

DMI COLLEGE OF ENGINEERING
ELECTRONICS AND COMMUNICATION ENGINEERING

Part A : Institutional Information

1 Name and Address of the Institution

DMI COLLEGE OF ENGINEERING,
DMI COLLEGE OF ENGINEERING MEVALURKUPPAM B VILLAGE NAZARETHPET POST PALANCHUR KANCHIPURAM DISTRICT

2 Name and Address of Affiliating University

3 Year of establishment of the Institution:

2001

4 Type of the Institution:

<input type="checkbox"/> University	<input checked="" type="checkbox"/> Autonomous
<input type="checkbox"/> Deemed University	<input type="checkbox"/> Affiliated
<input type="checkbox"/> Government Aided	

5 Ownership Status:

<input type="checkbox"/> Central Government	<input type="checkbox"/> Trust
<input type="checkbox"/> State Government	<input checked="" type="checkbox"/> Society
<input type="checkbox"/> Government Aided	<input type="checkbox"/> Section 25 Company
<input checked="" type="checkbox"/> Self financing	<input type="checkbox"/> 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
LOYOLA INSTITUTE OF TECHNOLOGY	2003	B.E/B.TECH/MBA	PALANCHUR
DMI COLLEGE OF EDUCATION	2007	B.Ed	PALANCHUR
ST.JOSEPH RESIDENTIAL SCHOOL	1994	CBSE	SRIPERUMBUDUR
ST.JESEPH INTERNATIONAL SCHOOL	2015	CBSE	KODIKOTTAI
LOYOLA ACADEMY M.H.S.S	2011	MATRIC	TAMBARAM
ST.JESEPH INTERNATIONAL SCHOOL	2015	CBSE	ARALVOYMOZHI
ST.JESEPH INTERNATIONAL SCHOOL	2015	CBSE	SALEM
DMI ST.JOSEPH GLOBAL SCHOOL	2016	CBSE	TENKASI
DMI ST.JOSEPH GLOBAL SCHOOL	2017	CBSE	POLIVAKKAM
DMI ST.JOSEPH GLOBAL SCHOOL	2017	CBSE	KEEZHITHANUR
DMI ST.JOSEPH GLOBAL SCHOOL	2020	CBSE	KARAIKAL
LOYOLA INTERNATIONAL SCHOOL	2021	CBSE	PALANCHUR
DMI ST.JOSEPH GLOBAL SCHOOL	2016	CBSE	YAHAPURAM

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 and Communication Engineering	UG	2001	2001	60	Yes	60	Granted accreditation for 3 years for the period (specify period)	2022	2025	Yes	4

Sanctioned Intake for Last Five Years for the Electronics and Communication Engineering

Academic Year	Sanctioned Intake
2024-25	60
2023-24	60
2022-23	60
2021-22	60
2020-21	120
2019-20	180

M.E Communication Systems	PG	2009	2009	18	Yes	12	Not eligible for accreditation	--	--	No	2
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Sanctioned Intake for Last Five Years for the M.E Communication Systems

Academic Year	Sanctioned Intake
2024-25	12
2023-24	12
2022-23	12
2021-22	12
2020-21	18
2019-20	24

Electrical and Electronics Engineering	UG	2002	2002	60	Yes	60	Not eligible for accreditation	--	--	No	4
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Sanctioned Intake for Last Five Years for the Electrical and Electronics and Engineering

Academic Year	Sanctioned Intake
2017-18	120
2016-17	120
2015-16	120
2014-15	120
2013-14	120
2012-13	120

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Information Technology
2	Under Graduate	Engineering & Technology	Mechanical Engineering
3	Under Graduate	Engineering & Technology	Computer Science and Engineering
4	Under Graduate	Engineering & Technology	ELECTRONICS AND 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)	42	42	36	36	31	31
Faculty in Engineering (Female)	45	45	45	45	46	46
Faculty in Maths, Science & Humanities (Male)	9	9	10	10	12	12
Faculty in Maths, Science & Humanities (FeMale)	14	14	18	18	17	17
Non-teaching staff (Male)	12	12	13	13	13	13
Non-teaching staff (FeMale)	9	9	9	9	10	10

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	0	0	0	1
Faculty in Engineering (Female)	0	0	0	0	0	0
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	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- PG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- Polytechnic	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MBA	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MCA	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

Engineering and Technology- UG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	895	850	823
Total no. of Girls	517	443	412
Total	1412	1293	1235

Engineering and Technology- PG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	11	8	6
Total no. of Girls	6	3	13
Total	17	11	19

Engineering and Technology- MBA Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	39	50	61
Total no. of Girls	42	64	52
Total	81	114	113

11 Vision of the Institution:**Vision of the Institute**

To become an internationally reputed institution by producing competent professionals with exemplary skills and ethical values.

12 Mission of the Institution:**Mission of the Institute**

IM 1: To achieve higher level technological and professional excellence.

IM 2: To impart quality and holistic professional education.

IM 3: To train professionals to be entrepreneurs and employment generators.

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

Head of the Institution	
Name	DR. SUJATHA JAMUNA ANAND
Designation	PRINCIPAL
Mobile No.	9444405820
Email ID	principal@dmice.ac.in

 NBA Coordinator, If Designated

Name	DR. R. SENTHIL RAMA
Designation	ASSOCIATE PROFESSOR
Mobile No.	9042948009
Email ID	iqac@dmice.ac.in

PART B: Criteria Summary

Criteria 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	97.71
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	159.49
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	42.03
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	899

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	Vision of the Institute									
	To become an internationally reputed institution by producing competent professionals with exemplary skills and ethical values.									
Mission of the institute	Mission of the Institute									
	IM 1: To achieve higher level technological and professional excellence. IM 2: To impart quality and holistic professional education. IM 3: To train professionals to be entrepreneurs and employment generators.									
Vision of the Department	To develop committed and competent technologists in Electronics and Communication Engineering to be on par with global standards coupled with cultivating the innovations and ethical values.									
Mission of the Department	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Mission No.</th> <th style="text-align: center;">Mission Statements</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">M1</td> <td>To be a centre of excellence in teaching learning process promoting active learning with critical thinking.</td> </tr> <tr> <td style="text-align: center;">M2</td> <td>To strengthen the student's core domain and to sustain collaborative industry interaction with internship and incorporating entrepreneur skills.</td> </tr> <tr> <td style="text-align: center;">M3</td> <td>To prepare the students for higher education and research oriented activities imbued with ethical values for addressing the social need.</td> </tr> </tbody> </table>		Mission No.	Mission Statements	M1	To be a centre of excellence in teaching learning process promoting active learning with critical thinking.	M2	To strengthen the student's core domain and to sustain collaborative industry interaction with internship and incorporating entrepreneur skills.	M3	To prepare the students for higher education and research oriented activities imbued with ethical values for addressing the social need.
Mission No.	Mission Statements									
M1	To be a centre of excellence in teaching learning process promoting active learning with critical thinking.									
M2	To strengthen the student's core domain and to sustain collaborative industry interaction with internship and incorporating entrepreneur skills.									
M3	To prepare the students for higher education and research oriented activities imbued with ethical values for addressing the social need.									

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	CORE COMPETENCY WITH EMPLOYABILITY SKILLS: Building on fundamental knowledge, to analyze, design and implement electronic circuits and systems in Electronics and Communication Engineering by applying knowledge of mathematics and science or in closely related fields with employability skills.
PEO2	PROMOTE HIGHER EDUCATION AND RESEARCH AND DEVELOPMENT: To develop the ability to demonstrate technical competence and innovation that initiates interest for higher studies and research.
PEO3	INCULCATING ENTREPRENEUR SKILLS: To motivate the students to become Entrepreneurs in multidisciplinary domain by adapting to the latest trends in technology catering the social needs.
PEO4	ETHICAL PROFESSIONALISM: To develop the graduates to attain professional excellence with ethical attitude, communication skills, team work and develop solutions to the problems and exercise their capabilities.

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

Total Marks 10.00

The vision, mission and PEOs statement has been disseminated to all the stake holders during Department advisory committee (DAC) meetings.

A. Adequacy in respect of publication & dissemination:

1. Publication and dissemination of Vision, Mission, PEOs:

- The College Website
www.dmice.ac.in (<http://www.dmice.ac.in/>)
- College Notice Board
- E-Mail Communication
- Feedback forms
- Principal Room
- Department Notice Board
- Department Corridor
- Department Library
- HOD Office
- Faculty Course File
- Staff Room
- Class Room
- Department Laboratory
- Department Magazine
- Department News Letter
- Social Media
- Department Web page
- Academic Calendar
- Lab Manuals
- Survey / Feedback forms

B. Process of dissemination among stakeholders:

The vision, mission, PEOs are communicated to stakeholders during Department Advisory Committee (DAC) meeting. This includes highlighting our focus on producing competent professionals, fostering excellence in Electronics engineering, and emphasizing continuous learning and communication skills to prepare graduates for success in diverse environments.

The stake holders of the program are,

1. Internal Stake Holders:

(i) Faculty:

- The knowledge and expertise of the faculty members are used in the quality improvement of the program by giving predictive inputs and enable the reduction of gap between program and industry expectations.

(ii) Students:

- The students are the immediate beneficiary who plays the most prominent role in the programme.
- The feedback given by the students is considered to aid innovative teaching and learning methodologies.

(iii) Management:

- The management supports the complete system by providing a conducive environment so that the needs / demands of each stakeholder, vision and mission of the Department can be achieved.

(iv) Governing Body Members:

- The Governing council supports the complete system by providing a conducive environment so that the needs / demands of each stakeholder, vision and mission of the department can be achieved.

2. External Stake Holders:

(i) Alumni:

- Long term stake holders of the institute.
- Indicate the gap between the abilities of the graduates and expected skills in the industry/academia and research organization.

(ii) Employers:

- Represents the major opportunity provider for our graduates.
- Professionals contribute through their feedback about the graduates who have taken up job, higher studies or research.
- Defines the expected proficiencies of the graduates.

(iii) Parents:

- Suggests betterment of infrastructure and Placement activities.
- The feedbacks from the parents are considered solely to prepare their ward to become a successful graduate.

(iv) Members of Professional bodies / Association Members / Academic Peers:

- Gives input to bridge the gap between the program and industrial expectations.

(v). Industry Person

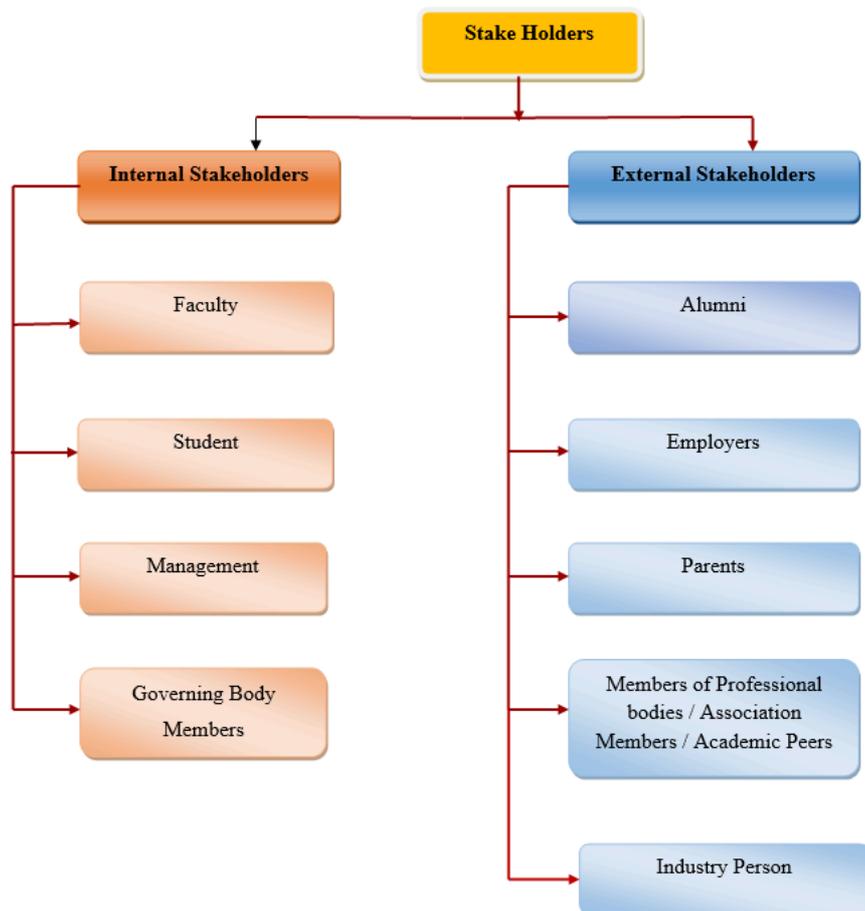


Figure 1.1 : Stake holders involved in defining the Vision, Mission and PEOs

C. Extent of awareness of Vision, Mission & PEOs among the stakeholder:

Periodic awareness of the Vision, Mission, and PEOs is created through frequent meetings with internal and external stakeholders to ensure the career growth of students and the development of the institute.

Table 1.1 The following table depicts the awareness among internal and external stakeholders with effective process implementation.

Sl.No	Dissemination methods	Extent of Awareness	Duration
1	Department Advisory Committee (DAC)	Review and provide inputs on the alignment of the vision, mission and PEOs with industry trends and societal needs during their meetings.	Twice in a year
2	Students Feedback	Students Feedback forms includes specific questions or sections to gather insights on the understanding and relevance of the vision, mission and PEOs from the student perspectives.	End of the semester
3	Parent Teacher Meeting	Dedicate a session in each semester to discuss the students overall development and career growth and the alignment of these endeavors with the departments vision, mission and PEOs.	Once per Semester
4	Alumni Meet	Seek feedback from alumni on the relevance and impact of the departments vision, mission and PEOs in their professional lives and gather suggestions for potential improvements.	Annually
5	Industry Interaction	During industry interactions, seek feedback from industry representatives on the relevance and alignment of the departments vision, mission and PEOs with industry expectations and requirements.	Adequate
6	Faculty Orientation Program	Conduct workshops or seminars during the faculty orientation program to reinforce the understanding of the vision, mission and PEOs among new and existing faculty members.	At the beginning of the academic year
7	Induction Program for Freshers	Incorporate a dedicated session or module during the induction program to introduce and explain the department vision, mission, and PEOs	At the beginning of the academic year

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

Total Marks 25.00

According to the curriculum prescribed by the university, institution vision and mission, societal needs, industrial requirement, faculty competency, Program outcomes (PO) and the available resources the Vision and Mission and PEO for the department were established.

A. Description of process involved in defining the Vision, Mission of the Department:

Following process adopted in developing Departmental Vision and Mission statements:

Step 1: Vision and Mission of the college are taken as basis.

Step 2: Vision and Mission of the department are drafted by Program Assessment Committee (PAC) by making interaction with various Stake – holders.

Step 4: Drafted Vision, Mission are Reviewed by DAC and approved by IQAC.

Step 4: The finalized form of Vision and Mission are disseminated in various forums.

Step 5: Mission are periodically reviewed by DAC members.

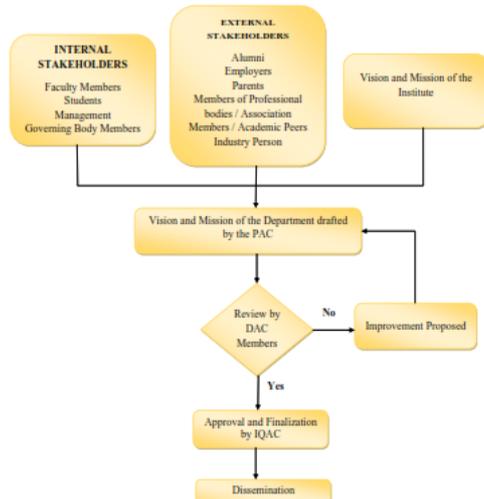


Figure 1.2 : Framing and Redefining Process of Vision and Mission statements of the department

B. Description of process involved in defining the PEOs of the program

The process for Defining / framing the PEO statements of the Department were formulated with their alignment to the Vision and Mission of the Department. The PEO statements were formulated at the Program Assessment Committee (PAC) through the discussions with various Stake-holders. The drafted statements of PEOs are framed and reviewed by DAC and approved by IQAC. Upon the approval, PEOs are disseminated in various forums.

The PEOs are established through the following steps:

Step 1: Vision and Mission of the Department are taken as basis.

Step 2: The PEO statements were formulated at the Program Assessment Committee (PAC) through the discussions with various Stake-holders.

Step 3: The drafted PEOs are framed and reviewed by DAC and approved by IQAC.

Step 4: The finalized form of PEOs are disseminated in various forums.

Step 5: PEOs are periodically reviewed by DAC members.

