S, C and X frequency	DOI: https://doi.org/10.1016/j.matpr.2022.08.251	Elsevier Ltd: Materials Today	Scopus	Journa
11	Sandeep Vyas	Pervasive review of optic bio sensor-based on surface plasmon resonance and its devlopment	DOI https://doi.org/10.1007/978-981-19-2065-3_59	Springer Nature, Signapore	Scopus	Book C
12	Bhawna Kalra	The Desgin CP Square Slot Antenna with Open loop and single Inverted L- Shaped Ground Strip	DOI: 10.1109/MAPCON56011.2022.10046745 (https://doi.org/10.1109/MAPCON56011.2022.10046745)	IEEE Xplore	Scopus	Confer
13	Bhawna Kalra	A Circularly polarized Modified Pill Shaped Ultra-Wideband THz Antenna	DOI: 10.1109/AISP57993.2023.10135049 (https://doi.org/10.1109/AISP57993.2023.10135049)	IEEE Xplore	Scopus	Confer
14	Vinita Mathur, Parul Tyagi, Rakesh Kardam, Ritu Vyas, Mangilal, Ashish Kulshrestha	Desgin of Minkowski fractal Antenna for multiband utilization	10.1109/ICEEICT56924.2023.10157281 (http://dx.doi.org/10.1109/ICEEICT56924.2023.10157281)	IEEE Xplore	Scopus	Confer
15	Sandeep Vyas	Fabrication and characterization of a highly sensitive hydrogen gas sensor	DOI: https://doi.org/10.1016/j.matpr.2022.08.247	Elsevier Ltd: Materials Today	Scopus	Journa
16	Sandeep Vyas	Low power high-speed CNFET-based full adder	DOI: https://doi.org/10.1016/j.matpr.2022.08.317	Elsevier Ltd: Materials Today	Scopus	Journa

International Publication 2021-2022

S. No.	Name of the Faculty (Author)	Title of Manuscript/ Paper	DOI/ ISBN/ISSN	Name of The Publisher	Indexing (SCI/Scopus /ESCI/SCIE/Web of Science)/ UGC Approved	Journal/ Conference Proceeding/ Book Chapter
1	Ajay Kumar Yadav	Design and Simulation of Compact MIMO Antenna for the 5G Communication in C-Band	DOI: 10.1088/1742-6596/2312/1/012032	IOP Science	Scopus	Conference Procceding
2	Ajay Kumar Yadav	SAR Evaluation of Flexible UWB Antenna for Wearable Applications	DOI: 10.1088/1742-6596/2312/1/012051 (http://dx.doi.org/10.1088/1742-6596/2312/1/012051)	IOP Science	Scopus	Conference Procceding
3	Jaivardhan	CPW-Fed Dual-Sense Cross-Shaped Broadband Circularly Polarized Antenna for Wireless and Satellite Application	DOI: https://doi.org/10.1007/978-981-16-2818-4_41	Springer Nature Singapore	Scopus	Book Chapter
4	Sandeep Vyas, Jaivardhan	Dispersion Engineered AsSe2 Based Chalcogenide Photonic Crystal Fiber for MIR Region Supercontinuum Generation	DOI https://doi.org/10.1007/978-981-16-2818-4_34 (https://link.springer.com/chapter/10.1007/978-981-16-2818-4_34)	Springer Nature Singapore	Scopus	Book Chapter
5	Ajay Kumar Yadav	Quarter wavelength parasitic stub loaded polarization reconfigurable patch antenna	DOI: 10.1080/02726343.2021.2003026	Taylor and Francis	SCI	Journal
6	Ajay Kumar Yadav	EBG and SRR Loaded Triple Band Notched UWB Antenna	DOI: 10.24200/sci.2022.59023.6032 (https://doi.org/10.24200/sci.2022.59023.6032)	Scientia Iranica	SCI	Journal

7	Vipra Bohra	A Quick Evaluation on COVID-19: A Remarkable Situation to Public Fitness	ISSN: 2454-8236	World Journal of Innovative Research	UGC Approved	Journal
8	Vipra Bohra	An Probing Covid-19 Data Analysis Across World	ISSN: 2454-4116	International Journal of New Technology and Research	UGC Approved	Journal
9	Vipra Bohra	A Review on Human Activity Recognition Techniques and Comparative Performance Analysis	ISSN: 2454-8236	World Journal of Innovative Research	UGC Approved	Journal
10	Parul Tyagi	Cryptography-Based Efficient Secured Routing Algorithm For vehicular Ad Hoc Networks	DOI: https://doi.org/10.1007/978-981-16-8403-6_55	Springer Nature	Scopus	Book Chapter
11	Girraj Sharma	Joint Optimization of Fusion rule Threshold and Transmission Power for Energy Efficient CSS in Cognitive Wireless Sensor Networks.	DOI: https://doi.org/10.1007/s11277-021-09230-4 (https://link.springer.com/article/10.1007/s11277-021-09230-4)	Springer Nature	SCI	Journal
12	Girraj Sharma	Effect of number of users and numbers of clusters using distributed cooperative spectrum sensing over Hoyt Fading channel.	DOI: 10.1007/978-981-16-2818-4_38	Springer, Singapore	Scopus	Book Chapter
13	Vipra Bohra	A review on Human Activity Recognition Techniques and Comparative Performance Analysis.	ISSN: 2454-8236	World Journal of Innovative Research	UGC Approved	Journal
14	Ashish Sharma	A Model based on Fuzzy C-Means with Density Peak Clustering for Seismicity Analysis of Earthquake Prone Regions	DOI https://doi.org/10.1007/978-981-16-2712-5_16 (https://link.springer.com/chapter/10.1007/978-981-16-2712-5_16)	Springer, Singapore	Scopus	Book Chapter
15	Ashish Sharma	A Binary NSGA-II Model for declustering seismicity of Turkey and Chile	DOI: 10.1109/CEC45853.2021.9504964 (https://doi.org/10.1109/CEC45853.2021.9504964)	IEEE Xplore	Scopus	Confernce Proceeding
16	Yazusha Sharma	Plasmonics based refractive index sensor based on square ring resonator	DOI: https://doi.org/10.1016/j.matpr.2022.08.027 (https://doi.org/10.1016/j.matpr.2022.08.027)	Elsevier Ltd: Materials Today	Scopus	Journal
17	Ajay Singh Yadav	Design and Simulation of Flower Shaped Flexible Wideband Antenna for WBAN Applications (https://ieeexplore.ieee.org/abstract/document/9726448/)	DOI: 10.1109/InCAP52216.2021.9726448	IEEE Xplore	Scopus	Confernce Proceeding
18	Jaivardhan	A CPW Fed Cross-Shaped Dual-Band Circularly Polarized Monopole Antenna with Strip/Stub/Slot Resonator Loadings	1937-8726	PIER Journal	ESCI/ Scopus Indexed	Confernce Proceeding
19	Jaivardhan, Bhawna Kalra	8×1 Array Implementation of Bulls Horn Design Microstrip Patch Antenna for Broadcast Satellite and Military Communication	DOI: 10.1109/InCAP52216.2021.9726344	IEEE Xplore	Scopus	Confernce Proceeding
20	Jaivardhan	A Multi Wideband Compact Circularly Polarized Square Slot Antenna	Electronic ISBN:978-1-6654-0110-4	IEEE Xplore	Scopus	Confernce Proceeding
21	Jaivardhan	Wide Band Circularly Polarized Planar Monopole Antenna for FSS and ITU-8GHz Application	Electronic ISBN:978-1-6654-0110-4	IEEE Xplore	Scopus	Confernce Proceeding
22	Bhawana Kalra	Dual Band CP Antenna with Stub and Inverted L-Strip Loaded for Broadcasting Satellite Applications	Electronic ISBN:978-1-6654-0110-4	IEEE Xplore	Scopus	Confernce Proceeding
23	Bhawana Kalra	Design and Performance Evaluation of Circularly Polarized Dual Feed Microstrip Patch Antenna Using Wilkinson Power Divider	Electronic ISBN:978-1-6654-0110-4	IEEE Xplore	Scopus	Confernce Proceeding
24	Bhawana Kalra	Design of L-Shaped Strip Loaded Dual Band Hexagonal Shaped Circularly Polarized Monopole Antenna	Electronic ISBN:978-1-6654-0110-4	IEEE Xplore	Scopus	Confernce Proceeding

25	Bhawana Kalra	Sequentially Rotated Stacked Microstrip Patch Antenna Array at Ku Band for Satellite Applications	Electronic ISBN:978-1-6654-0110-4	IEEE Xplore	Scopus	Confernce Proceeding
26	Vinita Mathur	Kite Slot Patch in Elliptical Patch Antenna for Super Band Applications	Electronic ISBN:978-1-6654-0110-4	IEEE Xplore	Scopus	Confernce Proceeding
27	Vinita Mathur	Candy Shape Microstrip Patch Antenna for Wireless Applications	Electronic ISBN :978-1-6654-2168-3	IEEE Xplore	Scopus	Confernce Proceeding
28	Vinita Mathur	Circular Slotted Microstrip Patch Antenna for Wireless Applications	Electronic ISBN :978-1-6654-2168-3	IEEE Xplore	Scopus	Confernce Proceeding

National Publication

Academic Year 2024-2025				
S.No. (http://s.no/)	**Title of Manuscript/ Paper**	**Name of Author/s**	**Name of The Publisher**	**ISSN Number**
1	IoT Based Real Time Water Nutrition Monitoring System for Hydroponic Plants	Aditya Sharma Ayush Soni Hitin Vaswani Abhay Khandelwal Jai Prakash Mishra	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
2	Next Generation Street Lightning & Fault Detection	Yazusha Sharma Ritu Vyas Chandra Prakash Gupta Chinmay Jain Aman Goyal Dishant Chejara	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
3	A Review Study On Hardware Components Used In Econinja: Autonomous Garbage Slayer With SLAM And YOLO	Vikas Sharma Raj Kumar Jain Manvendra Singh Shekhawat MotiSingh JayantAsawa Khushboo	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
4	A Review Paper on AI Based Monitoring of Remote Access Vehicle	Raj Kumar Jain Vikas Sharma Rakesh Kardam Devendra Sharma Aditya Raj Amit Kumar	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
5	Development of Conference Portal on Integrated Departmental Website	Yogesh Kumar Dadhich Ritik Chhipa Yash Mittal Tushar Chaturvedi Girraj Sharma	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
6	Design and Implementation of an Intelligent Car Parking System using IoT	Ghanishth Kumawat Divya Saxena Garvita Gupta Harshvardhan Sharma Sudarshan Kumar Jain Honey Agarwal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
7	A Review Paper on Detecting System for Underground Mines Radio Frequency and RADAR Technology	Mr. Vikas Sharma Mr. Raj Kumar Jain Pankaj Kumar Yadav Nitesh Rao Nupur Agarwal Love Dev Singh	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
8	Smart Traffic Light Control for Emergency Vehicles using Arduino and RF Module	Aryan Sharma Gouri Mansinghka Ayush Mittal Anurag Kumar Shukla Parul Tyagi Vinita Mathur	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495

9	Digital Water Bottle: A step towards healthier life	Jyoti Soni Khushi Maheshwari Mohan Lal Kritika Sharma Deepmala Kulshreshth Ashish Kulshrestha	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
10	Solar Panel Cleaning Robot	Lakshta Nandwana Khushi Kachhara Pratham Kapoor Keshav Thakuriya Shweta Sharda Devendra Sharma	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
11	Enhancing Soil Fertility with Real Time Monitoring	Ashish Kulshrestha Mamta Rani Yashvi jain Vaibhav Bansal Sapan Mittal Ronit Kumar Jain	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
12	Velocity Violation Monitoring and Charge System	Mamta Rani Ashish Kulshrestha Bhavika Saini Deepak Vijay Divyanshi Upreti HarshRawal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
13	GPS, GSM security tracking SOS device for children's and women's safety	Ayushi Agarwal Diwya Sudarshan Kaushik Anubhav Singh Jadon Himanshu Mittal Deepak sankhala	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
14	LUNG SUPPORTING VENTILATOR (w/t TEMPERATURE, BPM and SPO2 MONITORING)	Ritu Vyas Sarthak Saxena Shryansh Gangwal Sneha Jain Stuti Arora	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
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17	A Study on Prevention of under-loading/overloading of Railway wagons with IOT devices	Raj Kumar Jain Vikas Sharma Vaishnavi Chauhan Rachit Prajapati Zeeshan Ali	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
18	Next-Generation Personal Armor: The Design and Functionality of Smart Bulletproof Jacket	Nilanshi Jain Kishan Gopal Jetwal Nikhil Bansal Nirvigh Nama Girraj Sharma	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
19	BlazeGuardian: All-in-One Fire fighting robot with two way communication	Ms. Yazusha Sharma Mr. Devendra Sharma Abhi Soni Abhijeet Bhatnagar Akshat Auditchya Archita Khandelwal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
20	Design of Mmicrostrip Patch Antenna for Ku-band Satellite Communication Applications	Bhawna Kalra Shyamsunder Manaktala Chirag Jain Ashwani Sharma Ashish Sharma Ankit Doot	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495

21	A Review Paper Based on Car Parking System Using Smart Control and Sensor Technology	Raj Kumar Jain Vikas Sharma Arya Raj Divyam Garg Gagan Goyal Harshvardhan Soni	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
22	Future trends in toll industry	Mr. Devendra Sharma Manendra Saini Mohd Adnan Zaidi Kanad Mishra	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
23	Smart No Parking System Using Arduino	Mr. S.S Manaktala Nakul Rathore Rohit Sharma Ronak Maheshwari Shivam Vijay	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
24	Fire Monitoring Drone with Thermal and Motion Sensor for Wild Animals	Ashish Kulshrestha Mamta Rani Amit Solanki Arjun Atul Singhal Dhruv Goyal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
25	Implementation of Harmful Gases Surveillance Robot using IoT	Mamta Rani Ashish kulshrestha Himanshu Ameta Ankit K. Sharma Chirayu Trivedi Ashish Tiwari	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
26	Wrist Band Oscilloscope	Nayan Jain Naman Doriya Nidhi Mundra Keshav Yadav Deepak sankhala	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
27	Solar Wireless Electric Vehicle Charging System	Mitali Vinocha Nidhi Tirthani Payal Soni Priyanshu Shweta Sharda Ritu Vyas	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
28	Automated Medication Management System: A SmartDrug Dispensing Solution with Arduino	Manav Sharma Pulkit Galav Hardik Parakh Anshul Yadav Mangi lal Rakesh Kardam	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
29	Small scale wind energy machine	Mr. Devendra Sharma Manas Agrawal Khushi Bindal Pranika Goyal Laxmi Narayan	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
30	Fingerprint door lock using Arduino	Mrs. Ritu Vyas Rahul Sharma Rohan Sharma Sameer Mathur Rahul Singh	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495

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S.No. (http://s.no/)	**Title of Manuscript/ Paper**	**Name of Author/s**	**Name of The Publisher**	**ISSN Number**
1	Automated Green Corridor for quick passage of Ambulance	Shweta Sharda Samiksha Mathur Rishabh Mahla Rahul Danga Sakshi Sharma Ritu Vyas	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
2	IOT –Based Smart Blind Stick	Deepak Sankhla Mohit Goyal Murari Agarwal Naman Jain Nagendra Singh	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495

3	Electronics & Telecommunication Engineering Arduino Based Vehicle Accident Detection and Alert System using GPS, GSM Module	Harshdeep Singh Songara Hiranshi Malvi Harshit Bhat Mayank Kumar Mangilal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
4	Fractal Microstrip Patch Antenna for Ultra-Wide Band	Parul Tyagi Ashutosh Lawania Anshul Gadia Gaurav Bharadwaj Dhyan Chandra Vinita Mathur	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
5	A study of Smart Chair for Monitoring of Sitting Behaviour	Md Jauhar Iqbal Megha Nandini Vyas Hasan Kansal Deepmala Kulshreshth	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
6	Elderly Fall Detection and Prediction System with MEMS Sensors and IOT	Yamini Kumawat Yuvraj Singh Shekhawat Aditya Kumar Singh Yash Soni Mr. Jai Prakash Mishra	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
7	A Study on Gesture based Bluetooth Speaker with Voice Command Input	Kashish Chandra Harkishan Walia Kinshu Gupta Jyoti Poddar Deepmala Kulshrestha	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
8	Addressing Water Waste and Enhancing Plant Health: NodeMCU-based Smart Irrigation System	Mrs. Mamta Rani Kunal Sharma Keshav Khandelwal Ishika Vaishnav Mehul Kumar Sharma	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
9	Smart Shopping Cart	Raj Kumar Jain Sagar Jain Puneet Kukkar Pratham Mittal Nirali Garg	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
10	Distance Based Automated Toll Collection Using GPS	Parul Tyagi Aishwarya Lodha Bhaveen Akash Arpit Vinita Mathur	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
11	Real Time IV Drip Infusion Bag Monitoring & Alert System Using IOT	Mangilal Monika Saini Hardik Singh Bisht Mitul Chhipa Neha Ved Rakesh Kardam	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
12	IoT Based Vehicle Accident Detection and Tracking System Using WhatsApp	Vanshita Rathore Yash Jain Yash Tekewal Vishal Mehla Deepak Sankhala	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
13	A design study of embedded system for a hardware assembly of snake and ladder game	Vikas Sharma Raghav Tiwari Rachit Bhargava Rajat Jakhar Rituraj Singh Rathore	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
14	Car Accident & Alcohol Detector & Black Box	Raj Kumar Jain Vishakha Jajoo Vishal Jain Yash Sethia Yash Jain	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
15	Arduino UNO Based Smart Humidifier & Dehumidifier	Ashish Kumar Ashutosh Krishan Aryan Pareek Aditya Swarnakar S.S Manaktala	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495

16	Automatic Noise Level Monitoring and Warning System using GSM and GPS	Manan Agrawal Harsh Jain Harsh Gurjar Harsh Sharma Ashish Kulshrestha	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
17	Voice Controlled Robot Using Arduino Which can be used in Wheelchairs for Disable Person	SS. Manaktala Sambhav Agarwal Roushan Raj Sanjay Saini Saurabh Mandal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
18	Automatic Sanitary Napkin Vending Machine with Decomposer	Aditi Jain Bhanuja Bhatt Akshat Jain Arpit jain Ritu Vyas Shweta Sharda	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
19	Smart Parking Lot	Swati Jain Shivam Kalani Vipin Gupta Vishal Labana Vipra Bohra	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
20	Designing Of Circularly Polarized Microstrip Patch Antenna For S Band	Bhawna Kalra Vansh Jain Yashika Saraswat Vaibhav Garg Utkarsh Jain	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
21	Construction of Arduino-based Prepaid Energy Meter using GSM Technology	Dolly Mehta Daksh Yogi Ayush Chaturvedi Aman Navariya Jai Prakash Mishra	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
22	IR Based Accident Detection System On Hills And Sharp Turns	Parul Tyagi Ansh Agarwal Akshit Jagetiya Aniket Sharma Aditya Raj Vinita Mathur	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
23	Fabrication of Smart Dustbin with In-built Wet and Dry Waste Segregator	Rohit datwani Paridhi Punglia Sachit Bansal Rohan Kumar Mamta Rani	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
24	Revolutionizing the Future: Enchanting Home through Futuristic Home Automation Systems	Palak Marwal Prinal Gupta Raghav Agarwal Sudarshan Kumar Jain	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
25	Arduino based face detection system for attendance using embedded system technology with Esp-32	Vanshika Soni Teena Gurjar Shashank Singh Vipul Khanna Mamta Rani	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
26	To model a real-time air quality monitoring system based on IOT for detecting harmful gases in the environment	Ms. Shweta Sharda Indraysh Vijay Janvi Jain Mohit Mathur Ritu Vyas	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
27	3D Holographic Display System With Gesture Controller	S.S.Manaktala Aman Singh Ayush Agarwal Akshat Singhal Arpan Goyal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
28	Smart Drone for Monitoring and Surveillance	Deeptanshu Sharma Dheeraj Javeria Gargi Rewar Gaurav Basera Jai Prakash Mishra	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495

29	ERP System College Management	Yatharth Sharma Somya Singh Vrindaa Joshi Yashwant Tailor Yazusha Sharma Devendra Sharma	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
30	A review study on techniques used in health monitoring of critical disease patients	Vikas Sharma Shalin Maloo Shruti Mittal Shailendra Singh Ranawat	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
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32	DESIGINING OF MICRO-STRIP PATCH ANTENNA FOR NAVIC APPLICATIONS	Bhawna Kalra Muskan Bhattar Mihir Dadhich Harsh Vardhan Singh Lokendra Singh	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
33	IOT And Cloud Based Intelligent Warehouse Monitoring System	Shubham Maheshwari Subrata Pal Sudeshna Pal Shavi Bafna Nishi Atray	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
34	Automatic Pet Feeder using Internet of Things	Deepak Sankhala Parth Pareek Parag Gupta Parth Sharma Nishant Kumar	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
35	A review and study on program of automated snake and ladder game	Vikas Sharma Priyanshu Singhal Ranjeet Pankaj Rakesh Prajapat Nikhil Mittal	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
36	Wi-Fi Based Remotely Controlled Robot with Android Application for Bomb and Landmine Detection	Shikha Jat Vikas Dubey Siddham Jain Shubham Sinha Vipra Bohra	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
37	Object Detection for Military Surveillance using Distributed Multimodal Smart Sensors	Bhawna Kalra Ishika Gupta Lakshay Jain Laxman Prasad Ojha Naveen Sharma	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
38	Smart Accessories for Visually Impaired People	Lakshya Jhalani Muskan Agarwal Neha Jain Md Adnan Khan Ashish Kulshrestha	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495
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40	Surveillance Quadcopter	Ms Ritu Vyas Alisha Lohia Anushka Tiwari Dewang Bhardwaj Shweta Sharda	Pratibodh - A Journal for Engineering	Online ISSN : 2583-4495

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16	A Review Research Paper On Electric Vehicle Charge Supply Equipment	Mr.Jai Prakash Mishra	978-8-19-405434-4
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18	Research paper on Bluetooth based Home Automation using Arduino	Ms. Deepmala Kulshrestha	978-8-19-405434-4
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23	A paper on android based application called Eco-Voice for clean cities using Natural Language Processing and Computer Vision	Mr. Ankur Gangwar	978-8-19-405434-4
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25	Healthcare Equipment And Information in Times Of Covid-19 And Other Diseases	Ms. Ritambara	978-8-19-405434-4
26	Library on the Wheel: Library Management System	Mr. Honey Agarwal	978-8-19-405434-4
27	Lead Generation Project	Mr. Bhoopesh Kumawat	978-8-19-405434-4
28	A Research On Face Recognition Based Attendance System	Mr. Naresh Kumar	978-8-19-405434-4
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38	Rfid Based Smart Shopping Cart And Billing System	Dr. Ajay Yadav	978-8-19-405434-4
39	Automatic Temperature Detector For Entrance For Covid Safety Using Iot	Mr. Jai Prakash Mishra	978-8-19-405434-4
40	Medicine Reminder System	Mr. Ashish Sharma	978-8-19-405434-4

41	Real-Time Prediction Of Taxi Demand Using Recurrent Neural Networks	Dr. S. K. Singh	978-8-19-405434-4
42	Blood Bank Management System	Dr. Vinita Mathur	978-8-19-405434-4
43	Restaurant Ordering System	Ms. Mamta Rani	978-8-19-405434-4
44	Simulation Of Logic Circuits (Resistors, Flip-Flop, Adder, Clock Signal) By Using Only And Or Not Gate	Mr. Deepak Sankhla	978-8-19-405434-4
45	Covid-19 Statistics Tracker –An Efficient Application To Track Covid -19 Cases Using Python	Mr. Sudarshan Jain	978-8-19-405434-4

Patent Filled / granted

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Sl. No.	**Title of the Patent**	**Name of Faculty Inventors**	**Application Number/ Patent Number**	**Status of Patent (Published / Granted)**
1	Steering Simulation Training System	Dr. Sandeep Vyas Vikas Sharma	202211036231 A	Granted
2	Tranquiling Gun for Animals	Vikas Sharma Dr. Girraj Sharma Rajkumar Jain Deepmala Kulshrestha	376219-001	Published
3	IOT based panel for door security device	Dr. Shyam Sundar Manaktala	426165-001	Granted

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Sl. No.	**Title of the Patent**	**Name of Faculty Inventors**	**Application Number/ Patent Number**	**Status of Patent (Published / Granted)**
1	Underwater Drone	Dr. Shruti Kalra Shweta Sharda Ashish Kulshrestha Bhawna Kalra	376218-001	Granted
2	Customized Cake Cutting Device	Dr. Parul Tyagi Dr. Vinita Mathur	202211036232 A	Granted
3	Utensil Management Device	Yazusha Sharma Dr. Shruti Kalra Ms. Ritambhara Ms.Vipra Bohra Mr. Deepak Sankhla Mr.Jaiprakash Mishra Ms.Ritu Vyas Lokesh Sharma Ms. Bhawna Kalra	202211041408 A	Granted
4	Brain Activity-Based Traffic Management System	Dr. Shruti Kalra	202311037070 A	Published
5	Fluid Pipeline Leakage Detection And Repairing System	Ms. Ritambhara	202311060301 A	Published
6	Machine Learning Based Health Monitoring Wearable Device	Dr. Shyam Sundar Manaktala Mr. Mangi Lal Mr. Rakesh Kardam	397682-001	Published
7	Diagnosis and Therapy of Cancer Using Advanced Multifunctional Magnetic Nanostructures Integrated with Artificial Intellgence Technique	Ms. Mamta Rani	202341038933 A	Published
8	Implementation of Machine Learning Based Approches for Predictive Analysis of Biodiversity Dynamics is IoT Based Enviromental Monitoring Systems	Ms. Mamta Rani	202341039558 A	Published

9	Wireless Charger for Electric Device	Dr. Shyam Sunder Manaktala Mr. Deepak Sankhla Mr. Mangilal Mr. Rakesh Kardam Ms. Nishi Agarwal Ms. Mamta Rani	382623-001	Granted
10	System and Method of Ultra-High Compression of Mri-Images Based on Deep Learning	Mr. Sudarshan Kumar Jain	202441007883 A	Published
11	Implementation Of Deep Learning Models To Analyse The Political Endorsement By Nature And Trust In Scientific Expertise During Covid-19	Mr. Raj Kumar Jain	202311054984 A	Published

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Sl. No.	Title of the Patent	Name of Faculty Inventors	Application Number/ Patent Number	Status of Patent (Published / Granted)
1	High Pressure Car Washer	Dr. Vinita Mathur	367999-001	Granted
2	Multifunctional Water Dispensing Device	Dr. Parul Tyagi Dr. Vinita Mathur Ashish Kulshrestha Deepmala Kulshrestha	202211041409 A	Published
3	ICE Candy Preparation Device	Dr. Shruti Kalra Ashish Kulshrestha Ritambhara Deepmala Kulshrestha	202211052223 A	Published
4	Hydrotherapy Rehabilitation Device	Dr. Shruti Kalra Deepmala Kulshreshth Ritu Vyas	202211052213 A	Published
5	Sleep Assistive Device For Infants	Dr. Sandeep Vyas Deepak Sankhla	202211052206 A	Published
6	Bath Assistive Device For Handicapped	Dr. Vinita Mathur Dr. Parul Tyagi Vikas Sharma	202211052212 A	Published
7	Gymnastic Training Device	Dr. Vinita Mathur Ashish Kulshretha Rajkumar Jain	202211052207 A	Published
8	Thigh Workout Training Device	Ashish Kulshretra	202211052210 A	Published
9	Leg Exercising Device	Dr. Parul Tyagi Dr. Vinita Mathur	202211052209 A	Published
10	Adaptable Lower Limb Weight Lifting Exercising Device	Dr. Parul Tyagi	202211052208 A	Published
11	Upper Limb Exercising Device	Dr. Parul Tyagi	202211052211 A	Published
12	Chest Exercising Device	Bhoopesh Kumawat	202211052214 A	Published
13	Squat Exercise Training Device	Dr. Vinita Mathur Dr. Sandeep Vyas	202211052215 A	Published
14	Thickness Measuring Device	Dr. Sandeep Vyas	376212-002	Granted
15	External Pacemaker	Dr. Sandeep Vyas	376217-001	Granted
16	Modular Cleaning Device For Utensils	Dr.Shruti Kalra Ritambhara Yazusha Sharma	202211076405 A	Published
17	Lora Adhoc Network Based Outdoor Wireless Communication System	Mr. Sudarshan Kumar Jain	202211050137 A	Published
18	An Embedded System for Data Acquisition Provided with an unmanned Aerial Vehicle	Mr. Sudarshan Kumar Jain	202241050438 A	Published

19	Wireless Charger for Electric Device	Dr. Shyam Sunder Manaktala Mr. Deepak Sankhla Mr. Mangilal Mr. Rakesh Kardam Ms. Nishi Agarwal Ms. Mamta Rani	376265-001	Published
20	A Multi Layer Neural Network Based System for Vehicle to Everything Communication in 5G Network	Ms. Bhawna Kalra Dr. Jaivardhan	202211048797 A	Published
21	Classification Models For early Detection and Prediction of Cancer with improved efficiency	Vikas Sharma	202211052848 A	Published
22	Electronic Virtual Assistant in Bank Using Artificial Intelligence	Dr. Girraj Sharma	202241040210 A	Published
23	AI Based Privacy Protocol in Smart Healthcare system using IOT	Mamta Rani Nishi Agrawal	202241058906 A	Published
24	Automatic Recognition of Eyes State using deep learning approach	Nishi Agrawal Mamta Rani	202241057064 A	Published
25	Secure the Internet of Vehicles communication using Block Chain Technology	Mrs. Mamta Rani	202241052630 A	Published
26	Design Of A Smarter And Automated Delivery Systems For E-Commerce Sites For Safer And Tracked Delivery Of Ordered Products	Vikas Sharma	202241049723 A	Published
27	Chest Exercise Device	Dr. Vinita Mathur Dr. Parul Tyagi Ritu Vyas	202211036228 A	Published