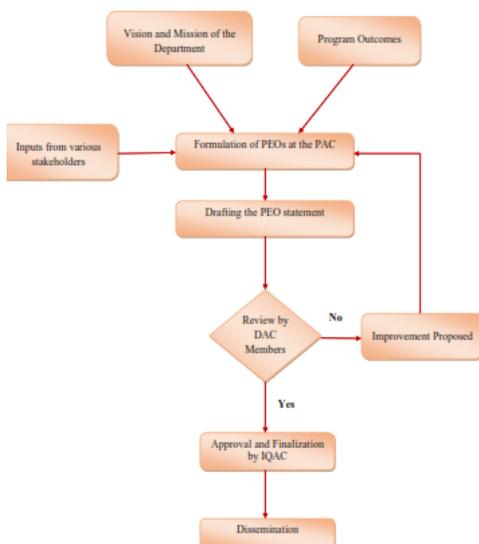


Figure 1.3 : Framing and Redefining Process of PEOs

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

Total Marks 15.00

Institute Marks : 15.00

Consistency/justification of co-relation parameters for attaining PEOs:

Consistency	Relationship	Justification
PEO1 Vs DM1	Substantial	Sound fundamental knowledge in Electronics and Communication Engineering substantially improves quality of technical education
PEO1 Vs DM2	Moderate	The fundamental knowledge helps at some extent in developing of professional potential in terms of sharing the knowledge and dissemination
PEO1 Vs DM3	Substantial	Fundamental knowledge of analyzing the problems helps to compete strongly in today's market and lifelong learning
PEO2 Vs DM1	Substantial	Quality technical education in the field of Communication engineering provides the huge opportunities in multi-disciplinary projects.
PEO2 Vs DM2	Substantial	Professional potential creates the more opportunities substantially to work as a part of teams of multi-disciplinary projects and discoveries
PEO2 Vs DM3	Substantial	Competency level and lifelong learning emphasizes huge opportunities to work with multi-disciplinary projects and discoveries
PEO3 Vs DM1	Moderate	Quality technical education in the field of Communication engineering will influence moderately on promoting awareness of lifelong learning
PEO3 Vs DM2	Substantial	Life-long learning and codes of professional practice strongly relates with professional potential
PEO3 Vs DM3	Substantial	Awareness of life-long learning and codes of professional practice helps to compete strongly in today's market
PEO4 Vs DM1	Substantial	Quality of technical education shows greater improvement successful careers of the students
PEO4 Vs DM2	Substantial	Successful career of the student strongly depends on the professional potential in terms of knowledge
PEO4 Vs DM3	Substantial	Competency skill of the students strongly relates with meeting the demands in the market

PEO Statements	M1	M2	M3
CORE COMPETENCY WITH EMPLOYABILITY SKILLS: Building on fundamental knowledge, to analyze, design and implement electronic circuits and systems in Electronics and Communication Engineering by applying knowledge of mathematics and science or in closely related fields with employability skills.	3	2	3
PROMOTE HIGHER EDUCATION AND RESEARCH AND DEVELOPMENT: To develop the ability to demonstrate technical competence and innovation that initiates interest for higher studies and research.	3	3	3
INCULCATING ENTREPRENEUR SKILLS: To motivate the students to become Entrepreneurs in multidisciplinary domain by adapting to the latest trends in technology catering the social needs.	2	3	3
ETHICAL PROFESSIONALISM: To develop the graduates to attain professional excellence with ethical attitude, communication skills, team work and develop solutions to the problems and exercise their capabilities.	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 Annexure I. Also mention the identified curricular gaps, if any (10)

Institute Marks : 10.00

A. Process used to identify extent of compliance of university curriculum for attaining POs & PSOs:

The DMI College of Engineering is affiliated under Anna University, Chennai. So the programmed curriculum is as per the scheme and syllabus of affiliated university. The curriculum comprises of Basic Sciences, Technical and Professional Subjects related to Electronics and Communication Engineering. If any gaps in the curriculum provided by the affiliated university pertaining to POs and PSOs are identified, and then the department makes additional efforts to impart such knowledge by covering aspects through Content beyond syllabus, Value added course and other activities such as seminars, guest lectures, industrial visits, internships and in-plant trainings. The Figure 2.1 gives process of gap identification and the actions taken to shield the gaps analysed.

Subjects related to Electronics and Communication Engineering is mapped with twelve Program Outcomes and gaps are identified. The necessary actions are chosen based on the gaps identified.

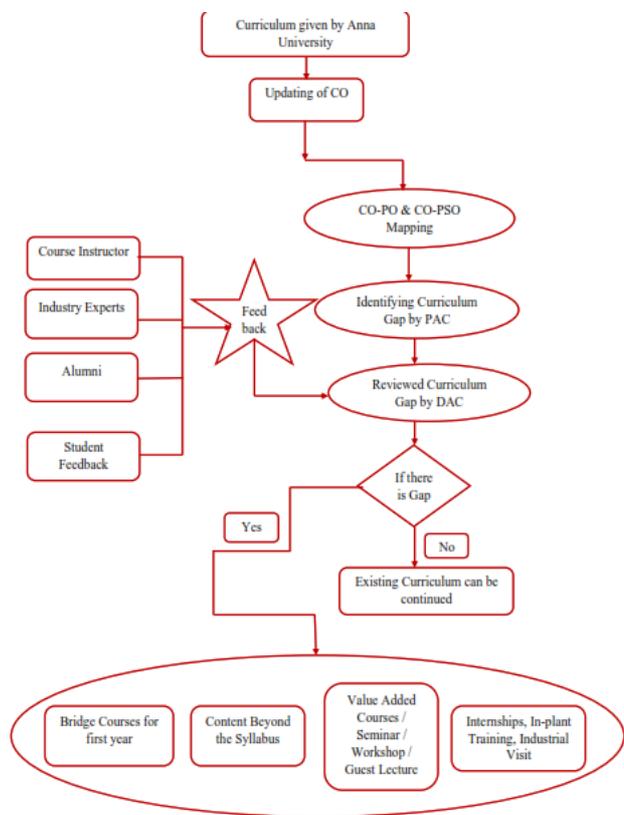


Figure 2.1: Curriculum Gap Analysis and Implementation

1. Curricular Component Distribution: R 2021

Sl.No	Curricular components	Credits	Percentage of curricular component
1	Mathematics	12	7.40%
2	Science	25	15.43%
3	Humanities	21	12.96%
4	Professional core	58	35.80%
5	Professional Elective Courses	18	11.11%
6	Open Electives	12	7.40%
7	Project	16	9.87%
Total		162	100%

2. Curricular Component Distribution: R2017

Sl.No	Subject Area	Credits Total	Percentage of curricular component
1	Humanities And Social Sciences	14	7.56%
2	Basic Sciences	27	14.60%
3	Engineering Sciences	19	10.27%
4	Professional Core	92	50%
5	Professional Electives	15	8.10%
6	Open Elective	6	3.24%

7	Employability Enhancement Courses	13	6.48%
Total		186	100%

B. List the curricular gaps for the attainment of defined POs & PSOs:**1. Curricular Gap Identification : R2021****Table 2.1: Curricular Gaps For Regulation 2021**

S.NO	SEM	SUBJECT	GAPS IDENTIFIED
1	III	Control Systems	State space analysis in control systems
2	IV	Linear Integrated Circuits	Edge cutting technology topics like Quantum Circuits, Memristors and Neuromorphic Computing.
3	IV	Digital Signal Processing	DSP: Applications in Image and Speech Recognition
4	IV	Electro Magnetic Fields	Lack of hands-on experience tools for solving Electromagnetic problems.
5	V	VLSI and Chip Design	PCB Layout design
6	V	Wireless Communication	Wireless Communication Integrate with the Internet of Things (IOT)

2. Curricular Gap Identification : R2017**Table 2.2 : Curricular Gap For Regulation 2017**

S.NO	SEM	SUBJECT	GAPS IDENTIFIED
1	IV	Communication Theory	Simulation of Communication Systems
2	V	Digital Communication	Machine learning and artificial intelligence Networks application can be included
3	VI	Embedded and Real Time Systems	Embedded C Programming
4	VII	Wireless Communication	Wireless Communication Integrate with the Internet of Things (IOT)

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

1. Delivery details of the content beyond the syllabus for the attainment of POs and PSOs:

Based on content beyond syllabus the department of Electronics and Communication organized many Workshops, Guest Lectures and Seminars to improve the student's knowledge.

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

The department has initiated the following measures to bridge the identified curricular gaps.

- **Industry-Academia Collaboration:** We have established partnerships with leading companies in the field to co-design and co-teach courses that address current industry needs, ensuring our curriculum stays relevant.
- 1. **Guest lecturers:** More Experts from industry and academia are invited to deliver lectures on the latest trends and thrust areas.
- 2. **Technical talk:** Students are kept updated about the advances in technologies through technical seminars.
- 3. **Workshops:** The department encourages the students to participate in hands-on workshops, thereby enhancing their application skills.
- 4. **Industrial visits:** Visits to industries of repute are organized to keep the students abreast with practical knowledge.
- **NPTEL video lectures:** Faculty members and students are encouraged to take NPTEL courses.
- **Alumni Engagement:** We actively involve our successful alumni in curriculum review meetings, leveraging their industry experience to identify and bridge curricular gaps.

2023-24

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Simulation of Communication Systems	Workshop	20/09/2023	Dr.V.Sathish Kumar, Professor, MIT, Anna University, Chennai	98	PO-1, PO-2, PO-3, PO-5, PO-10, PSO-2, PSO-3
2	Workshop on PCB Layout design	Workshop	19/10/2023	Mr.Sakthi, Software Engineer, VNF Automation Solutions Pvt Ltd	96	PO-1, PO-2, PO-3, PO-5, PO-10, PSO-2, PSO-3
3	Workshop on AI and Machine learning	Workshop	14/02/2024	Mr. Nishaan, Manager, Bright World Innovations	98	PO-1, PO-2, PO-3, PO-5, PO-10, PSO-2, PSO-3
4	Hands-on experience tools for solving Electromagnetic problems	Workshop	20/03/2024	Mr.Prabhu Manager, RETECH, Chennai	97	PO-1, PO-2, PO-4, PO-5, PO-10, PSO-2, PSO-3
5	Quantum Circuits Memristors and Neuromorphic Computing	Guest Lecture	08/02/2023	Mr. Mohan Kumar, Research Scholar, MIT.	97	PO-1, PO-3, PO-5, PO-6, PO-10, PSO-2
6	States-space methods	Guest Lecture	07/11/2023	Mr.Joshan Athenesius, Research Scholar, MIT.	98	PO-1, PO-3, PO-5, PO-6, PO-10, PO-12, PSO-1
7	Wireless Communication Integrate with the Internet of Things	Guest Lecture	23/11/2023	Ms.Parimala, AP,H&S, Chennai Institute of Technology	95	PO-1, PO-3, PO-10, PSO-1, PSO-3
8	Recent Trends in Industrial & Medical Instrumentation	Guest Lecture	12/12/2023	Mr. K.Senthi Kumar, Associate Professor, Rajalakshmi Institute of Technology Chennai	100	PO-1, PO-4, PO-6, PO-10, PSO-3
9	Next Generation passive optical networks	Guest Lecture	15/02/2024	Dr.H.Umma Habiba, Professor, Sri Venkateswara College of Engineering, Chennai.	95	PO-1, PO-2, PO-3, PO-4, PO-10, PSO-1, PSO-2
10	Special Antennas and its measurement techniques	Guest Lecture	06/03/2024	Mr.Prabhu HOD/ECE VTMT Chennai	98	PO-1, PO-3, PO-10, PSO-3
11	Embedded C Programming	Workshop	20/11/2023	M. Vinay Kumar, DFT Staff Engineer, Marvel Semiconductors.	98	PO -1, PO -2, PO -3, PO -5, PSO-3
12	Applications of Wireless Communications	Seminar	10/10/2023	Ms.Puspha Latha Asso.Professor Saveetha Engineering College	99	PO-1, PO-2, PO-3, PO-4, PO-10, PSO-1, PSO-2
13	Machine learning and artificial intelligence Networks application	Seminar	27/10/2023	Dr.H.Umma Habiba, Professor, Sri Venkateswara College of Engineering, Chennai.	100	PO-1, PO-3, PO-5, PO-10, PSO-2, PSO-3
14	Manufacturing process of Integrated Circuits	Seminar	15/11/2023	Ms.Dayana , Asso.Prof, Alpha College of Engineering, Chennai	95	PO-1, PO-2, PO-3, PO-4, PO-10, PSO-1, PSO-2
15	DSP: Applications in Image and Speech Recognition	Seminar	03/03/2024	Dr. Muthu Priya, B S , Asso.Prof, Abdur Rahman Crescent Institute of Science and technology, Chennai.	96	PO-1, PO-2, PO-3, PO-5, PSO-2, PSO-3
16	Project Expo	Project Expo	24/01/2024	Dr. N. Nirmal Singh Professor, Dean / Academics , DMI College of Engineering	100	PO1 to PO12 & PSO1 to PSO3
17	Mini Project	Mini Project	29/11/2023	Mr. Selvin Retna Raj, Assistant Professor, DMI College of Engineering	100	PO1 to PO12 & PSO1 to PSO3
18	Tree plantation	Club Activity	05/06/2023	Dr. N. Nirmal Singh , Professor , ECE, DMICE	98	PO6, PO7, PO8, PO9, PO10, PO11, PO12

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Project Expo	Project Expo	23/01/2023	Dr. K. G Revathi Professor, Dean / Student Affairs , DMI College of Engineering	100	PO1 to PO12 & PSO1 to PSO3
2	DSP: Applications in Image and Speech Recognition	Guest Lecture	07/02/2023	Dr. Lekasree, Asso Prof, Kings Engineering College, Chennai	98	PO-1, PO-2, PO-3, PO-5, PSO-2, PSO-3
3	States-space methods	Guest Lecture	15/09/2022	Dr. A. Sriram , Professor, College of Engineering and Technology, SRM Institute of Science & Technology	96	PO-1, PO-2, PO-3, PO-5, PSO-2, PSO-3
4	AI and Machine learning	Guest Lecture	15/02/2023	Dr.Subotha, Asso. Prof, Rohini College of Engineering.	98	PO-1, PO-2, PO-3, PO-5, PSO-2, PSO-3
5	Quantum Circuits Memristors and Neuromorphic Computing	Guest Lecture	21/03/2023	Dr. Nirmala Priya, Professor, Rajalekshmi Institute of Science and Technology, Chennai	97	PO-1, PO-2, PO-4, PO-5, PSO-2, PSO-3
6	Mobile Based Network Monitoring System	Seminar	20/07/2022	Dr.Duraivel, Asso. Prof, Kings Engineering College, Chennai	98	PO-1, PO-3, PO-5, PSO-2
7	Machine learning and artificial intelligence Networks application	Seminar	24/08/2022	Dr. Subotha, Asso. Prof, Cape Institute of Technology, Nagercoil.	95	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
8	Nanotechnology	Seminar	22/09/2022	Dr. Lekasree, Asso Prof, Kings Engineering College, Chennai	95	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
9	Wireless Communication Integrate with the Internet of Things	Seminar	15/02/2023	Dr.Relin Francis Raj, Asso. Prof, Saveetha College of Engineering	98	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
10	VLSI Signal Processing	Seminar	25/03/2023	Dr.Suthan, Asso. Prof, Vins college of Engineering, Nagercoil.	92	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
11	Simulation of Communication Systems	Workshop	15/06/2022	Dr.Solomon Roach Tessolve , Managing Director, Semiconductor Pvt Ltd, Chennai.	93	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
12	Hands-on experience tools for solving Electromagnetic problems	Workshop	17/08/2022	Dr.Raja, Asso. Prof, Cape Institute of Technology, Nagercoil.	95	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
13	Soldering Practices	Workshop	23/02/2023	Mr. Murugan, Technician, New Technology, Chennai	92	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
14	Embedded C Programming	Workshop	29/03/2023	Dr. Prem Anandh, Asso. Prof, Agni College of Engineering, Chennai	93	PO-1, PO-2, PO-3, PO-4, PSO-1, PSO-2
15	Village Hygiene Awareness Program	Club Activity	18/07/2022	Dr. K. G. Revathi, Professor, DMICE	98	PO6, PO7, PO8, PO9, PO10, PO11, PO12

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Recent Trends in VLSI	Guest Lecture	06/07/2021	Dr. Nirmala Priya, Professor, Rajalakshmi Institute of Technology	98	PO -1, PO -3, PO -5, PO-12, PSO-1, PSO-2.
2	Wireless Communication Integrate with the Internet of Things (IOT)	Guest Lecture	02/03/2022	Dr. A. Sriram , Professor, College of Engineering and Technology, SRM Institute of Science & Technology	96	PO -1, PO -3, PO -5, PSO-1.
3	Simulation of Communication Systems	Workshop	23/02/2022	Dr.Solomon Roach Tessolve , Managing Director, Semiconductor Pvt Ltd, Chennai.	98	PO -1, PO -4, PO -6,
4	Robotics	Workshop	11/02/2022	Dr. C. Anna Palagan, Asso. Prof, Saveetha College of Engineering	92	PO's-1, PO -4, PO -6, PSO-3.
5	MatLab	Workshop	18/03/2022	Dr. Subotha, Asso. Prof, Cape Institute of Technology, Nagercoil.	93	PO -1, PO -4 PO -5, PO- 8 PSO-2, PSO-3.
6	Transients analysis of Digital Circuits	Seminar	18/06/2021	Dr.Duraivel, Asso. Prof, Kings Engineering College, Chennai	98	PO -1, PO -3, PO -5, PSO-2, PSO-3.
7	Realization of Continuous time Systems	Seminar	22/07/2021	Dr.Vijay, Asso. Prof, VV college of Engineering, Nagercoil	100	PO -1, PO -3, PO -5, PSO-2, PSO-3.
8	Seminar on Machine learning and artificial intelligence Networks application	Seminar	05/08/2021	Dr. Lekasree, Asso Prof, Kings Engineering College, Chennai	95	PO -1, PO -3, PO -5, PO - 7, PSO-1 PSO-2, PSO-3.
9	Antennas and its Applications	Seminar	18/02/2022	Dr.Relin Francis Raj,Saveetha University	98	PO -1, PO -3, PO -5, PO -7, PO -9, PO -11, PSO-2, PSO-3.
10	VLSI Signal Processing	Seminar	25/03/2022	Dr.Suthan, Asso. Prof, Vins college of Engineering, Nagercoil.	92	PO -1, PO - 2, PO -3, PO -5, PSO-2, PSO-3.
11	Machine learning and artificial intelligence Networks application	Seminar	25/10/2021	Dr.Vijay, Asso. Prof, VV college of Engineering, Nagercoil	90	PO -1, PO -3, PO -5, PO -7, PO -9, PO -11, PSO-2, PSO-3.
12	Awareness on Waste Management	Club Activity	19/07/2021	Dr. K. G. Revathi, Professor, ECE, DMICE	96	PO- 6, PO7, PO8, PO9, PO10, PO11, PO12

2.2 Teaching - Learning Processes (100)

Total Marks 100.00

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

Institute Marks : 25.00

Our Department is dedicated to consistently improving the quality of education. We take a comprehensive approach that blends traditional teaching techniques with innovative strategies. We also adopt innovative methods to make learning more interactive and meaningful with lectures, labs, and tutorials in core Electronics principles. These methods include Experiential Learning and Problem-Solving Techniques.

Experiential Learning: Experiential learning engages students through hands-on activities, projects, and real-world applications, allowing them to apply theoretical concepts in practical situations. This approach is especially valuable in electronics, as it helps students in problem-solving and developing prototypes.

Participatory Learning: Here, students aren't just listeners; they're active participants. They lead class discussions, present research findings, and even teach topics to their peers. This boosts their confidence and deepens understanding.

Problem-Solving Methods: We regularly present students with complex, open-ended technological challenges, encouraging them to apply design thinking, collaborate in teams, and experiment with various solutions. This approach reflects how professionals implement and solve complex problems in real-time applications.

A. Adherence to Academic calendar:

The academic Calendar helps as an educational roadmap, align with Anna University's schedule. This detailed document has highlights such as class start dates, exam periods, workshops, seminars, and holidays. It is distributed to all the students on the first day of the academic year and displayed on the Notice Board to ensure clear visibility for all. By providing this information early, students can effectively plan their study schedules, project work, and personal commitments etc. The calendar also helps faculty in organizing their teaching plan and scheduling assessment tests. Significant events like induction programs, cultural festivals, sports events, and guest lectures and seminars are also incorporated in the Calendar. Adhering to these dates ensures that students and faculty can participate and make the most of these co-curricular and extracurricular activities.

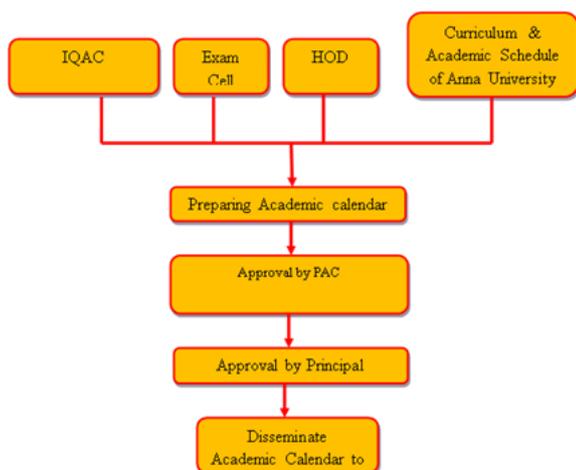


Figure 2.4 : Process of Preparing Academic Calendar

B. Use of various instructional methods and pedagogical initiatives:

The process/system for Teaching and Learning Quality Improvement in the department is focused on following broad criteria:

Experiential Learning:

- Laboratory Experiments
- In-plant Training
- Industrial Visit
- Project work

Participatory Learning:

- Seminars
- Conferences
- Symposium
- Role play
- Debates
- Technical Club Activities
- NPTEL
- Flipped Learning

Problem Solving Methods

- MCQs
- Hackathons
- Case Study

1. Experiential Learning:

a. Laboratory Experiments:

Electronics and Communication Engineering Department, laboratory experiments go far beyond the standard syllabus, offering students a cutting-edge learning experience. While the core syllabus covers fundamentals, we integrate forward-looking experiments which ensures our students are not just syllabus-compliant but industry-ready.

EC8791 EMBEDDED & REAL TIME SYSTEMS

Syllabus:

UNIT I INTRODUCTION TO EMBEDDED SYSTEM DESIGN

Complex systems and microprocessors– Embedded system design process –Design example: Model train controller- Design methodologies- Design flows – Requirement Analysis – Specifications-System analysis and architecture design – Quality Assurance techniques - Designing with computing platforms – consumer electronics architecture –platform-level performance analysis.

UNIT II ARM PROCESSOR AND PERIPHERALS

ARM Architecture Versions – ARM Architecture – Instruction Set – Stacks and Subroutines – Features of the LPC 214X Family – Peripherals – The Timer Unit – Pulse Width Modulation Unit – UART – Block Diagram of ARM9 and ARM Cortex M3 MCU.

UNIT III EMBEDDED PROGRAMMING

Components for embedded programs- Models of programs- Assembly, linking and loading – compilation techniques- Program level performance analysis – Software performance optimization – Program level energy and power analysis and optimization – Analysis and optimization of program size- Program validation and testing.

UNIT IV REAL-TIME SYSTEMS

Structure of a Real-Time System — Estimating program run times – Task Assignment and Scheduling – Fault Tolerance Techniques – Reliability, Evaluation – Clock Synchronisation.

UNIT V PROCESSES AND OPERATING SYSTEMS

Introduction – Multiple tasks and multiple processes – Multi rate systems- Pre-emptive Realtime operating systems- Priority-based scheduling- Inter process communication mechanisms – Evaluating operating system performance- power optimization strategies for processes –Example Real-time operating systems-POSIX-Windows CE. – Distributed embedded systems – MPSoCs and shared memory multiprocessors. – Design Example – Audio player, Engine control unit – Video accelerator.

b. Internship:

Internships is the part of Experiential Learning approach, transforming classroom theory into real- world expertise. Unlike traditional education where concepts often remain abstract, these programs immerse students in actual industry environments. Internships at tech giants and local innovators provide our students more than just resume boosters. Working alongside professionals, they tackle current challenges. This hands-on experience cements their understanding of scalability, security, and user experience in ways textbooks cant.

c. Industrial Visits:

Industrial visits are a key component of our Experiential Learning strategy, offering students a first-hand glimpse into the tech industrys inner workings. The Department plan and organize industrial visits or field visits for students to gain practical exposure in their core field of study. These visits may include industries such as manufacturing, technology, or any other relevant industry related to the student's area of study.

d. Project work:

Students are involved in real-time and societal projects that aim to solve practical problems

2. Participatory Learning:

The most vital part of the teaching and learning is the instructional delivery. The following broad components contribute to the effective instructional delivery:-

a. Technical Seminar:

Seminars in our department are vibrant hubs of Participatory Learning. Frequent seminars are conducted by the department. The students benefit by attending workshop on recent trends as well as topics related to their subject.

b. Conferences and Symposium:

The Department of Electronics and Communication Engineering conducts symposium every year which is aimed to show cast the talent of students. In our participatory learning model conferences, students actively participate and present their research papers. Students showcase their work, fielding questions from industry experts. This direct interaction hones their ability to articulate complex ideas and defend their work skills crucial in the tech world.The conferences are held in National level either funded by reputed agencies or by the college Management.

c. Role play:

Role play is incorporated in participatory learning that enables the students to get a visual impact of the concepts. This improves the understanding ability of slow learner students also. Students are made to enact the concepts pertaining to topics which are confusing or difficult to understand.

d. Debates:

Structured debates spark lively participation. Technical topics see students diving deep into research, arguing passionately. These debates teach critical thinking, persuasive communication, and the importance of evidence-based arguments in tech discourse.

e. Club activities:

A number of clubs have been established in our college under the direct supervision of the HOD. Student Club actively fosters skill development, collaboration, and engagement through various Co-Curricular and Extra-curricular activities.

f. NPTEL:

Students are encouraged to enroll for various online courses offered by different content providers like NPTEL. College provides requisite support system for the students participating in these courses to enhance their skills.

g. Flipped Learning:

The institution uses Flipped Learning, a student-centered approach that involves technology- based instructional content outside the classroom, to promote active learning and engage students in interactive discussions, problem-solving, and application of concepts during class time.

3. Problem Solving Methods:

a. MCQ:

MCQs are transformed from simple recall tests into problem-solving exercises. Students must quickly analyze the situation, apply the concepts, and deduce the most probable issue. This approach teaches rapid problem assessment and decision-making—skills critical in various roles.

b. Hackathons :

Students are encouraged to participate in Hackathons where they experience working under pressure, learn to decompose complex problems, prototype rapidly, and pivot strategies —mirroring the fast-paced problem-solving demanded in tech startups. The students have showcased their ability by winning prizes.

c. Case Study:

Real-world case studies are conducted that replace theoretical lectures. Case studies teach root cause analysis, system thinking, and the critical importance of rigorous testing especially when lives are at stake.

C. Methodologies to support weak students and encourage bright students:

Mentoring and counselling system:

The department places a strong emphasis on mentoring and counselling to support students overall development and well-being. It enables Monitoring Student Regularity and Discipline, Strengthening Teacher-Student Relationships, Addressing Student Concerns and Enhancing Well-being and Career Guidance and Pathway Planning.

The Mentoring schedule involves the following:

- The Mentors meet the students associated with them once in every week.
- The Parents/Guardians of poor attendee/performance students are called to meet the mentors and corrective and preventive measures are implemented for further improvement.
- Each mentor maintains the entire student Information, which is examined by the HOD and others concerned when necessary.
- Periodic meetings are conducted by the Principal with HODs to review the punctuality and regularity of students.

1. Initiatives and implementation details of Encouraging Bright Students:

The bright students are identified through their performances in classes as well as examinations, along with cognitive and psychometric skill performance. Institute provides support and encouragement through,

- Encouraged to attend conferences, workshops and publish papers.
- Encouraged to take up innovative projects.
- Participation in inter college national/international technical events
- Pre-placement training and grooming classes
-
- **Guidelines to identify Bright students**

Table 2. 1: Guidelines to identifying Bright students

SL.NO	IDENTIFICATION CRITERIA	ACTIONS TAKEN
1	Students securing more than 7.5 CGPA in Semester Exams	Functions are conducted to felicitate those students and Mementos are also distributed to motivate them to continue their Excellency in academics. To take up mini projects& encourage to participate in inter college national/international fest, motivate to take civil service exams.
2	Students having Potential of Securing the University rank.	Awarded with mementos and Certificates
3	Top two students of each class	Awarded with mementos

Impact of Bright students Analysis:

The analysis of bright students performance has significantly enhanced our placement outcomes. Our top-performing students have secured prestigious positions in leading multinational corporations and innovative start-ups. Our analysis of bright students performance has opened up exceptional internship opportunities at industry-leading companies. These internships have resulted in pre-placement offers, giving our bright students a significant advantage in launching their careers at prestigious firms even before graduation.

2. Initiatives and implementation details of Assisting Weak Students:

- The department has a well-defined process of monitoring, guiding and assigning slow learners (weak students).
- The Counsellors along with Mentors regularly conduct meetings regarding progress of their mentees. These students are provided remedial classes as per time table. It has been observed that the remedial classes are effective for the students. The students who scored less than 50% marks in their internals. Under the HOD direction, the students mentors evaluates the progress card of those students who score below 50% marks in three or more subject and below 75% attendance are considered as academically weak students. Apart from these, the faculty members hold periodic interactions with parents about the performance of the slow learners.
- Identified hostel stay Slow learners are also given special attention by conducting test for hostel students.
- Table 2.2 depicts the guidelines for identifying weak students.

Table 2. 2: Guidelines to identifying weak students

SL.NO	IDENTIFICATION CRITERIA	ACTIONS TAKEN
1	Students scoring less than 50% of marks in Internal Assessment.	1. Mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help. 2. Intimating parents to counsel their wards. 3. Conduct of remedial classes
2	Diploma students who entered with less basics of mathematics	Conduct of remedial classes.
3	Students who fail in semester exams	Conduct of extra classes to those who failed in previous semester subjects. Periodic counselling is given to the students having backlog subjects by mentors.

Impact of Weak students Analysis:

The analysis of weak students performance has led to significant improvements in our educational approach. Firstly, weve implemented targeted remedial programs that address specific skill gaps identified through the analysis. As a result we have achieved increase in pass rates among previously struggling students. Secondly, the insights gained have prompted a revision of our teaching methodologies, incorporating more interactive and diverse learning techniques, which has improved overall student engagement and comprehension across all academic levels. Lastly, this analysis has fostered a more proactive mentoring system, where at-risk students are identified early and provided with personalized support and a noticeable boost in student confidence and academic performance.

D. Quality of classroom teaching (Observation in a Class):

Ø The following innovative teaching methods are adopted by the faculty:

- Projectors are used for teaching purposes and internet facility is available to students and faculty.
- Faculty members are taking advantage of sources like National Programme on Technology Enhanced Learning (NPTEL), internet sources for effective teaching.
- Smart Board, LCDs etc. are used for teaching purposes.
- Online availability of various journals in the intranet.
- The college believes that self-learning and learning beyond syllabus have a great scope in the development of the career of an engineer.
- Motivation for self-learning should be provided in the classrooms. A teacher has a great role to play in this.
- What an institution should do is to provide adequate facilities for self-learning to students so that they get motivated to learn more and more and ultimately become life-long learners and innovators.
- Discussing subject beyond the syllabus, providing exposure to exciting developments in science and technology around the globe, attempting solutions to problems in daily life etc. are the ways to motivate students for self-learning.

They should also be motivated to do things themselves so that they gain confidence to try anything with their own hands.

E. Conduct of experiments (Observation in Lab):

Students carry out more than the required number of experiments, beyond the minimum specified by the University. All laboratory have excellent facilities, both hardware and software based. For the experiments detailed instruction manuals are provided. Staff will give related lectures to the experiment before the student come to the lab session. The observations are checked and verified by faculty and record books are maintained systematically. Staff will check the experimental results and marks will be awarded based on the performance. Two faculty members and one instructor are assigned for each practical class. Lab manuals are distributed to students before the start of the semester. The students are instructed to complete the observation before the lab session. After the completion of each lab experiments the faculty verifies the outputs. Model practical examinations will be conducted regularly before the university examination. Students must come with Lab manual and record note book to the laboratory. Additional experiments are conducted to meet requirements for content beyond syllabus.

1. Initiatives and implementation details of improving Quality of Laboratory Experiments:

- Faculty members of respective specialization form a group with a team leader to discuss the preparation of manual, Material requirements, conduction of experiments and cycle of experiments before commencement of semester.
- The Electronics and Communication Laboratories are conducted in session of 3 hours, in each session the faculty explains the circuits/logic and design/ algorithm of the experiment.
- The students will write the complete experiment concerned in the observation book and then code/debug/execute the program on the system and interpret the results.
- The executed program with output, related theory and Algorithm or flowchart is documented in the record book by the students later which will be evaluated.
- The students will write the complete experiment concerned in the observation book and then give the circuit connection and execute the corresponding circuit and interpret the results.
- The executed output documented in the record book by the students later which will be evaluated.
- In each subject many students are made to work on number of additional programs for the better understanding of the subject.
- Viva questions will be prepared in advance for all the experiment.

2. Impact analysis

- Students score very good results in laboratory examination.
- Improvement in analytical abilities of students thus improves the placement.
- The stimulating environment made students to learn other programming languages apart from curriculum.

F. Continuous Assessment in the laboratory:

Rubric based continuous assessment system is implemented for assessment of laboratory work. Two assessments of 20 marks each are done on the basis of submission of laboratory records, understanding of the experiment through oral viva voce questions and participation in performing the experiment.

G. Student feedback of teaching learning process and actions taken:

At the end of the semester, all the students are required to fill a feedback-form apprising the faculty using a scale of 1 (high) through 10 (low).

- Lecture classes are monitored by senior Professors and the HOD of the Department. They give constructive comments to improve the quality of teaching and the teaching- learning process.
- Counseling by the respective HOD for those faculty members who have secured low scores and negative comments, if any, in the feedback. This motivates them to improve their skills and abilities.
- If required training / orientation programmes are conducted by professional experts to master the skills of the faculty members in the nuances of teaching, thus improving the efficiency of teaching-learning process.

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

Institute Marks : 20.00

Our college conducts two Internal Assessment Test (IAT-I & IAT-II) and Model Exam. IAT – I covers Unit-I & II. IAT – II covers Unit-III & IV. All the five units (Unit-I, II, III, IV, V) are covered in Model Exam Question paper. The duration of the test is three hours and question paper is set to make the student to learn time management. The internal test consists of 100 Marks of subjective questions.

Initiatives:

- The exam cell or examination committee is responsible for preparing the exam schedule for internal assessments and semester-end examinations.
- The schedule is prepared well in advance to allow sufficient time for students and faculty to plan and prepare.
- The exam schedule is carefully coordinated with the overall academic calendar to ensure that it does not conflict with other important events, activities or holidays.
- Once the exam schedule is finalized, it is widely communicated to all students, faculty, and administrative staff through circular, ensuring that everyone is aware of the exam dates and timings.

A. Process for Internal semester Question Paper Setting, Evaluation and effective process implementation:

1. Internal semester Question Paper Setting:

- Question papers prepared by the course in-charges.
- While setting the question paper all previous university exam papers are taken into consideration. This ensures that the question paper aligns with the university's exam pattern and covers relevant topics and concepts.
- According to level of toughness the questions are prepared (viz., analyzing the problems implementation of modern tools, formulating the problems etc), which is termed as Bloom's Taxonomy.
- The students are asked to prepare and submit unit wise assignments, prior to Model examinations. The assignment should contain Key points, Neat diagrams / circuit, Derivations and Tables or plots as expected in the answer scripts in university exams.
- Evaluated answer scripts are randomly selected and checked for the authenticated awarding of marks by the senior faculty members. Changes are made in the marks when there is a genuine claim.

2. Evaluation:

- The faculties after every internal assessment test they explain the solution of the questions in the class which will enable them to perform well in the final examination.
- Exam Cell will conduct the exams and answer scripts are evaluated by the Concern course In-charges. Department Exam coordinator will consolidate the marks after two days of the exam.
- For any genuine reasons, if a student was unable to perform well in the given three internal assessment tests, improvement test is given to him/her.
- If a candidate remains absent for all the tests conducted, the Internal assessment marks are marked as "Absent" in the result.
- Department exam Cell will conduct the exams and answer scripts are evaluated by the Concern course In-charges.
- Department will consolidate the marks after two days of the exam.
- Students Progress report will be send to their parents
- Department categorize the students such as bright, average and slow learners based on their marks.
- Effective and special coaching class will be conducted for the students by the subject experts.

3. Student Performance Analysis:

- Department categorize the students such as bright, average and slow learners based on their marks.
- Effective and special coaching class will be conducted for the slow learners by the subject experts.

Students Level Analysis:

Level 1: Internal Assessment Test marks > 80 % = Bright Students

- Mementos are distributed to motivate them to continue their Excellency in academics.
- Conducting brainstorming sessions to trigger their innovative ideas and motivate them to implement the social relevance projects.
- Giving special coaching to achieve university ranks.
- Motivate them to write various entrance exams (GATE, GRE etc. for higher education.

Level 2: Internal Assessment Test marks 50 % to 80 % = Average Students

- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help
- Repeated University questions test to make them to get more marks
- Taking necessary actions to promote them to the next level
- Concentrating on analytical papers
- Motivating them through Parent teachers Association
- Encourage them to implement the innovative ideas as the projects
- Encourage them to participate in various activities of the department and also Colleges.

Level 3: Internal Assessment Test marks < 50 % = Slow Learners

- Concentrate on two marks questions
- Repeated University questions test to make them pass marks
- Refreshment course for Analytical papers before the university exams
- Regularly Counseling them in all aspects
- Help them by conducting regular Coaching Classes to clear the papers
- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help.
- Conduction of extra classes to those who failed in previous semester subjects.