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Sl. No.	Title of the Patent	Name of Faculty Inventors	Application Number/ Patent Number	Status of Patent (Published / Granted)
1	Automated Head Massage & Nourishment Device	Dr. Vinita Mathur Dr. Parul Tyagi	202211021638 A	Published
2	Steering Simulation Training System	Dr. Sandeep Vyas Vikas Sharma	202211036231 A	Published
3	Utensil Management Device	Yazusha Sharma Dr. Shruti Kalra Ms. Ritambhara Ms.Vipra Bohra Mr. Deepak Sankhla Mr.Jaiprakash Mishra Ms.Ritu Vyas Lokesh Sharma Ms. Bhawna Kalra	202211041408 A	Published
4	Customized Cake Cutting Device	Dr. Parul Tyagi Dr. Vinita Mathur	202211036232 A	Published
5	A System for Knowledge Representation using Geometric Flexible Adaptable Templates by using Machine Learning Interfaces	Dr. Sanjay Gaur Dr. Sandeep Vyas	202211021324 A	Published

B. **PhD Guided/ Awarded/ Registred**

PhD Details of AY 21-22 to 24-25

PhD Perusing Details of Department From AY 21-22 to AY 24-25

S.No (http://s.no/)	Name of Faculty	Title of PhD Thesis	Perusing Institute/ University	Year of Admission
1	Ashish Kulshrestha	Not decided yet	Malaviya National Institute of Technology, Jaipur	2024-25
2	Sameeksha Chaudhary	Offbody-to-Inbody Communication Modelin	The LNM Institute of technology, Jaipur	2021-22
3	Ritu Vyas	Not Finalized till now	JECRC University	2021-22
4	Mamta rani	design of compact antenna using DGS for uwb scanning network	Banasthali vidyapith University	2021-22
5	Depmala Kulshreshth	Not decided yet	Malaviya National Institute of Technology, Jaipur	2024-25
6	Bhawna Kalra	Shared Aperture Antenna for Sat Com Applications	Malaviya National Institute of Technology, Jaipur	2020-21

PhD Awarded From AY 21-22 to AY 24-25

s.no.	Name of Faculty	Title of PhD Thesis	Institute	Year of Completion	Name
1	Sudarshan Kumar Jain	Design and Analysis of Heterojunction Solar Cells with Nanostructures	MNIT, Jaipur	2024	Prof.
2	Shweta Sharda	Vision-Based Hand Gesture recognition System Using trajectory guided temporal features in challenging environments	The LNMIIT, Jaipur	2024	Dr. J
3	Jai Prakash Mishra	Sea wave turbulence monitoring system using multiple MEMS Sensor and IoT Technology	Manipal University Jaipur	2024	Dr. H Chau Kulw
4	Ashish Sharma	Design of Seismicity De-clustering models using Self Organizing Map, Fuzzy Logic and Chimp Optimization Algorithm	MNIT, Jaipur	2023	Dr. S Jagar
5	Ashutosh Sharma	Detection and prevention of Collaborative Routing Attacks (Black hole and Worm hole) in MANET with Energy Efficient Enhanced Multicasting Technique.	Rajasthan Technical University, Kota	2022	Dr. L

PhD Guided From AY 21-22 to AY 24-25

S.No.	Name of Faculty	Name of Scholar	Title of PhD theis	Year of Phd Award	Name of University/ Insituite
1	Dr. Sandeep Vyas	Sandeep Kumar Jain	Design and Numerical Analysis of Photonic Crystal Fiber for Sensing Applications and Supercontinuum Generation	21-12-2024	Vivekananda Global University, Jaipur
2	Dr. Girraj Sharma	Ms. Rupayali Swaroop	Implementation of Energy Efficient Cooperative Spectrum Sensing Techniques for 5G/6G communucation Syatems	On-going	JECRC University

5.7.2 Sponsored Research (5) Institute Marks : 5.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Up-skilling Science and Logic Learning for the youth of Jaipur rural area an Endeavour to Enhance Learning through Scientific Convention (TPN/63324)	1 Year	DST	2134000.00
ATAL Sponsored 5 Daya FDP on Meditation For Enhancing Emotional Stability	5 Days	AICTE-ATAL	350000.00
			Total Amount(X): 2484000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount
ATAL Sponsored FDP on" Advanced Sensor Technology for efficient Biomedical and Energy Management in Smart Cities	3- 7 Jan 2022	AICTE	90000.00
ATAL Sponsored FDP on " Productivity Enhancement through Mediation "	24-28 May 2021	AICTE	90000.00
			Total Amount(Z): 180000.00

Cumulative Amount(X + Y + Z) =

5.7.3 Development Activities (10)

Institute Marks : 10.00

1) Product Development

S.No (http://s.no/)	Assessment Year	Title of the Project/ Product	Name of Participants
1	2023-24	Fractal with Split Ring Resonator for Wireless Applications	Chetna Agarwal, Ayush Sharma, Abhijeet Dadheech, Akshat Dhyani
2	2023-24	Automatic traffic system for emergency purpose	Gauri Mansinghka, Aayush Mittal, Aryan Sharma, Anurag Kumar shukla
3	2023-24	IoT Based Real Time Water Nutrition Monitoring System for Hydroponic Plants	Hitin Vaswani, Aditya Sharma, Abhay Khandelwal, Aayush Soni
4	2023-24	AI Based Chatbot to Answer FAQs	Harsh Pareek, Anu Shekhawat, Bal Krishan Saini, Aman Sharma
5	2023-24	Small scale wind energy device	Manas Agarwal, Khushi Bindal, Pranika Goyal, Laxmi Naarayan
6	2022-23	sanitary napkins vending machine	Aditi Jain, Bhanuja Bhatt, Arpit Jain, Akshat Jain
7	2022-23	Smart Prepaid Digital Energy Meter	Dolly Mehta, Daksh Yogi, Ayush Chaturvedi, Aman Navariya
8	2022-23	Fingerprint Sensor Door lock System	Ashutosh Mishra, Devendra Agrawal, Divyam Agarwal, Chetan Tanwar
9	2022-23	Gesture based Bluetooth Speaker using Arduino with Voice Command Input and USB Port	Jyoti Poddar, Kashish Chandra, Harkishan S Walia, Kinshu Kumar Gupta
10	2021-22	STUDY OF EARTHQUAKE PREDICTION USING ML :A SURVEY	Srashti Gupta, Sulekha Gupta, Sakshi Singh, Shrey Bharghava
11	2021-22	SMART LAB AUTOMATION USING IOT AND ANDROID APPLICATION	Chirag Mahajan, Aryan Jain, Charul Bhati , Akshat Todi
12	2021-22	SMART STICK USING ARDUINO UNO: AIDING THE VISUALLY IMPAIRED	Abhishek Jain, Aman Jain, Abhishek Dave, Akshat Sharma
13	2021-22	AUTOMATED REMOTE SENSING AND MANAGING OF AGRICULTURAL PARAMETERS USING MACHINE LEARNING & IOT	Ashish Jain, Arushi Jain, Dipanshu Tomer, Akshay Kumar Beniwal

Glimpse of Some Project

2. Research Laboratories

S.No	Name of Research Lab	Area of Research	Utilization of Research
1	Embedded and IOT Lab	Robotics, Drones, Embedded system and IOT	Aid in Class room teaching, Practical Exposure, Hands -on training on thrust technologies, Certification, Nation wide exposure through project Expo
2	Antenna Research Lab Software (NEC2 Open source)	Development and optimization of new antenna, Ultra Wide band Antenna, Reconfiguration of Antenna.	Aid in Class room teaching, Practical Exposure, Hands -on training on thrust technologies,Innovation , Products and Research Paper Publications
3	MATLAB	Signal Processing, Energy Harvesting, Digital Signal Processing, EV Simulation	Aid in Class room teaching, Practical Exposure, Skill development training, Hands -on training on thrust technologies,Innovation , Products and Research Paper Publications, Birding the gap between Industry and Academia.

4	VLSI Lab (Microwind Open Source Software)	Miecroelectronics, Low power Circuits	Upskiling, Aid in Class room teaching, Practical Exposure.Skill development training, Hands -on training on thrust technologies,Innovation , Research Paper Publications, Birding the gap between Industry and Academia.Training workforce semicon nation
5	RF Simulation Lab (HFSS open source)	RF, Mircowave, Antenna	Aid in class room teaching, Birding gap between Industry and Academia, Research paper Publication, Certification, Upskiling

3. Instructional Materials

The instructional materials for each subject are made available in the college via the link provided to students. They can download for learning. The link is given on the College Website, or you can visit https: //jecrcfoundation.com/lab-instruction-manual/

4. Working Model/ Charts/ Monograms

A) Working Model

Working Model d Sample Details

S.No (http://s.no/)	**Title of Project/ Model**	**Component/Technology Used**	**Name of Students (sem)**	**Photographs / Proof of the working Model**
1	Humanoid Robot	Embedded System, 3-D Printing	Dharmendra Thakur (IV Sem)	https://drive.google.com/file/d/1CUrKw8TfwoCYjMF4OiNMII9t4iS3RGoo/v usp=sharing (https://drive.google.com/file/d/1CUrKw8TfwoCYjMF4OiNMII9t4iS3RGoo/ usp=sharing)
2	Gesture Controlled Robotic Hand	Voice COntrolling Embedded System, 3-D Printing	Avish Gupta (IV Sem) Vansh Sharma (IV Sem)	https://drive.google.com/file/d/1rS5TgnSgwT3zSUQf-FHaCiNbjKTv1EBO/ usp=sharing (https://drive.google.com/file/d/1rS5TgnSgwT3zSUQf-FHaCiNbjKTv1EBO/view?usp=sharing)
3	RC Planes with weapons	RC Controlling, Embedded System, 3-D Printing	Prateek Bhardwaj (II Sem) Snehashish (II Sem)	https://drive.google.com/file/d/126WWtuWIL4HJBVzoR-D7Yrqoq6_yd9et/ usp=sharing (https://drive.google.com/file/d/126WWtuWIL4HJBVzoR-D7Yrqoq6_yd9et/view?usp=sharing)
4	Drones	RC Controlling, Embedded System, 3-D Printing	Harshit Soni (IV Sem) Taniya Gaur (IV Sem)	https://drive.google.com/file/d/126WWtuWIL4HJBVzoR-D7Yrqoq6_yd9et/ usp=sharing (https://drive.google.com/file/d/126WWtuWIL4HJBVzoR-D7Yrqoq6_yd9et/view?usp=sharing)
5	3-D Printed Lamps and clock	Embedded System, 3-D Printing	Saksham Sarraf (VI Sem) Jai Dhingra (VI Sem)	https://drive.google.com/file/d/11zJYUoD5KMWgobAwSeggmM6NWEsFk usp=sharing (https://drive.google.com/file/d/11zJYUoD5KMWgobAwSeggmM6NWEsF usp=sharing)
6	Line Follower Robots	Sensor Aquisition, Embedded System, Actuators	Tanushka Jangid (VI Sem) Vikas Bairwa (VI Sem)	https://drive.google.com/file/d/1Q2mWIIZ6OYFCbP0YcTLPRFNFuPdxtlk8 usp=drive_link (https://drive.google.com/file/d/1Q2mWIIZ6OYFCbP0YcTLPRFNFuPdxtlk usp=drive_link)
7	Smart Car Theft and Accident alarm	Shock Sensors, Arduino Microcontroller, Embedded System	Dharmendra Sharma (IV Sem) AAkarsh Gupta (VI Sem)	https://drive.google.com/file/d/1z7LJRogyzLRsaQy07Q9AbJGNa_9_ixH1/ usp=drive_link (https://drive.google.com/file/d/1z7LJRogyzLRsaQy07Q9AbJGNa_9_ixH1 usp=drive_link)
8	Robotic Arm	High Torque Motors, Embedded System, 3-D Printing	Abhishek Choithani (VIII Sem) Varuna Sharma (VIII sem)	https://drive.google.com/file/d/1rS5TgnSgwT3zSUQf-FHaCiNbjKTv1EBO/ usp=sharing (https://drive.google.com/file/d/1rS5TgnSgwT3zSUQf-FHaCiNbjKTv1EBO/view?usp=sharing)
9	Smart Fire Fighter Robot	Camera Vision, Embedded System,	Medhansh Singhal (VI Sem) Jeevesh Saini (VI Sem)	https://drive.google.com/file/d/1Q6GrRfy_Bs-qQNOCNva29_PT9x0x-ddH usp=drive_link (https://drive.google.com/file/d/1Q6GrRfy_Bs-qQNOCNva2 ddH/view?usp=drive_link)
10	Automatic Hand Sanatizer	Embedded System, Sensors Ultrasonic	Vaibhav (VIII Sem) Akshat Jangid (Passout 2023)	https://drive.google.com/file/d/1Q2mWIIZ6OYFCbP0YcTLPRFNFuPdxtlk8 usp=drive_link (https://drive.google.com/file/d/1Q2mWIIZ6OYFCbP0YcTLPRFNFuPdxtlk usp=drive_link)

B) Charts

The Department of ECE has more than 30 Charts displayed in different laboratories made from different streams of Electronics and Communication Engineering domain.

Glimpses of the chart displayed in the ECE lab

5.7.4 Consultancy(from Industry) (5) Institute Marks : 3.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Comprehensive operation and maintenance services for solar power plants	01-04-2023-30-03-2024	Educlear Solutions	120000.00
Basic electrical assesments, wiring and installation services , and energy audits	01-05-2023- 30-03-2024	The Horizon Enterprises	100000.00
			Total Amount(X): 220000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount
Comprehensive operation and maintenance services for solar power plants	01-04-2022- 30-03-2023	Educlear Solutions	120000.00
Basic electrical assesments, wiring and installation services , and energy audits	01-05-2022-30-03-2023	The Horizon Enterprises	90000.00
			Total Amount(Y): 210000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount
and maintenance	01-04-2021-30-03-2022	Educlear Solutions	110000.00
Basic electrical assesments, wiring and installation services , and energy audits	01-05-2021-30-032022	The Horizon Enterprises	90000.00
			Total Amount(Z): 200000.00

Cumulative Amount(X + Y + Z) = 630000.00

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

Institute Marks : 30.00

- JECRC have its rule book to improve the performance of faculty and students with quality.
- Department have Faculty Performance and appraisal form. The form contains total 200 points.
- The 200 points are divided into following area
  - Academic result
  - Research Publication
  - Faculty development programme
  - International / National conference
  - Research grant
  - Patent
  - Product development/start-up
  - Innovation in teaching and learning
  - Technical activity organized/Expert Talk/ FDP organized(NITTR, TEQIP-III, ATAL)
  - Participation in social responsibility
  - Any award received
  - Any Session Chair hosted
  - HOD recommendation

Jaipur Engineering College and Research Centre, Jaipur

FACULTY APPRAISAL FORM

(September 2022 onwards)

Total 200 points

Name of Faculty Member: Department:

Designation:

	1. Total theory subjects taught during the year.....(20) 70% students getting more than B grade or 70% marks in theory subject Otherwise Prorata. 2. Student Feedback & Action Taken Report (10). 3.Course file based on OBE (5) 4.Assessment and evaluation process of the affiliating university & other university (5). 5. Teaching Learning: (10) • Certification Courses Earned through MOOCs (SWAYAM/NPTEL/NITTTR/etc.) X 5 • Online lectures for SWAYAM/NPTEL/other reputed platform X (5) • Value added courses or other facilities development/ Experiments using Virtual Lab. X 5 • Video Lecture on portal/ Innovation in teaching learning X (5). 6.Faculty Development Program or workshop attended by faculty (10) • Number of FDP attended X (5 for 5 days/ one week or above) • Number of workshop attended X (1 for 1-Day workshop; 2 for 2-4 days workshop; 5 for 5 days / one week or above).		
B)	**Research Activities (50)**		

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

Note: HOD will verify the documentary proof.

Signature of Faculty (Reviewing Officer) Signature of HOD IQAC

S**ignature of Principal**

Process For Verification of Self-Appraisal

a. Each Faculty member is required to submit a self-appraisal report annually on the basis of the parameters mentioned above in the table within the given deadline.
b. Review of the performance appraisal is made by the HOD of the Department and than forwarded to IQAC / Principal.
c. Re-review of the performance appraisal is made by the panel of HOD, IQAC Coordinator under the supervision of the Principal and then committee is responsible for rechecking the points scored based on the annexure/ document attached in terms of Validation, time frame, authenticity and relevance of the supported documents submitted by the faculty.

d. Appreciation letter and Increment to faculty will only be given if the Faculty Member Scored meets the criteria mentioned below criteria otherwise Advisory letter will be issued to the concerned faculty for further improvement in the next Academic Year.

i. Professors have to score more than 140 Marks
ii. Associate Professor has to score more than 120 Marks
iii. The Assistant Professor has to score more than 100 Marks.

e. If the Faculty member doesnt submit his/ her appraisal report by the deadline, it will be deferred to the next year.

Fig: Sample of API

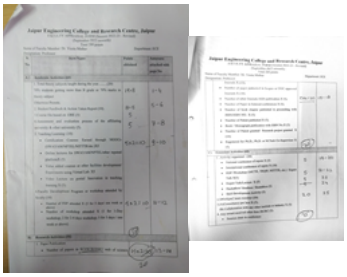


Fig: Sample of API Score Obtained by Faculty in AY 23-24

Fig: Sample of Appreciation Letter to the Concerned Faculty

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	Electronics Devices Lab	4	P-N junction diode apparatus Zener .diode apparatus Transistor characteristics apparatus. Clipping & Clamping circuit apparatus. Half wave, Full wave bridge rectifier, Common collector transistor amplifier FET characteristics. Scientech 50Mhz digital storage, Digital function generator 2Mhz. Digital Function generator 2Mhz Two stage R-C coupled amplifier kit.	12	Mr. Adrash Goyal	Technical Assistant	ITI
2	Digital System Design Lab	4	Scientech Digital Kit(5), Digital Trainer Kit(10)	12	Mr Harsh Rawat	Technical Assistant	ITI
3	Signal Processing Lab	20	Use appropriate software/openware(MATLAB, SCILAB,etc.) Tools for implementation.	12	Mr. Dinesh lambha	Lab Technician	Diploma In Computers
4	Computer Programming Lab-I	20	COMPUTER (INTEL DUAL CORE E5200 2.5 GHZ, INTEL® G33/31 CHIPSET, 1 X 1 GB DDR2, 320 GB SATA, BENQ TFT- 17"DVDRW, COMPAQ keyboard, COMPAQ USB Optical Mouse) Total No-28(20748*28)	12	Mr. Hemant Kumar Sharma	Technical Assistant	Diploma In Computers
5	Analog Electronics	4	Push Pull Power Amplifier Kit, Voltmeter, Voltmeter, Two Stage R-C Coupled Amplifier, Voltage Regulator, Voltage Multiplier, Opamp Designer Trainer Kit, Bootstrap Sweep Generator, BJT Trainer Kit , Attenuator &Equalizers CRO, Dual Trace With Ct CRO, Dual Trace With Ct &FG, DECADE CAPACITANCE BOX, Decade Résistance Box, Decade Inductance Box, Digital Multimeter, Emitter Follower , Function Generator Function Generator With Frequency Counter, FET Trainer Kit, Rectifier Trainer Kit, Oscillator Trainer Kit, Opamp Characteristics Trainer Kit, P-N Diode &Zener Diode Trainer Kit, Power Supply	18	Mr. Adrash Goyal	Technical Assistant	ITI
6	Analog and Digital Communication Lab	4	Sampling & Reconstruction Trainer, Data Formatting & Carrier Modulation Transmitter, TDM Pulse Code Modulation Receiver, TDM Pulse Code Modulation Transmitter, Delta, Adaptive Modulation & Demodulation. PAM, PPM, PWM Mod. & Demodulation. Transmission Line Trainer , CRO, Digital Storage CRO 150 MHz, FM modulation & Demodulation, DSB/SSB AM Modulation .Tx, DSB/SSB AM Demodulation. Rx, PCM, DPCM, CVSD modulation & demodulation trainer, MSK modulation & demodulation Trainer Delta , adaptive delta ,sigma delta Mod. & Demodulation trainer, Cyclic code experimental setup, Block code encoder , Block code decoder ASK, FSK BPSK, DBPSK experimental Setup TDM-PAM trainer kit, Sampling & Reconstruction trainer, Data Formatting and Carrier modulation, Data formatting & carrier Demodulation, 4 channel TDM-PCM transmitter Receiver, QPSK, OQPSK, DQPSK modulation & demodulation trainer	18	Mr. Sitaram Saini	Technical Assistant	Diploma In Electronics
7	Microcontroller lab	4	Ansuman Microprocessor- 8085 kits & accessories,Ansuman Microcontroller- 8051 kits& accessories	18	Mr.Ramotar Saini	Technical Assistant	Diploma In Electronics
8	Measurement & instrumentation lab	4	Wein's Bridge (Capacity), Anderson's Bridge, Maxwell Inductance Bridge, Wein's Bridge (frequency). Ultrasonic digital distance meter. RTD Trainer kit, Single Phase Energy Meter LCR-Q Bridge . Solar Educational Kit Digital Earth Tester	18	Mr. Sitaram Saini	Technical Assistant	Diploma In Electronics
9	Microwave lab	4	klystron power supply , Gunn power supply, Microwave test bench(klystron), Microwave test bench (Gunn diode), Spectrum analyzer, VSWR meter, Solid state klystron power supply, CRO 150 MHz, Microwave test bench(klystron), Microwave test bench (Gunn diode), Microwave test bench (s band)	18	Mr. Amit Jain	Technical Assistant	Diploma In Electronics

10	RF Simulation Lab	4	Use appropriate software/openware (MATLAB, SCILAB, HFSS, and CST etc.) Tools for implementation	18	Mr. Dinesh lambha	Technical Assistant	Diploma In Computers
11	Digital Signal Processing Lab	20	Use appropriate software/openware (MATLAB, SCILAB,etc.) Tools for implementation.	27	Mr. Hemant Kumar Sharma	Technical Assistant	Diploma In Computers
12	Power Electronics Lab	4	Triggering Circuit for SCR Trainer kit,DIAC characteristics ,Single Phase PWM converter,TRIAC characteristics ,CRO Cathode Ray Oscilloscope	12	Mr Harsh Rawat	Technical Assistant	ITI
13	Computer Network Lab	20	Computer (intel dual core e5200 2.5 ghz, intel® G33/31 chipset, 1 X 1 GB DDR2, 320 GB SATA, BENQ TFT- 17"DVDRW, COMPAQ keyboard, COMPAQ USB Optical Mouse) Total No-28(20748*28)	27	Mr. Dinesh lambha	Technical Assistant	Diploma In Computers
14	Antenna and wireless communication lab	4	GPS Trainer Kit, Radar Trainer Kit, CRO dual channel, function generator, CDMA direct sequence spread, spectrum (DSSS) trainer kit, antenna trainer lab ATS40, antenna trainer ATS2000, satellite communication trainer kit, antenna digital RF TX ATS200IT, satellite communication trainer up link TX, satellite communication trainer down link RX, satellite communication trainer, Satellite transponder, fiber optic trainer, Fiber optic connectors kit display board, fiber optic cable sample kit display board, laser trainer model lt2506, voice communication using DSSS	18	Mr. Amit Jain	Technical Assistant	Diploma In Electronics
15	Electronics Design Lab	4	OP-Amplifier Trainer Kit.30 MHz Trace CRO, Bread Board, Active Filter Trainer Kit, BJT Amplifier Kit	36	Mr.Babulal sharma	Technical Assistant	Diploma In Electronics
16	VLSI Design Lab	20	Computer (intel dual core e5200 2.5 ghz, intel® G33/31 chipset, 1 X 1 GB DDR2, 320 GB SATA, BENQ TFT- 17"DVDRW, COMPAQ keyboard, COMPAQ USB Optical Mouse) Total No-28(20748*28)	18	Mr.Ramotar Saini	Technical Assistant	Diploma In Electronics
17	Optical Communication Lab	4	Elementary Fiber Optic Trainer Kit, Advance Fiber Optics Trainer Kit, Fiber Optics Laser Trainer, Light Source LED 850nm, Optical Power Meter	12	Mr.Babulal sharma	Technical Assistant	Diploma In Electronics
18	5G Communication Lab	20	Use appropriate software/openware (MATLAB, SCILAB, HFSS, CST etc.) Tools for implementation	12	Mr. Sitaram Saini	Technical Assistant	Diploma In Electronics
19	IOT Lab	4	LED/Buzzer with Arduino/Raspberry Pi,Push button/Digital sensor (IR/LDR),temperature and humidity data,Sensor	12	Mr. Amit Jain	Technical Assistant	Diploma In Electronics
20	Project Lab	4	Film maker m/c.Ultra first,Ultra secondDIP Coat,Developer/ DYE blue Ink (FCL)RTM-10/Dryer,Drill M/C,Cutter m/c,Red bulb (light)	27	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

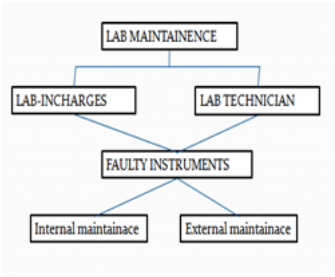
Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Advanced Instrumentation and Equipment	• High-Frequency Oscilloscopes: For analyzing signals in MHz range. • Spectrum and Network Analyzers: To study signal frequencies, bandwidths, and network parameters. • Digital Signal Oscillator: High-precision instruments for Oscillation wide range of signal types.	To make students ready to industry	For students	All engineering subject domains	PO1, PO2, PO3, PO4, PO5, PO7, PO12
2	Digital Design and Prototyping	FPGA and CPLD Kits: Modern platforms for digital design and verification.	To make students ready to industry	For students	All engineering subject domains	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO12
3	IoT LAB	• IoT Development Kits: Boards like Arduino, and Raspberry Pi for IoT applications. • Sensor Libraries: A wide range of sensors for temperature, pressure, motion, etc., for IoT experiments.	To make students ready to industry	For students	All engineering subject domains	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PO12
4	Signal Processing Facilities	• MATLAB/Simulink Workstations: For digital and analog signal processing and simulation. • DSP Processors and Kits: Boards like Texas Instruments or ADSP for practical DSP algorithm implementation.	To make students ready to industry	For students	All engineering subject domains	PO1,PO2,PO3,PO4,PO5,PO10,PO12
5	Virtual Lab	Online Virtual Lab to provide remote access to simulation-based labs in various disciplines of science and engineering for students at all levels, including additional tools for learning like web resources, video lectures, animations, and self-evaluation	For students to perform experiments beyond the curriculum and innovate projects	For students	All engineering subject domains	PO1, PO2, P04, PO5, PO9, PO12
6	Lab Facility for Extended Hours	For research and experimentation purposes	For improving quality of learning	For faculty, staff, and students	All laboratory courses	PO1, PO3, PO4, PO5, PO9, PO11, PO12
7	Centre of excellence in embedded system	• Microcontroller lab: With microcontroller kits for automation experiments. • Robotic Arms and Drones: For projects and experiments in robotics and automation. • AI Integration Tools: To combine AI/ML with robotic and automated systems. • 3D Printer: to create three-dimensional objects by adding material layer by layer.	To make students ready to industry	For faculty, staff, and students	All engineering subject domains	PO1, PO2, PO3, PO4, PO5, PO6, PO7,PO9,PO12

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

Institute Marks : 10.00

Maintenance of Laboratory Equipments:-

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



Lab maintenance Process

(1)Lab Feedback:

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

(2)Lab Feedback corrective action :

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

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,Babulal Sharma	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 Electronics and Communication Engineering, JECRC is as below

Sr. No	Task	Frequency Daily/Weekly /Monthly/yearly	Performed under supervision of
1	Laboratory cleaning	Daily Monthly	Supervisor
2	Checking, repairing and maintenance of measuring devices and equipment	Half Yearly	Technical Assistant
3	Testing and repairing of Computer and accessories	Half Yearly	Technical Assistant
4	Projectors and other Software facility maintenance	Monthly	Technical Assistant

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

S.NO (http://s.no/)	**NAME OF LAB**	ROOM NO.	NAME OF THE ITEMS												
			EXPERIMENT TABLE	STOOL / STUDENTS CHAIR	FACULTY TABLE	FACULTY CHAIR	ALMIRAH	NOTICE/ BOARD	WHITE / BLACK BOARD	WINDOW	TUBE LIGHT	LIGHT	FAN	AC	POWER SWITCH BOARD
1	Microcontroller	BG-16	8	25	1	4	2	1	1	6	2	NIL	4	NIL	26
2	Signal Processing Lab	CP-12	14	28	2	2	1	1	1	2	8	NIL	4	2	36
3	EDC LAB	BF-14	10	33	2	2	2	1	1	8	4	NIL	4	NIL	10
4	Digital Electronics Lab	BS-04	7	30	2	2	2	1	1	8	4	NIL	4	NIL	11
5	EED LAB	BG-04	8	30	2	3	2	1	1	6	2	NIL	4	NIL	08
6	Microprocessor Lab	BG-16	7	30	2	2	2	1	1	8	4	NIL	4	NIL	11
7	Communication Lab	BG-15	7	28	2	3	3	1	1	6	2	NIL	4	NIL	02
8	Signal & Image Processing Lab	CP-13	14	28	2	2	1	1	1	2	8	NIL	4	NIL	36
10	Optical Comm.Lab	BG-01	10	30	1	2	2	1	1	7	6	NIL	6	NIL	10
11	Analog Electronic	BF-14	11	30	1	1	3	1	1	6	2	NIL	4	NIL	7
12	Digital Electronics	BG-16	8	25	1	4	2	1	1	6	2	NIL	4	NIL	18
13	Microwave Engg. Lab	BS-08	10	25	1	2	2	1	1	4	2	NII	4	NIL	7
14	Power Electronics Lab	BS-15	9	25	1	2	1	1	1	5	6	NIL	6	NIL	06
15	RF Simulation Lab	Cp-14	14	33	1	1	1	2	1	4	8	NIL	4	2	16
16	EMI lab	BG-05	11	30	1	1	3	1	1	6	2	NIL	4	NIL	7
17	Antenna and wave propagation Lab	BG-01	10	30	1	2	2	1	1	7	6	NIL	6	NIL	10
18	VLSI Dessign Lab	Cp-12	14	28	2	2	1	1	1	2	8	NIL	4	2	36
19	5G Communication Lab	CP-14	14	33	1	1	1	2	1	4	8	NIL	4	2	16
20	IOT Lab	BS-08	10	25	1	2	2	1	1	4	2	NII	4	NIL	7

Fig 6.3.1 Sample Lab Photos For Ambience

6.4 Project laboratories (5) Total Marks 5.00

Institute Marks : 5.00

The Electronics and communication Engineering Department is equipped with a **dedicated Project Laboratory** designed to support both academic and research-oriented projects. This laboratory serves as a vibrant hub for students, facilitating project development, and presentations. Its contribution to practical and experiential learning has been significant, ensuring that students are industry-ready and capable of addressing real-world engineering challenges.

This state-of-the-art facility includes:

Project lab	Area in SQM	Facilities	Important Equipments
Project lab	25.6 x 38.7	Wifi, fans, charts, project models	PCB Artwork Film maker, U.V. Exposure Unit, Etching Machine,PhotoResistDip CoatingMachine, Dye-Developing Machine, RTM-10/Dryer/ Roller tinning Machine, PCB Drilling Machine
Centre of excellence in embedded systems	28.8 x 25.7	Projector ,AC, fans, project models, Tables, revolving stools, personal computer, White Board	AVR development kit, Atmega 16 development Board,Atmega8 development Board, Arduino UNO, Arduino Mega, Raspberry Pi 3 B, Stepper motor with Driver board, DC motor, 150 RPM BO motor, L298P motor driver, RFID Reader, RF modules, Big Sound microphone module,GSM,GPS,laser diode emitter, Soil moisture sensor module, Ultrasonic Sensor Module HC-SR- 04 or compatible, IR (transmitter)/ receiver,
Computer lab	25.8 x 26.6	AC, fans, wifi	Computer (intel dual core e5200 2.5 ghz, intel® G33/31 chipset, 1 X 1 GB DDR2, 320 GB SATA, BENQ TFT-17"DVDRW, COMPAQ keyboard, COMPAQ USB Optical Mouse) Total No-28(20748*28)

Centres of Excellence:

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

Centre of Excellence in Embedded Systems: Focus on the practical use of embedded systems, including working with sensors, creating prototypes, building systems, and connecting sensor networks. This often involves combining hardware and software, with topics like real-time processing, IoT, and automation.

Additional Laboratories Contributing to Projects and Research:

Research Laboratories

S.No	Name of Research Lab	Area of Research	Utilization of Research
1	Embedded and IOT Lab	Robotics, Drones, Embedded system and IOT	Aid in Class room teaching, Practical Exposure, Hands -on training on thrust technologies, Certification, Nation wide exposure through project Expo
2	Antenna Research Lab Software (NEC2 Open source)	Development and optimization of new antenna, Ultra Wide band Antenna, Reconfiguration of Antenna.	Aid in Class room teaching, Practical Exposure, Hands -on training on thrust technologies,Innovation , Products and Research Paper Publications
3	MATLAB	Signal Processing, Energy Harvesting, Digital Signal Processing, EV Simulation	Aid in Class room teaching, Practical Exposure, Skill development training, Hands -on training on thrust technologies,Innovation , Products and Research Paper Publications, Birding the gap between Industry and Academia.

4	VLSI Lab (Microwind Open Source Software)	Miecroelectronics, Low power Circuits	Upskiling, Aid in Class room teaching, Practical Exposure.Skill development training, Hands -on training on thrust technologies,Innovation , Research Paper Publications, Birding the gap between Industry and Academia.Training workforce semicon nation
5	RF Simulation Lab (HFSS open source)	RF, Mircowave, Antenna	Aid in class room teaching, Birding gap between Industry and Academia, Research paper Publication, Certification, Upskiling

Fig 6.4.1 centre of excellence

Project laboratories; Utilization:

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

Student Projects: Facilitates the development of innovative and practical project models. Provides resources and guidance for undergraduate project work. Supports interdisciplinary research projects in electronics engineering.

Industry Collaborations: Enables joint projects and research initiatives with industry partners. Promotes the adoption of sustainable and advanced techniques through industry-sponsored programs.

Offers students exposure to real-world challenges and solutions in collaboration with industry experts.

Hands-on Practices and Field Application Knowledge :

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

Skill Development, Project Exhibiton and Seminars:

Enhances students' skills in designing, testing, and analyzing engineering solutions. Promotes proficiency in software tools and robotics through the Centre of Excellence in embedded systems.

Regularly hosts project exhibition and expert lectures to keep students updated on the latest industry trends and technologies.

Sustainability Research:

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

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

Fig 6.4.2 Glimpse of project exhibition

6.5 Safety measures in laboratories (10) Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Electronics Devices Lab	• Familiarize yourself with the experiment manual and circuit diagrams before entering the lab. • Ensure the workstation is clean, organized, and free from unnecessary items. • Handle sensitive components like MOSFETs and ICs with care to avoid electrostatic discharge (ESD). • Use a soldering iron with a stand and work on a heat-resistant surface.
2	Digital System Design Lab	• Handle ICs and micro controllers with care to avoid physical damage. • Ensure correct orientation and pin alignment when inserting ICs into sockets. • Verify power supply requirements for digital components (e.g., 3.3V, 5V) before powering the circuit.
3	Signal Processing Lab	• Use licensed versions of software such as MATLAB to ensure proper functionality. • Save your work regularly to avoid data loss. • Use appropriate algorithms to avoid incorrect or potentially unsafe outputs.
4	Computer Programming Lab-I	• Ensure familiarity with the programming language or development environment used in the lab (e.g., Python, C, Java). • Handle computers, keyboards, mice, and monitors gently to avoid physical damage. • Ensure all cables are neatly arranged to prevent tripping or accidental unplugging. • Use peripherals (e.g., USB drives) properly, and safely eject devices before removing them.
5	RF Simulation Lab	• Use appropriate boundary conditions and meshing techniques to ensure accurate simulations. • Avoid running excessively large simulations without verifying the input settings to prevent system crashes or overheating. • Familiarize yourself with the software's error-handling and troubleshooting features
6	Digital Signal Processing Lab	• Inspect DSP kits, power supplies, and other hardware for any visible damage. • Ensure all devices are properly grounded to avoid electrical shocks. • Use correct power adapters and cables for DSP kits and peripheral devices.
7	Microwave Lab	• Avoid direct exposure to microwave radiation, as it can cause burns or damage to tissues. • Use wave guide terminators or absorbers to confine radiation within the system. • Always keep a safe distance from open wave guides or antennas when the equipment is powered on. • Handle wave guides, coaxial cables, and other components with care to avoid damage • Use connectors and adapters that match the equipment's frequency and power ratings. • Avoid bending or kinking coaxial cables to maintain signal integrity.
8	VLSI Design Lab	• Use licensed software tools like Xilinx to avoid legal or security issues. • Save your work frequently and back it up to an external drive or cloud storage. • Ensure antivirus software is updated to prevent malware infections.
9	AD communication Lab 5G	• Use licensed versions of software such as MATLAB ensure proper functionality. • Save your work regularly to avoid data loss. • Use appropriate algorithms to avoid incorrect or potentially unsafe outputs.
10	Optical Communication Lab	• Wear appropriate protective eyewear: Always wear safety goggles that are rated for the wavelength of the lasers being used. Different lasers require different types of protection. • Avoid direct eye exposure: Never look directly at a laser beam, even if it is reflected from a surface. • Use beam enclosures or barriers: Whenever possible, use optical enclosures or barriers to keep the laser beam contained within a specific path. • Label laser equipment: Ensure all laser equipment is clearly labeled with power output, wavelength, and any other relevant safety information.
11	Analog and Digital Communication Lab	• Oscilloscopes: When using oscilloscopes to observe signals, make sure the probes are grounded properly to avoid short circuits. • Signal Generators: Always verify the frequency range and amplitude settings on signal generators before connecting them to the circuit. • Antenna Use: When using antennas for AM/FM experiments, ensure they are correctly positioned to avoid accidental contact with high-voltage or high-current areas. • Transmission Lines: Avoid sharp bends in coaxial cables and ensure connectors are tight to prevent signal loss and reflection

12	Analog Circuits Lab	• Handle sensitive components like MOSFETs and ICs with care to avoid electrostatic discharge (ESD). • Use a soldering iron with a stand and work on a heat-resistant surface • Initial Voltage Settings: Before connecting a signal generator to the circuit, check the output voltage and frequency to ensure they are within safe levels for the circuit under test. • Monitor Temperature: Watch for overheating of components, especially resistors or transistors, and turn off the power if the components become too hot. • Safe Probing: Use insulated test leads when probing live circuits, and avoids contact with other conductive materials.
13	Electronics Measurement & Instrumentation Lab	• Voltage and Current Settings: Always check the voltage and current settings on power supplies before turning them on, especially when testing sensitive circuits. • Limit Current: Set a current limit on power supplies to prevent excessive current flow that could damage the circuit or equipment. • Proper Storage: Store all instruments in their designated locations after use, ensuring that they are free from dust and debris. • Component Safety: Store sensitive components like ICs and microchips in anti-static bags to protect them from electrostatic discharge (ESD).
14	Micro controller Lab	• Program with Caution: Ensure that you are using the correct programming software and tools for the specific micro controller. • Check Code: Always check the code for errors and ensure that no infinite loops or wrong logic are present that could cause hardware damage or malfunction during execution. • Use Correct Power Source: Micro controllers generally require either a USB connection for development boards or an external DC power supply. Verify the polarity and voltage level before connecting the micro controller. • Proper Handling of Micro controllers: Handle micro controllers by the edges or use a socket to avoid damaging pins. Avoid touching the pins directly, as moisture and static can harm the device. • Avoid Overheating: Do not apply excessive current or voltage to micro controllers and sensors. Make sure that all components are rated for the expected operating conditions. • Ensure Secure Connections: Verify that all jumper wires, breadboard connections, and peripheral connections are secure to avoid loose connections that could lead to faulty operation.
15	Computer Network Lab	• Power Off Equipment Before Adjusting: Before making any adjustments to cables, routers, or switches, always turn off the equipment to avoid electrical shocks or accidental short circuits. • Check Power Ratings: Ensure that the power ratings of the networking equipment match the power supply specifications to avoid overloading or damaging devices. • Grounding and Surge Protection: Ensure that all devices, especially high-power ones like servers, are grounded properly. Use surge protectors to protect network equipment from power spikes or surges. • Proper Handling of Power Cords: Handle power cords carefully, and avoid pulling them out by the cable itself. Ensure cords are not pinched or exposed to potential damage.
16	Antenna and wave propagation Lab	• Keep a Safe Distance from Radiating Antennas: High-power antennas, especially when transmitting at high frequencies, can emit dangerous radiation. Maintain a safe distance as specified by safety guidelines (usually several meters depending on the power level). • Turn Off Transmitters When Not in Use: Always turn off RF transmitters when not in use, or if you are adjusting or replacing antennas, to avoid unnecessary exposure to RF radiation. • Handle Antennas Carefully: Antennas and their associated components (e.g., elements, connectors) can be fragile. Handle antennas with care to prevent damage.
17	Electronics Design Lab	• Proper Tool Handling: Handle all tools, such as soldering irons, wire strippers, and multi meters, with care. Never leave a hot soldering iron unattended. • Secure Components: When designing circuits, ensure all components (e.g., resistors, capacitors) are securely mounted on the breadboard or PCB to avoid accidental disconnections or short circuits.

18	Power Electronics Lab	• Multimeter and Oscilloscope Safety: When using multimeters, oscilloscopes, or other test equipment, make sure the equipment is set to the appropriate voltage and current ranges before connecting it to the circuit. • Avoid Probing Live Circuits: When testing live circuits, use proper safety probes and avoid touching the components directly with your hands or other conductive objects. • Monitor Temperature: Keep an eye on the temperature of components during operation, especially when dealing with power transistors or power resistors. Use heat sinks or fans to prevent components from overheating. • Use Adequate Ventilation: Power electronics circuits can generate significant heat, so ensure that the lab is well-ventilated, especially when running high-power experiments.
19	Internet of Things (IOT) Lab	• Inspect Components for Damage: Before connecting any components to the circuit, inspect them for visible damage, such as broken leads, damaged ICs, or burnt connectors. • Use Proper Tools: Use insulated tools to handle live components, especially when connecting wires or adjusting components while the system is powered. • Handle with Care: When working with micro controllers (e.g., Arduino, Raspberry Pi, ESP8266, ESP32), avoid physical stress or bending of pins, as this can break the micro controller or lead to malfunction. • Ensure Proper Grounding: Proper grounding is crucial in IoT circuits. Always check the ground connections of all devices, especially when interfacing sensors, actuators, and micro controllers. • Avoid Overheating: If your micro controller or any connected component is overheating, turn off the power and investigate the cause (e.g., short circuits, incorrect wiring, or overclocking).
20	Project-I	• Avoid Environmental Damage to Sensors: Many sensors are sensitive to extreme environmental conditions. Keep them in a stable environment (e.g., temperature, humidity) to avoid calibration errors or failures. • Clean and Organized Workspace: Keep the work area neat and organized to minimize the risk of accidents. Ensure that no tools, materials, or wires are left on the floor where they could pose a tripping hazard. • Avoid Clutter: Avoid cluttering the workspace with unnecessary items to maintain focus and prevent accidents.

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- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.71	1.95	Attainment level is 71.95. The achievement indicates that while a majority of students demonstrate a satisfactory understanding of engineering fundamentals, there is still significant scope for improvement to reach the desired benchmark
Action Taken:1. Remedial Classes: Special remedial classes and core courses were organized to strengthen the core engineering knowledge base like embedded system and electric vehicles designing and concepts. 2. Peer Learning Initiatives: A structured peer-to-peer learning program was introduced in various project exhibition organized by IEEE chapter and Xananoids club, where higher-performing students mentor their peers in critical subjects. 3. Increased Focus on Practical Learning: Additional lab sessions beyond the time table schedule and mini-projects in centre of excellence in ESD, were integrated to improve the practical application of theoretical concepts. 4. Faculty Development: Faculty Development Program from NITTTR based on Research Methodologies for Science, Management and Engineering, IoT, AI applications and ICT Tools for smart educators for faculties and lab technician were conducted to adopt innovative teaching methodologies aimed at strengthening conceptual clarity among students			
PO 2 : Problem Analysis			
PO 2	2.47	1.79	The attainment level is recorded at 72.46%. Analysis shows that while students demonstrate a good understanding of theoretical concepts, there is a need to strengthen their analytical skills, critical thinking, and practical application of knowledge in complex problem-solving scenarios
Action Taken: 1. Enhanced Practical Exposure: Increased the number of problem-based learning (PBL) sessions and case study analyses within core courses. 2. Workshops and Seminars: Organized targeted workshops focusing on analytical techniques, design thinking, and engineering problem-solving skills. 3. Mentorship Programs: Initiated peer-to-peer mentoring and faculty-guided mini and major projects to encourage deeper understanding and application of complex concepts. 4. Continuous Assessment: Strengthened formative assessments like quizzes, assignments, and tutorials focused on analytical problem-solving to provide timely feedback. The department organized IEEE coding 3.0 to motivate students towards thinking about problem analysis. 5. Industry Interaction: Increased industry expert sessions and industrial visits to Bhamashah Tecnohub Jaipur and CEERI Pilani to expose students to real-time problem-solving environments.			
PO 3 : Design/development of Solutions			
PO 3	2.30	1.67	The attainment level of PO3 for the ECE branch is recorded at 72.60%. For further improvement- Feedback from course coordinators and external evaluators suggests that students are able to conceptualize solutions but sometimes face challenges in optimizing designs or integrating real-world constraints (like cost, environmental sustainability, or safety considerations).
Action Taken: 1.Introduced mini-projects in xananoids club like Robotic Hand and Humanoid robot and design-based assignments in lecture and lab classes. 2. Conducted workshops and events like Formula zero, Game of Drones, Robo Soccer on design tools and design thinking. 3. Increased industry interactions through expert talks and mentorship. Organized Expert Talks on “Think Without Ink”, and expert talk by Lt. Col. Rohit Mishra to motivate students to increase industry interactions. 4.Promoted peer-to-peer learning via JECRC-SIH 2024 and project exhibition organized by IEEE and Xananoids Club . 5. Revised evaluation rubrics to emphasize innovation and sustainability.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.07	1.48	Attainment level is 71.49. Analysis of course outcomes (COs) mapped to PO4 suggests that students demonstrate good theoretical knowledge but face challenges in applying investigative and research-based approaches effectively, particularly in complex and multidisciplinary scenarios. Practical exposure to experimental setups, research methodology, and advanced analytical tools appears to require further strengthening.
Action Taken: 1. Workshops and Seminars: Organized hands-on workshops on research methodologies, data analysis tools (such as MATLAB, Python, etc.), and National Conference RACON 2025 for technical paper writing. 2. Project-Based Learning (PBL): Introduced more project-based assignments and activities like Project exhibitions IEEE, Game of Drones within core subjects to encourage students to apply research techniques to solve real-world problems. 3. Collaboration with Industry: Facilitated industrial internships and collaborative projects with R&D organizations to give students real-world investigative exposure. 4. Faculty Development: Conducted training sessions for faculty members to incorporate inquiry-based and project-based teaching methodologies.			
PO 5 : Modern Tool Usage			
PO 5	2.07	1.51	The attainment level of Program Outcome 5 has been recorded at 72.94%. While this shows that a majority of the students are meeting the expected competency level, the achievement is slightly below the desired benchmark of 70%. This indicates a scope for improvement in hands-on proficiency with modern tools, simulation software, and embedded platforms among the students.
Action Taken: 1. Organized additional hands-on workshops and training sessions on industry standard embedded tools, simulation software (like MATLAB, Xilinx, LabVIEW), and IoT development kits. 2. Project-Based Learning: Integrated more mini-projects and hardware-based assignments into the curriculum to encourage practical application of modern tools. 3. Industry Interaction: Invited industry experts to deliver guest lectures and conduct live demonstrations of emerging embedded and IoT technologies. 4. Certification Programs: Motivated students to enroll in online certification programs (like NPTEL, Coursera, edX) related to embedded systems, IoT, and design tools to strengthen technical exposure. 5. Peer Learning Initiatives: Formed student-driven technical groups to promote peer-to-peer learning, where students can collaboratively explore and practice with advanced tools.			
PO 6 : The Engineer and Society			

PO 6	1.23	0.89	The attainment level for is recorded at 72.35%, indicating that students have a moderate understanding of the societal, health, safety, legal, and cultural issues related to engineering practice. Although the attainment is above the acceptable threshold, there is scope for improvement to reach higher levels of awareness and responsibility among students. Feedback from assessments and project evaluations suggests that students require more exposure to real-world societal and ethical challenges related to engineering.

Action Taken: 1. Students are motivated to participate in social activities such as Soch, Suhasini, 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. 2. Active participation of students in different technical, non-technical and extra-curricular activities organized by IEEE and Xananoids Club of students. 3. Organizing the industrial visits to Bhamashah Techno Hub & CEERI Pilani are like to enhance the knowledge and observations of students to deal in real time situations.

PO 7 : Environment and Sustainability

PO 7	0.95	0.66	The attainment level for PO7 is 69.47%, which is above the threshold but indicates scope for improvement. Students demonstrate a moderate understanding of environmental and sustainability principles. Some gaps were observed in the application of sustainable practices and environmental impact assessment during project work and technical activities.

Action Taken: 1. Increased emphasis on environment-related case studies and examples during lectures and tutorials by Fruitful JECRC Team regularly. 2. Incorporated sustainability-focused mini-projects and assignments in core and elective subjects. (Like Wind Energy, Electric Vehicles and Solar Energy). 3. Organized guest lectures and expert talk by Lt. Col. Rohit Mishra on green technologies. 4. Encouraged participation in environment-related technical competitions (Rennovator Event, Project Exhibition, Game of Drones etc.) 5. 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 combustion based engines to EV's. 6. Planned to introduce a certificate course or seminar series on "Green Electronics and Sustainable Technologies" in the next academic session.

PO 8 : Ethics

PO 8	1.27	1.05	The attainment level for PO8 is 82.67%. This indicates that a significant proportion of students are aware of professional and ethical responsibilities. However, there is still room for further strengthening the students' ability to consistently apply ethical principles in complex engineering situations, research activities, and professional practices.

Action Taken: 1. Curriculum Integration: Enhanced the emphasis on ethical practices by including dedicated modules and case studies related to professional ethics in core and elective courses. 2. Awareness Programs: Conducted seminars and expert sessions on engineering ethics (by JECRC-Spiritual Research Cell) , intellectual property rights (IPR) (by JIC), and the social responsibilities of engineers (by Zarurat, Suhasini, Soch Aashayen, NSS). Organizing the delivery related to ethics through the human values courses in their curriculum and during the mentoring session of the students. 3. Project Evaluation Criteria: Included ethical considerations explicitly in the assessment rubrics for final-year projects. 4. Workshops and Training: Organized workshops on ethical decision-making, conflict resolution, and responsible innovation to sensitize students to real-world ethical dilemmas. (JECRC-MUN, Toastmasters)

PO 9 : Individual and Team Work

PO 9	1.85	1.45	The attainment level for PO9 is 78.37%. This indicates that students possess a good ability to function effectively both as individuals and as members or leaders in diverse teams. However, minor gaps were noted in areas such as team coordination, conflict resolution, and leadership skills during project executions, suggesting that further strengthening of teamwork dynamics is needed.

Action Taken: 1. Curriculum Integration: Group activities, team-based assignments (in IEEE events like chess and online gaming events), and collaborative projects were emphasized across various courses to nurture team-building skills in CoE and Xananoids and Moonrider club. 2. Skill Development Initiatives: Conducted workshops and training sessions on leadership skills, conflict management, and effective team communication in JECRC MUN and JECRC Toastmasters. 3. Project Structuring: Capstone projects and mini-projects were restructured to include clearly defined team roles, responsibilities, and regular peer evaluations in Xananoids club. 4. Extracurricular Engagement: Students were encouraged to participate in technical clubs (Xananoids & Moonriders), student organizations (IEEE), and inter-collegiate competitions to further enhance teamwork experience (BITS Pilani, IIT Roorkee etc.). 5. Continuous Monitoring: Mentors and project guides provided structured feedback on teamwork effectiveness and individual contributions during Major project evaluations.

PO 10 : Communication

PO 10	1.80	1.43	The attainment level for PO10 is 79.44%, indicating that a significant proportion of students are able to communicate effectively on complex engineering activities. Students demonstrate a good ability to present technical ideas, write reports, and interact professionally; however, there remains scope for enhancing advanced technical communication skills, such as detailed technical documentation, research paper writing, and effective oral presentations in professional settings.

Action Taken: 1.Curriculum Integration: Integrated communication skill development modules into core subjects and laboratory courses (Viva and blackboard presentations) technical presentations, and documentation. 2. Workshops and Training: Conducted dedicated workshops and training programs on Group discussion, Mock Interviews and Resume writing in Campus Recruitment Training CRT. 3. Project Work Enhancement: Emphasized structured and formal communication during project presentations and viva-voce sessions, with detailed rubrics for assessing oral and written communication. 4. Student Activities: Encouraged active participation in paper presentation contests, technical debates (IEEE, MUN, Toastmasters), group discussions, and JECRC-Model United Nations (MUNs) to sharpen verbal and non-verbal communication skills.

PO 11 : Project Management and Finance

PO 11	1.48	1.08	The attainment level for PO11 (Project Management and Finance) in the Electronics and Communication Engineering (ECE) branch stands at 72.97%. This indicates that while a considerable number of students demonstrate basic competency in project management and financial principles, there remains significant scope for improvement, particularly in the areas of cost estimation, budgeting, resource management, and financial analysis related to engineering projects. Student feedback and performance analysis suggest that deeper exposure to real-world project management practices and financial planning is required.
Action Taken: 1. Curriculum Strengthening: In MEFA Subject (II year) and Integrated project management and financial planning topics into mini-projects and major project guidelines. 2. Industry Interaction: Organized guest lectures and interactive sessions with industry professionals specializing in project management and financial operations. 3.Hands-on Practice: Encouraged the use of project management tools (MS Project) during project documentation and execution. 4. Motivating students to actively participate in placement drives hosted by the institute, opening doors to valuable opportunities.			
PO 12 : Life-long Learning			
PO 12	2.31	1.67	The attainment level for PO12 is observed to be 72.29%. While a significant portion of students have demonstrated an understanding of the need for continuous learning to adapt to technological advancements, the attainment is slightly below the expected benchmark, indicating that more initiatives are needed to foster self-motivated learning habits and engagement with emerging technologies.
Action Taken: 1. Curriculum Enrichment: Integrated self-learning components such as open-ended assignments, research-based learning activities, and use of Massive Open Online Courses (MOOCs) through platforms like NPTEL, Coursera, and edX. 2. Skill Building Workshops: Conducted sessions on emerging technologies (IEEE Coding 3.0, Mentorship program by Marvelkart & Xananoids) to encourage students to pursue additional learning beyond the curriculum. 3. Awareness Programs: Organized seminars on career planning, higher education opportunities, certifications, and skill-upgradation programs to the importance of lifelong learning. 4. Mentorship Initiative: Strengthened faculty mentoring to guide students in identifying their individual learning paths and setting personal development goals			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Ability to develop knowledge of Embedded Systems and its application in Automation.			
PSO 1	1.28	1.05	The attainment level for PSO1 is recorded at 82.03% This indicates a good level of proficiency in the understanding and application of embedded systems principles, with students demonstrating an adequate grasp of hardware-software integration, microcontroller programming, and system-level design in embedded applications.
Action Taken: 1. Curricular Revisions: Increased emphasis on learning of advanced embedded systems topics, including real-time operating systems (RTOS), Internet of Things (IoT) integration in core subjects. 2. Practical Exposure: Enhanced hands-on training in embedded system design through mini-projects in Xananoids club and CoE ESD, Microcontroller laboratories, and workshops focusing on industry-relevant tools and platforms. 3. Collaborations with Industry: Established partnerships with Adhock Network Pvt. Ltd. to facilitate internships and project work focused on embedded systems development, offering students exposure to real-world applications and cutting-edge technology. 5. Skill Development: Conducted specialized certification programs on Embedded system to improve technical expertise in embedded system software and hardware. 6. Future Plans: Expansion of research-based projects in advanced embedded systems applications such as automotive systems, robotics, and smart devices, aimed at bridging theoretical knowledge with practical innovations in next academic sessions.			
PSO 2 : Ability to develop the concept of Electric Vehicle (EV) to meet Industry Applications.			
PSO 2	1.05	0.73	The attainment level for PSO2 is recorded at 69.52%.While this indicates a moderate level of attainment, it suggests that students have a basic understanding of electric vehicle concepts, including the integration of electronic systems. A gap was observed in practical exposure to real-world EV technologies, specifically in areas related to battery management systems, power electronics, and vehicle control systems.
Action Taken: 1. Curriculum Enhancement: Integrated specialized content on Electric Vehicle (EV) technology into the curriculum, covering topics such as SMPS, Choppers Inverters, Rectifiers, battery technology in power electronics (VI sem). 2. Hands-On Learning: Increased the focus on laboratory sessions and project-based learning where students are exposed to EV-related components and technologies, such as electric motors, charging stations, and battery management systems. 3. Industry Collaboration: Established collaborations with MG Motors in the EV sector to offer students practical insights and exposure to real-world applications of EV technology. Guest lectures and internships with EV manufacturers have been encouraged. 4. Workshops and Seminars: Conducted workshops and seminars with industry experts on the future of electric mobility, advancements in EV technologies, and the role of electronics and communication in EVs.			

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 an **Internal Quality Assurance Cell (IQAC)**, where each department is responsible for submitting relevant documentation regularly. Departments serve as the cornerstone of any academic institution, acting as the primary hubs for essential functions such as teaching, research, and community service. By emphasizing the continuous improvement of program quality and ensuring that graduate attributes align with departmental goals, **academic audits** play a pivotal role in evaluating and enhancing the overall efficiency and impact of departmental operations.

The academic audit primarily focuses on the following key areas:

1. **Defining Clear Course and Program Outcomes:** Establishing well-articulated course and program outcomes is fundamental to academic success. Designing effective and engaging teaching-learning methodologies ensures better student participation and comprehension.
2. **Outcome-Based Student Assessment:** Implementing assessment strategies that are aligned with defined outcomes enables accurate measurement of student learning. This data-driven approach supports continuous improvement in academic delivery and student achievement.
3. **Ensuring Quality Education Delivery:** The audit also evaluates how departments incorporate major academic and non-academic activities—such as research initiatives, co-curricular and extracurricular programs, and community engagement—to support the attainment of program outcomes and enhance the overall educational experience.

Objectives of the Academic Audit

1. To strengthen and continuously improve the teaching-learning process, thereby ensuring the consistent delivery of high-quality technical education across all academic programs and departments.
2. To monitor and evaluate the operational efficiency and effectiveness of various academic and administrative functions associated with technical education, ensuring they align with institutional goals and regulatory standards.
3. To establish a structured feedback mechanism, where students assess the performance of faculty members, and the collected insights are used not only for faculty development but also for the periodic review and enhancement of the curriculum, teaching methodologies, and overall academic practices.