B. Process to ensure questions from Outcomes/learning levels perspective:

The effectiveness of the question paper in evaluating the attainment of course and program outcomes depends on several factors, including the alignment of questions with Course Outcomes (COs) and Revised Blooms Taxonomy (RBT) levels, comprehensive content coverage, well-designed and unambiguous questions, a clear marking scheme and rubrics, appropriate weightage and distribution of marks across COs and RBT levels, and a robust moderation and review process involving subject matter experts. The effectiveness of the question paper in evaluating the attainment of course and program outcomes depends on several factors:

1.Course Outcomes (COs): The question paper should be designed to assess the specific course outcomes defined for the subject, ensuring that the questions align with the intended learning objectives.

2.Program Outcomes (POs): The questions should be framed in a way that contributes to the evaluation of the program outcomes, which are the broader skills and competencies that students are expected to develop through the program.

3. Mapping of COs with POs: The alignment between course outcomes and program outcomes should be established, ensuring that the questions in the question paper are mapped to the relevant COs and POs.

4. Quality of Questions: The quality of questions in the internal assessment is crucial for achieving the desired outcomes. The questions should be designed to assess various levels of cognitive abilities, such as knowledge, comprehension, application, analysis, synthesis, and evaluation.

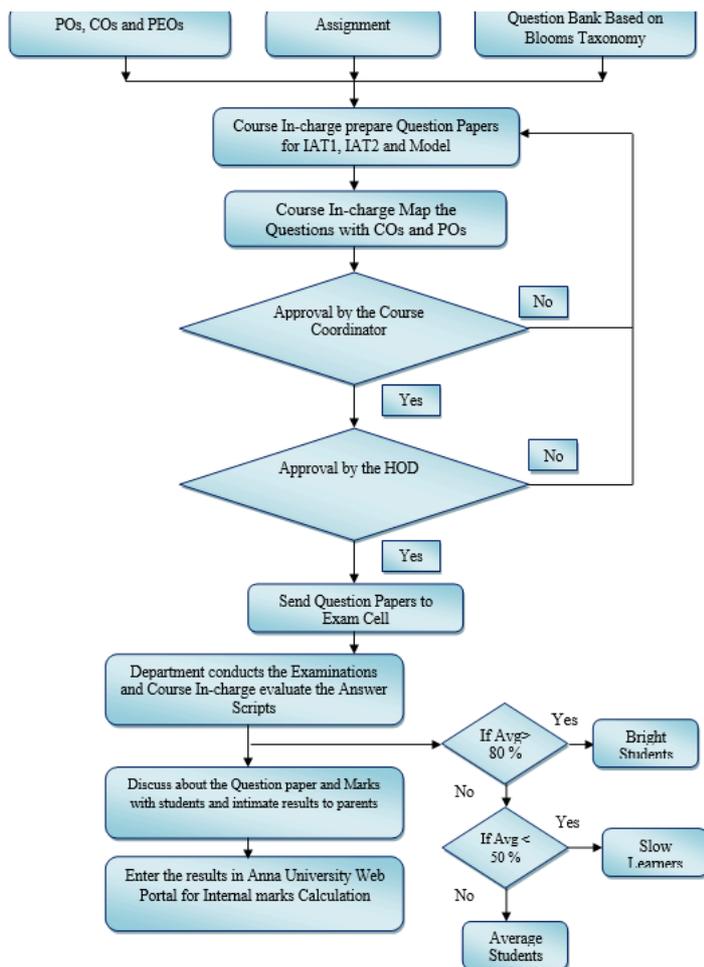


Figure 2.1: Analysis of Learning

C. Evidence of COs Coverage in class test/Mid-term test:

The portions for the Cycle tests, Model examination and assignment are covering the requirements of the COs. COs are assessed based on the assessment criteria set by the faculty and validated by the course coordinator and HOD. Individual student's answer sheet is evaluated and the questions were answered by the student is mapped with COs and POs.

D. Quality of Assignment and its relevance to COs:

- After the completion of every unit test, the assignment questions will be given to students, and student has to write it & submit within a week and each question is mapped with COs. So the students will be able to understand course outcome of particular subject. The quality and periodicity of Assignments are monitored by scrutinizing committee.
- Challenging questions are included in the assignment that drives the students to search various resources for the appropriate solution. Students felt that these exercises had led them to have a meticulous and comprehensive learning. It also promotes better interaction among the students and with their teachers in the subject matters.

2.2.3 Quality of student projects (25)

Institute Marks : 25.00

1. Initiatives:

- Students are provided with brief idea of various fields for selecting the project ideas.
- The list of previous year projects is displayed at notice board which ensures no repetition of project work and also encourages students to enhance the previous works.
- The faculties encourage the students to carry out in house projects and support will be provided with all necessary software and hardware.
- The faculties encourage students to participate in project exhibitions. The project exhibition is aimed to provide common platform to exhibit their innovations and their work towards excellence in latest technology
- The faculties encourage students to publish their project work in reputed journals / conferences.
- The students have the freedom to select projects of their choice in consultation with teachers.
- Execution of these projects by themselves goes a long way in developing independent thinking, organizing various elements of work in the project and finding solutions to problems they face.
- These projects inculcate creativity and innovative mind among students.
- DMICE thinks that execution of these projects will help to transform students in to life-long learners and innovators.

2. Implementation:

A project coordinator is appointed by the Head of the department who is responsible for planning, scheduling and execution of all the activities related to the student project work.

A. Identification of projects and allocation methodology to Faculty Members:

As per Anna University syllabus, the final year student is assigned a project in their eighth semester. Each faculty is allotted for 1 or 2 batches based on the student's area of interest and faculties specialization for the guidance and supervision throughout the completion of the project.

Every final year student undertakes project which is spread over a period of one semester. The student selects a topic of his/her interest and then performs literature survey, formulates the problem formally and then implements it. At the end of semester a report is submitted by the students. Progress is continuously monitored by supervisor and the Project Co-ordinator. Midterm evaluation is done based on presentation and midterm report submission. Final evaluation is based on presentation, report submitted, examination and demonstration.

Step by step procedure for team and guide allotment:

1. Project team size should not exceed 3 or 4.
2. Project coordinator collects the team's ideas and domains.
3. HOD and Project Coordinator will allot the guides based on their domain specializations.
4. Regularly conducting 4 reviews to assess the projects with panel members.

Students regularly present their project progress to a review committee during each implementation stage. These review meetings serve as critical checkpoints where the committee evaluates the work completed. Following each presentation, students receive detailed feedback on their performance that guides the students for improving the quality of their work. By incorporating the committees suggestions, students can refine their projects, address any weaknesses, and enhance the overall standard of their work.

B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs:

We categorized the projects into 4 divisions.

- Application oriented projects
- Product development projects
- Research oriented projects
- Review projects

Each academic project is mapped to POs and PSOs. Each project is evaluated with their project quality and with their contribution towards attainment of POs.

A committee consisting of Head of the Department, Professors and Project Coordinator are responsible to identify the merits and hence decide the best project for the respective years.

- The projects are mapped with POs and PSOs and the attainments are assessed based on the following:

- Fundamental Knowledge
- Depth in problem analysis
- Project Methodology
- Modern tool usage
- Societal needs usage
- Future scope of the work
- Novelty of work
- Team work
- Presentation and documentation
- Cost effectiveness
- Project management
- Conference and Journal Publication

PROJECT WORK 2023-24

Batch No	Student Name	Title of the project	Domain	Guide name	POs and PSOs	Category of Project
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1	Jeyamadhava Raja M	Mountain Climber Health & Position Tracker Iot Live Vitals Display	IOT	Dr. K.G. Revathi	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Karthik G P					
	Vishnu S					
2	Nivetha K	Enabled Smart Transformer Monitoring and Control System Using WSN	Wireless Network	Dr. N. Nirmal Singh	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Preethi P					
	Shradha A					
3	Jack Justin S	An IoT-Based Sag Monitoring System For Overhead Transmission Lines	IOT	Mrs. Shally S. P	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Sanjay.M					
	Harish					
4	Muthulakshmi S	Design And Development Of Low-Cost Vehicle For Disabled Person	Embedded	Dr. Valantina Stephen	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Sharmila V					
	Sivaranjani S					
5	Suriya Deepan A	Efficient Easy Transactions: A Budget Friendly Shopping Solution Enhanced By RFID Technology	RF	Mr. S. Syed Feroze Hussain	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Krishnan B					
	Vishnu Narayanan					
6	Keerthana J	Revolutionary Soil Based Communication For Trapped Individuals In An Underground Mine	RF	Mrs. Devi Sowndarya. K. K	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Mahalakshmi R					
7	Allgrace Baird A	Vision Based Fire Detection System Using Deep Learning	AI	Dr. Morarji. C. K	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Kesavan R					
	Mukesh E					
8	Lidiya S	Context-Aware Monitoring And Control Of Ventilation Rate In Indoor Environments Using IoT	IOT	Mrs. K. Lavanya	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Sheeba B					
9	Ranjan Rohit Andrews J	Embedded Enabled Smart ATM With Face Recognition For Disabled Or Physically Challenged Person	Embedded	Mrs. Shally S P	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Karthik J					
	Sridhar M					
10	Gopala Krishnan S	Design And Implementation Of Low Power VLSI Architecture For Atrial Fibrillation Data Analysis Using DNNS	VLSI	Mr. Selvin Retna Raj.T	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Parthasarathy N					

PROJECT WORK 2022-23

Batch No	Student Name	Title of the project	Domain	Guide name	POs and PSOs	Category of Project
1	Arun K	Learning and Investigation of Electronic components and its operation using Augmented Reality Modules	AR & VR	Dr. M. Latha	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Balamurugan K					
	Jaya Krishnan J					
2	Albert Ravidoss R	Design and Development of a Learning tool for Communication System Components using Augmented Reality Modeling	AR & VR	Dr. M. Latha	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Jefferin J					
	Dhanasekar V					
3	Kayalvizhi.K	The Novel method for minimizing transient using BIST (Built in self test)	VLSI	Mr.Selvin Retna Raj. T	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Keerthana J					
	Kiruthiga.S					
4	Bharath M	Novel Approach For Fall Detection And Prevention System for Elderly People Using MEMS Sensor	Embedded System and IoT	Mr.Selvin Retna Raj. T	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Ruthramoorthy D					
	Rahul S					

5	Someshwaran S	Detection Of Paddy Leaf Disease Using Deep Learning And It's Treatment	Deep learning	Dr.K.G.Revathi	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Chinnadurai M					
	Dhinesh Babu A					
6	Teena Sherin.R	Implementation of soil communication in defense by using Wireless Underground Sensor Network	Embedded	Mrs. Shally. S. P	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Sujitha.K					
	Yogeshwari.A					
7	Hemalatha K	Global instance tracking: Targeting more like humans using RSSI	Embedded	Dr.K.G.Revathi	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Zibiah Nathasha G J					
	Thangam T					
8	Balamurugan.R	Detection and Alert of Animal Intrusion on Railway Tracks Based On Deep Learning	Deep Learning	Dr. N. Nirmal Singh	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Deepak.R					
	Sasikumar.M					
9	Srikanth.M	Analysis And Enhancement Of Ceramic Based Epoxy Nanocomposite For Electronic Component Applications	Nano	Mrs. Lurdhumary . J	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Jenis.F					
	Sanjay.M					
10	Harini K	Multi Slotted Microstrip Patch Antenna for Multiple Wireless Applications	Antenna	Ms. Monisha Veronica Arockiamary I	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Karthika B					
	Pradeesha E					
11	Santhiya.C	LED cube to assist child dyslexia with measure speech frequency	Bio medical Embedded	Mr. Morarji. C. K	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Charumathi S					
	Manimegalai K					
12	Thamizhselvan. M	System for identifying aggressive behaviour in public places using CNN model	Deep Learning	Ms. Monisha Veronica Arockia Mary I	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Tamizmaran. P					
	Tamilselvan. P R					
13	David.J	Developing a prototype drone for the health care domain	Embedded	Dr. M. Latha	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Ekamber.L					
	Vinothkumar B.K					
14	Greeshma.S	Image quality assessment for fake biometric detection	Deep learning IoT Embedded	Dr. N. Nirmal Singh	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Pavithra.M.G					
	Monika.M					
15	Blessy.E	Automated smart hydroponics system using internet of things	IoT	Mrs. Shally. S. P	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Durga Devi.S					
	Preetha.S					
16	Sevvanthi.T	Developing assistive system for assessing paralysis disease patients based on iris recognition	Image Processing	Dr.J. Arun Kumar	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Rakshana.R					
	Daisyepsiba.I					
17	Chanthika.T	Surface mounted high quality filter using SIW technology	Antenna	Ms. Monisha Veronica Arockia Mary I	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Ilackia.J					
	Nancy Beula.A					
18	Karthiga G	Smart Assistive Device for Visually Impaired People	Embedded	Dr.J. Arun Kumar	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Inpan Rumilda.M					
	Petsi Prasilda.M					
19	Jeeva M	Weather Imaging Cube Satellite with Telemetry Transmission	Embedded	Mrs. Shally. S. P	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Lalith Kumar M					
	Lingeswaran S					
20	Madhan D S	Adaptive headlight system for reducing the dazzling effect to prevent road accident	IoT	Mr. Morarji. C. K	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Vijaya Kumar R					

21	Gayathri M	Design of Solar grass cutter using wireless communication	Embedded	Mrs. Lurdhumary . J	PO-1 to PO -12 & PSO-1 to PSO-3	Application
	Revathi S					

C. Process for monitoring and evaluation:

As per Anna university academic curriculum, the final year students are having project in their final year eighth semester. So we are conducting four reviews. i.e., zeroth review first review, second review and Final review. Student's improvisation is monitored and guided through these reviews.

A project coordinator is appointed by the Head of the department who is responsible for planning, scheduling and execution of all the activities related to the student project work.

Project students should meet their respective guide weekly once and asked to explain their progress they have done in their project in that week. They should submit project progress report weekly once and to get approved by the respective guide.

The project guides will evaluate the report submitted by the students and help them to go with project work. Project guide will each assess each student in team and make them work in right way.

SL.No	Task	Particulars
SEMESTER SEVEN		
1	Call for project batch	Students are invited to prepare their batch and get it registered with the project coordinator of the department. The student submitting project titles are pre-evaluated by a team of experts.
2	Synopsis Submission	The submitted project titles are reviewed by a committee consisting of Project coordinator, Head of the department and experts.
SEMESTER EIGHT		
3	Guide allotment	Guide will be allotted based on areas of interest.
4	Zeroth Review	Title confirmation
5	First Review	Students are instructed to submit requirement specification and give a Power Point presentation for the project. Literature survey and Block diagram explanation
6	Second Review	Students are instructed to submit Design document of the project and give a Power Point presentation for the project. Simulation result
7	Final Demonstration	Students are instructed to submit complete project report with university compliance and give a Power Point presentation for the project. Project report and output verification

General Instruction:

- All the students must provide the project batch details and title on or before the specified date
- Maximum 3 or 4 members are allowed in a batch
- Change of Project / Team members will not be entertained once the project is confirmed.
- Meet the internal guide and get the approval before each review date; otherwise you will not be allowed to attend the review.
- Maintain formal dress code (neatly shaved, shoes, id & tie is mandatory, no casual outfit) at the time of project review.
- Internal Mark is awarded based on review performance.
- Prepare PPT presentation and update the project file for each review.
- All the team members must present for each review. Attendance is compulsory.
- Each batch should publish at least one technical paper in a Journal or International Conference before Review-III
- Hard copy of the Project Report should be submitted during Review-III
- Suggestions are given and documented in the project evaluation sheet by faculty members.
- Project guide takes care of compliance of suggestions.

Project Evaluation scheme:

SL.No.	Performance Indicator	Marks
1	Innovativeness & creativity of the project (A1)	10
2	Review of literature & related studies about the project (A2)	10
3	Implementation Strategies (A3)	10
4	Demo and Documentation (A4)	10
5	Viva Voce (A5)	10

As per project review reports internal evaluation is done.

- At the end of semester a report is submitted by the students. Midterm evaluation is done based on presentation and midterm report submission.
- Final evaluation is based on presentation, report submitted, examination and demonstration.
- The ethical values are imbibed through proper referencing. The project is evaluated by Project Coordination committee which consists of subject expert within the department and an expert from outside the college. All the POs and PSO's are attained.

Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The Head of the Institutions shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be reduced for 20 marks and rounded to the nearest integer (as per the scheme given below table)

The project report shall carry a maximum 30 marks. The project report shall be submitted as per the approved guidelines as given by Director, Academic Courses. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 50 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Review I	Review II	Review III (Final Demo)	End semester Examinations				
			Thesis Submission (30)		Viva-Voce (50)		
5	7.5	7.5	Internal	External	Internal	External	Supervisor
			15	15	15	20	15

D. Process to assess individual and team performance:

- Project progress seminars are conducted once in every month by the team of their respective guide, a professor cadre faculty, an Associative professor and an Assistant professor.
- The project seminar should be given by all the project team members according to the division of project.
- Each student in the project team is assessed to their skill set to deliver the seminar, explain the concept and way to make project assess team to understand their work.
- Each individual and team performance is purely based on this project seminar presentation and the viva voce and progress work they show to their guide.
- Time management

E. Quality of completed projects/working prototypes:

Final project demo for the working prototype and the report are evaluated by a team of their respective guide, a professor cadre faculty, an Associate professor and an Assistant professor.

ü The projects are evaluated and are awarded internal assessment marks for maximum 100 and are graded according to the project contribution towards attainment of POs and PSOs.

ü Quality of the students projects are evaluated based on the following things:

- Presentation
- Content
- Demo
- Viva
- Social Impact
- Modern Tool Usage
- Conference and Journal Publication

Sample Project:

Project Title: "Low Cost Implementation and Analysis of Brain Signals".

Abstract: Building and testing a Drowsiness detector for use in transportation that requires a high level of alertness. Since many of the accidents occur because of inattention or sleepiness, our design will be used to monitor fatigue and produce an alarming signal in order to alert the individual, a vibrator is used in order to alert the individual along with the alarm signal and the state of the driver will be passed to the service provider using GSM module. Unlike many models built so far, which use the eye parameters (such as blink rate, duration and frequency), the PERcentage of eye CLOsure(PERCLOS), or electrooculograms(EOG), our design will base its results on monitoring the brain waves continuously and the peak amplitude that occurs during drowsy state is detected and individual is alerted. Experiments were performed on many subjects in a controlled environments. The coherence between the results will be studied and an alarming signal will be produced depending on the seriousness of the fatigue state.