1. Internal Audit

The **Internal Academic Audit** is carried out by faculty members from within the department, but independent of the auditees area of responsibility to ensure objectivity and impartial review. A detailed schedule for the audit is prepared in advance, and the designated auditors and auditees are informed accordingly.

The internal audit process is structured to assess the overall academic and administrative functioning of the department. The audit covers the following key parameters:

S. No.	Observations
1	Verification of all academic processes including circulars, notices, and minutes of departmental meetings
2	Scrutiny of Course Files and Laboratory Files maintained by faculty
3	Review of Program Outcomes (POs), Program Educational Objectives (PEOs), Course Outcomes (COs), and Program Specific Outcomes (PSOs) – along with stakeholder feedback
4	Validation of CO-PO and CO-PSO mapping for all courses
5	Analysis of student feedback regarding teaching-learning processes
6	Evaluation of industry feedback on curriculum and graduate preparedness
7	Analysis of alumni feedback for continuous program improvement
8	Planning and effectiveness of remedial lectures for academically weaker students
9	Identification and tracking of advanced learners
10	Initiatives taken to support both slow and advanced learners
11	Details of Add-on / Certificate Courses offered to enhance employability
12	Records of expert talks, seminars, and guest lectures conducted
13	Engagement in social, ethical, and moral value-based activities
14	Data on students pursuing higher education
15	Records of student internships and industrial training programs
16	Evaluation of final year student projects, including innovation and societal impact
17	Sample verification of maintained academic records and supporting documentation
18	Archival files including previous student records and examination data
19	Departmental budget utilization and expenditure records
20	Status and details of departmental library resources
21	Records of Faculty Development Programs (FDPs), research publications, and other scholarly activities
22	Documentation of curricular and co-curricular activities
23	Review of appraisal and performance evaluation for teaching and non-teaching staff

This thorough audit mechanism enables the department to maintain academic quality, ensure regulatory compliance, and continuously improve processes in alignment with institutional and accreditation goals.

2. External Audit:

The external audit process is a critical quality assurance mechanism aimed at assessing the effectiveness and continual improvement of academic and administrative functions within the department. The audit panel comprises both internal and external experts, ensuring objectivity and comprehensive evaluation.

An audit schedule is meticulously prepared in advance, clearly communicating the dates and expectations to both the auditors and the auditees (faculty and staff of the department).The external audit is carried out based on the following well-defined criteria and processes:

Criterion	Audit Parameters
1. Curriculum	-Curriculum design process and stakeholder involvement -Relevance and comprehensiveness of content -Validation and approval mechanisms - Integration of Entrepreneurship Development Cell (EDC) activities - Logical credit distribution and course mapping
2.Curriculum Delivery	-Pedagogical methods and usage of modern teaching aids -Adoption and development of e-learning resources -Project-based learning and assessment techniques -Internal assessment components and their distinctiveness -Student academic support through remedial coaching -Parent-teacher interactions to monitor student progress - Student feedback mechanisms and actions taken thereon
3. Faculty Profile	-Completed and ongoing research/consultancy projects -Participation in seminars, conferences, and symposia -Research publications in reputed journals - Engagement in Faculty Development Programs (FDPs), workshops, and training - Development of digital learning resources and content creation
4. Student Profile	- Demand ratio (Applications received vs. sanctioned intake) - Student participation in co-curricular and extra-curricular activities - Exposure through study tours, industrial visits, exhibitions, internships, and training programs
5. Infrastructure	- Availability and adequacy of classrooms and laboratories - ICT-enabled teaching-learning facilities and maintenance status
6.Departmental Activities	- Strategic collaborations through MoUs, consultancy services, and institutional partnerships - Organization of expert lectures, seminars, workshops, and conferences - Outreach through extension activities and industry-academia linkages - Dissemination of departmental progress through newsletters and magazines - Student placement and career development initiatives

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.

Infrastructure Adequacy and Upgradation

- Regular evaluation of the availability and functionality of laboratory equipment as per the latest curriculum and academic requirements.
- Timely procurement and upgradation of instruments and software to meet evolving academic and research demands.
- Alignment of laboratory resources with industry practices to facilitate skill-based learning and employability.

Lab Manuals and Standard Operating Procedures (SOPs)

- Availability of updated and student-friendly lab manuals for all courses.
- Strict adherence to SOPs to ensure consistency, safety, and quality in lab practices.
- Documentation of experimental outcomes and observations to promote scientific rigor.

Maintenance and Calibration

- Preventive and corrective maintenance schedules for lab equipment, monitored through maintenance logs.
- Periodic calibration of instruments to maintain accuracy and reliability in experimentation.
- AMC (Annual Maintenance Contracts) where applicable, to ensure uninterrupted lab operations.

Health, Safety & Environment (HSE) Compliance

- Regular safety audits to assess and mitigate hazards.
- Availability of safety equipment such as fire extinguishers, first-aid kits, signage, and emergency protocols.
- Periodic training for faculty, staff, and students on lab safety and emergency procedures.

Utilization and Effectiveness

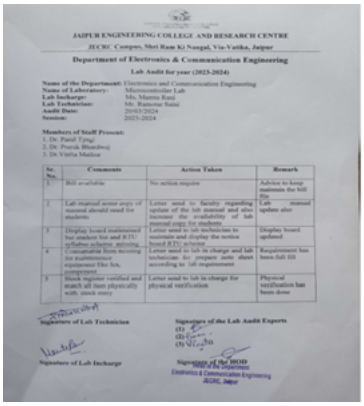
- Analysis of lab utilization logs to ensure optimal usage by students and faculty.
- Review of lab-based project work, mini-projects, and practical assignments to ensure effective application of theoretical knowledge.
- Continuous feedback collection from students and faculty on lab sessions to identify gaps and improvement areas.

Innovation and Best Practices

- Encouragement of innovation through lab-based competitions, student-led experiments, and interdisciplinary projects.
- Documentation and dissemination of best practices across departments.
- Integration of virtual labs and simulation tools for enhanced experiential learning.

Corrective Actions and Continuous Improvement Initiatives

- Identification of non-conformities and implementation of corrective actions based on lab audit findings.
- Monitoring the impact of improvements and recording measurable outcomes (e.g., improved student performance, reduced equipment downtime).
- Periodic review meetings involving lab in-charges, HOD, and quality assurance team to evaluate progress



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

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

Department of Electronics & Communication Engineering

Lab Audit for year (2023-2024)

Name of the Department: Electronics and Communication Engineering
Name of Laboratory: Microcontroller Lab
Lab Incharge: Ms. Mamta Rani
Lab Technician: Mr. Ramotar Saini
Audit Date: 20/03/2024
Session: 2023-2024

Members of Staff Present:
1. Dr. Parul Tyagi
2. Dr. Pravin Bhardwaj
3. Dr Vidhu Mathur

Sr. No.	Comments	Action Taken	Remark
1	Bill available	No action require	Advice to keep maintain the bill file
2	Lab manual scent copy of manual should need for students	Letter send to faculty regarding update of the lab manual and also increase the availability of lab manual copy for students	Lab manual update also
3	Display board maintained but student list and RTU syllabus scheme missing	Letter send to lab technician to maintain and display the notice board RTU scheme	Display board updated
4	Consumable item missing for maintenance equipment like box, component	Letter send to lab in charge and lab technician to prepare note sheet according to lab requirement	Requirement has been full fill
5	Stock register verified and match all item physically with stock entry	Letter send to lab in charge for physical verification	Physical verification has been done

Signature of Lab Technician

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

Signature of Lab Incharge

Signature of The HOD
HOD
Department of Electronics & Communication Engineering
JECRC, Jaipur

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

Institute Marks : 10.00

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

The Training and Placement Cell at Jaipur Engineering College and Research Centre (JECRC) is a dynamic and proactive unit dedicated to empowering students for successful professional careers. With a consistent record of high-quality placements, the Cell acts as a strategic bridge between academia and industry, fostering strong collaborations with leading national and multinational organizations.

Driven by a mission to ensure career readiness and industry alignment, the Placement Cell facilitates a wide spectrum of opportunities including core industry placements, internships, industrial visits, and entrepreneurial exposure. Emphasis is placed not only on the number of placements but also on the quality of job roles, alignment with the student's field of study, and competitive compensation packages.

Strategic Training for Employability

One of the key strengths of the Cell is its comprehensive Placement Training Program, meticulously designed to enhance students employability quotient. The program covers:

- Aptitude and logical reasoning training
- Group discussions and personal interview preparation
- Technical and domain-specific skill enhancement
- Soft skills development, including communication, leadership, and teamwork

These sessions are conducted by seasoned trainers and industry professionals, ensuring that students acquire both the confidence and competence required to excel in recruitment processes.

Core Industry and Emerging Sector Engagement

JECRC maintains a strong focus on core engineering placements, with a significant percentage of students placed in their respective branches, especially in sectors such as IT, manufacturing, automotive, infrastructure, and analytics. Simultaneously, the Cell remains agile in identifying emerging career domains, including AI/ML, Data Science, FinTech, and Green Technologies, ensuring students are prepared for the jobs of the future.

Ecosystem for Entrepreneurial and Holistic Growth

Beyond conventional placement, the Cell promotes entrepreneurship and innovation through dedicated mentoring, startup incubation support, and participation in national-level competitions. Students are encouraged to pursue career paths that match their passion and potential, equipping them for both employment and self-employment.

Outcomes and Continuous Enhancement

- Strong placement ratios with increasing year-on-year trends
- Rising average and highest pay packages offered
- Robust engagement with core companies and Tier-I recruiters
- Continuous feedback mechanism to refine training strategies and align with recruiter expectations

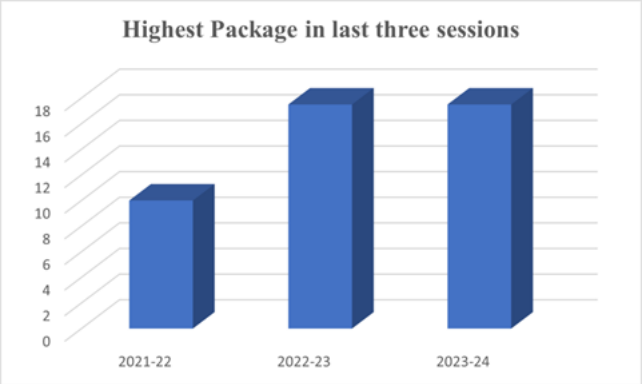
The Training and Placement Cell at JECRC is thus not merely a placement facilitator but a catalyst for transformation, enabling students to become industry-ready professionals and visionary leaders of tomorrow.

S. No.	Year	Total No of Students	Total No. of Students Placed	Percentage of Students placed
1	2021-22	159	115	72.32
2	2022-23	225	147	65.33
3	2023-24	179	143	79.88

Table 7.3.1.1 Placement Details

S. No.	Year	Highest Package
1	2021-22	10 LPA
2	2022-23	17.5LPA
3	2023-24	17.5LPA

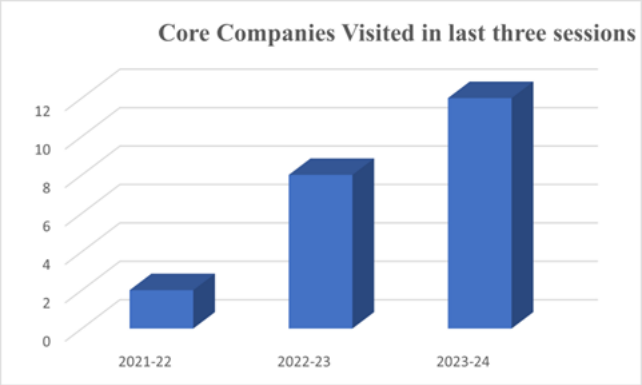
Table 7.3.1.2 Highest Package Details



Core Companies Visited in last three sessions:

S. No.	2021-22	2022-23	2023-24
1	HPE (Hewlett-Packard Enterprise)	Ericsson	Tesca
2	Wipro	Genus Power Infrastructure Ltd.	Tata Power
3		Comviva	RJ Solar
4		SSTPL	Victory EV
5		LTI Mindtree	EV Clinic
6		Harman International	Genus Power Infrastructure Ltd.
7		HPE (Hewlett-Packard Enterprise)	LTI Mindtree
8		Spanidea Systems	L&T Technology Services
9			Hewlett-Packard Enterprise (HPE)
10			Ericsson
11			SSTPL
12			E-Oxygen

Table 7.3.1.3 Core Companies Visited



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

Year	2021-22	2022-23	2023-24
Total No. of Students Persuing Higher studies	4	4	1

Table 7.3.2 Higher Studies

S. No.	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
1	2021-22	0	0	0	0
2	2022-23	0	0	0	0
3	2023-24	1	1	0	0
	Year	**Highest GATE Score/Rank**	**Highest CAT Score/Rank**	**Highest GRE Score/Rank**	**Highest GMAT Score/Rank**
1	2021-22	0	0	0	0
2	2022-23	0	0	0	0
3	2023-24	32.0	43.35	0	0

Table 7.3.2.2 Performance in GATE, GRE, GMAT, CAT

7.3.3 Entrepreneurship:

The JECRC Incubation Centre serves as a vibrant hub for enhancing entrepreneurial spirit, creativity, and innovation among students and budding entrepreneurs. It offers a conducive environment equipped with cutting-edge infrastructure, expert mentorship from industry leaders, and pathways to funding and investment opportunities. The center actively supports innovative ventures across multiple sectors, providing end-to-end guidance—from conceptualization to the launch of viable startups. Through a series of capacity-building workshops, industry collaborations, and networking platforms, the Incubation Centre transforms promising ideas into scalable businesses. Its core objective is to inspire students to emerge as job creators rather than job seekers, thereby enriching the startup ecosystem and cultivating an entrepreneurial mindset within the JECRC community.

Year	2021-22	2022-23	2023-24
Total No. of Startups	1	5	0

Table 7.3.3 Details of Start ups

7.4 Improvement in the quality of students admitted to the program (10) Total Marks 10.00

Institute Marks : 10.00

Item		2024-25	2023-24	2022-23
National Level Entrance Examination	No of students admitted	37	39	87
JEE Mains	Opening Score/Rank	69702	66200	58350
	Closing Score/Rank	856933	712656	882119
State/ University/ Level Entrance Examination/ Others	No of students admitted	41	18	51
REAP	Opening Score/Rank	1770	230	335
	Closing Score/Rank	9045	9309	12298
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	0	0	1
Lateral Entry LEEP	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		75	72	77

8 FIRST YEAR ACADEMICS (50) Total Marks 43.60

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

Institute Marks

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 C leavin case Curre Assoc is 'No'
							CAY	CAYm1	CAYm2			
Rekha Vijay	AQJPV4495K	M.Sc	01/05/2015	physical chemistry	Assistant Professor	25/07/2012	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	
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	02/09/2011	Physical Education and Sports	Professor	28/11/2006	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	
Gajendra Kuma	BLQPS5891H	M.E/M.Tech	01/01/2006	Computer Science	Associate Professor	04/10/2006	100	100	100	Yes	Regular	
PraveenGoyal	AWIPG6475H	B.E/B.Tech	12/12/2013	Electrical Engineering	Assistant Professor	13/07/2016	100	100	100	Yes	Regular	
Shalini Kulshre	AIGPK2859R	M.Sc. and PhD	01/08/2003	Applied Chemistry	Professor	18/01/2024	100	100	0	Yes	Regular	
Rashmi Kaushi	CLMPK7282F	M.A and Ph.D	06/01/2023	English and Humanities	Assistant Professor	09/09/2019	0	0	100	No	Regular	08/11/
Hukum Chand	AXAPC7807L	M.E/M.Tech	10/02/2018	Mechanical Engineering	Assistant Professor	27/07/2012	100	0	100	Yes	Regular	
Umesh Kumar	AGHPP4837F	M.Sc. and PhD	01/03/2008	Mathematics	Professor	26/07/2003	100	100	100	Yes	Regular	
Satya Prakash	BJQPS8962K	M.E/M.Tech	07/10/2015	Mechanical Engineering	Assistant Professor	20/01/2016	100	100	0	Yes	Regular	
Ruchi Mathur	AOPPM9479L	M.Sc. and PhD	19/02/2015	Mathematics	Professor	19/07/2004	100	100	100	Yes	Regular	
Yogita Punjabi	BIPPP2666H	M.E/M.Tech	10/04/2013	Computer Science	Assistant Professor	01/08/2011	100	100	100	Yes	Regular	
Kartik Sain	GAXPS0339K	MBA	06/01/2018	English and Humanities	Assistant Professor	08/04/2021	0	0	100	No	Regular	20/09/
Ram Kishan M	ALZPM8190P	M.Sc. and PhD	30/01/2006	Physics	Professor	31/07/2013	100	100	100	Yes	Regular	
Ramesh Singh	AIQPR7416P	MBA	01/01/2016	English	Assistant Professor	25/11/2020	100	100	100	Yes	Regular	
Priyanka Shukl	FOLPS2629L	MBA	21/02/2014	English	Assistant Professor	25/11/2020	100	100	100	Yes	Regular	
Tarun Saraswa	CTQPS6068D	MBA	24/06/2014	English and Humanities	Assistant Professor	10/06/2021	100	100	100	Yes	Regular	
Dilip Prajapati	AZBPP5053C	M.E/M.Tech	27/09/2019	Mechanical Engineering	Assistant Professor	06/09/2013	100	100	100	Yes	Regular	
Nitin Chhabra	AUEPC0203F	M.E/M.Tech	20/08/2020	Mechanical Engineering	Assistant Professor	31/01/2014	100	100	100	Yes	Regular	
Avani Pareek	AUJPP4760F	M.Sc. and PhD	01/10/2020	Chemistry	Associate Professor	08/04/2021	0	100	100	No	Regular	27/06/
Ashok Singh S	ASSPS8571J	M.Sc. and PhD	22/08/2008	Mathematics	Professor	10/08/2018	0	100	100	No	Regular	16/08/
Sarita Garg	AFNPG7291R	M.Sc. and PhD	01/02/1998	Physics	Professor	15/07/2023	100	100	0	Yes	Regular	
Lalit Kumar Sh	BQSPS3044K	M.E/M.Tech	07/10/2023	Mechanical Engineering	Assistant Professor	13/08/2007	0	100	100	Yes	Regular	

Sarita Poonia	BFEPP2131M	Ph.D	14/08/2015	Mathematics	Associate Professor	29/08/2010	0	100	100	No	Regular	19/03/
Yaghvendra Ku	APKPK8239A	M.Sc. and PhD	27/09/2011	Mathematics	Associate Professor	18/01/2024	100	100	0	Yes	Regular	
Ritambhara	BTCPR2037J	M.E/M.Tech	01/07/2016	Physics	Assistant Professor	02/08/2017	0	0	100	Yes	Regular	
Hemant Bansa	APGPB2872J	M.E/M.Tech	21/09/2015	Mechanical Engineering	Assistant Professor	02/01/2017	0	100	0	Yes	Regular	
Shibu Joy	AFYPJ5494G	MBA	01/07/2007	English and humanities	Assistant Professor	20/12/2022	100	100	100	Yes	Regular	
Saroj Parihar	FFHPS5593M	MA	18/09/2018	English and Humanities	Assistant Professor	04/09/2019	0	0	100	No	Regular	10/07/
Poonam Pariha	ATYPG0718Q	Ph.D	03/10/2007	Organic Chemistry	Professor	01/08/2024	100	0	0	Yes	Regular	
Daulat Ram Be	DNIPB4571F	MCA	22/01/2021	Computer Science	Assistant Professor	05/02/2024	100	0	0	Yes	Regular	
Purnima Sharn	ANPPS4422E	ME/M. Tech and PhD	02/10/2015	Computer Science	Professor	12/02/2025	100	0	0	Yes	Regular	
Rekha Mithal	BCEPM3790G	M.Sc. and PhD	01/01/2008	Chemistry	Professor	26/02/2010	100	100	100	Yes	Regular	
Ashok Kumawa	EIXPK1981H	Ph.D	02/12/2023	Physics	Assistant Professor	29/08/2024	100	0	0	Yes	Regular	
Monika Yadav	BDGPY6763A	M.Sc	30/01/2022	Mathematics	Assistant Professor	16/08/2024	100	0	0	Yes	Regular	
Abhishek	CKZPA9205N	M.Sc	01/12/2023	Mathematics	Assistant Professor	16/08/2024	100	0	0	Yes	Regular	
Shivangi Jaisw	CTQPJ8679D	M.Sc	19/09/2019	Chemistry	Assistant Professor	24/08/2024	100	0	0	Yes	Regular	
Dilip Kumar Sa	FPYPS6815D	M.A and Ph.D	16/02/2022	English Litrature	Assistant Professor	01/03/2025	100	0	0	Yes	Regular	
Neeraj Kumar I	BSSPK1804K	M.Tech	26/04/2013	Power System	Assistant Professor	04/01/2024	100	0	0	Yes	Regular	
Barkha Shrivas	BWPPS1303G	M.Sc. and PhD	07/10/2017	Chemistry	Professor	11/09/2006	100	100	100	Yes	Regular	
Kamlesh Maha	AMVPM2110J	M.A and Ph.D	20/02/2020	English and humanities	Associate Professor	07/07/2003	100	100	100	Yes	Regular	
Suresh Gurjar	EBWPS2540L	M.E/M.Tech	19/03/2016	Electrical Engineering	Assistant Professor	10/09/2020	0	100	0	Yes	Regular	
Sunil Kumar Sr	BPSPS0006J	M.Sc. and PhD	01/03/2010	Mathematics	Professor	05/01/2016	100	100	100	Yes	Regular	
Tripati Gupta	AHPPG4947A	M.Sc. and PhD	01/08/2010	Mathematics	Professor	02/01/2017	100	100	100	Yes	Regular	
Vishal Sa	BJQPS6740B	M.Sc. and PhD	24/04/2012	Mathematics	Professor	09/09/2017	100	100	100	Yes	Regular	
Kashish Parwa	AWKPP3733F	M.Sc. and PhD	01/02/2015	Mathematics	Professor	10/08/2018	100	100	100	Yes	Regular	
Manoj Pal	AZXPP0888K	M.Sc. and PhD	17/12/2022	Physics	Associate Professor	04/04/2013	100	100	100	Yes	Regular	
Shridhar Kuma	BYXPP5934J	MA	15/02/2019	English and Humanities	Assistant Professor	17/12/2022	100	100	100	Yes	Regular	
Krishan Kumar	CJFPS0681D	MA	21/03/2015	English and humanities	Assistant Professor	16/01/2023	100	100	100	Yes	Regular	
Ruchi Sharma	BRQPS9012J	ME/M. Tech and PhD	22/02/2018	Computer Science	Professor	10/07/2023	0	100	0	Yes	Regular	
Pradeep Kuma	AZZPK7939A	M.Sc. and PhD	13/12/2011	Physics	Associate Professor	14/04/2023	100	100	0	Yes	Regular	
Medhavi Jain	AITPJ9399Q	M.A and Ph.D	21/03/2015	English	Assistant Professor	01/11/2022	100	100	100	Yes	Regular	
Anil Kumar Sin	BCSPS1938N	MBA	14/08/2014	English	Assistant Professor	08/04/2021	0	0	100	No	Regular	23/10/

Manmohan Sin	BABPC5393Q	M.Sc. and PhD	11/11/2024	Mathematics	Associate Professor	23/07/2024	100	0	0	Yes	Regular	
Saguna Chatur	AFHPC3165N	M.Phil	01/07/1990	English	Associate Professor	21/05/2015	100	100	100	Yes	Regular	
Pranshu Sharn	EYSPS1461K	MBA	01/01/2021	English	Assistant Professor	08/10/2020	100	100	100	Yes	Regular	
Manmohan Sid	BNPPS2864D	Ph.D	29/12/2017	Mechanical Engineering	Professor	02/01/2017	100	100	0	Yes	Regular	
Akhilesh F	CPSPP3593N	M.E/M.Tech	07/10/2014	Mechanical Engineering	Assistant Professor	03/01/2017	100	100	100	Yes	Regular	
ARUN SAHU	FPZPS7761P	M.Sc	27/10/2016	Mathematics	Assistant Professor	03/08/2020	0	0	100	No	Regular	13/11/
Vishnu Datt Sh	EDIPS5407N	M.E/M.Tech	17/08/2023	Electrical Engineering	Assistant Professor	04/01/2012	100	100	0	Yes	Regular	
Shubham Shar	JTZPS0804K	M.Sc	11/11/2022	Chemistry	Assistant Professor	13/08/2024	100	0	0	Yes	Regular	
Sanjay Kumar	AFMPB0302F	M.Sc. and PhD	22/03/2012	Mathematics	Professor	19/07/2024	100	0	0	Yes	Regular	
Sumit Saini	DIOPS5034K	M.E/M.Tech	14/12/2020	Civil Engineering	Assistant Professor	03/10/2013	100	100	100	Yes	Regular	
Ashish Boraida	AUGPB8419E	M.E/M.Tech	31/12/2011	Civil Engineering	Assistant Professor	02/01/2017	100	100	100	Yes	Regular	
Jitendra Kumai	BEDPG1771G	M.E/M.Tech	14/12/2020	Mechanical Engineering	Assistant Professor	25/03/2014	100	100	100	Yes	Regular	
Rajendra kuma	AGVPG7205J	M.E/M.Tech	22/07/2014	Mechanical Engineering	Assistant Professor	17/09/2007	0	0	100	No	Regular	22/07/
Anima Sharma	BKYPS2957M	M.E/M.Tech	01/10/2013	Computer Science	Assistant Professor	19/02/2009	0	0	100	Yes	Regular	
Dinesh Kumar	ADHPV6297J	M.Sc. and PhD	12/01/2013	Mathematics	Professor	08/05/2024	100	0	0	Yes	Regular	
Madhu Choudh	BGYPC0442F	M.E/M.Tech	19/01/2022	Computer Science	Assistant Professor	21/03/2022	0	100	0	No	Regular	02/08/
Srikant Bansal	AZWPB3081B	M.E/M.Tech	21/07/2017	Mechanical Engineering	Assistant Professor	01/08/2016	0	0	100	No	Regular	30/11/
Jisha Varghese	AKLPV5800G	M.E/M.Tech	21/03/2013	Electrical Engineering	Assistant Professor	15/02/2020	0	0	100	No	Regular	28/06/
Sunil Kumar Sh	EQBPS5518E	M.E/M.Tech	01/12/2017	Electrical Engineering	Assistant Professor	26/04/2012	0	0	100	No	Regular	30/09/
Ravi Yadav	ABIPY0989K	M.E/M.Tech	14/12/2020	Mechanical Engineering	Assistant Professor	26/07/2012	100	100	100	Yes	Regular	

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)
2022-23(CAYm2)	990	52	21	5
2023-24(CAYm1)	990	51	24	4
2024-25(CAY)	1290	57	27	4
Average	1090	53	24	4

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]
2022-23	18	27	49	3.00
2023-24	23	25	49	3.00
2024-25	26	29	64	3.00

Average Assessment: 3.00

8.3 First Year Academic Performance (10) Total Marks 6.60

Institute Marks : 6.60

Academic Performance	2024-25	2023-24	2022-23
Mean of CGPA or mean percentage of all successful students(X)	6.64	6.94	6.22
Total Number of successful students(Y)	125.00	177.00	116.00
Total Number of students appeared in the examination(Z)	125.00	177.00	116.00
API [X*(Y/Z)]	6.64	6.94	6.22

Average API[(AP1+AP2+AP3)/3] : 6.60

Assessment [1.5 * Average API] : 6.60

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

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

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

It includes two assessments as follows:

Internal Assessment

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

External Assessment

Data is collected from university (RTU) examination results.

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

Assessment of Theory Courses

Internal Assessment Tools

Mid-Term Examinations (two exams) Assignments & Presentations

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

Target for External CO Attainment for theory courses:

The RTU exam papers are not based on Course Outcomes.

As a result, attainment was considered as complete university result and >=B grade was taken as target.

Final CO Attainment for Theory Courses

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

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

Final CO attainment = 70 % weightage of external examination + 30% weightage of internal examination (*Subjected to the RTU Scheme) Final CO attainment = 0.7x+0.3y

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

y = CO attainment based on Internal examination, assignment & presentations **Assessment process for collecting data to evaluate Course Outcomes in Practical Courses Assessment of Practical Courses**

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

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

Internal Assessment Component (60%)

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

Key components may include:

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

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

External Examination Components (40%)

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

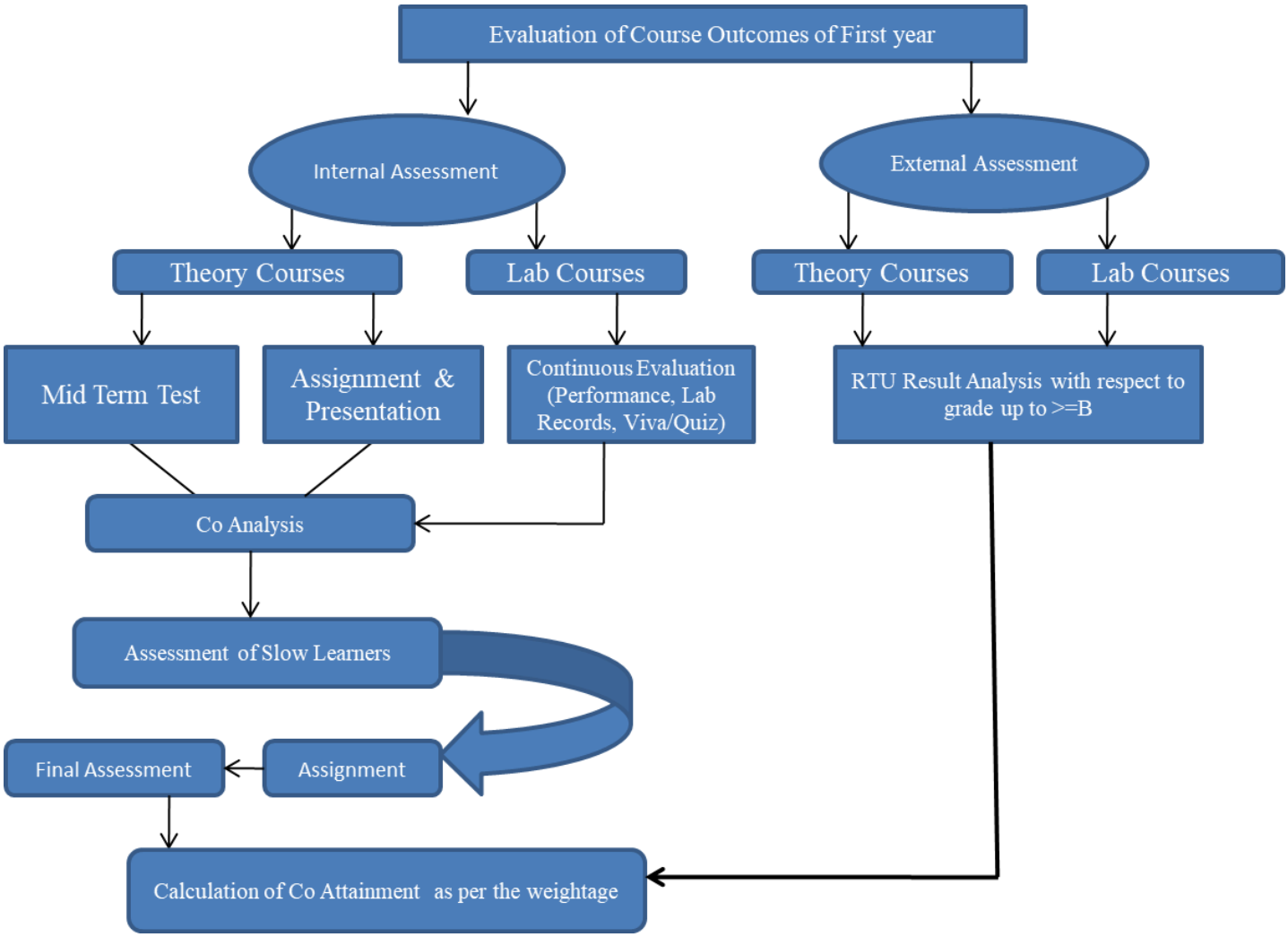
Target for calculating attainment: Target was set 60%

CO Attainment for Practical Courses

Final CO Attainment for Practical Courses

The final calculation of CO attainment for practical courses, consists of 40% component for the external examination and 60% component for the internal examination as per the RTU scheme. Final CO attainment = 40 % weightage of external examination + 60% weightage of internal examination (*Subjected to the RTU Scheme) Final CO attainment = 0.4x+0.6y

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



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

Institute Marks : 5.00

B. Tech. First Year

CO ATTAINMENT FOR YEAR 2021-22

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

B. Tech. First Year

CO ATTAINMENT FOR YEAR 2022-23

S. N.	Course Code	Course Name	Attainment
1	1FY2-01	Engineering Mathematics	1
2	1FY2-02	Engineering Physics	1
3	1FY2-03	Engineering Chemistry	1
4	1FY1-04	Communication Skills	3
5	1FY1-05	Human Values	2
6	1FY3-06	Programming For Problem Solving	1
7	1FY3-07	Basic Mechanical Engineering	2
8	1FY3-08	Basic Electrical Engineering	1

9	1FY3-09	Basic Civil Engineering	1
10	1FY2-20	Engineering Physics Lab	3
11	1FY2-21	Engg. Chemistry Lab	3
12	1FY1-22	Language Lab	3
13	1FY1-23	Human Values Activities	3
14	1FY3-24	Computer Programming Lab	3
15	1FY3-25	Manufacturing Practices Workshop	3
16	1FY3-26	Basic Electrical Engineering Lab	3
17	1FY3-27	Basic Civil Engineering Lab	3
18	1FY3-28	Computer Aided Engineering Graphics	3
19	1FY3-29	Computer Aided Machine Drawing	3
			2.26

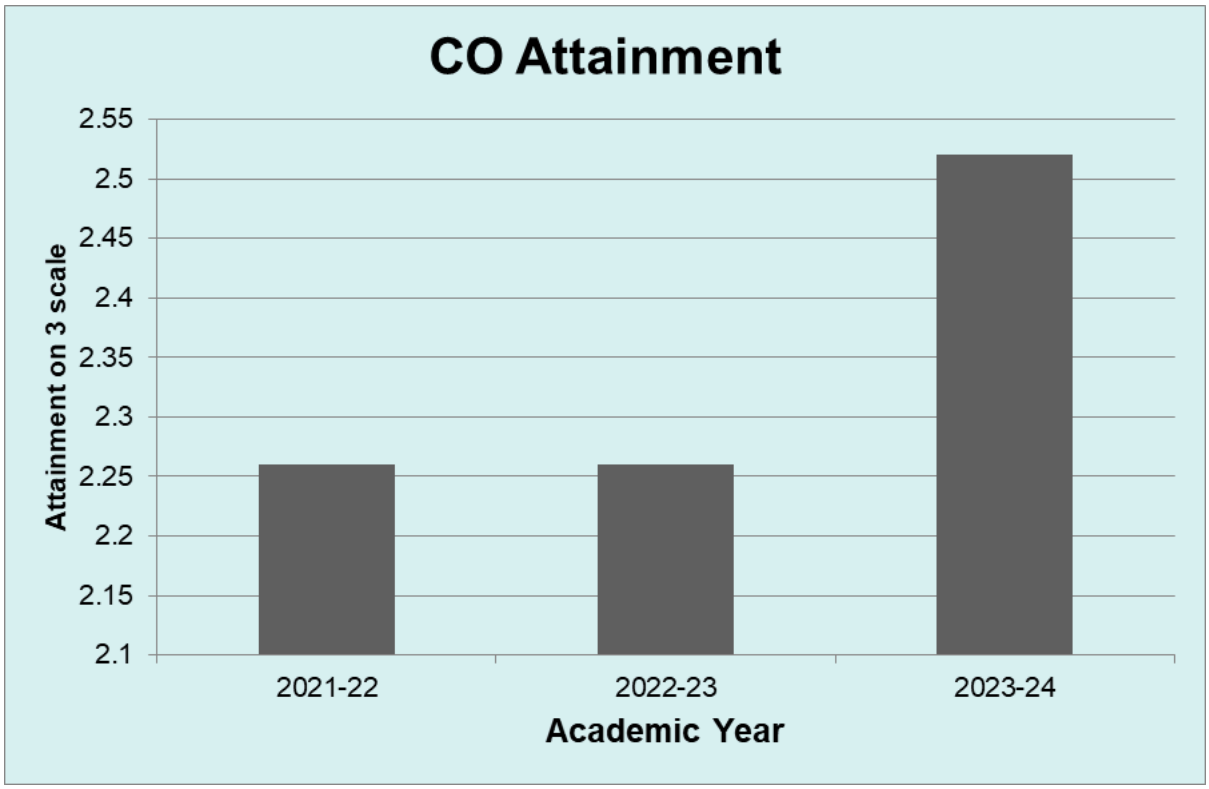
B. Tech. First Year

CO ATTAINMENT FOR YEAR 2023-24

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

19	1FY3-29	Computer Aided Machine Drawing	3

2.52



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

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

POs Attainment:

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

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.75	2.19	1.79	1.4	1.79	1.72	2.17	2.09	1.6	1.5	1.5	1.35
Direct Attainment	2.75	2.19	1.79	1.4	1.79	1.72	2.17	2.09	1.6	1.5	1.5	1.35
CO Attainment	2.75	2.19	1.79	1.4	1.79	1.72	2.17	2.09	1.6	1.5	1.5	1.35

PSOs Attainment:

Course	PSO1	PSO2
	PSO1	PSO2

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- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.55	2.00	Students are dealing with challenges related to understanding fundamental concepts in mathematics, physics, and sciences.
Action 1: Prerequisites for all the subjects were discussed before commencement of semester. Action 2: Expert lectures and skill development activities were conducted to improve the basic concepts of engineering. Action 3: Subject notes & videos were made available on college website and Tutorials were conducted to help students.			
PO 2 : Problem Analysis			
PO 2	2.04	1.41	Students struggled to apply their knowledge of science and mathematics from first-year subjects to formulate or analyze engineering problems.
Action 1: Students were given assignments based on the problems of GATE, RTU and others competitive examinations. Action 2: Students were motivated to do problem analysis and 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	1.78	1.11	Introducing more technical events in the first year is essential to enhance students' design and development aptitude.
Action1: Students were motivated to participate in various technical events to develop understanding of designing and solution development. Action 2: Workshops were conducted for students to give them knowledge of implementing solutions.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.51	1.19	Students' participation in events that involve tackling complex problems needs to be enhanced in first year.
Action1: Students were participate in paper presentations and writing review articles. Action 2: Students were encouraged to prepare technical projects and present them in project exhibitions inside and outside college.			
PO 5 : Modern Tool Usage			
PO 5	1.67	1.10	Use of modern tools and techniques need to be applied among students' work.
Action 1: Students were motivated to enrol in different courses of NPTEL and SWAYAM. Action 2: Students were made to present their ideas and participate in coding based competition.			
PO 6 : The Engineer and Society			
PO 6	2.24	1.02	Students need to be get more aware about their responsibility towards health, culture and society as an engineer.
Action 1: Students were made to prepare projects based on Universal Human Values. Action 2: Many social activities were organized at institute level like Blood Donation camp, Health Check Up Camp where, they participated as well as organised the event. Action 3: Students participated in various social activities like teaching the under privilege children after college hours), Cleanliness dive, food and cloth distribution drive etc.			
PO 7 : Environment and Sustainability			
PO 7	1.65	1.33	The awareness and understanding related to global and environmental issues need to be addressed more.
Action 1: Students were made aware about environment and sustainability through talks and visits. Action 2: They were encouraged to prepare projects based on environment and green energy. Action 3: They were involved in activities like tree Plantation and Cleanliness drive.			
PO 8 : Ethics			
PO 8	1.55	1.24	Students should recognize the importance of professional ethics and appropriate behavior when interacting with their peers and society on the whole.
Action 1: Students were prepared to work as team members and team leaders in various events to make them understand their responsibility and ethics. Action 2: They were motivated to learn human Values and work towards it's awareness. Action 3: They were encouraged to present their work as an individual and team learning basic professional ethics.			
PO 9 : Individual and Team Work			
PO 9	1.78	1.41	First year students must learn to work in team as members and team leaders.
Action 1: Students were made to participate in various Technical clubs of the College. Action 2: They were encouraged to propose and organize events to learn to work as team leader and member of a team.			
PO 10 : Communication			
PO 10	1.99	1.76	Students need further improvement in communication, presentation, and report-writing skills.
Action 1: Language Lab activities such as group discussions, power writing and public speaking were conducted. Action 2: Students were encouraged for self-learning though MOOCs courses and gave presentations in class. Action 3: Students were made to prepare and present the presentations in their regular classes from their curriculum of each subject.			
PO 11 : Project Management and Finance			
PO 11	1.30	1.03	First-year students had limited opportunities to learn project management and finance.

Action 1: Students collaborated in teams to work on projects, engaging in every aspect of project development. Action 2: First-year students were encouraged to take on organizing roles in technical events within the department.			

PO 12 : Life-long Learning

PO 12	2.18	1.71	First-year students need to enhance their participation in technical activities and their understanding of emerging technologies.
Action 1: Students were motivated to explore their learnings as enrol himself in online courses through NPTEL, Swayam, Coursera etc. Action 2: Students were motivated to be a part of different technical and social clubs of the college to recognize yourself as the need of changing technology.			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Ability to develop knowledge of Embedded Systems and its application in Automation.			
PSO 1	.48	.22	Students must gain more knowledge about automation.
Students were motivated to attend courses on Automation.			
PSO 2 : Ability to develop the concept of Electric Vehicle (EV) to meet Industry Applications.			
PSO 2	.4	.31	Needs improvisation in understanding the latest development about Electric Vehicle.
Students were encouraged to build project on Electric Vehicle.			

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

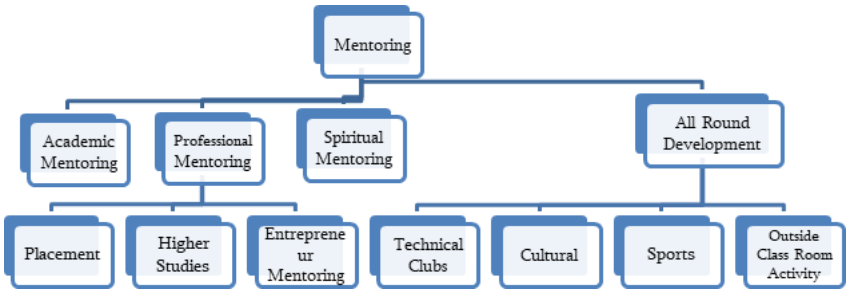


Fig 9.1a: Professional Guidance/Career Advancement

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.

Pre Placement training Program by ALUMNI

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

Entrepreneurship Mentoring

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

JIC Cell is responsible for:

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

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

S.No.	Activity Name	Link
1	PARICHAY- Orientation '24"	https://jecrcfoundation.com/jf-data/AQAR2023-24/Criteria-4/JIC-2022-2023.pdf https://jecrcfoundation.com/jf-data/AQAR2023-24/JECRC-Incubation-Centre.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	
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) (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) (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 (Electronics and Communication Engineering):

https://jecrcfoundation.com/naacdata/Mentor%20Mentee%20sample%20report%20EVEN%20sem%2024-25%20.pdf (https://jecrcfoundation.com/naacdata/Mentor%20Mentee%20sample%20report%20EVEN%20sem%2024-25%20.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	2024-25 Student List	View (https://jecrcfoundation.com/naacdata/Student%20List%202024-25.pdf)	2024-25 Faculty List	View (https://jecrcfoundation.com/naacdata/Faculty%20List%202024-25.pdf)
2	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)
3	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.

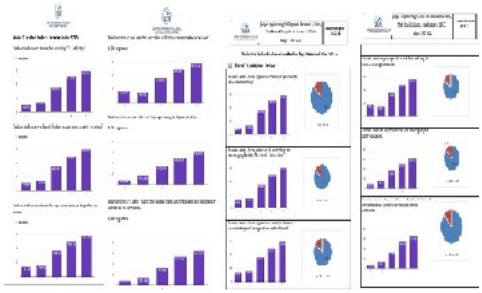
- Head of the Department chairing the senior faculty members advise the faculty member suitably with regard to clarity in explanation.
- Promoting and encouraging faculty to attend the faculty development programs (FDP), short term programme (STP), Conferences, MOOC'S, Guest lectures, industry visit.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

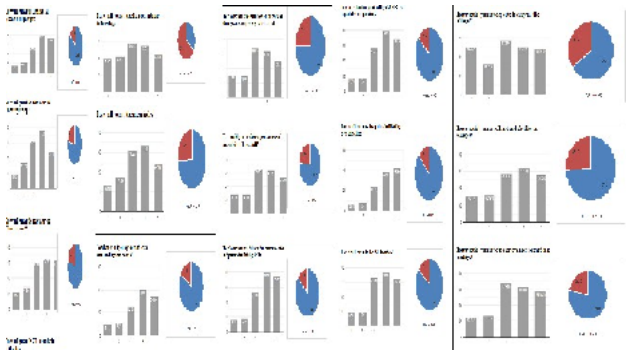
Action Taken:

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

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)

To

Institut

Introduction:

Self-Learning method is an individualized method of learning collecting information, processing it, and retaining it without the needs for another individual to teach it. For s learning beyond syllabus during the semesters we provide information sharing material and orgnize different types of activities like workshop, training, conferences, club etc. Activities related to Experiential learning (EL), Participative Learning (PL) and Problem Solving (PS) methodologies are embedded into the teaching learning process 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 feedback from alumni, employer and other stakeholders. Various platforms viz. Swayam, NPTEL, Swayam Prabha, Video lectures by faculty and other teaching learni made available on website.Virtual lab through IIT Delhi is an initiative towards experiential learning. Students taking internships through internshala are also appreciated by is beyond curriculum. Most of students are engaged in these learnings at the institute level.

Availability of Facility, Materials and Scope for Learning

S.No	Self-Learning Sources	Tools / Support
1	Web based learning	Swayam: https://swayam.gov.in/ (https://swayam.gov.in/) NPTEL: https://onlinecourses.nptel.ac.in/ (https://onlinecourses.nptel.ac.in/)
2	e-Books & digital books	Central and departmental Library
3	Books, magazines, journals, newspaper clippings	Central and departmental Library
4	Virtual Labs	It is to provide remote-access to simulation-based Labs in various disciplines of Science and Engineering. The project is coordinated by IIT Delhi .
5	Online Content	Advanced computer centre
6	Lectures, instructional materials by faculty members	Online through links on websites and Google classrooms
7	Internship/ summer trainings	Internships, summer trainings offered to the students to enhance the real-time knowledge and exposure of the students.
8	Digital Library	E-contents of different topics.
9	Technical clubs	Students are encouraged to become members of different clubs such as moonrider clubs,Marval Cart, Xananoid etc. for the career enhancement and self-learning
10	Campus recruitment taining	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
16	Spiritual Training	For help in increasing mental capacity to focus better.

17	Professional bodies	Students are encouraged to become members of professional bodies like Marval Cart,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	Culture Activities	Personality improvemt through different culture activities.
22	Sports	Team management and overall students development through different sports activities
23	ADD-ON courses	Addon course enhance the advanced skill according to present scenario.

Online MOOCs

S. No	Name of Student	MOOCs Platform	Certificate Link
1	Pranjal Sharma	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
2	Khushveer Gurjar	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
3	Akshi Maheshwari	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
4	Sakshi Jain	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
5	Rohit Pareek	ServiceNow	https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy (https://drive.google.com/drive/u/0/folders/1lr22povus5i0_P454GZwLK_VuCmvQMMy)
6	Akshat Goyal	Course era	https://drive.google.com/file/d/1mHli2-zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing (https://drive.google.com/file/d/1 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/1 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/1 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/1 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/1 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/1 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/1 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/1 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/1 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/1 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/1 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/1 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/1 zmRdInJg7cetv-M0pCACXvvTcw/view?usp=sharing)
19	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/17nO6jUD1ki87sAJxLmKT5PX9zowVIiAK0n0eIx9ol1imn01Xlpt2HYeUN2MX3fD (https://drive.google.com/drive/u/0/folders/17nO6jUD1ki87sAJxLmKT5PX9zowVIiAK0n0eIx9ol1imn01Xlpt2HYeUN2MX3fD
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_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
22	Nitin kumawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
23	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma (https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M
24	Pankhuri Jain	Infosys Springboard	https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12Ma (https://drive.google.com/drive/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN12M
25	Sankalap vijayvergiya	Great learning	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
26	Mitul Chhajed	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
27	Pankhuri Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
28	Tanish gupta	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
29	Sonakshi Gupta	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
30	Mohit Garg	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
31	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
32	Aksht jain	Udemy	https://drive.google.com/file/d/1HXAjUGy_i2Frg-O0mrgrcwX4UAZQn0Vl/view (https://drive.google.com/file/d/1HXAjUGy_i2 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_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
59	Soumya Mittal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
60	saksham bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
61	punit tyagi	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
62	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
63	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
64	Raghav Bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
65	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
66	Tushar Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
67	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
68	Pradyumn Kumar Shukla	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
69	Kinjal Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
70	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
71	mayank ved	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
72	Pallav Maheshwari	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
73	Soumya Mittal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
74	saksham bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
75	punit tyagi	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
76	Tanushka Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
77	Vansh Sharma	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1

78	Raghav Bansal	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
79	Saurav Singh	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
80	Tushar Jangid	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
81	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
82	Pradyumn Kumar Shukla	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
83	Kinjal Jain	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
84	Prateek Singh Rajawat	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1
85	mayank ved	Infosys Springboard	https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1 (https://drive.google.com/drive/u/0/folders/1EtcPKzdP74kjAiJ1Wbc--8INpqEO2uDrK_eOoFizPu4iDOuf7ikc5rqvZumSz5lN1

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 to April 2025

S. No	Name	Course Name	Department
1	Mahi Bansal	Foundation Course in Managerial Economics	Business Administration
2	Surya Pratap Singh Shekhawat	Soft Skill Development	Civil Engineering
3	Mrinal Yadav	Services Marketing: A Practical Approach	Commerce
4	Uttam Saini	Data Base Management System	Information Technology
5	Shivani Johari	Design and Engineering of Computer Systems	Other
6	Akhil Udai	Programming, Data Structures And Algorithms Using Python	Mechanical Engineering
7	Akshat Sharma	Data Science for Engineers	Electronics and Communication Engineering
8	Atiksh Gidwani	Engineering/Architectural Graphics - Part II - Isometric and Axonometric Drawings	Computer Science and Engineering
9	Akshat Sharma	Fundamental Algorithms: Design and Analysis	Electronics and Communication Engineering
10	Atiksh Gidwani	Fundamental Algorithms: Design and Analysis	Computer Science and Engineering
11	Mohit Garg	Machine Learning, ML	Information Technology
12	Krishna rawal	Data Science for Engineers	Information Technology
13	Lakshaya Pant	Machine Learning, ML	Computer Science and Engineering

July to Oct 2024

S. No	Name	Course Name	Department
1	Aakash Kumar Gupta	Programming in Java	Computer Science and Engineering
2	Aarchi Bansal	Soft Skills	Computer Science and Engineering
3	Aayushmaan Singh chundawat	Wild Life Ecology	Computer Science and Engineering
4	Abhay Chaturvedi	Wild Life Ecology	Computer Science and Engineering
5	Abhimanyu Singh	Soft Skills	Computer Science and Engineering
6	Adit Kaushik	Public Speaking	Computer Science and Engineering
7	Aditya Jain	Soft Skills	Computer Science and Engineering

8	ajay choudhary	Basic Environmental Engineering and Pollution Abatement	Computer Science and Engineering
9	Akanksha Singh	Human Resource Development	Business Administration
10	Akshat Sharma	Computer Architecture	Electronics and Communication Engineering
11	Akshita Garg	Cloud Computing	Other
12	Akshita Garg	Introduction to Machine Learning	Other
13	Aman Dadhich	Computer Architecture	Computer Science and Engineering
14	Amulya jef	Soft Skills	Computer Science and Engineering
15	Ankit Kaushik	The Joy of Computing using Python	Other
16	Arjun Singh Saluja	Soft Skills	Computer Science and Engineering
17	Arnavee Mohanty	Training of Trainers	Computer Science and Engineering
18	ARUSHI LATH	Advance Course in Social Psychology	Computer Science and Engineering
19	Ashish Kulshrestha	Stress Management	Electronics and Communication Engineering
20	Atiksh Gidwani	Soft Skills	Computer Science and Engineering
21	Ayush Goyal	Programming in Java	Other
22	Ayush Goyal	Operating System Fundamentals	Other
23	Chetan Gupta	Introduction to Internet of Things	Electronics and Communication Engineering
24	Chetan jain	Soft Skills	Computer Science and Engineering
25	Chirag joshi	Multi-Core Computer Architecture	Computer Science and Engineering
26	Deepak Panwar	Organizational Behaviour - II	Computer Science and Engineering
27	Deepak Sharma	Organizational Behaviour - II	Computer Science and Engineering
28	Deepak Sharma	Programming in Java	Computer Science and Engineering
29	Dhruvil Gautam	Soft Skills	Computer Science and Engineering
30	Dhwani Shah	Management Information System	Computer Science and Engineering
31	Divy jain	Public Speaking	Computer Science and Engineering
32	Drashti verma	Training of Trainers	Computer Science and Engineering
33	Drishti sharma	Environmental Science	Computer Science and Engineering
34	Geetanjali Sikarwar	Soft Skills	Computer Science and Engineering
35	Gouranshi Singh	HR Analytics	Other
36	Gourav Panwar	Developing Soft Skills and Personality	Other
37	Gungun soni	E-Business	Computer Science and Engineering
38	Hardik khadria	International Trade - Theory and Empirics	Business Administration
39	Harsh kumar	Google Cloud Computing Foundations	Computer Science and Engineering
40	Hemendra Pal Singh	Public Speaking	Computer Science and Engineering
41	HIMANSHU VERMA	Programming in Java	Information Technology
42	Hitarth jain	Soft Skills	Computer Science and Engineering
43	Hitin dagur	Animal Physiology	Microbiology
44	Ishpriya Chaturvedi	Animal Physiology	Microbiology
45	Keshav sharma	Soft Skills	Computer Science and Engineering
46	Ketan Sharma	Introduction to Internet of Things	Electrical Engineering
47	Kriti jain	Soft Skills	Computer Science and Engineering
48	Kumar Anshaj	Practical Cyber Security for Cyber Security Practitioners	Information Technology
49	Kumar Anshaj	Ethical Hacking	Information Technology
50	kunj paliwal	Data Structure and Algorithms using Java	Computer Science and Engineering

51	Lakshika Goyal	Entrepreneurship	Computer Science and Engineering
52	Lakshya Choudhary	Soft Skills	Computer Science and Engineering
53	Lalit meena	Product and Brand Management	Business Administration
54	Medhansh Singhal	Machine Learning and Deep Learning - Fundamentals and Applications	Electronics and Communication Engineering
55	Medhansh Singhal	Project Management for Managers	Electronics and Communication Engineering
56	MICHAEL PAUL	Soft Skills	Computer Science and Engineering
57	Mohammed Aadil	Data Structure and Algorithms using Java	Computer Science and Engineering
58	Mohit Kumar Meena	Organizational Behaviour	Computer Science and Engineering
59	MRADUL KRISHNA BHARDWAJ	Fundamentals of Conduction and Radiation	Mechanical Engineering
60	Nakshatra Sharma	Understanding Incubation and Entrepreneurship	Mechanical Engineering
61	Neeraj Singh Rajawat	Soft Skills	Computer Science and Engineering
62	Nidhi jain	The Joy of Computing using Python	Other
63	Nitin sharma	Soft Skills	Computer Science and Engineering
64	Om Sharma	Research for Marketing Decisions	Computer Science and Engineering
65	Om Sharma	Soft Skills	Computer Science and Engineering
66	Paramveer Singh Chauhan	Soft Skills	Computer Science and Engineering
67	Parul Tyagi	Stress Management	Electronics and Communication Engineering
68	Prabal Singh	Environment and Development	Computer Science and Engineering
69	Pradhyuman Singh	Soft Skills	Computer Science and Engineering
70	Pratibha kanwar	Training of Trainers	Computer Science and Engineering
71	PULKIT GOVIL	Business to Business Marketing (B2B)	Computer Science and Engineering
72	Purva Dadhich	Data Structure and Algorithms using Java	Information Technology
73	Purva Dadhich	Programming in Java	Information Technology
74	Rahul Jangid	Wild Life Ecology	Computer Science and Engineering
75	Ravi Shankar	Sustainable Transportation Systems	Computer Science and Engineering
76	Ravi Shankar	Environmental Science	Computer Science and Engineering
77	Renjith K K	Organizational Behaviour	Other
78	Renjith K K	Training of Trainers	Other
79	Renjith K K	Organizational Behaviour - II	Other
80	Reyansh Parashar	Soft Skills	Other
81	RIMJHIM AGRAWAL	Natural Resources Management	Computer Science and Engineering
82	Ritesh Jangid	Introduction to Internet of Things	Other
83	Riya	Training of Trainers	Computer Science and Engineering
84	Riya Sharma	Programming in Modern C++	Computer Science and Engineering
85	Riya Shekhawat	Public Speaking	Computer Science and Engineering
86	SACHIN SHARMA	Big Data Computing	Computer Science and Engineering
87	sahil vinay joseph	Developing Soft Skills and Personality	Other
88	sajal bansal	Data Structure and Algorithms using Java	Computer Science and Engineering
89	Samarth Agarwal	Psychology of Learning	Computer Science and Engineering
90	saniya khanam	Psychology of Learning	Computer Science and Engineering
91	sanjeev kumar mishra	Entrepreneurship	Computer Science and Engineering
92	SHALINI SINGH	Human Resource Development	Other

93	Shefali Chopra	Organizational Behaviour - II	Computer Science and Engineering
94	Shishir Karn	Soft Skills	Computer Science and Engineering
95	Shrishti Bisht	Entrepreneurship	Computer Science and Engineering
96	Sujal Gupta	Soft Skills	Computer Science and Engineering
97	Surya Pratap Singh Shekhawat	Psychology of Learning	Civil Engineering
98	tanisha agarwal	Soft Skills	Computer Science and Engineering
99	Tanishk kaushik	Technical English for Engineers	Computer Science and Engineering
100	TANISHQ SINGH	Big Data Computing	Computer Science and Engineering
101	Utsav Gupta	Soft Skills	Computer Science and Engineering
102	Uttam Saini	Introduction To Algorithms and Analysis	Information Technology
103	Vaibhav Sharma	Product and Brand Management	Accounting and Finance
104	Vaibhav Sharma	Management Accounting	Accounting and Finance
105	Vinay Pal Singh	Soft Skills	Computer Science and Engineering
106	Vinita Mathur	Stress Management	Electronics and Communication Engineering