Applications:

1. Medical field for prognosis.
2. Used for paralyzed people.
3. Used in research field
4. Virtual gaming.
5. Hybrid Assistive Limb.

F. Evidences of Papers Published/Awards received by projects:

Students were presented their paper in various conference and Journals.

Sl.No	Academic Year	No of Papers Presented in Conference	Remarks
1	2023 - 24	8	Presented in Conference
2	2022 - 23	12	Presented in Conference
3	2021 - 22	8	Presented in Conference

3. Impact analysis:

- New innovative ideas from students form the basis of some projects.

- Skills or abilities of students improved.
- Knowledge on various aspects of project management were developed.
- Confidence level of the students was boosted.
- Improved teamwork spirit.
- Implementation and deployment of the project for social benefits.
- Document preparation and presentation.
- Opportunities to showcase their project work in project exhibition.

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

Initiatives related to industry interaction:

The Industry-Institute Interaction activities conducted throughout the four-year College/Department program play a crucial role in preparing students for real-world challenges and enhancing their industry readiness. This formal platform facilitates a two-way exchange, enabling both students and faculty members to gain insights into industry expectations and align their skill sets accordingly. The gracious involvement of industry experts and department alumni significantly contributes to this process through Seminars, Guest lectures, Workshops, Project Guidance, and Industrial training opportunities. These collaborative efforts equip students with the necessary knowledge and skills to meet the requirements of their future roles effectively. The following procedures are followed for industry interaction:

- **Industrial Visits:** Students participate in industrial visits to understand the working standards, processes, and procedures involved in various industries.
- **Internships and Training:** Students are sent for internships or industrial training lasting 10 to 15 days during their program.
- **Guest Lectures / Seminars / Workshops :** Industry personnel are invited to the college to discuss current standards, trends, and expectations of the industry. These seminars help students stay updated in their field of interest.

We have signed MOUs with the following organizations to enhance industry interaction:

- **GTT Foundation :** This organization provide the Skill Development Training for students. This program aims to equip students with essential skills that align with current industry requirements, thereby enhancing their employability.
- **Skillsort Technical Solutions Pvt. Ltd., Chennai:** An organization that has been facilitating the growth of small enterprises since 1995, providing hands-on training for our students.
- **LOGSKIM Solutions Private Limited:** The top ten students from the department, selected based on their CGPA, are sent to LOGSKIM to learn about telecommunications and the latest technologies used in the communication industry. This is part of the Employability Enhancement Training Program (EETP).
- **Other Organizations:** Our department has MOUs with organizations like WiseTech Source Pvt. Ltd., Guindy, Chennai, Singapore South Asia Chamber of Commerce and Industry, Veranda Learning Solutions Limited, and NJC Labs Consulting and Services. These MOUs facilitate industrial visits, internship programs, and seminars by experts from these organizations.

To strengthen interaction with industries and keep our students updated with the latest trends in Electronics & Communication Engineering, the department has established agreements with these companies.

1. Initiatives for industry interaction:**MEMORANDUM OF UNDERSTANDING (MOU)**

Sl.No	Academic Year	Name of the Organization	Date On Which MOU Signed
1	2024 - 25	GTT Foundation	18.09.2024
2	2023-2024	Skillsort Technical Solutions Pvt Ltd,Chennai	09.01.2024
3	2023-2024	Veranda learning Solutions Limited	30.11.2023
4	2023-2024	Singapore south Asia Chamber of Commerce and Industry	06.11.2023
5	2023-2024	WiseTech Source PVT LTD, Guindy, Chennai	29.06.2023
6	2021-2022	NJC Labs Consulting and Services	07.09.2021
7	2021-2022	LOGSKIM SOLUTIONS PRIVATE LIMITED, T - Nagar, Chennai-600017	27.08.2021
8	2021 - 22	ARK Info Solutions Private Limited	07.12.2021

A. Industry Supported Laboratories:

Industry-supported laboratories enhance the learning process by providing students and faculty members with a comprehensive understanding of industry best practices. These laboratories facilitate meaningful practical sessions by incorporating the development of functional prototype models that demonstrate core subject concepts. Additionally, collaboration with key industry partners who have established products in the market allows for the exploration of real-world industrial applications. This hands-on approach, combined with industry insights, enables students to gain practical experience and a deeper grasp of theoretical concepts, better preparing them for professional challenges.

- **MOU's was done with industries to emphasize on**

- (i) Internship
- (ii) Project Workshop for Students
- (iii) Industrial Visits
- (iv) Students specific Training
- (v) Faculty Development Program

Industry Supported laboratories:

Sl. No	Laboratory Name	Detail	Areas in which students' are expected to have enhanced learning
1	Healthtech	Centre of Excellence	Medical Imaging
2	Agritech	Centre of Excellence	Smart Irrigation
3	AI in Robo	Centre of Excellence	Automation & Intelligence
4	Cyber Security	Centre of Excellence	Threat Protection & Forensics

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

The department often collaborates with industry partners to ensure that academic programs and regular courses offered to students are aligned with industry needs and standards. This industry involvement can take several forms:

The department has the very good interaction with the industry through various modes:

The department invites experts from industry for invited lectures for the benefit of the students. The lectures result in lively discussion which imparts current state of art knowledge to the students and staff. The details of such programs are given below

1. Course design: Subject matter experts from various industries contribute to the design and development of specific courses. They provide insights into the latest trends, technologies, and best practices, helping to shape the course content and ensure its practical relevance.

S.NO	PERIODS	COURSE NAME	ORGANIZATION	USERS
1	45 Periods	Blockchain	Naan Mudhalvan, Tamil Nadu Skill Development Corporation	IV Year
2	45 Periods	4G/5G Communication Network	Naan Mudhalvan, Tamil Nadu Skill Development Corporation	III Year
3	45 Periods	Design thinking , IoT, Embedded	Naan Mudhalvan, Tamil Nadu Skill Development Corporation	II Year
4	140 Hours	Certificate course on Cloud	ICT Academy & PayPal India	IV Year

Table : Industry attached delivery of courses

1. Seminars and workshops:

Industry professionals are invited to deliver seminars, webinars, workshops, or participate in panel discussions as part of regular courses. This exposure allows students to learn directly from experienced professionals, gain insights into real-world challenges, and understand the practical applications of the course material.

Table 2.2 Seminars and Workshops details during Academic Year 2023-24

S.NO	TYPE	TOPIC	DATE	RESOURCE PERSON
1	Workshop	Augmented Reality and Virtual Reality	17.10.2023 & 18.10.2023	Mr. Gokula Krishnan Game Developer, Scopik Edutech Pvt Ltd, Chennai
2	Seminar	AR & VR	21.09.2023	Mr. Aravind, CEO, Vegas Brain Pvt. Ltd, Chennai
3	Seminar	Role of AI and IoT in Farming	21.02.2024	Mr. Nishaan, Manager, Bright World Innovations
4	Seminar	Wearable Health Technologies and Remote Patient Monitoring	04.03.2024	Mr.Prabhu Manager, RETECH, Chennai

C. Impact analysis of industry institute interaction and actions taken:

- Students picked up what they learnt at the In- plant training to implement their own mini project and also final year projects.
- Students gained from this exposure to incorporate an entrepreneurial spirit and project based thinking.
- Getting regular feedback from the students after every industry interaction program conducted. This will help us to understand the student's expectations to enhance their knowledge for getting placement.
- Industrial training for students should not be undervalued, as it significantly impacts their employability after graduation. While practical skills are essential for securing jobs, competencies can be further developed on the job. However, not all acquired skills add equal value to a students profile. The focus should be on identifying and acquiring the most relevant skills aligned with employers expectations, rather than accumulating a vast array of skills indiscriminately.

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

Institute Marks : 15.00

Initiatives related to industry internship/summer training:**A. Industry training/tours for Students:**

The faculties of the department constantly try to interact with industries like ICF, Doordharsan Kendra, Kaashiv InfoTech, and BSNL etc. for industrial visit. Students are allowed to go for the industrial visit to gain experience in the relevant field of several industries during their academic journey.

The details of the industry visited by the students are given below

ACADEMIC YEAR: 2023-2024

Sl.No.	Year	Name of the Organization	Date of Visit	Helps to attainment of POs
1	II	Doordarshan Kendra ,Chennai	03-10-2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
2		SANSBOUND- The Networking School	18-03-2024	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
3	III	Chennai Rail Museum	21-09-2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
4		RETECH LASERS	07-02-2024	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
5	IV	Doordarshan Kendra Chennai	3-10-2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
6		RETECH LASERS	07-02-2024	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12

ACADEMIC YEAR: 2022-2023

Sl.No.	Year	Name of the Organization	Date of Visit	Helps to attainment of POs
1	II	Hindustan Lever Ltd, Chennai.	20.09.2022	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
2		Prasar Bharati, Doordharsan Kendra, Chennai	15.11.2022	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
3		Thermal Power Plant Ennoor, Chennai.	03.02.2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
4		Integral Coach Factory, Perambur.	17.03.2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
5	III	Prasar Bharati, Doordharsan Kendra, Chennai.	06.02.2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
6		Thermal Power Plant Ennoor, Chennai.	24.01.2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
7		Integral Coach Factory, Perambur.	17.11.2022	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
8		Hindustan Lever Ltd, Chennai.	20.09.2022	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
9	IV	Flextronics, Oragadam.	17.10.2022	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
10		Hindustan Lever Ltd, Chennai.	22.03.2023	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO8,PO9,PO10,PO11,PO12
11		Prasar Bharati, Doordharsan Kendra, Pondicherry.	17.02.2023	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
12		BSNL, Maraimalainagar, Chennai.	19.10.2022	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO8,PO9,PO10,PO11,PO12

B. Industrial /Internship/summer Training of more than two week and Post training Assessment:

The students are encouraged to take up internship programs during their semester break. Faculty members give their guidelines, suggestions and scope and contact details of an internship. They also help the students by interacting with the industrial experts, provide the students recommendation letters and other necessary supports. The alumni coordinator constantly interacts with alumni those who are working in the industries and request them to provide necessary guidelines and supports for their junior's internship.

Our students are motivated and encouraged to get the placement through on campus during the final year. The students who got placements have been identified by some of the companies to undergo internship training during their vacations. The details are given below

1. Internship training:

Sl.No	Academic year	Company Name	No of Students	POs	PSOs
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1	2023-2024	Retech Solutions Pvt.Ltd	10	PO1,2,3,4,5,11	PSOs1,2,3
		BSNL	4	PO1,2,3,4,5,11	PSOs1,2,3
		Forage(Walmart Global Tech)	10	PO1,2,3,4,5,11	PSOs1,2,3
		Conneqt	1	PO1,2,3,4,5,11	PSOs1,2,3
		VEI Technologies	24	PO1,2,3,4,5,11	PSOs1,2,3
		Avant Grade	1	PO1,2,3,4,5,11	PSOs1,2,3
		Naviyn Machine Tools	7	PO1,2,3,4,5,11	PSOs1,2,3
		Lunchdroid Technologies	3	PO1,2,3,4,5,11	PSOs1,2,3
		Seetu Orbit Cable India Pvt.Ltd	1	PO1,2,3,4,5,11	PSOs1,2,3
		Railtel Corporation Pvt.Ltd	1	PO1,2,3,4,5,11	PSOs1,2,3
		Quilltez	3	PO1,2,3,4,5,11	PSOs1,2,3
		Brakes India	1	PO1,2,3,4,5,11	PSOs1,2,3
		Globesci Technologies	3	PO1,2,3,4,5,11	PSOs1,2,3
		Jemmax Technologies	1	PO1,2,3,4,5,11	PSOs1,2,3
		Interncertify	1	PO1,2,3,4,5,11	PSOs1,2,3
		STL Auto Components Pvt.Ltd	2	PO1,2,3,4,5,11	PSOs1,2,3
		Transenergy	1	PO1,2,3,4,5,11	PSOs1,2,3
		Schneider Electric	2	PO1,2,3,4,5,11	PSOs1,2,3
		2	2022-2023	Retech Solutions Pvt.Ltd	9
BSNL	9			PO1,2,3,4,5,11	PSOs1,2,3
Forage(KPMG)	8			PO1,2,3,4,5,11	PSOs1,2,3
Wiztech consultancy Pvt.Ltd	5			PO1,2,3,4,5,11	PSOs1,2,3
UNIQ Technologies	8			PO1,2,3,4,5,11	PSOs1,2,3
Sun Rubber Works	2			PO1,2,3,4,5,11	PSOs1,2,3
Hyundai	2			PO1,2,3,4,5,11	PSOs1,2,3
Glomatriz	1			PO1,2,3,4,5,11	PSOs1,2,3
Ashok Leyland	1			PO1,2,3,4,5,11	PSOs1,2,3
Mirror Box	3			PO1,2,3,4,5,11	PSOs1,2,3
Nano Network	5			PO1,2,3,4,5,11	PSOs1,2,3
3	2021-2022	Wiztech consultancy Pvt.Ltd	17	PO1,2,3,4,5,11	PSOs1,2,3
		Kaashiv Info tech	10	PO1,2,3,4,5,11	PSOs1,2,3
		Nano Network	10	PO1,2,3,4,5,11	PSOs1,2,3
		Forage(KPMG)	3	PO1,2,3,4,5,11	PSOs1,2,3

C. Impact Analysis of industrial training :

Impact analysis of industrial training refers to the process of evaluating and measuring the effects and outcomes of training programs conducted within an industrial or organizational setting. It is a crucial step in determining the effectiveness and value of the training initiatives and identifying areas for improvement. The impact analysis aims to assess the extent to which the training has achieved its intended objectives and contributed to the overall performance and productivity of the organization. The impact analysis of industrial training typically involves the following key aspects:

- Gain Valuable Work Experience
- Behavioral changes
- Learning and Skill acquisition
- Have an Edge in the Job Market
- Transition into a Job
- Decide if this is the Right Career for You
- Networking Opportunities
- Apply Classroom Knowledge
- Job performance and productivity
- Pre-professional work experience.
- Made Student aware with industry practices.
- Industrial visit help the students to get through knowledge about subject in practical perspective.
- Hands on Activities and Awareness of latest technologies.

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	Analyze and design analog & digital circuits or systems for a given specification and function.
PSO2	Implement functional blocks of hardware-software co-designs for signal processing and communication applications.
PSO3	Design, develop and test electronic and embedded systems for applications with real time constraints and to develop managerial skills with ethical behavior to work in a sustainable environment.

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 05	Course Year :	2021-2022
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Course Name	Statements
C2 05.1	Able to Analyse the concept of Boolean equation
C2 05.2	Able to design various combinational digital circuits using logic gates
C2 05.3	Able to analysis and design procedures for synchronous sequential circuits
C2 05.4	Able to analysis and design procedures for asynchronous sequential circuits
C2 05.5	Able to summarize and implement the semiconductor memories

Course Name :	C2 14	Course Year :	2021-2022
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Course Name	Statements
C2 14.1	Able to summarize basics of operational amplifiers
C2 14.2	Ability to design applications of OPAMP
C2 14.3	To design applications using analog multiplier and PLL
C2 14.4	To design ADC and DAC using OP – AMPS
C2 14.5	Able to Generate waveforms using OP – AMP Circuits

Course Name :	C3 02	Course Year :	2022-2023
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Course Name	Statements
C3 02.1	Able to apply DFT for the analysis of digital signals & systems
C3 02.2	Ability to design of IIR Filters.
C3 02.3	Ability to design of FIR Filters
C3 02.4	Ability to understand and analyze Finite word length effects
C3 02.5	Ability to understand the fundamental concepts of Digital Signal Processors and its applications.

Course Name :	C3 11	Course Year :	2022-2023
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Course Name	Statements
C3 11.1	To know MOS circuit realization of the various building blocks
C3 11.2	Able to know the concept of combinational logic circuit layouts for both static CMOS and dynamic clocked CMOS circuits.
C3 11.3	Able to understand the concept of sequential logic circuit layouts for latches and flipflop
C3 11.4	To design arithmetic building blocks
C3 11.5	To implement the strategies like ASIC and FPGA

Course Name :	C4 05	Course Year :	2023-2024
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Course Name	Statements
C4 05.1	Students able to learn Ad hoc network and Sensor Network fundamentals
C4 05.2	Students able to understand the different routing protocols
C4 05.3	Have an in-depth knowledge on sensor network architecture and design issues
C4 05.4	Students able to understand the transport layer and security issues possible in Ad hoc and Sensor networks.
C4 05.5	Students able to familiar with the OS used in Wireless Sensor Networks and build basic modules.

Course Name :	C4 09	Course Year :	2023-2024
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Course Name	Statements
C4 09.1	The student should be able to apply ethics in society.
C4 09.2	Discuss the ethical issues related to engineering.

C4 09.3	Students will able to know engineering as social experimentation.
C4 09.4	Realize the safety, responsibilities and rights in the society.
C4 09.5	Students will able to know the global issues.