Jan to April 2024

S. No	Name	Course Name	Department
1	Aakash Panwar	Strategic Services Marketing	Computer Science and Engineering
2	Aarushi Goyal	Computer Networks And Internet Protocol	Computer Science and Engineering
3	Aarushi Goyal	Compiler Design	Computer Science and Engineering
4	Aarushi Goyal	Discrete Mathematics	Computer Science and Engineering
5	Abhishek Verma	Industrial Wastewater Treatment	Computer Science and Engineering
6	Adarsh Kumar	Education for Sustainable Development	Computer Science and Engineering
7	Aditi Sharma	Business Development: From Start to Scale	Computer Science and Engineering
8	Adrija Saha	Psychology Of Stress, Health And Well-Being	Forensic Science
9	Akshat Bansal	AI in Marketing	Other
10	Akshat Bansal	Psychology Of Stress, Health And Well-Being	Other
11	Akshat Goyal	Cloud Computing	Other
12	Akshita Garg	Compiler Design	Other
13	Aman Agarwal	Online Communication in the Digital Age	Computer Science and Engineering
14	Aman Dadhich	Global Marketing Management	Computer Science and Engineering
15	Amulya Jef	Financial Management For Managers	Computer Science and Engineering
16	Ananya Jaiswal	Integrated Circuits, Mosfets, OP-Amps and their Applications	Electronics and Communication Engineering
17	Ananya Jaiswal	Embedded Sensing, Actuation and Interfacing Systems	Electronics and Communication Engineering
18	Arjun Singh Saluja	International Business	Computer Science and Engineering
19	Arpit Kumar Vyas	Leadership and Team Effectiveness	Computer Science and Engineering
20	Arushi Lath	Psychology Of Stress, Health And Well-Being	Computer Science and Engineering
21	Aryan Bansal	Leadership and Team Effectiveness	Computer Science and Engineering
22	Aryan Ranwa	E-Business	Computer Science and Engineering
23	Atiksh Gidwani	Air pollution and Control	Computer Science and Engineering
24	Atishay Jain	Leadership and Team Effectiveness	Computer Science and Engineering
25	Ayush Patel	Business analytics and data mining Modeling using R	Computer Science and Engineering
26	Bhavya Jain	Leadership and Team Effectiveness	Computer Science and Engineering
27	Darshan Khandelwal	Strategies for Sustainable Design	Computer Science and Engineering

28	Deepak Goswami	Leadership and Team Effectiveness	Computer Science and Engineering
29	Deepak Panwar	Air pollution and Control	Computer Science and Engineering
30	Deepak Singh	Programming In Java	Computer Science and Engineering
31	Divy Jain	Psychology of Emotion: Theory and Applications	Computer Science and Engineering
32	Geetanjali Sikarwar	Psychology Of Stress, Health And Well-Being	Computer Science and Engineering
33	Gourav Yadav	Business Development: From Start to Scale	Computer Science and Engineering
34	Gungun Soni	Leadership and Team Effectiveness	Computer Science and Engineering
35	Harsh Choupal	AI in Marketing	Electronics and Communication Engineering
36	Harshit Kabra	Leadership and Team Effectiveness	Computer Science and Engineering
37	Harshita Mundra	Integrated Marketing Communication	Computer Science and Engineering
38	Hemendra Pal Singh	Education for Sustainable Development	Computer Science and Engineering
39	Hitarth Jain	Leadership and Team Effectiveness	Computer Science and Engineering
40	Ishika	International Business	Computer Science and Engineering
41	Kartavya Sharma	Online Communication in the Digital Age	Computer Science and Engineering
42	Keshav Khandelwal	Business Analytics For Management Decision	Computer Science and Engineering
43	Khagesh Saini	Air pollution and Control	Computer Science and Engineering
44	Kriti Jain	E-Business	Computer Science and Engineering
45	Kritika Upadhyay	Talent Acquisition and Management	Business Administration
46	Kumar Anshaj	Cloud Computing	Information Technology
47	Kumar Anshaj	Leadership and Team Effectiveness	Information Technology
48	Kundan Solanki	Air pollution and Control	Computer Science and Engineering
49	Lakshika Goyal	Innovation in Marketing and Marketing of Innovation	Computer Science and Engineering
50	Lakshya Chandra	Compiler Design	Other
51	Lakshya Chandra	Advanced Computer Architecture	Other
52	Manan Gehlot	Leadership and Team Effectiveness	Computer Science and Engineering
53	Manav Talwar	E-Business	Computer Science and Engineering
54	Manraj Singh	Leadership and Team Effectiveness	Computer Science and Engineering
55	Manshi Agarwal	Talent Acquisition and Management	Other
56	Manuraj Barman	Problem Solving Through Programming In C	Electronics and Communication Engineering
57	Mohit Kumar Meena	Leadership and Team Effectiveness	Computer Science and Engineering
58	Mradul Krishna Bhardwaj	Engineering Thermodynamics in Hindi	Mechanical Engineering
59	Nitin Sharma	Psychology of Emotion: Theory and Applications	Computer Science and Engineering
60	Om Sharma	AI in Marketing	Computer Science and Engineering
61	Pradhyuman Singh	Psychology of Emotion: Theory and Applications	Computer Science and Engineering
62	Pranjal Garg	Host-Pathogen Interaction (Immunology)	Biotechnology
63	Pratibha Kanwar	Psychology Of Stress, Health And Well-Being	Computer Science and Engineering
64	Prishita	Blockchain and its Applications	Computer Science and Engineering
65	Pulkit Govil	E-Business	Computer Science and Engineering
66	Raghvendra Sharma	Introduction To Cognitive Psychology	Computer Science and Engineering
67	Raj Trivedi	Education for Sustainable Development	Computer Science and Engineering
68	Rimjhim Agrawal	Leadership and Team Effectiveness	Computer Science and Engineering
69	Riya	Leadership and Team Effectiveness	Computer Science and Engineering
70	Riya Shekhawat	Leadership and Team Effectiveness	Computer Science and Engineering

71	Ruchika Choudhary	Leadership and Team Effectiveness	Computer Science and Engineering
72	Saif Sahun	Air pollution and Control	Computer Science and Engineering
73	Sakshi Mathur	Education for Sustainable Development	Computer Science and Engineering
74	Saloni Singhal	Principles of Management	Computer Science and Engineering
75	Samarth Agarwal	Air pollution and Control	Computer Science and Engineering
76	Sanjeev Kumar Mishra	Leadership and Team Effectiveness	Computer Science and Engineering
77	Shashank Kumar Jha	Education for Sustainable Development	Computer Science and Engineering
78	Shishir Karn	Education for Sustainable Development	Computer Science and Engineering
79	Shrishti Bisht	Business Development: From Start to Scale	Computer Science and Engineering
80	Sushil Prajapat	Psychology Of Stress, Health And Well-Being	Computer Science and Engineering
81	Tanisha Agarwal	Leadership and Team Effectiveness	Computer Science and Engineering
82	Tanishq Singh	Business Fundamentals for Entrepreneurs (Part 2: External Operation)	Computer Science and Engineering
83	Tanishq Singh	Ethics In Engineering Practice	Computer Science and Engineering
84	Tanishq Singh	Programming In Java	Computer Science and Engineering
85	Tanya Kumari	Leadership and Team Effectiveness	Computer Science and Engineering
86	Tisha Khandelwal	Online Communication in the Digital Age	Computer Science and Engineering
87	Uday Bedi	Leadership and Team Effectiveness	Computer Science and Engineering
88	Utkarsh Tripathi	Linear programming and its applications to computer science	Computer Science and Engineering
89	Utkarsh Tripathi	Foundation of Cloud IoT Edge ML	Computer Science and Engineering
90	Utsav Gupta	Leadership and Team Effectiveness	Computer Science and Engineering
91	Uttam Saini	The Joy of Computing using Python	Information Technology
92	Vartika Sharma	Leadership and Team Effectiveness	Computer Science and Engineering
93	Vidveshar Singh	Education for Sustainable Development	Computer Science and Engineering
94	Vinay Pal Singh	International Business	Computer Science and Engineering
95	Vinita Mathur	Project Management	Electronics and Communication Engineering
96	Yash Sahni	Leadership and Team Effectiveness	Computer Science and Engineering

July 2023 to Oct 2023

S. No	Name	Course Name	Department
1	Aarushi Goyal	Programming In Modern C++	Computer Science and Engineering
2	Aarushi Goyal	Programming In Java	Computer Science and Engineering
3	Aarushi Goyal	Data Structure And Algorithms Using Java	Computer Science and Engineering
4	Aashish Kumar	Laser Based Manufacturing	Mechanical Engineering
5	Aashish Kumar	Solid Mechanics	Mechanical Engineering
6	Aditi Sharma	Entrepreneurship	Computer Science and Engineering
7	Akash Singh Bhadoria	Problem Solving Through Programming In C	Mechanical Engineering
8	Akshat Goyal	Fundamentals Of Artificial Intelligence	Other
9	Aman Dadhich	Introduction To Machine Learning	Computer Science and Engineering
10	Aman Gupta	Business To Business Marketing (B2B)	Business Administration
11	Aman Gupta	Designing Work Organization	Business Administration
12	Ananya Sharma	Discrete Mathematics	Computer Science and Engineering
13	Ananya Sharma	Data Structure And Algorithms Using Java	Computer Science and Engineering

14	Arpit Gupta	Business To Business Marketing (B2B)	Computer Science and Engineering
15	Chanchal Sharma	Software Conceptual Design	Information Technology
16	Darshan Khandelwal	Indian Art: Materials, Techniques And Artistic Practices	Computer Science and Engineering
17	Deepak Maheshwari	Programming In Java	Computer Science and Engineering
18	Deepak Maheshwari	Data Structure And Algorithms Using Java	Computer Science and Engineering
19	Deepak Singh	Discrete Mathematics	Computer Science and Engineering
20	Divy Jain	Programming In Java	Computer Science and Engineering
21	Gaurav Mansinghani	Business To Business Marketing (B2B)	Commerce
22	Gaurav Mansinghani	Designing Work Organization	Commerce
23	Govind Tilwani	Discrete Mathematics	Electronics and Communication Engineering
24	Harsh Choupal	Understanding Incubation And Entrepreneurship	Electronics and Communication Engineering
25	Ishu Jain	Data Structure And Algorithms Using Java	Computer Science and Engineering
26	Keshav Maheshwari	Programming In Java	Computer Science and Engineering
27	Keshav Maheshwari	Data Structure And Algorithms Using Java	Computer Science and Engineering
28	Manraj Singh	Soft Skills	Computer Science and Engineering
29	Medhansh Singhal	Cyber Security and Privacy	Electronics and Communication Engineering
30	Priyanka Harchandani	Introduction To Adaptive Signal Processing	Electrical Engineering
31	Priyanka Harchandani	Power System Protection	Electrical Engineering
32	Roop Singh Meena	Constitution Of India And Environmental Governance: Administrative And Adjudicatory Process	Electronics and Communication Engineering
33	Sachin Sharma	Cloud Computing	Computer Science and Engineering
34	Sakshi Mathur	Environment And Development	Computer Science and Engineering
35	Sakshi Yadav	Training Of Trainers	Business Administration
36	Sakshi Yadav	Business To Business Marketing (B2B)	Business Administration
37	Sakshi Yadav	Designing Work Organization	Business Administration
38	Sarika Sharma	Cloud Computing	Computer Science and Engineering
39	Shabdita Deedwania	New Labour Codes Of India	Other
40	Shabdita Deedwania	Business To Business Marketing (B2B)	Other
41	Shivansh Agarwal	The Joy Of Computing Using Python	Computer Science and Engineering
42	Sidhant Mishra	Software Conceptual Design	Computer Science and Engineering
43	Tanishq Singh	Designing Learner-Centric E-Learning In Stem Disciplines	Computer Science and Engineering
44	Tanishq Singh	Body Language: Key To Professional Success	Computer Science and Engineering
45	Vaishali Garg	Problem Solving Through Programming In C	Information Technology
46	Vaishali Garg	Science, Technology And Society	Information Technology
47	Yash	Introduction To Internet Of Things	Computer Science and Engineering

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.pd

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

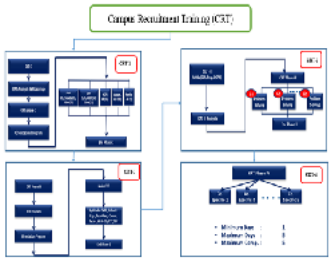
A training and placement cell is established and responsible for campus placement (off campus also) and training which improve students skills both technical and behavioral. A cell provides various opportunities for student placements and organizes sessions / training programs. The college has career 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 2023-24

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	2023-24	Artificial Intelligence & Data Science	Workshop on Data Science in Python programming with AI with ML	9	09-08-2023 to 23-08-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Data-Science-in-Python-programming-with-AI-with-ML.pdf)
2	2023-24	Artificial Intelligence & Data Science	Workshop on AWS Cloud	287	22nd Nov 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/1_AWSCloud.pdf)
3	2023-24	Artificial Intelligence & Data Science	Expert Talk on "Climate Change and Sustainability"	139	5th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/2_ClimateChange.pdf)
4	2023-24	Artificial Intelligence & Data Science	Conference "IT Crowd Fest"	236	19th Jan 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/3_ITCrowdFest.pdf)
5	2023-24	Artificial Intelligence & Data Science	Workshop on Service Now Modules	5	10-02-2024 to 27-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Service-Now-Modules.pdf)
6	2023-24	Artificial Intelligence & Data Science	Workshop On Data Science For Engineers	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Data-Science-For-Engineers.pdf)
7	2023-24	Artificial Intelligence & Data Science	Workshop On Compiler Design	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Compiler-Design.pdf)
8	2023-24	Artificial Intelligence & Data Science	Workshop on Fundamentals of Programming	67	17-04-2024 to 23-04-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Programming-in-C-Lang-Report.pdf)
9	2023-24	Artificial Intelligence & Data Science	Workshop on "Mastering Linear Regression: A Python Approach"	34	24th April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/4_PythonEvent.pdf)
10	2023-24	Artificial Intelligence & Data Science	Webinar on RHA	55	15th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/5_RHA.pdf)
11	2023-24	Artificial Intelligence & Data Science	Workshop on Big Data	54	15th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/6_BigData.pdf)
12	2023-24	Artificial Intelligence & Data Science	Workshop on Smart Learning Strategies	112	14th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/7_SmartLearningStrategies.pdf)
13	2023-24	Artificial Intelligence & Data Science	Workshop on Data Structure and Algorithms	67	24-04-2024 to 04-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Data-Structure-and-Algorithms.pdf)
14	2023-24	Artificial Intelligence & Data Science	Workshop on Object Oriented Programming	66	06-05-2024 to 10-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/OOPs-Course-Report.pdf)
15	2023-24	Department of IT	Workshop on Cloud Devops and SRE 2023-24 Phase 1	25	21-09-2023 to 05-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Cloud-Devops-and-SRE-2023-24-Phase%201.pdf)
16	2023-24	Department of IT	Workshop on Data Science with ML & AI 2023-24 Phase 1	24	21-09-2023 to 05-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Data-Science-with-ML-AI-2023-24-Phase%201.pdf)
17	2023-24	Department of IT	Workshop on Front end Web Development 2023-24	20	01-09-2023 to 18-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Front-end-Web-Development-2023-24.pdf)
18	2023-24	Department of IT	Workshop on Full Stack Web Developement 2023-24 Phase 1	23	21-09-2023 to 05-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Full-Stack-Web-Developement-2023-24-Phase%201.pdf)
19	2023-24	Department of IT	Workshop on Fundamentals of ML and AI 2023-24	75	01-09-2023 to 18-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Fundamentals-of-ML-and-AI-2023-24.pdf)
20	2023-24	Department of IT	Workshop on Application Development Fundamentals-IT Phase 1	97	25-10-2023 to 31-10-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Application-Development-Fundamentals-IT%20Phase-1.pdf)
21	2023-24	Department of IT	Workshop on Scripting in ServiceNow Fundamentals-IT Phase 1	97	12-10-2023 to 18-10-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Scripting-in-ServiceNow-Fundamentals-IT-Phase%201.pdf)

22	2023-24	Department of IT	Workshop on ServiceNow Administration Fundamentals-IT Phase 1	97	03-10-2023 to 11-10-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/ServiceNow-Administration-Fundamentals-IT-Phase-1.pdf)
23	2023-24	Department of IT	Workshop on Unlocking the power of Java nad JavaScript	87	30.9.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/15_Java.pdf)
24	2023-24	Department of IT	Workshop on GitHub	80	28/11/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/12_GitHub.pdf)
25	2023-24	Department of IT	Expert Talk On Blockchain Technology	74	09/05/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/8_Blockchain.pdf)
26	2023-24	Department of IT	Workshop on Design Of Cross Cable CAT-6	24	22/5/24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/9_CAT-6CableDesign.pdf)
27	2023-24	Department of IT	Expert talk on Full Stack Development	35	13/4/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/10_FullStackDevelopment.pdf)
28	2023-24	Department of IT	Expert talk on Generative AI	30	13/4/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/11_GenrativeAI.pdf)
29	2023-24	Department of IT	Workshop on Networking	19	20/5/24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/13_Networking.pdf)
30	2023-24	Department of IT	Expert Talk on Quantum Computing: A New Paradigm	74	07/05/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/14_QuantumComputing.pdf)
31	2023-24	Department of IT	Workshop on how to Identify Project Ideas	50	21.2.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/16_ProjectIdeas.pdf)
32	2023-24	Department of IT	Workshop on Cloud Devops and SRE 2023-24 Phase 2	7	01-04-2024 to 15-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Cloud-Devops-and-SRE-2023-24-Phase%202.pdf)
33	2023-24	Department of IT	Workshop on Data Science with ML & AI 2023-24 Phase 2	15	01-04-2024 to 15-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Data-Science-with-ML-AI%202023-24-Phase%202.pdf)
34	2023-24	Department of IT	Workshop on Full Stack Web Developement 2023-24 Phase 2	50	01-04-2024 to 15-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Full-Stack-Web-Developement-2023-24-Phase-2.pdf)
35	2023-24	Department of IT	Workshop on Application Development Fundamentals-IT Phase-2	58	27-02-2024 to 04-03-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Application-Development-Fundamentals-IT-Phase-2.pdf)
36	2023-24	Department of IT	Workshop on Scripting in ServiceNow Fundamentals-IT Phase 2	58	20-02-2024 to 26-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Scripting-in-ServiceNow-Fundamentals-IT-Phase-2.pdf)
37	2023-24	Department of IT	Workshop on ServiceNow Administration Fundamentals-IT Phase 2	58	10-02-2024 to 19-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/ServiceNow-Administration-Fundamentals-IT-Phase-2.pdf)
38	2023-24	Department of IT	6th National Conference On Information Technology & Security Applications (NCITSA-2024)	120	6/5/2024-7/5/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/17_NCITSA.pdf)
39	2023-24	Department of CE	Workshop on Advanced Concrete Technology	30	04-09-2023 to 18-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CE/ADVANCED-CONCRETE-TECHNOLOGY.pdf)
40	2023-24	Department of CE	Workshop on Ground Improvement	30	19-02-2024 to 14-03-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CE/GROUND-IMPROVEMENT.pdf)
41	2023-24	Department of CE	Seminar on Career Guidance for 2nd & 3rd Year StYear Student	92	01/04/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/18_CAREERGUIDANCE.pdf)
42	2023-24	Department of CE	Expert Lecture on Importance of Civil Software	93	02-04-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/19_CivilSoftware.pdf)
43	2023-24	Department of CE	Seminar on About Civil CAD	93	02-04-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/20_CivilCAD.pdf)

44	2023-24	Department of CE	Workshop on "Virtual Lab"	256	29/06/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/21_VirtualLab.pdf)
45	2023-24	Department of CE	National Confrence 2024 (NCETCESD -2024)	60	29/06/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/CR-3/22_NCETCESD.pdf)
46	2023-24	Department of CSE	Workshop on Front End Web Development	107	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Upflair(WebDevelopment)III-sem.pdf)
47	2023-24	Department of CSE	Workshop on Python Programming	72	27-09-2023 to 04-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Upflair(Python)-III-sem.pdf)
48	2023-24	Department of CSE	Workshop-on Linux	40	27-09-2023 to 04-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Upflair(Linux)-III-sem.pdf)
49	2023-24	Department of CSE	Workshop on Full Stack Web Development	67	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Final-Full-Stack-Web-Development.pdf)
50	2023-24	Department of CSE	Workshop on Data Science with ML & AI	74	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Final-Data-Science-with-ML-AI.pdf)
51	2023-24	Department of CSE	Workshop on Cloud & DevOps	32	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Final-Cloud-DevOps.pdf)
52	2023-24	Department of CSE	Workshop on Service now training	24	10-02-2024 to 27-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Addon-Service-Now-2023-24.pdf)
53	2023-24	Department of CSE	Computer Graphics	1	24/07/2023-15/09/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Computer-Graphics.pdf)
54	2023-24	Department of CSE	Body Language Key To Professional Success	1	08/21/2023-09/15/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Body-Language.pdf)
55	2023-24	Department of CSE	Designing Learner-Centric E-Learning in STEM Disciplines	1	08/21/2023-09/15/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Designing-Learner.pdf)
56	2023-24	Department of CSE	Software Testing	1	01/22/2024-02/16/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Software-testing.pdf)
57	2023-24	Department of CSE	System and Usable Security	1	1/23/2024-2/16/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/System-Usable.pdf)
58	2023-24	Department of CSE	Programming in Java	4	1/24/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Prog-in-Java.pdf)
59	2023-24	Department of CSE	Ethics in Engineering Practices	1	1/25/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Ethics-in-Engineering.pdf)
60	2023-24	Department of CSE	Business Fundamentals for Entrepreneurs (Part 2: External Operation)	1	1/26/2024-3/15/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Business-Fundamentals.pdf)
61	2023-24	Department of CSE	Data Structure and Algorithm with java	4	7/24/2023-10/16/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/DSA-with-Java.pdf)
62	2023-24	Department of CSE	Discrete Mathematics	2	7/24/2023-10/13/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Discrete-Math.pdf)
63	2023-24	Department of CSE	DataBase Mangement System	3	7/24/2023-9/15/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/DBMS.pdf)
64	2023-24	Department of CSE	Programming in Modern C++	1	7/24/2023-10/13/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Programing-in-Modern-Cplusplus.pdf)
65	2023-24	Department of CSE	Fundamental Algorithms: Design and Analysis	1	1/22/2024-2/16/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Fundamental-Algo.pdf)
66	2023-24	Department of CSE	Computer Networks and Internet Protocol	1	1/22/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Computer-Network-IP.pdf)
67	2023-24	Department of CSE	Compiler Design	1	1/22/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Compiler-Design.pdf)
68	2023-24	Department of CSE	Cloud Computing	1	7/24/2023-10/13/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Cloud-Computing.pdf)
69	2023-24	Department of CSE	Data Science for Engineers	1	1/22/2024-3/15/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Data-Science.pdf)
70	2023-24	Department of CSE	Expert Lecture on CIRCULAR ECONOMY - THE POTENTIAL AND CHALLENGES	92	06 Nov.,2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/23_CircularEconomy.pdf)

71	2023-24	Department of CSE	Expert Lecture on FINANCIAL STATEMENT ANALYSIS	118	12 Dec.,2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/24_FSA.pdf)
72	2023-24	Department of CSE	Workshop on The Enterprise Beast JAVA"	120	7th Oct,2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/25_JAVA.pdf)
73	2023-24	Department of CSE	Technical Event on Code Zeal	24	20th March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/26_CodeZeal.pdf)
74	2023-24	Department of CSE	Technical Event on TechProbe	14	19th March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/27_TechProbe.pdf)
75	2023-24	Department of CSE	Technical Event on Puzzle Mania	71	20 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/28_PuzzleMania.pdf)
76	2023-24	Department of CSE	Technical Event on Pro-Lets	32	21 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/29_Pro-Lets.pdf)
77	2023-24	Department of CSE	Expert Talk - 1 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/30_Keynote(MT).pdf)
78	2023-24	Department of CSE	Expert Talk - 2 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/31_KeyNote(PES).pdf)
79	2023-24	Department of CSE	Expert Talk - 3 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/32_KeyNote(LG).pdf)
80	2023-24	Department of CSE	Technical Session -1 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/33_TS1.pdf)
81	2023-24	Department of CSE	Technical Session -2 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/34_TS2.pdf)
82	2023-24	Department of CSE	Technical Session -3 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/35_TS3.pdf)
83	2023-24	Department of CSE	Technical Session -4 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/36_TS4.pdf)
84	2023-24	Department of CSE	Technical Session -5 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/37_TS5.pdf)
85	2023-24	Department of CSE	Technical Session-6 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/38_TS6.pdf)
86	2023-24	Department of CSE	Technical Session-7 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/39_TS7.pdf)
87	2023-24	Department of CSE	Technical Session-8 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/40_TS8.pdf)
88	2023-24	Department of CSE	Technical Session-9 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/41_TS9.pdf)
89	2023-24	First Year	Workshop on Clash of Coders Phase-1	547	27-11-2023 to 02-12-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Add-on-Course-Report-clash-of-coders-phase-1.pdf)
90	2023-24	First Year	Workshop on C++ by Coding Blocks	1	Dec 2023 to June 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course%20on-C++-by-Coding-Blocks.pdf)
91	2023-24	First Year	Workshop on ENTREPRENEURSHIP ESSENTIALS	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-ENTREPRENEURSHIP-ESSENTIALS.pdf)
92	2023-24	First Year	Workshop on Foundation of Cloud IoT Edge ML	1	Feb to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-Foundation-of-Cloud-IoT-Edge-ML.pdf)
93	2023-24	First Year	Workshop on Linear Programming and Its Applications in Science	1	Feb to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-Linear-Programming-and-its-applications-in-science.pdf)
94	2023-24	First Year	Workshop on Problem Solving through Programming In C	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-Problem-Solving-through-Programming-In-C.pdf)
95	2023-24	First Year	Workshop on Introduction to programming in C-1	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Introduction-to-programming-in-C-1-(1).pdf)
96	2023-24	First Year	Workshop on Joy of Experimental Learning of Science: An approach towards NEP"	54	2nd-6th April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/42_JoyOfExp.pdf)

97	2023-24	First Year	Expert talk on "Art of effective speaking "	41	16th Apr 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/43_EffectiveSpeaking.pdf)
98	2023-24	First Year	Workshop on Inside the Machine:Exploring Computer Hardware Basics	273	24th Apr - 3rd May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/44_ComputerHardware.pdf)
99	2023-24	First Year	Expert Talk on "An introduction to ancient Vedic Mathematics"	95	29 April 2024.	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/45_VedicMaths.pdf)
100	2023-24	First Year	Mathematical Workshop on Reasoning and Aptitude	90	2nd-9th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/46_Reasoning.pdf)
101	2023-24	First Year	Online Workshop on Open Access Publishing in collaboration with Central University of Himachal Pradesh	56	18-May-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/47_OpenAccess.pdf)
102	2023-24	First Year	National Conference On Application of Basic Science and Communication in Engineering	59	10th-11th, June 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/48_ConferenceBasicScience.pdf)
103	2023-24	Department of ECE	Workshop on Ansys	75	6th Jul-8th Aug 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/49_Ansys.pdf)
104	2023-24	Department of ECE	Workshop on Artificial Intelligence	96	22nd Aug-20th Sep 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/50_AI.pdf)
105	2023-24	Department of ECE	Workshop on Embedded System Desgin & Devlopment using Ardunio	105	14 sep 2023 -15sep 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/51_Embedded.pdf)
106	2023-24	Department of ECE	Workshop on Artificial Intelligence and Machine Learning using Python	72	5th Nov-9th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/52_AIML.pdf)
107	2023-24	Department of ECE	Workshop on IOT for Future Communication	109	6th Nov-9th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/53_IOT.pdf)
108	2023-24	Department of ECE	Expert talk by Dr. Nikhil Kant (Deputy Director, AICTE)	42	16th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/54_NK.pdf)
109	2023-24	Department of ECE	Workshop on Smart Antenna Technology for Enhanced Communication	55	4th Feb-2nd March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/55_SmartTechnology.pdf)
110	2023-24	Department of ECE	Workshop on Machine learning with Data Science	109	4th Feb-2nd March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/56_MIDS.pdf)
111	2023-24	Department of ECE	Discover IEEE Oppurntiues in Membership & Volunteering	45	23April 24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/57_IEEEOpp.pdf)
112	2023-24	Department of ECE	Workshop on Quantum Robots: A Review, Structure and Apllications	84	7 May 24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/58_QuantumRobots.pdf)
113	2023-24	Department of ECE	National Conference on Recent Advancement in Communication, Optical and Nanoscience (RACON 24)	180	7th-8th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/59_RACON.pdf)
114	2023-24	Department of ECE	Expert Talk by Dr. Gajendra Purohit	458	13th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/60_GajendraPurohit.pdf)
115	2023-24	Department of ECE	Seminar on “Insights on SAS For Innovative AI and Analytics”	24	17th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/61_SAS.pdf)

116	2023-24	Computer Science and Engineering(AI)	Workshop on Course on Front end web development	15	27th Sep 2023 - 14th Oct 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/62_FED.pdf)
117	2023-24	Computer Science and Engineering(AI)	Workshop on Course on Python programming	32	27th Sep 2023 - 14th Oct 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/63_PythonProgramming.pdf)
118	2023-24	Computer Science and Engineering(AI)	Workshop on Course on Linux	16	27th Sep 2023 - 14th Oct 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/64_LINUX.pdf)
119	2023-24	Computer Science and Engineering(AI)	EXPERT LECTURE ON CIRCULAR ECONOMY - THE POTENTIAL AND CHALLENGES	60	6th Nov 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/65_CircularEconomy.pdf)
120	2023-24	Computer Science and Engineering(AI)	EXPERT LECTURE ON FINANCIAL STATEMENT ANALYSIS	60	12th December2023	**Link** (https://jecrcfoundation.com/naacdata/FSA_CSAI.pdf)
121	2023-24	Computer Science and Engineering(AI)	Expert Talk on Mastering Linear Regression: A Hands-On Python Approach"	60	23rd April 2024	**Link** (https://jecrcfoundation.com/naacdata/LR_CSAI.pdf)
122	2023-24	Computer Science and Engineering(AI)	WEBINAR ON UNLOCKING THE POWER OF LINUX	60	16 th May2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/68_PowerOfLinux.pdf)
123	2023-24	Computer Science and Engineering(AI)	Worksop on PATHWAY TO PROFESSIONALISM: CRAFTING YOUR APPROACH TO COMPANIES	50	27 th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/69_PathwayProfessionals.pdf)
124	2023-24	Electrical Engineering	Workshop on Fundamental Course on IOT based Smart System	40	11-09-2023 to 27/09/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/70_IOTBasedSmartSystem.pdf)
125	2023-24	Electrical Engineering	Workshop on Fundamental Course on Automation	28	01-09-2023 to 23-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/71_Automation.pdf)
126	2023-24	Electrical Engineering	Workshop on Fundamental course on Embedded System	40	11-09-2023 to 27/09/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/72_Embedded.pdf)
127	2023-24	Electrical Engineering	Workshop on EV Design using Matlab Simulation	40	22-04-2024 to 11-05 -2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/73_EVMatlab.pdf)
128	2023-24	Electrical Engineering	Workshop on Fundamental Course on C and C++	27	22-04-2024 to 11-05 -2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/74_CProg.pdf)
129	2023-24	Electrical Engineering	Workshop on Substation Component and its Applications	28	03-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/75_SubstationComponents.pdf)
130	2023-24	Electrical Engineering	6th National Conference-RTSTEE-2024	65	22-05-2024 to 23-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/76_EEConference.pdf)
131	2023-24	Electrical Engineering	One Day Seminar on Engineer’s Day Celebration	30	15-09-2023	.....
132	2023-24	Electrical Engineering	One Day Seminar on Teacher’s Day Celebration	29	05-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/78_TeachersDay.pdf)
133	2023-24	Electrical Engineering	One Day Seminar on Hindi Divas Celebration	30	14-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/79_HindiDiwas.pdf)
134	2023-24	Mechanical Engineering	Workshop on Principal of Casting Technology	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Casting_Tech_ME_2023_24_Final.pdf)
135	2023-24	Mechanical Engineering	Workshop on Developing Soft Skills	1	July to September 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Developing_Soft_Skills_ME_2023_24_Final.pdf)
136	2023-24	Mechanical Engineering	Workshop on Engg Thermodynamics	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Engg_Thermodynamics_ME_2023_24_Final.pdf)

137	2023-24	Mechanical Engineering	Workshop on Lase Based Manufcaturing	1	August to October 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Lase_Based_Manufcaturing_ME_2023_24_Final.pdf)
138	2023-24	Mechanical Engineering	Workshop on Nature and Properties Materials	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_NatureandProperties_Materials_ME_2023_24_Final.pdf)
139	2023-24	Mechanical Engineering	Workshop on Problem solving through C	1	July to October 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Problem_solving_through_C_ME_2023_24_Final.pdf)
140	2023-24	Mechanical Engineering	Workshop on Solid Mechanics	1	July to October 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Solid_Mechanics_ME_2023_24_Final.pdf)
141	2023-24	Mechanical Engineering	A Guest Lecture on "Challenges and Opportunities in E-vehicles"	17	01.09.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/80_E-Vehicles.pdf)
142	2023-24	Mechanical Engineering	A Guest Lecture on "Futuristic trends in automobile Engineering"	22	12.09.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/81_AutomobileEngg.pdf)
143	2023-24	Mechanical Engineering	A Workshop on "IC Engines, EVs and Hybrid Vehicles"	34	15.09.2023 to 16.09.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/82_ICEngines.pdf)
144	2023-24	Mechanical Engineering	A Workshop on "E-Vehicles: Power Train Components"	15	09.10.2023 to 14.10.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/83_PowerTrain.pdf)
145	2023-24	Mechanical Engineering	A Guest Lecture on "Industrial Applications of Designing Software"	25	12.10.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/84_DesigningSoftware.pdf)
146	2023-24	Mechanical Engineering	A Workshop on "Components and Working of E-Vehicles"	15	16.10.2023 to 21.10.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/85_Components.pdf)
147	2023-24	Mechanical Engineering	A Workshop on "Software Based Analysis of E-Vehicles"	15	11.12.2023 to 16.12.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/86_SBA.pdf)
148	2023-24	Mechanical Engineering	A Workshop on "E-Vehicles: Challenges and Opportunities"	15	08.01.2024 to 13.01.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/87_Challenges.pdf)
149	2023-24	Mechanical Engineering	A Guest Lecture on "Computer Programming Languages and their Industrial Applications"	30	04.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/88_CompProg.pdf)
150	2023-24	Mechanical Engineering	A Guest Lecture on "Campus to Cosmos: A Mechanical Engineers Odyssey at ISRO"	72	05.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/89_CampustoCosmos.pdf)
151	2023-24	Mechanical Engineering	A Guest Lecture on "From Aspiration to Achievement: Preparing for GATE and Government Careers"	30	13.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/90_GATE.pdf)
152	2023-24	Mechanical Engineering	A Workshop on "CNC Machines"	30	14.03.2024 to 15.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/91_CNCMachines.pdf)
153	2023-24	Mechanical Engineering	A Guest Lecture on "Charting Your Course: Effective Career Goal Planning"	30	21.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/92_CareerGoalPlanning.pdf)
154	2023-24	Mechanical Engineering	A Guest Lecture on "Industrial Applications of SolidWorks in Automotive Design"	21	09.04.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/93_SolidWorks.pdf)
155	2023-24	Mechanical Engineering	A Workshop on "SolidWorks Hands On Modelling of Automotive Components"	21	09.04.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/94_AutomotiveComponents.pdf)
156	2023-24	Mechanical Engineering	A Guest Lecture on "Value Engineering"	28	27.04.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/95_ValueEngg.pdf)

157	2023-24	Mechanical Engineering	A Guest Lecture on "Industry 4.O and Smart Manufacturing"	40	29.04.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/96_SmartManufacturing.pdf)
158	2023-24	Mechanical Engineering	National Conference on Futuristic Trends In Mechanical Engineering	51	07-08 May, 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/97_NCFTME.pdf)
159	2023-24	JIC	Navigating The Engineering Journey Workshop	25	2023-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/JIC/JECRC-Incubation-Centre.pdf)
160	2023-24	JIC	Women In Tech Conference 2024	91		**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/JIC/JECRC-Incubation-Centre.pdf)
161	2023-24	JIC	Guest Session- Ravi Nandan Sinha	25		**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/JIC/JECRC-Incubation-Centre.pdf)
162	2023-24	JIC	Guest Session- Anirudh Kala	25		**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/JIC/JECRC-Incubation-Centre.pdf)
163	2023-24	JIC	Guest Session- Indrajeet Singh	25		**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/JIC/JECRC-Incubation-Centre.pdf)
164	2023-24	JIC	Interactive Session with IAS Officers	48		**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/JIC/JECRC-Incubation-Centre.pdf)
165	2023-24	JIC	Vijay Shekhar Sharma Visit	120		**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/JIC/JECRC-Incubation-Centre.pdf)
166	2023-24	MUN	JECRC MUN -13th Edition	229	10.04.24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/105_MUN.pdf)
167	2023-24	IEEE	Expert talk on Cloud Computing	115	3-Oct-23	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/106_CloudComputing.pdf)
168	2023-24	SRC	Workshop on Social media know how	25	12-Dec-23	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/6.pdf)
169	2023-24	SRC	Living values Workshop	28	22 - 23 Jan, 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/13.pdf)
170	2023-24	SRC	Expert talk by Prof. Girdhari Singh Department of CSE, MNIT	14	10-Feb-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/14.pdf)
171	2023-24	SRC	Expert Talk on Science of Success in the Battle of the Stock Market	134	12-Feb-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/15.pdf)
172	2023-24	SRC	Gamathon Workshop IT	52	21-Feb-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/16.pdf)
173	2023-24	SRC	Gamathon Workshop CSE	60	24-Feb-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/17.pdf)
174	2023-24	SRC	Gamathon Workshop CSAI	50	27-Feb-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/18.pdf)
175	2023-24	SRC	Gamathon Workshop EE	30	27-Feb-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/19.pdf)
176	2023-24	SRC	Workshop on Meditation for Stress Free Life	74	26 Mar-5 Apr 24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/20.pdf)
177	2023-24	SRC	Seminar on Study Techniques for Mental Wellbeing	118	16-Sep-23	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/1.pdf)
178	2023-24	SRC	Seminar on Mastering the Mind	375	5-Oct-23	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/2.pdf)
179	2023-24	SRC	Seminar on Role of Meditation in Overcoming Overthinking	100	11-May-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/25.pdf)
180	2023-24	SRC	Seminar on Debugging your Mind	32	17-May-24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SRC/28.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 2023-24 (180 No.)

Sample Table Upload

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	2023-24	Artificial Intelligence & Data Science	Workshop on Data Science in Python programming with AI with ML	9	09-08-2023 to 23-08-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Data-Science-in-Python-programming-with-AI-with-ML.pdf)
2	2023-24	Artificial Intelligence & Data Science	Workshop on AWS Cloud	287	22nd Nov 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/1_AWSCloud.pdf)
3	2023-24	Artificial Intelligence & Data Science	Expert Talk on "Climate Change and Sustainability"	139	5th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/2_ClimateChange.pdf)
4	2023-24	Artificial Intelligence & Data Science	Conference "IT Crowd Fest"	236	19th Jan 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/3_ITCrowdFest.pdf)
5	2023-24	Artificial Intelligence & Data Science	Workshop on Service Now Modules	5	10-02-2024 to 27-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Service-Now-Modules.pdf)
6	2023-24	Artificial Intelligence & Data Science	Workshop On Data Science For Engineers	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Data-Science-For-Engineers.pdf)
7	2023-24	Artificial Intelligence & Data Science	Workshop On Compiler Design	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Compiler-Design.pdf)
8	2023-24	Artificial Intelligence & Data Science	Workshop on Fundamentals of Programming	67	17-04-2024 to 23-04-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Programming-in-C-Lang-Report.pdf)
9	2023-24	Artificial Intelligence & Data Science	Workshop on "Mastering Linear Regression: A Python Approach"	34	24th April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/4_PythonEvent.pdf)
10	2023-24	Artificial Intelligence & Data Science	Webinar on RHA	55	15th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/5_RHA.pdf)
11	2023-24	Artificial Intelligence & Data Science	Workshop on Big Data	54	15th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/6_BigData.pdf)
12	2023-24	Artificial Intelligence & Data Science	Workshop on Smart Learning Strategies	112	14th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/7_SmartLearningStrategies.pdf)
13	2023-24	Artificial Intelligence & Data Science	Workshop on Data Structure and Algorithms	67	24-04-2024 to 04-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/Data-Structure-and-Algorithms.pdf)
14	2023-24	Artificial Intelligence & Data Science	Workshop on Object Oriented Programming	66	06-05-2024 to 10-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/AIDS/OOPs-Course-Report.pdf)
15	2023-24	Department of IT	Workshop on Cloud Devops and SRE 2023-24 Phase 1	25	21-09-2023 to 05-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Cloud-Devops-and-SRE-2023-24-Phase%201.pdf)
16	2023-24	Department of IT	Workshop on Data Science with ML & AI 2023-24 Phase 1	24	21-09-2023 to 05-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Data-Science-with-ML-AI-2023-24-Phase%201.pdf)
17	2023-24	Department of IT	Workshop on Front end Web Development 2023-24	20	01-09-2023 to 18-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Front-end-Web-Development-2023-24.pdf)
18	2023-24	Department of IT	Workshop on Full Stack Web Developement 2023-24 Phase 1	23	21-09-2023 to 05-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Full-Stack-Web-Developement-2023-24-Phase%201.pdf)
19	2023-24	Department of IT	Workshop on Fundamentals of ML and AI 2023-24	75	01-09-2023 to 18-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Fundamentals-of-ML-and-AI-2023-24.pdf)

20	2023-24	Department of IT	Workshop on Application Development Fundamentals-IT Phase 1	97	25-10-2023 to 31-10-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Application-Development-Fundamentals-IT%20Phase-1.pdf)
21	2023-24	Department of IT	Workshop on Scripting in ServiceNow Fundamentals-IT Phase 1	97	12-10-2023 to 18-10-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Scripting-in-ServiceNow-Fundamentals-IT-Phase%201.pdf)
22	2023-24	Department of IT	Workshop on ServiceNow Administration Fundamentals-IT Phase 1	97	03-10-2023 to 11-10-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/ServiceNow-Administration-Fundamentals-IT-Phase-1.pdf)
23	2023-24	Department of IT	Workshop on Unlocking the power of Java nad JavaScript	87	30.9.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/15_Java.pdf)
24	2023-24	Department of IT	Workshop on GitHub	80	28/11/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/12_GitHub.pdf)
25	2023-24	Department of IT	Expert Talk On Blockchain Technology	74	09/05/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/8_Blockchain.pdf)
26	2023-24	Department of IT	Workshop on Design Of Cross Cable CAT-6	24	22/5/24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/9_CAT-6CableDesign.pdf)
27	2023-24	Department of IT	Expert talk on Full Stack Development	35	13/4/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/10_FullStackDevelopment.pdf)
28	2023-24	Department of IT	Expert talk on Generative AI	30	13/4/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/11_GenrativeAI.pdf)
29	2023-24	Department of IT	Workshop on Networking	19	20/5/24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/13_Networking.pdf)
30	2023-24	Department of IT	Expert Talk on Quantum Computing: A New Paradigm	74	07/05/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/14_QuantumComputing.pdf)
31	2023-24	Department of IT	Workshop on how to Identify Project Ideas	50	21.2.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/16_ProjectIdeas.pdf)
32	2023-24	Department of IT	Workshop on Cloud Devops and SRE 2023-24 Phase 2	7	01-04-2024 to 15-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Cloud-Devops-and-SRE-2023-24-Phase%202.pdf)
33	2023-24	Department of IT	Workshop on Data Science with ML & AI 2023-24 Phase 2	15	01-04-2024 to 15-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Data-Science-with-ML-AI%202023-24-Phase%202.pdf)
34	2023-24	Department of IT	Workshop on Full Stack Web Developement 2023-24 Phase 2	50	01-04-2024 to 15-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Full-Stack-Web-Developement-2023-24-Phase-2.pdf)
35	2023-24	Department of IT	Workshop on Application Development Fundamentals-IT Phase-2	58	27-02-2024 to 04-03-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Application-Development-Fundamentals-IT-Phase-2.pdf)
36	2023-24	Department of IT	Workshop on Scripting in ServiceNow Fundamentals-IT Phase 2	58	20-02-2024 to 26-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/Scripting-in-ServiceNow-Fundamentals-IT-Phase-2.pdf)
37	2023-24	Department of IT	Workshop on ServiceNow Administration Fundamentals-IT Phase 2	58	10-02-2024 to 19-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/IT/ServiceNow-Administration-Fundamentals-IT-Phase-2.pdf)
38	2023-24	Department of IT	6th National Conference On Information Technology & Security Applications (NCITSA-2024)	120	6/5/2024-7/5/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/17_NCITSA.pdf)
39	2023-24	Department of CE	Workshop on Advanced Concrete Technology	30	04-09-2023 to 18-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CE/ADVANCED-CONCRETE-TECHNOLOGY.pdf)
40	2023-24	Department of CE	Workshop on Ground Improvement	30	19-02-2024 to 14-03-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CE/GROUND-IMPROVEMENT.pdf)

41	2023-24	Department of CE	Seminar on Career Guidance for 2nd & 3rd Year StYear Student	92	01/04/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/18_CAREERGUIDANCE.pdf)
42	2023-24	Department of CE	Expert Lecture on Importance of Civil Software	93	02-04-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/19_CivilSoftware.pdf)
43	2023-24	Department of CE	Seminar on About Civil CAD	93	02-04-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/20_CivilCAD.pdf)
44	2023-24	Department of CE	Workshop on "Virtual Lab"	256	29/06/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/21_VirtualLab.pdf)
45	2023-24	Department of CE	National Confrence 2024 (NCETCESD -2024)	60	29/06/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/CR-3/22_NCETCESD.pdf)
46	2023-24	Department of CSE	Workshop on Front End Web Development	107	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Upflair(WebDevelopment)III-sem.pdf)
47	2023-24	Department of CSE	Workshop on Python Programming	72	27-09-2023 to 04-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Upflair(Python)-III-sem.pdf)
48	2023-24	Department of CSE	Workshop-on Linux	40	27-09-2023 to 04-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Upflair(Linux)-III-sem.pdf)
49	2023-24	Department of CSE	Workshop on Full Stack Web Development	67	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Final-Full-Stack-Web-Development.pdf)
50	2023-24	Department of CSE	Workshop on Data Science with ML & AI	74	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Final-Data-Science-with-ML-AI.pdf)
51	2023-24	Department of CSE	Workshop on Cloud & DevOps	32	27-09-2023 to 12-11-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Final-Cloud-DevOps.pdf)
52	2023-24	Department of CSE	Workshop on Service now training	24	10-02-2024 to 27-02-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/CSE/Addon-Service-Now-2023-24.pdf)
53	2023-24	Department of CSE	Computer Graphics	1	24/07/2023-15/09/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Computer-Graphics.pdf)
54	2023-24	Department of CSE	Body Language Key To Professional Success	1	08/21/2023-09/15/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Body-Language.pdf)
55	2023-24	Department of CSE	Designing Learner-Centric E-Learning in STEM Disciplines	1	08/21/2023-09/15/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Designing-Learner.pdf)
56	2023-24	Department of CSE	Software Testing	1	01/22/2024-02/16/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Software-testing.pdf)
57	2023-24	Department of CSE	System and Usable Security	1	1/23/2024-2/16/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/System-Usable.pdf)
58	2023-24	Department of CSE	Programming in Java	4	1/24/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Prog-in-Java.pdf)
59	2023-24	Department of CSE	Ethics in Engineering Practices	1	1/25/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Ethics-in-Engineering.pdf)
60	2023-24	Department of CSE	Business Fundamentals for Entrepreneurs (Part 2: External Operation)	1	1/26/2024-3/15/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Business-Fundamentals.pdf)
61	2023-24	Department of CSE	Data Structure and Algorithm with java	4	7/24/2023-10/16/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/DSA-with-Java.pdf)
62	2023-24	Department of CSE	Discrete Mathematics	2	7/24/2023-10/13/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Discrete-Math.pdf)
63	2023-24	Department of CSE	DataBase Mangement System	3	7/24/2023-9/15/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/DBMS.pdf)
64	2023-24	Department of CSE	Programming in Modern C++	1	7/24/2023-10/13/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Programing-in-Modern-Cplusplus.pdf)
65	2023-24	Department of CSE	Fundamental Algorithms: Design and Analysis	1	1/22/2024-2/16/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Fundamental-Algo.pdf)
66	2023-24	Department of CSE	Computer Networks and Internet Protocol	1	1/22/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Computer-Network-IP.pdf)
67	2023-24	Department of CSE	Compiler Design	1	1/22/2024-4/12/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Compiler-Design.pdf)
68	2023-24	Department of CSE	Cloud Computing	1	7/24/2023-10/13/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Cloud-Computing.pdf)

69	2023-24	Department of CSE	Data Science for Engineers	1	1/22/2024-3/15/2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/Data-Science.pdf)
70	2023-24	Department of CSE	Expert Lecture on CIRCULAR ECONOMY - THE POTENTIAL AND CHALLENGES	92	06 Nov.,2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/23_CircularEconomy.pdf)
71	2023-24	Department of CSE	Expert Lecture on FINANCIAL STATEMENT ANALYSIS	118	12 Dec.,2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/24_FSA.pdf)
72	2023-24	Department of CSE	Workshop on The Enterprise Beast JAVA"	120	7th Oct,2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/25_JAVA.pdf)
73	2023-24	Department of CSE	Technical Event on Code Zeal	24	20th March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/26_CodeZeal.pdf)
74	2023-24	Department of CSE	Technical Event on TechProbe	14	19th March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/27_TechProbe.pdf)
75	2023-24	Department of CSE	Technical Event on Puzzle Mania	71	20 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/28_PuzzleMania.pdf)
76	2023-24	Department of CSE	Technical Event on Pro-Lets	32	21 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/29_Pro-Lets.pdf)
77	2023-24	Department of CSE	Expert Talk - 1 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/30_Keynote(MT).pdf)
78	2023-24	Department of CSE	Expert Talk - 2 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/31_KeyNote(PES).pdf)
79	2023-24	Department of CSE	Expert Talk - 3 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/32_KeyNote(LG).pdf)
80	2023-24	Department of CSE	Technical Session -1 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/33_TS1.pdf)
81	2023-24	Department of CSE	Technical Session -2 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/34_TS2.pdf)
82	2023-24	Department of CSE	Technical Session -3 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/35_TS3.pdf)
83	2023-24	Department of CSE	Technical Session -4 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/36_TS4.pdf)
84	2023-24	Department of CSE	Technical Session -5 in ICE-TEAS 2024	82	15 March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/37_TS5.pdf)
85	2023-24	Department of CSE	Technical Session-6 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/38_TS6.pdf)
86	2023-24	Department of CSE	Technical Session-7 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/39_TS7.pdf)
87	2023-24	Department of CSE	Technical Session-8 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/40_TS8.pdf)
88	2023-24	Department of CSE	Technical Session-9 in ICE-TEAS 2024	82	16-March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/41_TS9.pdf)
89	2023-24	First Year	Workshop on Clash of Coders Phase-1	547	27-11-2023 to 02-12-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Add-on-Course-Report-clash-of-coders-phase-1.pdf)
90	2023-24	First Year	Workshop on C++ by Coding Blocks	1	Dec 2023 to June 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course%20on-C++-by-Coding-Blocks.pdf)
91	2023-24	First Year	Workshop on ENTREPRENEURSHIP ESSENTIALS	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-ENTREPRENEURSHIP-ESSENTIALS.pdf)
92	2023-24	First Year	Workshop on Foundation of Cloud IoT Edge ML	1	Feb to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-Foundation-of-Cloud-IoT-Edge-ML.pdf)
93	2023-24	First Year	Workshop on Linear Programming and Its Applications in Science	1	Feb to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-Linear-Programming-and-its-applications-in-science.pdf)
94	2023-24	First Year	Workshop on Problem Solving through Programming In C	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Addon-course-on-Problem-Solving-through-Programming-In-C.pdf)
95	2023-24	First Year	Workshop on Introduction to programming in C-1	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/First-Year/Introduction-to-programming-in-C-1-(1).pdf)

96	2023-24	First Year	Workshop on Joy of Experimental Learning of Science: An approach towards NEP"	54	2nd-6th April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/42_JoyOfExp.pdf)
97	2023-24	First Year	Expert talk on "Art of effective speaking "	41	16th Apr 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/43_EffectiveSpeaking.pdf)
98	2023-24	First Year	Workshop on Inside the Machine:Exploring Computer Hardware Basics	273	24th Apr - 3rd May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/44_ComputerHardware.pdf)
99	2023-24	First Year	Expert Talk on "An introduction to ancient Vedic Mathematics"	95	29 April 2024.	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/45_VedicMaths.pdf)
100	2023-24	First Year	Mathematical Workshop on Reasoning and Aptitude	90	2nd-9th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/46_Reasoning.pdf)
101	2023-24	First Year	Online Workshop on Open Access Publishing in collaboration with Central University of Himachal Pradesh	56	18-May-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/47_OpenAccess.pdf)
102	2023-24	First Year	National Conference On Application of Basic Science and Communication in Engineering	59	10th-11th, June 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/48_ConferenceBasicScience.pdf)
103	2023-24	Department of ECE	Workshop on Ansys	75	6th Jul-8th Aug 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/49_Ansys.pdf)
104	2023-24	Department of ECE	Workshop on Artificial Intelligence	96	22nd Aug-20th Sep 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/50_AI.pdf)
105	2023-24	Department of ECE	Workshop on Embedded System Desgin & Devlopment using Ardunio	105	14 sep 2023 -15sep 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/51_Embedded.pdf)
106	2023-24	Department of ECE	Workshop on Artificial Intelligence and Machine Learning using Python	72	5th Nov-9th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/52_AIML.pdf)
107	2023-24	Department of ECE	Workshop on IOT for Future Communication	109	6th Nov-9th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/53_IOT.pdf)
108	2023-24	Department of ECE	Expert talk by Dr. Nikhil Kant (Deputy Director, AICTE)	42	16th Dec 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/54_NK.pdf)
109	2023-24	Department of ECE	Workshop on Smart Antenna Technology for Enhanced Communication	55	4th Feb-2nd March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/55_SmartTechnology.pdf)
110	2023-24	Department of ECE	Workshop on Machine learning with Data Science	109	4th Feb-2nd March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/56_MIDS.pdf)
111	2023-24	Department of ECE	Discover IEEE Oppurntiues in Membership & Volunteering	45	23April 24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/57_IEEEOpp.pdf)
112	2023-24	Department of ECE	Workshop on Quantum Robots: A Review, Structure and Apllications	84	7 May 24	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/58_QuantumRobots.pdf)
113	2023-24	Department of ECE	National Conference on Recent Advancement in Communication, Optical and Nanoscience (RACON 24)	180	7th-8th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/59_RACON.pdf)

114	2023-24	Department of ECE	Expert Talk by Dr. Gajendra Purohit	458	13th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/60_GajendraPurohit.pdf)
115	2023-24	Department of ECE	Seminar on “Insights on SAS For Innovative AI and Analytics”	24	17th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/61_SAS.pdf)
116	2023-24	Computer Science and Engineering(AI)	Workshop on Course on Front end web development	15	27th Sep 2023 - 14th Oct 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/62_FED.pdf)
117	2023-24	Computer Science and Engineering(AI)	Workshop on Course on Python programming	32	27th Sep 2023 - 14th Oct 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/63_PythonProgramming.pdf)
118	2023-24	Computer Science and Engineering(AI)	Workshop on Course on Linux	16	27th Sep 2023 - 14th Oct 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/64_LINUX.pdf)
119	2023-24	Computer Science and Engineering(AI)	EXPERT LECTURE ON CIRCULAR ECONOMY - THE POTENTIAL AND CHALLENGES	60	6th Nov 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/65_CircularEconomy.pdf)
120	2023-24	Computer Science and Engineering(AI)	EXPERT LECTURE ON FINANCIAL STATEMENT ANALYSIS	60	12th December2023	**Link** (https://jecrcfoundation.com/naacdata/FSA_CSAI.pdf)
121	2023-24	Computer Science and Engineering(AI)	Expert Talk on Mastering Linear Regression: A Hands-On Python Approach"	60	23rd April 2024	**Link** (https://jecrcfoundation.com/naacdata/LR_CSAI.pdf)
122	2023-24	Computer Science and Engineering(AI)	WEBINAR ON UNLOCKING THE POWER OF LINUX	60	16 th May2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/68_PowerOfLinux.pdf)
123	2023-24	Computer Science and Engineering(AI)	Worksop on PATHWAY TO PROFESSIONALISM: CRAFTING YOUR APPROACH TO COMPANIES	50	27 th May 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/69_PathwayProfessionals.pdf)
124	2023-24	Electrical Engineering	Workshop on Fundamental Course on IOT based Smart System	40	11-09-2023 to 27/09/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/70_IOTBasedSmartSystem.pdf)
125	2023-24	Electrical Engineering	Workshop on Fundamental Course on Automation	28	01-09-2023 to 23-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/71_Automation.pdf)
126	2023-24	Electrical Engineering	Workshop on Fundamental course on Embedded System	40	11-09-2023 to 27/09/2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/72_Embedded.pdf)
127	2023-24	Electrical Engineering	Workshop on EV Design using Matlab Simulation	40	22-04-2024 to 11-05 -2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/73_EVMatlab.pdf)
128	2023-24	Electrical Engineering	Workshop on Fundamental Course on C and C++	27	22-04-2024 to 11-05 -2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/74_CProg.pdf)
129	2023-24	Electrical Engineering	Workshop on Substation Component and its Applications	28	03-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/75_SubstationComponents.pdf)
130	2023-24	Electrical Engineering	6th National Conference-RTSTEE-2024	65	22-05-2024 to 23-05-2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/76_EEConference.pdf)
131	2023-24	Electrical Engineering	One Day Seminar on Engineer’s Day Celebration	30	15-09-2023	.....
132	2023-24	Electrical Engineering	One Day Seminar on Teacher’s Day Celebration	29	05-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/78_TeachersDay.pdf)
133	2023-24	Electrical Engineering	One Day Seminar on Hindi Divas Celebration	30	14-09-2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/79_HindiDiwas.pdf)
134	2023-24	Mechanical Engineering	Workshop on Principal of Casting Technology	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Casting_Tech_ME_2023_24_Final.pdf)

135	2023-24	Mechanical Engineering	Workshop on Developing Soft Skills	1	July to September 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Developing_Soft_Skills_ME_2023_24_Final.pdf)
136	2023-24	Mechanical Engineering	Workshop on Engg Thermodynamics	1	Jan to April 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Engg_Thermodynamics_ME_2023_24_Final.pdf)
137	2023-24	Mechanical Engineering	Workshop on Lase Based Manufcaturing	1	August to October 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Lase_Based_Manufcaturing_ME_2023_24_Final.pdf)
138	2023-24	Mechanical Engineering	Workshop on Nature and Properties Materials	1	Jan to March 2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_NatureandProperties_Materials_ME_2023_24_Final.pdf)
139	2023-24	Mechanical Engineering	Workshop on Problem solving through C	1	July to October 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Problem_solving_through_C_ME_2023_24_Final.pdf)
140	2023-24	Mechanical Engineering	Workshop on Solid Mechanics	1	July to October 2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/ADDON/ME/NPTEL_Solid_Mechanics_ME_2023_24_Final.pdf)
141	2023-24	Mechanical Engineering	A Guest Lecture on "Challenges and Opportunities in E-vehicles"	17	01.09.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/80_E-Vehicles.pdf)
142	2023-24	Mechanical Engineering	A Guest Lecture on "Futuristic trends in automobile Engineering"	22	12.09.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/81_AutomobileEngg.pdf)
143	2023-24	Mechanical Engineering	A Workshop on "IC Engines, EVs and Hybrid Vehicles"	34	15.09.2023 to 16.09.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/82_ICEngines.pdf)
144	2023-24	Mechanical Engineering	A Workshop on "E-Vehicles: Power Train Components"	15	09.10.2023 to 14.10.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/83_PowerTrain.pdf)
145	2023-24	Mechanical Engineering	A Guest Lecture on "Industrial Applications of Designing Software"	25	12.10.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/84_DesigningSoftware.pdf)
146	2023-24	Mechanical Engineering	A Workshop on "Components and Working of E-Vehicles"	15	16.10.2023 to 21.10.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/85_Components.pdf)
147	2023-24	Mechanical Engineering	A Workshop on "Software Based Analysis of E-Vehicles"	15	11.12.2023 to 16.12.2023	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/86_SBA.pdf)
148	2023-24	Mechanical Engineering	A Workshop on "E-Vehicles: Challenges and Opportunities"	15	08.01.2024 to 13.01.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/87_Challenges.pdf)
149	2023-24	Mechanical Engineering	A Guest Lecture on "Computer Programming Languages and their Industrial Applications"	30	04.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/88_CompProg.pdf)
150	2023-24	Mechanical Engineering	A Guest Lecture on "Campus to Cosmos: A Mechanical Engineers Odyssey at ISRO"	72	05.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/89_CampustoCosmos.pdf)
151	2023-24	Mechanical Engineering	A Guest Lecture on "From Aspiration to Achievement: Preparing for GATE and Government Careers"	30	13.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/90_GATE.pdf)
152	2023-24	Mechanical Engineering	A Workshop on "CNC Machines"	30	14.03.2024 to 15.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/91_CNCMachines.pdf)
153	2023-24	Mechanical Engineering	A Guest Lecture on "Charting Your Course: Effective Career Goal Planning"	30	21.03.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/92_CareerGoalPlanning.pdf)
154	2023-24	Mechanical Engineering	A Guest Lecture on "Industrial Applications of SolidWorks in Automotive Design"	21	09.04.2024	**Link** (https://jecrcfoundation.com/jf-data/AQAR2023-24/31/CR-3-REPORTS/SCW/93_SolidWorks.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) (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	SKIT
2	Badminton (Boys) Ist Position	National	Naman Sahay Bhatnagar	6/11/2023	8/11/2023	SKIT
3	Badminton (Boys) Ist Position	National	Raman Agarwal	6/11/2023	8/11/2023	SKIT
4	Badminton (Boys) Ist Position	National	Milan Sain	6/11/2023	8/11/2023	SKIT
5	Badminton (Boys) Ist Position	National	Madhav Saraswat	6/11/2023	8/11/2023	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

2024-25

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	SKIT
2	Badminton (Girls) Ist Position	National	Anushka Sharma	2/10/2024	4/10/2024	SKIT
3	Badminton (Girls) Ist Position	National	Sonali Agrawal	2/10/2024	4/10/2024	SKIT
4	Badminton (Girls) Ist Position	National	Anjali Meena	2/10/2024	4/10/2024	SKIT
5	Badminton (Boys) Ist Position	National	Pranjal Arora	2/10/2024	4/10/2024	SKIT
6	Badminton (Boys) 2nd Position	National	Aman Agrawal	2/10/2024	4/10/2024	SKIT
7	Badminton (Boys) 2nd Position	National	Madhav Saraswat	2/10/2024	4/10/2024	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	SKIT
12	Table Tennis (Boys) Ist Position	National	Sanyam Jain	2/10/2024	4/10/2024	SKIT
13	Table Tennis (Boys) Ist Position	National	Akash Singh Kushwaha	2/10/2024	4/10/2024	SKIT
14	Table Tennis (Boys) Ist Position	National	Ankit Godara	2/10/2024	4/10/2024	SKIT
15	Table Tennis (Boys) Ist Position	National	Prakhar Jain	2/10/2024	4/10/2024	SKIT

Details of activities conducted under NSS:

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

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 120.00

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 scientists of national repute, renowned academicians and eminent personalities 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.