3.1.2 CO-PO matrices 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 : C205

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	3 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
C205.2	2 ▾	3 ▾	3 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	3 ▾	3 ▾	2 ▾	2 ▾
C205.3	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	3 ▾	3 ▾	2 ▾	2 ▾
C205.4	3 ▾	3 ▾	3 ▾	2 ▾	1 ▾	2 ▾	- ▾	- ▾	3 ▾	3 ▾	2 ▾	2 ▾
C205.5	3 ▾	2 ▾	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
Average	2.80	2.60	2.80	2.40	1.80	2.00	0.00	0.00	1.80	1.80	2.00	2.00

2 . course name : C214

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3 ▾	2 ▾	2 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C214.2	3 ▾	2 ▾	2 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	1 ▾
C214.3	3 ▾	2 ▾	1 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	2 ▾
C214.4	3 ▾	2 ▾	1 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	2 ▾
C214.5	3 ▾	2 ▾	2 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
Average	3.00	2.20	1.60	1.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	1.80

3 . course name : C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C302.2	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	2 ▾
C302.3	3 ▾	3 ▾	2 ▾	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	2 ▾
C302.4	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C302.5	3 ▾	1 ▾	1 ▾	1 ▾	1 ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾	1 ▾	2 ▾
Average	2.80	2.40	2.20	2.40	2.40	2.00	2.00	2.00	2.00	2.00	1.00	2.00

4 . course name : C311

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3 ▾	3 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	2 ▾
C311.2	3 ▾	3 ▾	2 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
C311.3	3 ▾	3 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	3 ▾
C311.4	3 ▾	3 ▾	2 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	3 ▾
C311.5	3 ▾	3 ▾	2 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾
Average	3.00	3.00	2.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	2.00	3.00

5 . course name : C405

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	3 ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
C405.2	3 ▾	- ▾	2 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
C405.3	3 ▾	1 ▾	2 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
C405.4	3 ▾	1 ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
C405.5	3 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
Average	3.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00

6 . course name : C409

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C409.1	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾	3 ▾	3 ▾	1 ▾	2 ▾	2 ▾
C409.2	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	3 ▾	3 ▾	3 ▾	1 ▾	- ▾	2 ▾
C409.3	2 ▾	2 ▾	3 ▾	- ▾	- ▾	2 ▾	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾
C409.4	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾
C409.5	3 ▾	2 ▾	3 ▾	- ▾	- ▾	2 ▾	- ▾	3 ▾	3 ▾	3 ▾	- ▾	2 ▾
Average	3.00	2.00	3.00	0.00	0.00	2.00	3.00	3.00	3.00	2.00	3.00	2.00

1 . Course Name : C205

Course	PSO1	PSO2	PSO3
C205.1	3 ▾	2 ▾	3 ▾
C205.2	3 ▾	2 ▾	2 ▾
C205.3	3 ▾	3 ▾	2 ▾
C205.4	2 ▾	3 ▾	2 ▾
C205.5	3 ▾	2 ▾	2 ▾
Average	2.80	2.40	2.20

2 . Course Name : C214

Course	PSO1	PSO2	PSO3
C214.1	1 ▾	1 ▾	1 ▾
C214.2	1 ▾	1 ▾	1 ▾
C214.3	1 ▾	1 ▾	1 ▾
C214.4	2 ▾	2 ▾	2 ▾
C214.5	3 ▾	3 ▾	3 ▾
Average	2.00	2.00	2.00

3 . Course Name : C302

Course	PSO1	PSO2	PSO3
C302.1	1 ▾	1 ▾	1 ▾
C302.2	2 ▾	2 ▾	2 ▾
C302.3	2 ▾	2 ▾	2 ▾
C302.4	1 ▾	1 ▾	1 ▾
C302.5	2 ▾	2 ▾	2 ▾
Average	1.60	1.60	1.60

4 . Course Name : C311

Course	PSO1	PSO2	PSO3
C311.1	1 ▾	2 ▾	3 ▾
C311.2	1 ▾	2 ▾	3 ▾
C311.3	2 ▾	3 ▾	3 ▾
C311.4	2 ▾	3 ▾	3 ▾
C311.5	2 ▾	3 ▾	3 ▾
Average	2.00	3.00	3.00

5 . Course Name : C405

Course	PSO1	PSO2	PSO3
C405.1	- ▾	2 ▾	2 ▾
C405.2	- ▾	2 ▾	2 ▾
C405.3	- ▾	2 ▾	2 ▾
C405.4	- ▾	2 ▾	2 ▾
C405.5	- ▾	2 ▾	2 ▾
Average	0.00	2.00	2.00

6 . Course Name : C409

Course	PSO1	PSO2	PSO3
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C409.1	1	▼	-	▼	1	▼
C409.2	1	▼	-	▼	1	▼
C409.3	1	▼	-	▼	1	▼
C409.4	1	▼	-	▼	1	▼
C409.5	1	▼	-	▼	1	▼
Average	1.00		0.00		1.00	

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

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	0	0	0	0	0	1.8	1	1.8	1.8	1.8	1.87	0
C102	2.8	2.8	2.8	1	0	0	0	0	0	0	2	2
C103	3	3	3	3	0	2	2	0	0	0	3	3
C104	3	1	0	0	0	0	0	0	0	0	2	2
C105	2.8	2.8	3	1	2	0	0	0	0	0	2	2
C106	3	0	0	0	0	0	0	0	0	2	1.8	1.8
C107	3	2.8	2.6	1	2	0	0	0	0	0	2	2
C108	2.8	2.8	2.8	2.8	0	2	2	0	0	0	2.8	2.8
C110	3	3	3	1	0	0	0	0	0	0	2	2
C111	3	3	3	3	0	2	2	0	0	0	3	3
C112	3	2.8	2	2	2	2	0	0	0	0	2	2
C113	3	3	3	3	3	2	0	0	2	2	3	3
C114	3	2	1	1	2	0	0	0	0	0	2	2
C115	2.8	2	1	1	1.8	0	0	0	0	0	1.8	1.8
C109	0	0	0	0	2	2	1	2	2	2	2	2
C116	2	0	0	0	0	0	0	0	0	0	2	2
C201	3	2	0	0	0	0	0	0	0	0	2	2
C202	2.8	2	1	2	2	0	0	0	0	0	1.8	1.8
C203	3	2	1	1	2	0	0	0	0	0	1.8	1.8
C204	2.8	2.8	2	2	2	0	0	0	0	0	2	2
C205	2.8	2.6	2.8	2.4	1.8	2	0	0	1.8	1.8	2	2
C206	2.8	2.6	2.8	0	2	2	0	0	0	0	2	2
C208	2.8	2	1	1	1.8	0	0	0	0	0	1.8	1.8
C209	0	0	0	0	0	3	0	3	3	3	2	2
C210	3	2	0	0	0	0	0	0	0	0	2	2
C211	3	2	1	1	2	0	0	0	0	0	1.8	1.8
C212	2.8	2.6	2.8	0	2	2	0	0	0	0	2	2
C213	2.6	2.6	2.6	0	0	0	0	0	0	0	0	1.8
C214	3	2.2	1.6	1	2	0	0	0	2	0	0	1.8
C215	0	0	0	0	0	3	3	3	0	0	3	3
C216	2.8	2	1	1	1.8	0	0	0	0	0	1.8	1.8
C217	2.8	2	1	1	1.8	0	0	0	0	0	1.8	1.8
C301	3	0	0	0	0	0	0	0	0	0	0	2
C302	2.8	2.4	2.2	2.4	2.4	2	2	2	2	2	1	2
C303	3	0	0	0	0	0	0	0	0	0	2	2
C304	3	2	2	2	3	0	0	0	0	0	0	2
C305	0	0	0	0	0	3	3	3	2	2	2	2
C306	0	0	0	0	0	3	3	0	0	0	2	2

C307	2.8	2.4	2.2	2.4	2.4	0	0	0	0	0	1	2
C308	2.8	2.4	2.2	2.4	2.4	0	0	0	0	0	1	1
C309	2.8	2.4	2.2	2.4	2.4	0	0	0	0	0	1	2
C310	3	0	0	0	0	2	2	0	0	0	1	2
C311	3	3	2	2	3	0	0	0	0	0	2	3
C312	2.8	2.8	2.8	0	0	0	0	0	0	0	0	PO12
C313	0	0	0	0	0	3	3	3	2	2	2	2
C314	2.8	2.8	2.6	2.8	0	0	0	0	0	0	1	2
C315	3	0	0	0	0	0	0	0	0	0	1	2
C316	3	2.8	2.8	2.8	2.8	0	0	0	0	0	1	2
C317	2	0	0	0	2	2	0	2	2	2	2	2
C318	0	0	0	0	0	2	0	0	1	2	2	2
C401	2.8	2.8	2.8	2	2	0	0	0	0	0	1	2
C402	2.8	2.8	2.8	2	2	0	0	0	0	0	1	2
C403	2.8	2.8	2.8	2	2	0	0	0	0	0	1	2
C404	0	0	0	0	0	2	2	2	0	2	1	2
C405	3	1	2	0	2	0	0	0	0	0	2	2
C406	2.6	2.6	2	2	2	0	0	0	0	0	1	2
C407	2.8	2	2	0	0	0	0	0	0	0	0	0
C408	2.8	2	2	0	0	0	0	0	0	0	1	2
C409	3	2	3	0	0	2	3	3	3	2	3	2
C410	3	3	3	3	3	3	3	3	3	3	3	3
C207	3	2.8	2.6	1	2	0	0	0	0	0	2	2

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

Course	PSO1	PSO2	PSO3
C101	0	0	0
C102	1.8	1.8	1.8
C103	1	2	2
C104	1	0	0
C105	0	0	2
C106	0	0	0
C107	1	0	0
C108	1	1.8	1.8
C109	0	0	2
C110	0	0	0
C111	1	1.8	1.8
C112	1	2	2
C113	3	2	2
C114	2	2	2
C115	2	2	2
C116	1	0	0
C201	0	0	1
C202	0	0	2
C203	1.8	1.8	1.8
C204	0	0	1.8
C205	2.8	2.4	2.2
C206	0	0	0

C207	1	0	0
C208	2	2	2
C209	0	0	2
C210	0	0	1
C211	1.8	1.8	1.8
C212	1.8	1.8	1.8
C213	0	0	2
C214	2	2	2
C215	0	0	3
C216	0	0	2
C217	0	0	2
C301	0	0	3
C302	1.6	1.6	1.6
C303	0	0	3
C304	0	0	0
C305	0	0	3
C306	0	0	0
C307	0	0	3
C308	0	0	1.6
C309	0	0	1.6
C310	0	0	2
C311	2	3	3
C312	3	3	3
C313	0	0	2
C314	3	3	3
C315	0	0	2
C316	3	3	3
C317	0	0	0
C318	0	0	2
C401	3	3	3
C402	3	3	3
C403	3	3	3
C404	0	0	0
C405	0	2	2
C406	2	2	2
C407	0	0	2
C408	3	3	3
C409	1	0	1
C410	3	3	3

3.2 Attainment of Course Outcomes (50)

Total Marks 50.0

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

Institute Marks : 10.0

A. List of assessment processes:

Designing the COs for the individual subject is the foremost process. These COs are mapped with POs and PSOs. At the end of the course, attainment levels are calculated for the COs, POs and PSOs and need to be evaluated whether it is attained or not.

Assessment Tools:

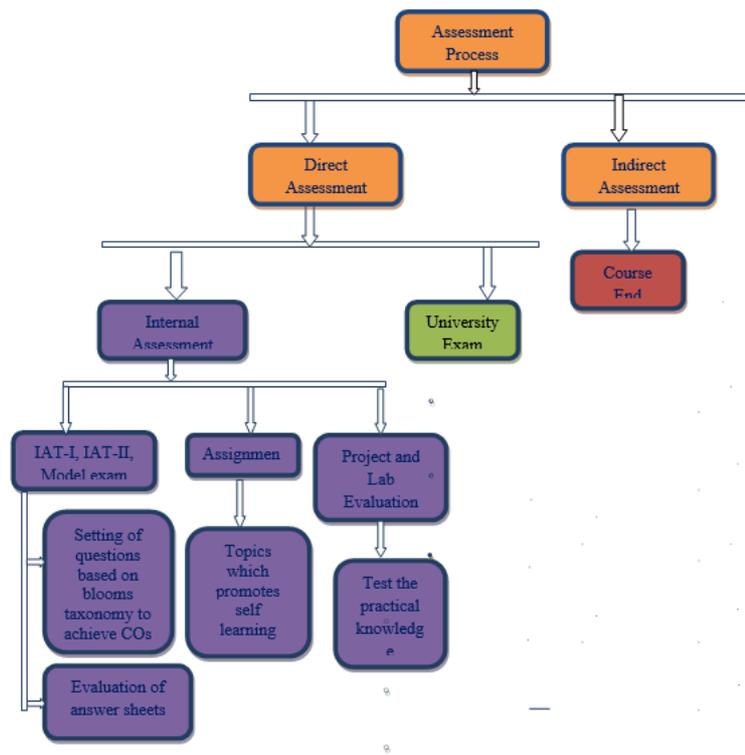


Figure 3.1 Assessment processes

Assessment Tools are categorized into direct and indirect methods. The CO, PO and PSO attainment is calculated based on the assessment process through assessment tools . The direct assessment tools used to calculate the attainment of Course Outcomes are Internal Assessment Tests, Assignments and University Examination. 20% of weightage is given to Internal Assessment Tests and Assignments, 80% of weightage is given to University Examination. The indirect assessment tool used to calculate the attainment of Course end-survey. The Course End Survey consists of Questionnaires prepared with four scale range by focusing to evaluate the COs attainment of all courses in a semester.

Each CO is mapped with POs and the direct attainments of POs are calculated. The indirect assessment tools used to calculate the attainment of Program Outcomes are the Employer, Parent, Professional body activities and Graduate Exit Survey. For both PO and CO assessment, the weightage of direct assessment is 80% and indirect assessment is 20%.

Laboratory courses are assessed through the marks obtained by the students in the model examination, record book and university examination. Project courses are assessed through the mark obtained by the students in project reviews and project viva-voce examination. The project work is done as either single or a team of students not more than 4. A panel comprising of project coordinator, internal guide and a subject expert conducts the project review. Totally three reviews are conducted in regular intervals. At the end of the semester university conducts viva-voce examination. The attainment levels for recording the attainment of Course Outcomes are defined based on the average performance of students in each subject.

B. The quality /relevance of assessment processes & tools used:

All the Internal Assessment marks will be uploaded in Anna University web portal and the internal marks will be awarded purely based on their marks in the internal assessment and the assignments. Therefore students are expected to take the tests seriously and perform well in the tests & examination. Parents are requested to have a close watch on their ward’s performance.

Table 3: Assessment process and Tools used

Assessment Tools	Description	Assessment Frequency
Internal Test	IAT – I (Unit – I and Unit – II) IAT – II (Unit – III and Unit – IV) Model Exam -All units	Two Internal Assessment Test and One Model exam
Assignment	Challenging questions are included in the assignment that drives the students to search various resources for appropriate solution.	Five per Semester
End Semester Exam	Question paper given by the University	End of the Semester
Internal Evaluation for Lab	Observation	Weekly
	Record	Weekly
	Model Lab Exam-Cycle 1&2	Once per Semester
Course End Survey	At the end of every semester course end survey is taken from the students according to the attainment of CO	End of the Semester

Assessment Process:

For the purpose of illustrating CO attainment process of **EC8392- Digital Electronics of III Semester** for the academic year 2021-2022 (ODD SEMESTER) has been taken as a sample. To assess the CO attainment through internal assessment the elements considered are Internal Assessment Test I (IAT - I), Internal Assessment Test II (IAT - II), assignment and the Model Exam and for assessing the university exam, university mark alone is used.

Measuring CO attainment: Internal Assessment

The percentage distribution of how much each factor contributes to the CO attainment calculation is given using weighing factor and the percentage of distribution of each CO in every assessment the CO attainment process is given in the following sections.

FORMULAS USED FOR CALCULATION

$$CO1 = [(CO1(IAT1) \% + CO1(Model)\% + CO1(Assignment)\%) / 78] * 100$$

$$CO2 = [(CO2(IAT1) \% + CO2(Model)\% + CO2(Assignment)\%) / 83] * 100$$

$$CO3 = [(CO3(IAT2) \% + CO3(Model)\% + CO3(Assignment)\%) / 71] * 100$$

$$CO4 = [(CO4(IAT2) \% + CO4(Model)\% + CO4(Assignment)\%) / 91] * 100$$

$$CO5 = [(CO5(Model)\% + CO5(Assignment) / 27] * 100$$

FORMULAS USED FOR CALCULATION IN LAB

$$CO1 = ((CO1 (Cycle 1) \% * .25 + CO1 (Model)\% * 0.5) / 75) * 100$$

$$CO2 = ((CO2 (Cycle 1) \% * .25 + CO2 (Model)\% * 0.5) / 75) * 100$$

$$CO3 = ((CO3 (Cycle 1) \% * .25 + CO3 (Cycle 2) \% * .25 + CO3 (Model)\% * 0.5) / 80) * 100$$

$$CO4 = ((CO4 (Cycle 2) \% * .25 + CO4 (Model)\% * 0.5) / 75) * 100$$

$$CO5 = ((CO5 (Cycle 2) \% * .25 + CO5 (Model)\% * 0.5) / 75) * 100$$

Assessment through Internal Examinations:

2021-2022 ODD SEMESTER																
Course Outcome Attainment -Consolidation Report																
EC8392-DIGITAL ELECTRONICS																
Semester: 03										No. of Students : 36						
Sl.No.	Register No.	Name	CO1			CO2			CO3			CO4			CO5	
			IAT1 (44)	MODEL (24)	Attainment	IAT1 (56)	MODEL (17)	Attainment	IAT2 (44)	MODEL (17)	Attainment	IAT2 (56)	MODEL (25)	Attainment	MODEL (17)	Attainme
1	210520106001	ABNER S	20	20	63	24	15	55	14	15	54	23	22	58	15	89
2	210520106002	ALLGRACE BAIRD A	41	21	90	52	13	89	41	12	86	52	20	88	12	70
3	210520106019	GOPALA KRISHNAN S	34	20	78	54	14	92	34	14	77	54	21	91	14	85
4	210520106020	HARISH V	36	18	76	48	15	84	13	15	52	13	20	46	15	85
5	210520106021	JACK JUSTIN S	34	19	76	48	16	88	34	16	82	48	18	80	16	85
6	210520106024	JAYA SURIYAN R	26	20	71	12	14	41	26	14	66	46	19	81	14	81
7	210520106025	JEYAMADHAVA RAJA M	34	21	81	48	15	84	20	12	58	48	20	84	12	74
8	210520106027	KARTHIK G P	23	23	68	17	14	47	36	14	82	37	21	71	14	81
9	210520106028	KARTHIK J	42	22	94	50	15	88	42	15	90	50	20	87	15	85
10	210520106029	KEERTHANA J	41	20	90	52	13	87	41	14	90	52	20	88	14	85
11	210520106030	KESAVAN R	43	18	90	54	12	90	20	12	56	25	17	55	12	70
12	210520106031	KRISHNAN B	42	19	88	52	13	88	42	13	87	52	18	86	13	81
13	210520106032	LIDIYA S	37	20	82	48	14	83	26	14	69	48	20	85	14	81
14	210520106036	MAHALAKSHMI R	23	17	63	23	15	57	2	15	35	4	21	35	15	81
15	210520106040	MUKESH E	40	16	79	46	16	84	40	15	87	46	20	82	15	89
16	210520106041	MUTHULAKSHMI S	38	14	73	46	13	80	38	13	83	46	20	81	13	78
17	210520106048	NIVETHA K	43	16	86	48	14	84	43	14	93	48	18	80	14	78
18	210520106049	PARTHASARATHY N	43	18	90	46	12	78	43	12	90	46	19	80	12	74
19	210520106051	PREETHI P	44	20	91	46	11	80	14	11	46	25	20	58	11	74
20	210520106054	RANJAN ROHIT ANDREWS J	40	22	90	50	10	82	40	10	80	50	18	84	10	70
21	210520106058	RITHIK KINGSLEE S	42	20	91	52	12	86	42	12	89	52	18	87	12	74
22	210520106063	SANJAY M	38	21	86	50	11	84	38	10	79	50	16	80	10	70
23	210520106065	SANTHOSH S	24	23	69	23	13	53	26	13	65	48	15	79	13	81
24	210520106071	SHARMILA V	36	23	87	46	12	78	36	12	79	46	17	78	12	74