In addition the BoG shall have:

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 2024-25

Name	Position	Category	Qualification	Telephone numbers	E-mail	Add
Mr. M.L. Sharma, Vice Chairman	Chairman	Vice Chairman	UG	9414279663	vc@jecrc.ac.in	F-30 Major Shait shastri Nagar Jaip
Dr. R. K. Mangal, Registrar	Member	Registrar	Ph.D	9251039860	registrar@jecrc.ac.in (mailto:registrar@jecrc.ac.in)	F-403, Bony Star near NRI Colony 302017
Mr. Manish Jain, Prof. Mechanical Engg.	Member	Senior faculty member of the college	M.Tech.	9214399647	manishjain@jecrc.ac.in	13/22, Malviya Na
Dr. Umesh Kumar Pareek, Prof. Mathematics	Member	Senior faculty member of the college	Ph.D	9785506667	ukpareek69@yahoo.co.in	Near CTS Bus St Mohalla, Sangane (Raj)-2732271
Nominiee of the State Govt./UT	Member	Will be Notify the State Government				
Nominiee of the State Govt./UT	Member	Will be Notify the State Government				
Dr. Ashok Sharma, Associate Prof. Electrical Engg.	Member	Senior faculty member from university	Ph.D.	9414569433	aksharma_eck@hotmail.com	Rajathan Technic Kota
Forsk Technology (Dr. Sylvester Fernandes), Director	Member	Industrial expert in the field of engg. and technology	Ph.D	0141-2770232	info@forsk.in (mailto:info@forsk.in)	M-5, Software Bu Industiral Area EP Jaipur 302022
CADD Centre Services Pvt. Ltd. Chennai	Member	Industrial expert in the field of engg. and technology	M.Tech	0141-4002023	rj.jairajapark@caddcentre.com	Door No. 106-107 Mahima Majesty,
Mr. Amit Agrawal, Vice Chairperson	Guest			0141-2770803	amit@jecrcmail.com (mailto:amit@jecrcmail.com)	25, shri Rampura Jaipur
Dr. Vinay Kumar Chandna, Principal	Member Secretary	Principal	Ph.D.	9891406784	principal@gmail.com	A-104, Aasha Dee Gyan Vihar Unive Jaipur

Frequency of meeting: Biannually

Minutes of the last meeting is annexed as below

S.No	Academic Year	No. of Meeting

1	2024-25	2
2	2023-24	2
3	2022-23	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 in for 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 also stands in for chairman in his absence.

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

Principal: As Head of the Institution, he shall exercise his authority for institution building. He will act as a Competent Authority for all Faculty Members and office staff and be responsible for overall human resource management of their appointment, utilization, retrenchment, 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: 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, 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) is also delegated for routine exercise.

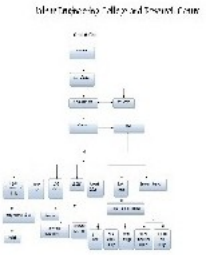
Registrar

- 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.

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	2024-25	BOG MOM	Link (https://jecrcfoundation.com/naacdata/BOG_2024-25_N.pdf)
2	2023-24		Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/Composition-of-Board-of-Governors-2023-24.pdf)
3	2022-23		Link (https://jecrcfoundation.com/jf-data/AQAR2023-24/BOG%20Committee%202022-23.pdf)
4	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) 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 2024-25

IQAC Committee (2024-25)

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. Vijeta Kumawat	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. Krishna Kumar Saini	Program Coordinator CE
9.	Dr. Manju Vyas	Program Coordinator AI&DS
10.	Dr. Neeraj Singh	Program Coordinator CSE(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.	Dr. R.K. Mangal, Registrar	Member
15.	Shri Ramesh Rawat	Member
16.	Mr. Rajiv Bhargava, Industrial Representative	Member
17.	Shri Manish Kumar, Parent	Member
18.	Ms. Mansi Mehta, Alumni	Member
19.	Ms. Garvita Jain, Student	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

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)

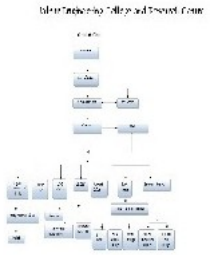
JECRC Policy Link: https://jecrcfoundation.com/wp-content/uploads/2023/04/Policy-Booklet.pdf (https://jecrcfoundation.com/wp-content/uploads/2023/04/Policy-Booklet.pdf)

S.No	Year of Students List	Link	Year of Faculty List	Link
1	2024-25 Student List	View (https://jecrcfoundation.com/naacdata/Student%20List%202024-25.pdf)	2024-25 Faculty List	View (https://jecrcfoundation.com/naacdata/Faculty%20List%202024-25.pdf)
2	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)
3	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)

The Management of JECRC believes in delegating authority and responsibility among its officials involved in decision making at various capacities. At the institute level, Pri 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 position Placement Officer, chief wardens, Registrar, account officer ,chief librarian, extension activities incharge etc. and are also members of various decision-making administrati 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. Vijeta Kumawat
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

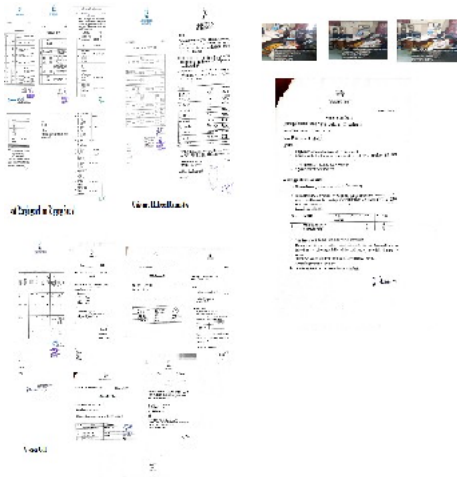
Management Committee:

Chairman	Shri O.P. Agarwal
Vice Chairman	Shri M.L. Sharma

Vice Chairpeson	Shri Amit Agarwal
Vice Chairpeson	Shri Arpit Agarwal

Institutional Committee and Link for the session 2024-25, 2023-24 and 2022-23

S. No	Name of Committee	Link 2024-25	Link 2023-24	
1	National Society for Engineering Research and Development(NSERD)	View (https://jecrcfoundation.com/naacdata/NSERD%20MOM%202024-25.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/11/NSERD%20and%20MOM%202023-24.pdf)	24/
2	Board of Governance (As per AICTE)	View (https://jecrcfoundation.com/naacdata/BOG_2024-25_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Composition-of-Board-of-Governors-2023-24.pdf)	24
3	Anti-Ragging Committee	View (https://jecrcfoundation.com/naacdata/com/Anti-Ragging_2024-25_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Anti%20Ragging%20Committee%20and%20MOM.pdf)	dat
4	Anti-Ragging Squad Committee	View (https://jecrcfoundation.com/naacdata/com/Anti-Ragging_Squad_2024-25_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Anti%20Ragging%20Committee%20and%20MOM.pdf)	dat
5	Student Grievance Redressal Committee	View (https://jecrcfoundation.com/naacdata/com/Grievance-Redressal_2024-25_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/3-GRIEVANCE-REDRESSAL-COMMITTEE-2023-24.pdf)	
6	Women Cell Committee	View (https://jecrcfoundation.com/naacdata/com/Women_Cell_2024-2025_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Women%20Cell%20MOM.pdf)	
7	Sexual Harassment Committee	View (https://jecrcfoundation.com/naacdata/com/Sexual_Harassment_2024-2025_N.pdf)	View (https://jecrcfoundation.com/naacdata/Sexual-haressment_2023-24.pdf)	(https
8	Students Disciplinary Council Committee	View (https://jecrcfoundation.com/naacdata/com/Student_Disciplinary_2024-25_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/Student%20Disciplinary%20Committee%20and%20MOM%202023-24.pdf)	data
9	SC/ST Cell Committee	View (https://jecrcfoundation.com/naacdata/com/SC-ST_2024-25_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/5-SC-ST-Committee-2023-24.pdf)	data
10	IQAC Committee	View (https://jecrcfoundation.com/naacdata/com/IQAC_2024-25_N.pdf)	View (https://jecrcfoundation.com/jf-data/AQAR2023-24/IQAC%20MOM%20Final.pdf)	dat



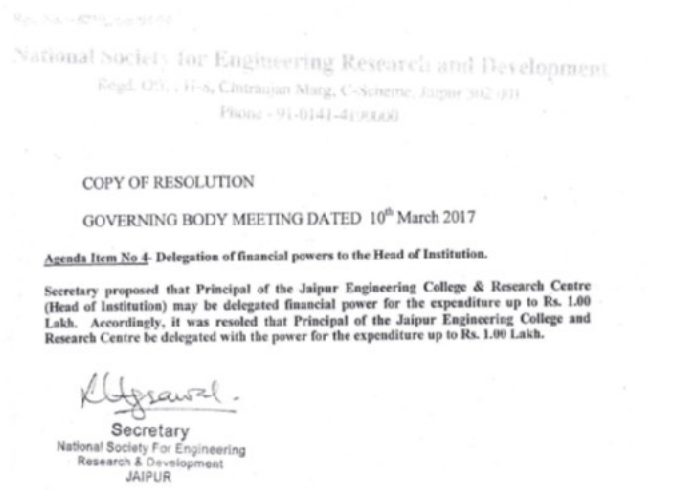
10.1.4 Delegation of financial powers (10) Institute Marks : 10.00

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 resolved 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

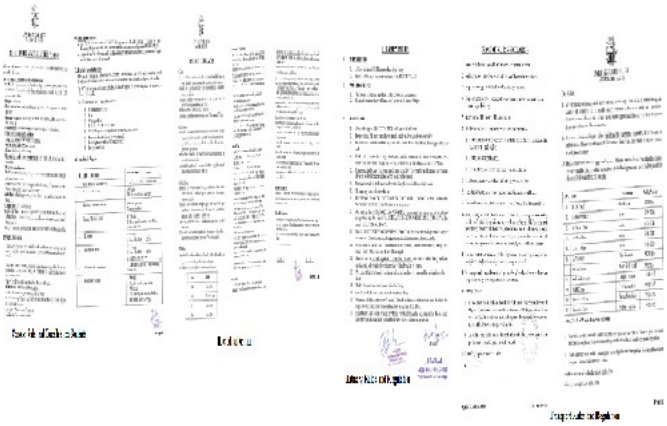
All Information's are available at College Website https://jecrcfoundation.com/ (https://jecrcfoundation.com/)

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- (https://jecrcfoundation.com/mandatory-disclosure/) 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 2024-25

Total Income 369665758				Actual expenditure(till…): 384424088			Total No. Of Students 4195
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
369665758	0	0	0	305681665	78742423	0	91638.64

Table 2 - CFYm1 2023-24

Total Income 249582398				Actual expenditure(till…): 359652239			Total No. Of Students 3780
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
249582398	0	0	0	324410836	35241403	0	95146.09

Table 3 - CFYm2 2022-23

Total Income 334994970				Actual expenditure(till…): 379648140			Total No. Of Students 3639
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
334994970	0	0	0	356470548	23177592	0	104327.60

Table 4 - CFYm3 2021-22

Total Income 307179667				Actual expenditure(till…): 445023157			Total No. Of Students 3526
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
307179667	0	0	0	402281613	42741544	0	126211.90

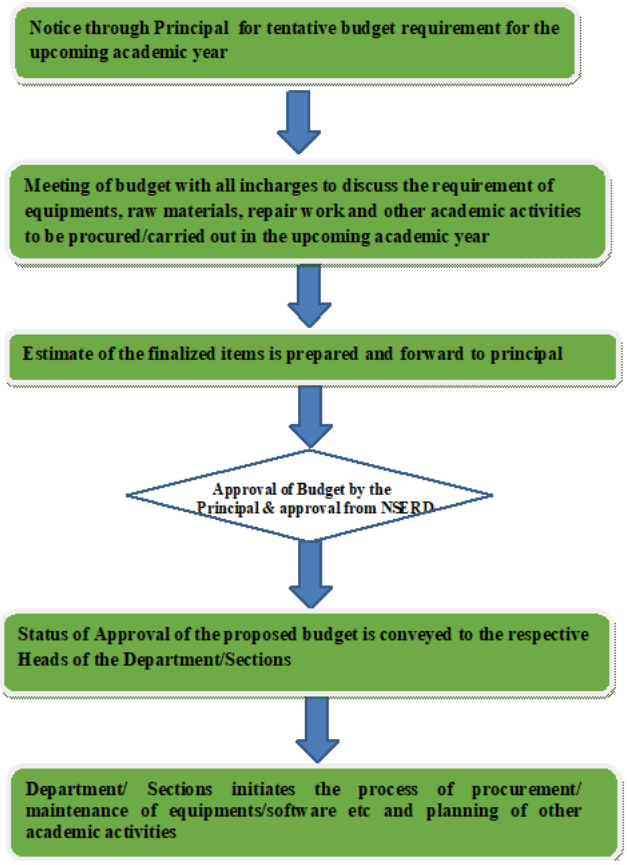
Items	**Budgeted in 2024-25**	**Actual Expenses in 2024-25 till**	**Budgeted in 2023-24**	**Actual Expenses in 2023-24 till**	**Budgeted in 2022-23**	**Actual Expenses in 2022-23 till**	**Budgeted in 2021-22**	**Actual Expenses in 2021-22 till**
Infrastructure Built-Up	100000000.00	78742423.00	31282000.00	35241403.00	15500000.00	18728345.00	38500000.00	41381426.00
Library	4000000.00	4301508.00	650000.00	675381.00	400000.00	409519.00	330000.00	321267.00
Laboratory equipment	8500000.00	8165521.00	8850000.00	8996732.00	4560000.00	4524612.00	1600000.00	1475513.00
Laboratory consumables	300000.00	314156.00	400000.00	424007.00	100000.00	115435.00	140000.00	146630.00
Teaching and non-teaching staff salary	180000000.00	169467292.00	145000000.00	153809670.00	113500000.00	129699456.00	127000000.00	130382203.00
Maintenance and spares	25000000.00	22971350.00	12000000.00	15356990.00	11000000.00	13329696.00	12500000.00	14403343.00
R&D	500000.00	327768.00	1000000.00	1119288.00	1500000.00	1767399.00	100000.00	110630.00
Training and Travel	4500000.00	4221235.00	3000000.00	3298265.00	1800000.00	1906569.00	1300000.00	1319934.00
	100000000.00	95912835.00	137818000.00	140729903.00	216640000.00	209167109.00	253530000.00	255482211.00
Others, specify	0	0	0	0	0	0	0	0
Total	**422800000.00**	**384424088.00**	**340000000.00**	**359651639.00**	**365000000.00**	**379648140.00**	**435000000.00**	**445023157.00**

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

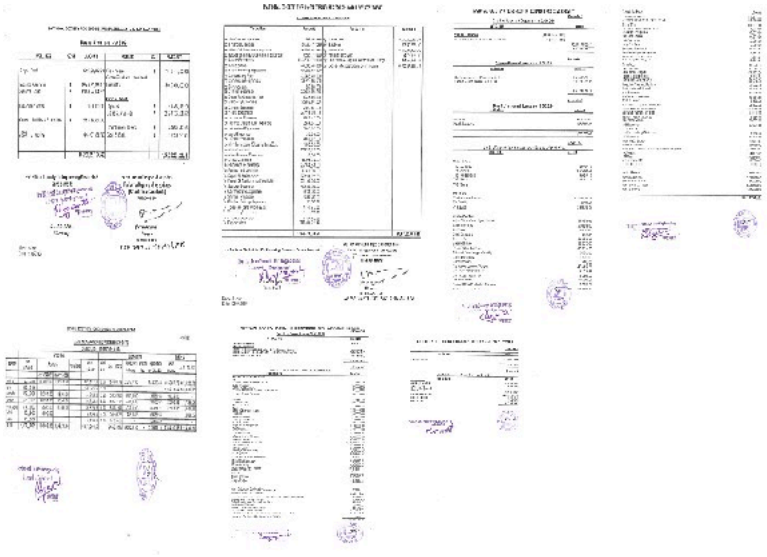
10.2.2 Utilization of allocated funds (15) Institute Marks : 15.00

Table showing utilization of Budget (Institute)

Financial Year	Budgeted (in Rs)	Actual Expenditure (in Rs)	Percentage of Utilization (%)
2024-25	422800000	384424088	90.92
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/)



10.3 Program Specific Budget Allocation, Utilization (30) Total Marks 30.00

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 2024-25

1500000		Actual expenditure (till…): 1110011		Total No. Of Students 411
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
700000	800000	435323	674688	2700.76

Table 2 :: CFYm1 2023-24

1400000		Actual expenditure (till…): 910038		Total No. Of Students 470
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1175000	225000	866985	43053	1936.25

Table 3 :: CFYm2 2022-23

1200000		Actual expenditure (till…): 496290		Total No. Of Students 984
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
975000	225000	492790	3500	504.36

Table 4 :: CFYm3 2021-22

500000		Actual expenditure (till…): 306751		Total No. Of Students 560
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
175000	325000	132538	174213	547.77

Items	**Budgeted in 2024-25**	**Actual Expenses in 2024-25 till**	**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**
Laboratory equipment	125000.00	70800.00	100000.00	36108.00	100000.00	0	200000.00	168950.00
Software	650000.00	599999.00	100000.00	0	100000.00	0	100000.00	0
Laboratory consumable	25000.00	3889.00	25000.00	6945.00	25000.00	3500.00	25000.00	5263.00
Maintenance and spares	50000.00	50000.00	10000.00	10000.00	10000.00	10000.00	5000.00	5000.00
R & D	250000.00	150250.00	350000.00	165000.00	300000.00	120710.00	20000.00	1240.00
Training and Travel	200000.00	60073.00	450000.00	411160.00	350000.00	114000.00	100000.00	93000.00
	200000.00	175000.00	365000.00	280825.00	315000.00	248080.00	50000.00	33298.00
Total	**1500000.00**	**1110011.00**	**1400000.00**	**910038.00**	**1200000.00**	**496290.00**	**500000.00**	**306751.00**

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 : 20.00

Table Showing Utilization of Budget

Financial Year	Budgeted (in Rs)	Actual Expenditure (in Rs)	Percentage of Utilization (%)
2024-25	15,00,000	11,10,011	74.00
2023-24	14,00,000	9,10,038	65.00
2022-23	12,00,000	4,96,290	41.36
2021-22	5,00,000	3,06,751	61.35

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

Web Address: http://www.delnet.nic.in (http://www.delnet.nic.in/) (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/) (https://jecrcfoundation.com/videos/) (https://jecrcfoundation.com/videos/)

Library is automated using Integrated Library Management System (ILMS)

S.No	Infrastructure	Total Count	Description	Related Link
1	Library Management Software	01	**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)

Proposed Budget and Expenditure in Library

S. No.	Year	Proposed Budget	Expenditure
1	2024-2025	40,00,000	43,01,508
2	2023-2024	6,50,000	6,75,381
3	2022-2023	4,00,000	4,09,519
4	2021-2022	3,30,000	3,21,267

Library Budget and Expenditure 2024-25:

S. No.	Category	Items	Budget Sanctioned (In Rs.)	Total Expenditure (In Rs.)
1	Library Books	3750	20,00,000	23,76,797
2	Journals/News Paper/E-resources	Jour. (67)	4,00,000	3,98,254
3	Library Management System (Koha with RFID)		15,00,000	15,00,000
4	Other Expenses		1,00,000	26,457
	Total		**40,00,000**	**43,01,508**

Total Expenditure by Institute in Library 43,01,508 Rupees Only

Books and Journals Available in Library 2024-25

Branch/Disc	No. of Title	No. of Volume	No. of Tech. Journals National	No. of Tech. Journals International
Electronics & Communication	1008	4353	04	02
Electrical Engg.	677	3159	03	--
Computer Engg.	1138	5447	08	06
AI & DS	41	407	03	01
Information Tech.	724	2465	04	02

Civil Engineering	404	2051	04	03
Mechanical Engg.	1162	4818	09	01
Physics	297	1655	02	--
Chemistry	188	1632	02	--
Mathematics	363	2230	01	01
Other (English, Hindi Dictionary)	656	1404	08	--
CS&AI	30	456	02	01
Book Bank ST/SC Gen	_	7043	--	--
JECRC University NCR Campus, Alwar	5497	7843		
Write Off Books (-)	470	3089		
Total	**11715**	**41874**	**50**	**17**

Books & Journals Details Last Three Years:

Particulars	Session 2022-2023	Session 2023-2024	Session 2024-2025
Books Volume	32815	33370	41874
National Journals	43	45	50
International Journals	17	16	17

Book Issuing and Visiting Users Report of Library

Academic Year Ist July- 2024 to June- 2025

S. No.	Month	Book Issuing			Library Users		Total
		Student	Faculty	Total	Student	Faculty	
1	July. 2024	15	29	44	614	70	684
2	August. 2024	0	7	7	99	19	118
3	Sept. 2024	254	26	280	8089	7	8096
4	Oct.2024	80	13	93	7398	0	7398
5	Nov.2024	1010	28	1038	6494	3	6497
6	Dec. 2024	1119	13	1132	452	1	453
7	Jan. 2025	1124	16	1140	2681	15	2696
8	Feb. 2025	665	11	676	2290	0	2290
9	Mar.2025	578	15	593	2221	22	2243
10	April. 2025	699	22	721	4256	118	4374
11	May. 2025						
12	June. 2025						
	Total	**5544**	**180**	**5724**	**34594**	**255**	**34849**

Total Users Student and Faculty = 40573

Magazine List 2024-25

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

Journal List 2025 (Jan 2025 to Dec 2025)

S.N.	National Journals Name	Periodicity
1	The IUP Jour. of Information Technology	Quarterly
2	The IUP Jour. of Mechanical Engineering	Quarterly
3	The IUP Jour. of Structural Engineering	Quarterly
4	The IUP Jour. of Telecommunication	Quarterly
5	Jour. of Engineering Design & Analysis	Half Yearly
6	Jour. of Adv. Research In Networking and Comm. Engg.	Half Yearly
7	Jour. of Adv. Research in Power Electronic & Power System	Half Yearly
8	Jour. of Adv. In Research in Cloud Computing Virtualization & Web Application	Half Yearly
9	Jour. of Adv. Research in Signal Processing & Application	Half Yearly
10	Jour. of Adv. Research in Civil and Environmental Engg.	Half Yearly
11	Jour. of Adv. Research in Wireless Mobile & Telecommunication	Half Yearly
12	Jour. of Adv. Research in Computer Graphics and Multimedia Technology	Half Yearly
13	Jour. of Adv. Research in Applied Physics & Application	Half Yearly
14	Jour. of Adv. Research in Applied Chemistry & Chemical Engg.	Half Yearly
15	Jour. of Adv. Research in Applied Mathematics & Statistics	Half Yearly
16	Jour. of Adv. Research in Operating System Development & Evolution	Half Yearly
17	Jour. of Adv. Research in Computer Technology & SOftware Application	Half Yearly
18	Jour. of Adv. Research in Intelligence System & Robotics	Half Yearly
19	Indian Jour. of Control Science & Engineering	Half Yearly
20	Indian Jour. of Civil Mechanical Engineering	Half Yearly
21	Indian Jour. of Engineering & Manufacturing Science	Half Yearly
22	Journals of Civil Engineering	Half Yearly
23	Jour. of Mechanical and MEMS (JMM)	Half Yearly
24	Granthalaya Vigyan	Half Yearly
25	Jour. of Adv. In Civil Engineering & Management	3 Issues (Print+Online)
26	Jour. of Research & Advancement in Electrical Engg.	3 Issues (Print+Online)
27	Research and Applications: Embedded System	3 Issues (Print+Online)
28	Recent Trends in Automation & Automobile Engg.	3 Issues (Print+Online)
29	Research and Reviews: Advancement in Robotics	3 Issues (Print+Online)
30	Jour. of Network Security Computer Network	3 Issues (Print+Online)
31	Jour. of Web Development and Designing	3 Issues (Print+Online)
32	Jour. of Image Processing and Artificial Intelligence	3 Issues (Print+Online)
33	Jour. of Mechanical Robotics	3 Issues (Print+Online)
34	Adv. Research in Communication Engineering and Its Innovations	3 Issues (Print+Online)
35	Jour. of Water Resource & Pollution Studies	3 Issues (Print+Online)
36	Jour. of Modern Thermodynamics in Mechanical System	3 Issues (Print+Online)
37	Recent Trends In Cloud Computing and Web Engineering	(Online+Print)
38	Jour. of Advancement in Big Data Science and Data Analysis	(Online+Print)
39	Jour. of Advanced Research in Artificial Intelligence & Its Application	(Online+Print)
40	Research and Reviews: Advancement in Cyber Security	(Online+Print)
41	Jour. of Advanced Research in Algorithm Engineering Review: Design and Analysis	(Online+Print)

42	Jour. of Advanced Research in Tools & Technology in SOftware Engg	(Online+Print)
43	Indian Jour. of Chemistry	Monthly
44	Indian Jour. of Pure & Applied Physics	Monthly
45	CSIR News	Monthly
46	Indian Jour. of Engineering & Material Science	Monthly
47	Science Reporter	Monthly
48	Yojana (English Version)	Monthly
49	University News	Weekly
50	Economics & Political Weekly	Weekly

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, D 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	Ability to develop knowledge of Embedded Systems and its application in Automation.
PSO2	Ability to develop the concept of Electric Vehicle (EV) to meet Industry Applications.

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 : 03-06-2025 14:56:31