25	210520106073	SHEEBA B	38	22	88	46	10	77	16	10	49	23	18	53	10	70	
26	210520106074	SHRADHAA	38	20	86	48	12	83	38	10	77	48	19	82	10	63	
27	210520106078	SIVARANJANI S	40	18	86	46	13	80	40	13	87	46	20	81	13	81	
28	210520106079	SRIDHAR M	35	23	83	45	12	80	35	12	77	45	22	82	12	74	
29	210520106080	SURIYA DEEPAN A	23	20	65	42	11	73	36	11	76	42	20	77	11	67	
30	210520106081	SURTHI S	37	20	85	38	10	66	21	10	56	25	20	59	10	70	
31	210520106091	VISHNU S	38	14	73	38	12	71	38	12	82	38	18	69	12	70	
32	210520106301	MALARMARAN K	35	17	78	23	13	53	35	13	77	37	19	71	13	81	
33	210520106302	VISHNU NARAYANAN V	24	18	62	2	14	28	24	14	65	37	20	71	14	81	
34	210520106303	YOGASRI	32	20	77	40	15	76	12	15	51	3	21	34	15	81	
35	210520106304	YOKESK	30	21	74	42	16	81	4	13	37	5	20	37	13	78	
36	210520106305	YUVAN	28	22	76	2	13	29	5	13	37	10	17	38	13	78	
Average			80			74			71			72			78		

Assessment through University Examination:

DMI COLLEGE OF ENGINEERING				
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING				
2021-2022 ODD SEMESTER				
Course Outcome Attainment -Consolidation Report				
EC8392-DIGITAL ELECTRONICS				
Semester: 03				
Sl.No.	Register No.	Name	Univ	
1	210520106001	ABNER S	U	0
2	210520106002	ALLGRACE BAIRD A	A	80
3	210520106019	GOPALA KRISHNAN S	B+	70
4	210520106020	HARISH V	U	0
5	210520106021	JACK JUSTIN S	A	80
6	210520106024	JAYA SURIYAN R	B	60
7	210520106025	JEYAMADHAVA RAJA M	A	80
8	210520106027	KARTHIK G P	B+	70
9	210520106028	KARTHIK J	A	80
10	210520106029	KEERTHANA J	A	80
11	210520106030	KESAVAN R	A	80
12	210520106031	KRISHNAN B	A	80
13	210520106032	LIDIYA S	B	60
14	210520106036	MAHALAKSHMI R	B+	70
15	210520106040	MUKESH E	A	80
16	210520106041	MUTHULAKSHMI S	B	60
17	210520106048	NIVETHA K	A+	90
18	210520106049	PARTHASARATHY N	B+	70
19	210520106051	PREETHI P	A+	90
20	210520106054	RANJAN ROHIT ANDREWS J	A+	90
21	210520106058	RITHIK KINGSLEE S	B	60
22	210520106063	SANJAY M	A	80
23	210520106065	SANTHOSH S	B+	70
24	210520106071	SHARMILA V	B+	70
25	210520106073	SHEEBA B	B	60
26	210520106074	SHRADHA A	B+	70
27	210520106078	SIVARANJANI S	A+	90
28	210520106079	SRIDHAR M	B+	70

29	210520106080	SURIYA DEEPAN A	A	80
30	210520106081	SURTHI S	B	60
31	210520106091	VISHNU S	A	80
32	210520106301	MALARMARAN K	UA	0
33	210520106302	VISHNU NARAYANAN V	A	80
34	210520106303	YOGASRI	UA	0
35	210520106304	YOKESK	UA	0
36	210520106305	YUVAN	U	0
Average			62.2	
No of students achieved more or equal than the 60 %			30	
Percentage			83	
Attainment Level			3	

Attainment level:

Attainment level:
Attainment level 1: 60% of students scoring more than 60 marks.
Attainment level 2: 70% of students scoring more than 60 marks.
Attainment level 3: 80% of students scoring more than 60 marks.

Attainment level of COs

Assessment Type	CO 1	CO 2	CO 3	CO 4	CO 5
INTERNAL ASSESSMENT	3	2	1	2	3
UNIVERSITY EXAM	3	3	3	3	3
DIRECT ASSESSMENT	3	2.8	2.6	2.8	3
INDIRECT ASSESSMENT	2.6	2.6	2.5	2.7	2.7
OVERALL ASSESSMENT	2.9	2.8	2.6	2.8	2.9

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

Institute Marks : 40.00

Measuring CO attainment through Internal assessments:

Attainment Level V/s Target

Attainment Level 1: 60% students scoring more than 60% marks out of maximum marks.

Attainment Level 2: 70% students scoring more than 70% marks out of maximum marks.

Attainment Level 3: 80% students scoring more than 80% marks out of maximum marks.

Measuring CO attainment through Semester End Examination

Attainment Level V/s Target

Attainment Level 1: 60% students scoring more than 60% marks out of maximum marks.

Attainment Level 2: 70% students scoring more than 70% marks out of maximum marks.

Attainment Level 3: 80% students scoring more than 80% marks out of maximum marks.

CO Attainment has been calculated by assuming 80 % weightage to University Examination and 20 % weightage to Internal Assessment.

Final CO Attainment has been calculated by assuming 80% weightage to Direct Attainment and 20% weightage to Indirect Attainment (Using Course End Surveys).

Table: Consolidation of Attainment of Course Attainment for Batch 2020-2024 (R 2017)

COURSE CODE	SUBJECT CODE	CO1	CO2	CO3	CO4	CO5
		Attainment Level				
C101	HS8151	2.87	2.78	2.90	2.90	2.90
C102	MA8151	2.77	2.78	2.32	2.91	2.80
C103	PH8151	2.34	2.80	2.90	2.90	2.90
C104	CY8151	2.77	2.78	2.92	2.94	2.91
C105	GE8151	2.92	2.94	2.91	2.80	2.80
C106	GE8152	2.67	2.92	2.91	2.80	2.80
C107	GE8161	2.92	2.76	2.57	2.78	2.92
C108	BS8161	2.57	2.77	2.93	2.57	2.77
C109	HS8251	2.77	2.78	2.92	2.94	2.91
C110	MA8251	2.77	2.78	2.92	2.94	2.91
C111	PH8253	2.80	2.80	2.90	2.90	2.90
C112	BE8254	2.57	2.77	2.93	2.57	2.77
C113	EC8251	2.77	2.78	2.34	2.94	2.91
C114	EC8252	1.63	1.64	1.61	2.57	1.65
C115	EC8261	1.63	2.57	1.61	1.49	1.65
C116	GE8261	2.92	2.76	2.57	2.78	2.92
C201	MA8352	1.63	1.64	1.61	1.49	1.65
C202	EC8393	1.63	1.64	2.57	1.49	1.65
C203	EC8351	1.63	2.57	1.61	1.49	1.65
C204	EC8352	1.63	1.64	1.61	1.49	1.65
C205	EC8392	2.92	2.76	2.57	2.77	2.93
C206	EC8391	2.57	1.63	1.64	1.61	1.49
C207	EC8381	2.27	2.12	2.10	2.13	2.29
C208	EC8361	1.64	1.61	1.49	1.65	1.63
C209	HS8381	2.27	2.12	2.10	2.13	2.29
C210	MA8451	2.27	2.12	2.10	2.13	2.29
C211	EC8452	1.63	1.64	1.61	1.49	1.65
C212	EC8491	1.63	1.64	1.61	1.49	1.65
C213	EC8451	1.63	1.64	1.61	1.49	1.65
C214	EC8453	1.63	1.64	1.61	1.49	1.65

C215	GE8291	2.27	2.12	2.10	2.13	2.29
C216	EC8461	1.47	1.48	1.30	1.33	1.65
C217	EC8462	1.47	1.48	1.30	1.49	1.65
C301	EC8501	1.48	1.30	1.49	2.13	2.29
C302	EC8553	2.27	2.12	2.10	2.13	2.29
C303	EC8552	1.47	1.48	1.30	1.33	1.65
C304	EC8551	1.64	1.64	1.62	1.65	1.65
C305	GE8077	2.92	2.76	2.57	2.78	2.92
C306	OMD551	2.92	2.76	2.57	2.78	2.92
C307	EC8562	1.64	1.64	1.62	1.65	1.65
C308	EC8561	1.47	1.48	1.30	1.33	1.65
C309	EC8563	1.64	1.64	1.62	1.65	1.65
C310	EC8691	1.64	1.64	1.62	1.65	1.65
C311	EC8095	1.47	1.48	1.30	1.33	1.65
C312	EC8652	1.64	1.64	1.62	1.65	1.65
C313	MG8591	2.91	2.76	2.90	2.93	2.93
C314	EC8651	2.27	2.12	2.10	2.13	2.29
C315	EC8681	1.47	1.48	1.30	1.33	1.65
C316	EC8661	2.34	2.80	2.90	2.90	2.90
C317	EC8611	2.27	2.12	2.10	2.13	2.29
C318	HS8581	2.91	2.76	2.90	2.93	2.93
C401	EC8701	2.34	2.80	2.90	2.90	2.90
C402	EC8751	2.92	2.76	2.57	2.77	2.93
C403	EC8791	2.34	2.80	2.90	2.90	2.90
C404	OBM752	2.91	2.76	2.90	2.93	2.93
C405	EC8702	1.64	1.64	1.62	1.65	1.65
C406	EC8711	2.34	2.80	2.90	2.90	2.90
C407	EC8761	2.92	2.76	2.57	2.77	2.93
C408	EC8010	2.91	2.76	2.90	2.93	2.93
C409	GE8076	2.91	2.76	2.90	2.93	2.93
C410	EC8811	2.92	2.76	2.57	2.77	2.93

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

Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes

A. PO and PSO Assessment Methodology and Tools

Assessment Tools	Description	Assessment Frequency
Internal Test	IAT – I (Unit – I and Unit – II) IAT – II (Unit – III and Unit – IV) Model -All units	Two Internal Assessment Test and One Model exam
Assignment	Challenging questions are included in the assignment that drives the students to search various resources for appropriate solution.	Five per Semester
End Semester Exam	Question paper given by the University	End of the Semester
Internal Evaluation for Lab	Observation	Weekly
	Record	Weekly
	Model Lab Exam	Once per Semester
Course End Survey	At the end of every semester course end survey is taken from the students according to the attainment of CO	End of the Semester
Exit Survey	Immediately after the completion of course of study, the attainment of PO is analyzed by getting feedback from the students	Completion of course during eighth Semester
Alumni Survey	For the attainment of PO the survey is taken from the passed out students irrespective of the year of completion.	Once in a year
Employers survey	Employer’s survey is collected from the employers about the level to which Programme Outcomes are attained based on the performance and progress of graduated students from the department.	Once in a year

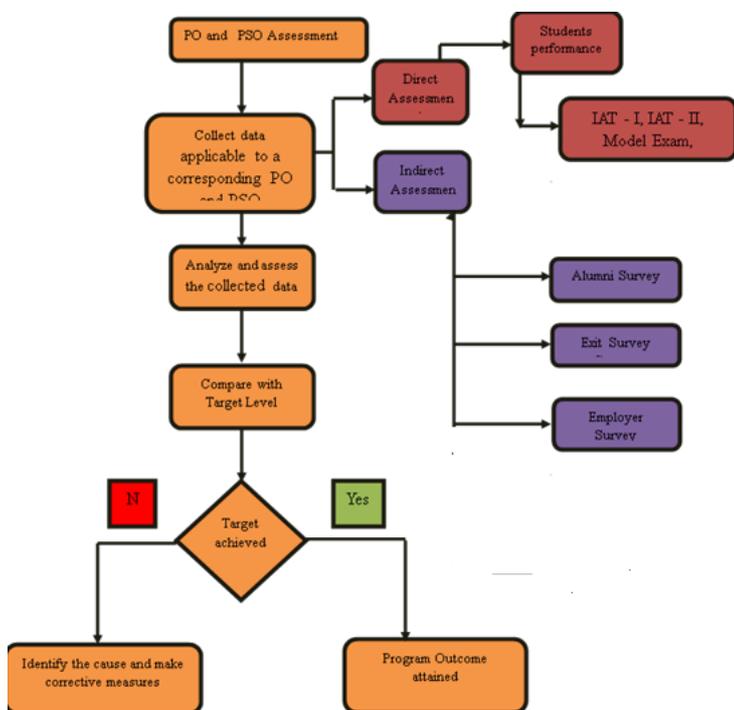


Figure 3.1: Process for attainment of PO

ASSESSMENT PROCESS

PO & PSO attainment process has been done by taking, direct and indirect assessment tools. In direct attainment marks obtained in IAT – I, IAT – II, Model, Assignment and University examination are taken into account. For indirect attainment surveys were taken from all the stakeholders.

1. A maximum of 5 Course outcomes is developed for each course. Program Outcomes and Program specific outcome assessment is done using the course outcome attainment, a sample calculation is shown below

Subject code/ name: EC8392/ Digital Electronics **Course ID :** C205

Regulation: 2017

Semester: III

Course outcomes

C205.1	Ability to Analyse the concept of Boolean equation
C205.2	Able to design various combinational digital circuits using logic gates
C205.3	Able to analysis and design procedures for synchronous sequential circuits
C205.4	Able to analysis and design procedures for synchronous sequential circuits
C205.5	Able to summarize and implement the semiconductor memories

CO PO, PSO Mappings.

Subject code and Subject name	CO	Program Outcomes												PSO		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
EC8392/ Digital Electronics	C205.1	3	2	2	2	2	2			0	0	2	2	3	2	3
	C205.2	2	3	3	2	2	2			3	3	2	2	3	2	2
	C205.3	3	3	3	3	2	2			3	3	2	2	3	3	2
	C205.4	3	3	3	2	1	2			3	3	2	2	2	3	2
	C205.5	3	2	3	3	2	2			0	0	2	2	3	2	2
AVERAGE		2.8	2.6	2.8	2.4	1.8	2	0	0	1.8	1.8	2	2	2.8	2.4	2.2
Rounded Average		3	3	3	2	2	2	-	-	2	2	2	2	3	2	2

1. CO attainment is calculated for each course in every academic year

	CO1	CO2	CO3	CO4	CO5
OVERALL ATTAINMENT LEVEL	3	3	3	3	3
	Y	Y	Y	Y	Y

2. Referring table above, if the attainment value is "Y", then the same CL value is copied into ACL (Achieved Correlation Value) , otherwise the ACL becomes 0.

Based on the CO attainment the percentage of correlation level is calculated as follows.

Sub Code / Name : EC8392/ Digital Electronics

Semester / Year : III/II

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12	PSO1	PSO2	PSO3	
Course Outcome	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL
C404.1	3	2.91	2	1.94	2	1.94	2	1.94	2	1.94	0	0	0	0	0	0
C404.2	2	1.84	3	2.76	3	2.76	2	1.84	2	1.84	0	0	0	3	3	3
C404.3	3	2.57	3	2.57	3	2.57	2	1.71	3	3	2.57	2	1.71	2	1.71	3
C404.4	3	2.77	3	2.77	3	2.77	2	1.85	1	0.92	3	3	2	1.85	2	1.85
C404.5	3	2.93	2	1.95	3	2.93	3	2.93	2	1.95	3	3	2	1.95	2	1.95
Total	14	13	13	12	2.81	3	12	11	9	8	10	9	-	-	-	-
Achieved Correlation value	93	92	96	93	93	93	-	-	90	90	93	93	93	92	93	
Mapping Level	3	3	3	2	2	2	0	0	2	2	2	2	3	2	2	
Attainment Level	2.60	2.40	2.69	2.23	1.67	1.86	-	-	1.62	1.62	1.86	1.86	2.60	2.21	2.05	

1. Based on the average correlation level of all subjects of a respective academic year and the percentage of Achieved correlation level found in step 3, the attainment level for the respective PO& PSO is selected from the table below.

ATTAINMENT LEVEL

Attainment level 1: If achieved correlation value is 60%

Attainment level 2: If achieved correlation value is 70%

Attainment level 3: If achieved correlation value is 80% and above

- A Total of the PO& PSO attainment of all courses are calculated and divided by the count of the mapping courses to obtain the PO average
- 80% of the PO & PSO average (direct attainment) is added to 20% of survey (indirect attainment) to achieve the final PO & PSO attainment for each PO & PSO.

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
C101	0	0	0	0	0	1.8	1	1.6	1.8	1.8	1.8	0
C102	2.8	2.8	2.8	1	0	0	0	0	0	0	2	2
C103	2.87	2.87	2.87	2.37	0	1.91	1.91	0	0	0	2.7	2.87
C104	2.6	1	0	0	0	0	0	0	0	0	1.8	1.8
C105	2.87	2.8	2.8	1	1.65	0	0	0	0	0	2	2
C106	3	0	0	0	0	0	0	0	0	2	1.8	1.8
C107	2.8	2.8	2.8	1	1.6	0	0	0	0	0	2	2
C108	2.87	2.87	2.8	2.8	0	1.91	1.91	0	0	0	2.8	2.8
C109	0	0	0	1.8	2	1	1.8	2	2	2	2	2
C110	3	2.8	2.8	1	0	0	0	0	0	0	2	2
C111	2.8	2.8	2.8	2.6	0	2	2	0	0	0	2.6	2.6
C112	3	2.8	2	2	2	2	0	0	0	0	2	2
C113	2.87	2.87	2.87	2.87	2.86	1.91	0	0	1.91	1.91	1.91	2.87
C114	2.87	1.82	1	1	1.87	0	0	0	0	0	2	2
C115	2.8	1.8	1	1	1.6	0	0	0	0	0	1.8	1.8
C116	2	0	0	0	0	0	0	0	0	0	2	2
C201	3	2	0	0	0	0	0	0	0	0	2	2
C202	3	2	1	1.67	1.8	1.6	0	0	0	0	1.8	1.6
C203	3	2	1	1	1.8	0	0	0	0	0	1.8	1.8
C204	2.8	2.8	1.6	1.67	1.6	0	0	0	0	0	1.8	1.8
C205	2.6	2.4	2.69	2.23	1.67	1.86	0	0	1.62	1.62	1.86	1.86
C206	2.6	2.45	2.45	0	2	2	0	0	0	0	2	2
C207	2.8	1.9	2.2	1	2	0	0	0	0	0	1.8	1.6
C208	2.8	2	1	1	1.65	0	0	0	0	0	1.2	1.2
C209	0	0	0	0	0	3	0	3	3	3	2	2
C210	3	2	0	0	0	0	0	0	0	0	2	2
C211	2.8	1.67	1	1	2	0	0	0	0	0	1.8	1.8
C212	2.2	2.2	2.4	0	2	2	0	0	0	0	1.6	1.8
C213	2.6	2.6	2.6	0	0	0	0	0	0	0	0	1.8
C214	1.61	1.5	1.19	1.5	1.39	0	0	0	1.37	0	0	1.49
C215	0	0	0	0	0	2.8	2.8	2.8	0	0	2.6	2.6
C216	2.8	2	1	1	1.8	0	0	0	0	0	1.8	1.8

C217	2.8	2	1	1	1.8	0	0	0	0	0	1.8	1.8
C301	2.6	0	0	0	0	0	0	0	0	0	0	2
C302	2.04	1.73	1.59	1.73	1.73	1.45	1.53	1.53	1.53	1.53	0.72	1.45
C303	2.8	0	0	0	0	0	0	0	0	0	1.62	1.62
C304	2.8	1.8	1.62	2	2	0	0	0	0	0	0	1.87
C305	0	0	0	0	0	3	3	3	2	2	2	2
C306	3	0	0	0	0	3	3	0	0	0	2	2
C307	2.87	2.45	2	2	2	0	0	0	0	0	1	2
C308	2.8	2.4	2	2	2	0	0	0	0	0	1	2
C309	2.87	2.45	2	2	2	0	0	0	0	0	1	2
C310	3	0	0	0	0	2	2	0	0	0	1	2
C311	3	2	2	2	2	0	0	0	0	0	2	2
C312	2.6	2.45	2.45	0	0	0	0	0	0	0	0	0
C313	0	0	0	0	0	3	3	3	2	2	2	2
C314	2.6	2.6	2.6	2.45	0	0	0	0	0	0	1	2
C315	3	0	0	0	2	2	0	0	0	0	1	2
C316	3	2.67	2.67	2.67	2.67	0	0	0	0	0	1	2
C317	2	0	0	0	2	2	0	2	2	2	2	2
C318	0	0	0	0	0	2	0	0	1	2	2	2
C401	2.8	2.65	2.65	2	1.91	0	0	0	0	0	1	2
C402	2.8	2.65	2.65	2	1.91	0	0	0	0	0	1	2
C403	2.8	2.6	2.6	2	2	0	0	0	0	0	1	2
C404	0	0	0	0	0	2	2	2	0	2	1	2
C405	2	1	1	0	1	0	0	0	0	0	1	2
C406	2.6	2.6	2	2	2	0	0	0	0	0	1	2
C407	2.8	2	2	0	0	0	0	0	0	0	0	0
C408	2.8	2	2	0	0	0	0	0	0	0	1	2
C409	2.83	1.95	1.92	0	0	1.91	2.83	2.86	2.86	1.93	2.92	1.91
C410	3	3	3	3	3	3	3	3	3	3	3	3
PO Attainment	2.62	2.32	2.15	1.76	1.90	2.12	2.24	2.45	2.11	2.15	1.89	2.10

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.74	2.28	2.06	1.75	1.92	2.13	2.27	2.44	2.01	2.06	1.73	1.99
InDirect Attainment	2.14	2.49	2.49	1.81	1.81	2.06	2.14	2.5	2.53	2.53	2.54	2.53

PSO Attainment

Course	PSO1	PSO2	PSO3
C101	0	0	0
C102	1.8	1.8	1.8
C103	1.34	1.54	1.73
C104	1	0	0
C105	0	0	2
C106	0	0	0
C107	1	0	0
C108	1	1.8	1.8
C109	0	0	0
C110	0	0	0
C111	1	1.8	1.8
C112	1	1	1
C113	2.5	1.91	1.91

C114	1	1	1
C115	1	1	1
C116	1	0	0
C201	0	0	1
C202	0	0	2
C203	1.8	1.8	1.8
C204	0	0	1.8
C205	2.6	2.21	2.05
C206	0	0	0
C207	1	0	0
C208	2	2	2
C209	0	0	2
C210	0	0	1
C211	1.8	1.8	1.8
C212	1.8	1.8	1.8
C213	0	0	2
C214	1.5	1.39	1.28
C215	0	0	2.2
C216	0	0	2
C217	0	0	2
C301	0	0	3
C302	1.16	1.16	1.16
C303	0	0	3
C304	0	0	0
C305	0	0	3
C306	0	0	0
C307	0	0	3
C308	0	0	1.6
C309	0	0	1.6
C310	0	0	2
C311	2	2	3
C312	3	3	3
C313	0	0	2
C314	3	3	3
C315	0	0	2
C316	3	3	3
C317	0	0	0
C318	0	0	0
C401	3	3	3
C402	3	3	3
C403	3	3	3
C404	0	0	0
C405	0	2	2
C406	2	2	2
C407	0	0	2
C408	3	3	3
C409	1	0	1
C410	3	3	3
PSO Attainment	2.02	2.17	2.16

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	1.88	2.08	2.07
InDirect Attainment	2.56	2.54	2.52

4 STUDENTS' PERFORMANCE (150)

Total Marks 97.71

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)	60	60	60	60	120	180	180
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	47	56	54	59	95	82	59
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	1	0	0	5	0	3
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	47	57	54	59	100	82	62

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)	47	0	0	0	0
2023-24 (CAYm1)	57	14	0	0	0
2022-23 (CAYm2)	54	4	3	0	0
2021-22 (CAYm3)	59	9	3	3	0
2020-21 (LYG)	100	82	10	9	9
2019-20 (LYGm1)	82	31	29	28	28
2018-19 (LYGm2)	62	10	9	9	9

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)	47	0	0	0	0
2023-24 (CAYm1)	57	47	0	0	0
2022-23 (CAYm2)	54	48	45	0	0
2021-22 (CAYm3)	59	54	52	50	0
2020-21 (LYG)	100	95	30	28	27
2019-20 (LYGm1)	82	82	63	62	61
2018-19 (LYGm2)	62	59	50	28	28

4.1 Enrolment Ratio (20)

Total Marks 18.00

Institute Marks : 18.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	60	47	78.33
2023-24 (CAYm1)	60	56	93.33
2022-23 (CAYm2)	60	54	90.00

Average [(ER1 + ER2 + ER3) / 3] : 87.22

Assessment : 18.00

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

Total Marks 12.05

4.2.1 Success rate without backlogs in any semester / year of study (25)

Institute Marks : 4.75

Item	Latest Year of Graduation, YG (2020-21)	Latest Year of Graduation minus 1, YGm1 (2019-20)	Latest Year of Graduation minus 2 YGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	100.00	82.00	62.00
Y Number of students who have graduated without backlogs in the stipulated period	9.00	28.00	9.00
Success Index [SI = Y / X]	0.09	0.34	0.15

Average SI [(SI1 + SI2 + SI3) / 3] : 0.19

Assessment [25 * Average SI] : 4.75

4.2.2 Success rate in stipulated period (15)

Institute Marks : 7.30

Item	Latest Year of Graduation, YG (2020-21)	Latest Year of Graduation minus 1, YGm1 (2019-20)	Latest Year of Graduation minus 2 YGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	100.00	82.00	62.00
Y Number of students who have graduated in the stipulated period	27.00	61.00	28.00
Success Index [SI = Y / X]	0.27	0.74	0.45

Average SI [(SI1 + SI2 + SI3) / 3] : 0.49

Assessment [15 * Average SI] : 7.30

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 8.94

Institute Marks : 8.94

Academic Performance	CAYm3 (2021-22)	LYG (2020-21)	LYGm1 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	6.07	5.72	6.80
Total number of successful students(Y)	50.00	28.00	62.00
Total number of students appeared in the examination(Z)	52.00	30.00	63.00
API [X*(Y/Z)]:	5.84	5.34	6.69

Average API [(AP1 + AP2 + AP3)/3] : 5.96

Assessment [1.5 * AverageAPI] : 8.94

4.4 Academic Performance in Second Year (15)

Total Marks 5.92

Institute Marks : 5.92

Academic Performance	CAYm2 (2022-23)	CAYm3 (2021-22)	LYG (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	6.45	4.30	5.53
Total number of successful students (Y)	45.00	52.00	30.00
Total number of students appeared in the examination (Z)	48.00	54.00	100.00
API [X * (Y/Z)]	6.05	4.14	1.66

Average API [(AP1 + AP2 + AP3)/3] : 3.95

Assessment [1.5 * AverageAPI] : 5.92

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 32.80

Institute Marks : 32.80

Item	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
Total No of Final Year Students(N)	28.00	62.00	28.00
No of students placed in the companies or government sector(X)	19.00	47.00	27.00
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	1.00	0.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	1.00	0.00
x + y + z =	20.00	49.00	27.00
Placement Index [(X+Y+Z)/N] :	0.71	0.79	0.96

Average Placement [(P1 + P2 + P3)/3] : 0.82

Assessment [40 * Average Placement] : 32.80

Program Name :

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ALLGRACE BAIRD A	210520106002	ALLGRACE BAIRD A	DMICE/2023-24/ECE001
2	GOPALA KRISHNAN S	210520106019	GOPALA KRISHNAN S	DMICE/2023-24/ECE002
3	JEYA MADHAVA RAJA M	210520106025	JEYA MADHAVA RAJA M	DMICE/2023-24/ECE003
4	KARTHIK J	210520106028	KARTHIK J	DMICE/2023-24/ECE004
5	KEERTHANA J	210520106029	KEERTHANA J	DMICE/2023-24/ECE005
6	KESAVAN R	210520106030	KESAVAN R	DMICE/2023-24/ECE006
7	LIDIYA S	210520106032	LIDIYA S	DMICE/2023-24/ECE007
8	MAHALAKSHMI R	210520106036	MAHALAKSHMI R	DMICE/2023-24/ECE008
9	MUKESH E	210520106040	MUKESH E	DMICE/2023-24/ECE009
10	MUTHULAKSHMI S	210520106041	MUTHULAKSHMI S	DMICE/2023-24/ECE010
11	NIVETHA K	210520106048	NIVETHA K	DMICE/2023-24/ECE011
12	PREETHI P	210520106051	PREETHI P	DMICE/2023-24/ECE012
13	RANJAN ROHIT ANDREWS J	210520106054	RANJAN ROHIT ANDREWS J	DMICE/2023-24/ECE013
14	SHARMILA V	210520106071	SHARMILA V	DMICE/2023-24/ECE014
15	SHEEBA B	210520106073	SHEEBA B	DMICE/2023-24/ECE015
16	SHRADHAA	210520106074	SHRADHAA	DMICE/2023-24/ECE016
17	SIVARANJANI S	210520106078	SIVARANJANI S	DMICE/2023-24/ECE017
18	SRIDHAR M	210520106079	SRIDHAR M	DMICE/2023-24/ECE018
19	VISHNU S	210520106091	VISHNU S	DMICE/2023-24/ECE019

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ALBERT RAVIDOSS	210519106003	ALBERT RAVIDOSS	DMICE/2022-23/ECE001
2	ARUN K	210519106005	ARUN K	DMICE/2022-23/ECE002
3	BALAMURUGAN R	210519106006	BALAMURUGAN R	DMICE/2022-23/ECE003
4	BALAMURUGAN K	210519106007	BALAMURUGAN K	DMICE/2022-23/ECE004
5	BHARATH M	210519106008	BHARATH M	DMICE/2022-23/ECE005
6	BLESSY.E	210519106009	BLESSY.E	DMICE/2022-23/ECE006
7	CHANTHIKA T	210519106010	CHANTHIKA T	DMICE/2022-23/ECE007
8	CHARUMATHI S	210519106011	CHARUMATHI S	DMICE/2022-23/ECE008
9	CHINNA DURAI M	210519106012	CHINNA DURAI M	DMICE/2022-23/ECE009
10	DAISY EPSIBA I	210519106013	DAISY EPSIBA I	DMICE/2022-23/ECE010
11	DAVID J	210519106014	DAVID J	DMICE/2022-23/ECE011
12	DEEPAK R	210519106015	DEEPAK R	DMICE/2022-23/ECE012
13	DHANASEKAR V	210519106016	DHANASEKAR V	DMICE/2022-23/ECE013
14	DHINESH BABU A	210519106017	DHINESH BABU A	DMICE/2022-23/ECE014
15	DURGA DEVI S	210519106019	DURGA DEVI S	DMICE/2022-23/ECE015
16	GAYATHRI M	210519106022	GAYATHRI M	DMICE/2022-23/ECE016
17	GREESMA S	210519106024	GREESMA S	DMICE/2022-23/ECE017
18	HARINI K	210519106025	HARINI K	DMICE/2022-23/ECE018
19	HEMALATHA K	210519106026	HEMALATHA K	DMICE/2022-23/ECE019
20	ILACKIA J	210519106027	ILACKIA J	DMICE/2022-23/ECE020
21	JEFRIN J	210519106031	JEFRIN J	DMICE/2022-23/ECE021
22	JENIS F	210519106033	JENIS F	DMICE/2022-23/ECE022
23	KARTHIGA G	210519106035	KARTHIGA G	DMICE/2022-23/ECE023
24	KARTHIGA B	210519106036	KARTHIGA B	DMICE/2022-23/ECE024
25	KAYALVIZHI.K	210519106037	KAYALVIZHI.K	DMICE/2022-23/ECE025
26	KEERTHANA J	210519106038	KEERTHANA J	DMICE/2022-23/ECE026
27	KIRUTHIGA SAKER	210519106039	KIRUTHIGA SAKER	DMICE/2022-23/ECE027
28	LINGESWARAN	210519106042	LINGESWARAN	DMICE/2022-23/ECE028
29	MANIMAGALAI K	210519106045	MANIMAGALAI K	DMICE/2022-23/ECE029
30	MONICA M	210519106046	MONICA M	DMICE/2022-23/ECE030
31	NANCY BEULA A	210519106048	NANCY BEULA A	DMICE/2022-23/ECE031
32	PAVITHRA M G	210519106049	PAVITHRA M G	DMICE/2022-23/ECE032
33	PREDEESHA.E	210519106051	PREDEESHA.E	DMICE/2022-23/ECE033
34	PREETHA S	210519106052	PREETHA S	DMICE/2022-23/ECE034
35	RAKSHANA R	210519106054	RAKSHANA R	DMICE/2022-23/ECE035
36	REVATHI	210519106055	REVATHI	DMICE/2022-23/ECE036
37	RUTHRA MOORTHY D	210519106056	RUTHRA MOORTHY D	DMICE/2022-23/ECE037
38	SANJAY M	210519106057	SANJAY M	DMICE/2022-23/ECE038
39	SANTHIYA	210519106058	SANTHIYA	DMICE/2022-23/ECE039
40	SASIKUMAR M	210519106059	SASIKUMAR M	DMICE/2022-23/ECE040
41	SEVVANTHI T	210519106060	SEVVANTHI T	DMICE/2022-23/ECE041
42	SOMESHWARAN S	210519106062	SOMESHWARAN S	DMICE/2022-23/ECE042
43	SUJITHA.K	210519106065	SUJITHA.K	DMICE/2022-23/ECE043
44	TEENA SHERIN R	210519106068	TEENA SHERIN R	DMICE/2022-23/ECE044
45	THANGAM T	210519106071	THANGAM T	DMICE/2022-23/ECE045
46	YOGESWARI A	210519106081	YOGESWARI A	DMICE/2022-23/ECE046
47	ZIBIYA NATASHA G J	210519106082	ZIBIYA NATASHA G J	DMICE/2022-23/ECE047

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AGNES GRACY F	210518106002	AGNES GRACY F	DMICE/2021-22/ECE001
2	ARUNDHATHI A	210518106003	ARUNDHATHI A	DMICE/2021-22/ECE002
3	BAVYA	210518106005	BAVYA	DMICE/2021-22/ECE003
4	BESLIN S	210518106006	BESLIN S	DMICE/2021-22/ECE004
5	BHAVANI SREE	210518106007	BHAVANI SREE	DMICE/2021-22/ECE005
6	DEEPAK KUMAR G	210518106009	DEEPAK KUMAR G	DMICE/2021-22/ECE006
7	DHANA PRIYA K	210518106012	DHANA PRIYA K	DMICE/2021-22/ECE007
8	INDURANI M	210518106020	INDURANI M	DMICE/2021-22/ECE008
9	JOSEMAN FRED G	210518106027	JOSEMAN FRED G	DMICE/2021-22/ECE009
10	KALAI BHARATH K	210518106029	KALAI BHARATH K	DMICE/2021-22/ECE010
11	KANI VANNAN S	210518106031	KANI VANNAN S	DMICE/2021-22/ECE011
12	LEETHIYAL M	210518106033	LEETHIYAL M	DMICE/2021-22/ECE012
13	PRIYADHARSHINI K	210518106043	PRIYADHARSHINI K	DMICE/2021-22/ECE013
14	RAGUL SIRIL RAJA A	210518106044	RAGUL SIRIL RAJA A	DMICE/2021-22/ECE014
15	RISHI V RAM	210518106047	RISHI V RAM	DMICE/2021-22/ECE015
16	SOWBARNIKHA S	210518106052	SOWBARNIKHA S	DMICE/2021-22/ECE016
17	SREENITHI T S	210518106053	SREENITHI T S	DMICE/2021-22/ECE017
18	TAMILSELVAN P	210518106054	TAMILSELVAN P	DMICE/2021-22/ECE018
19	THENMOZHI R	210518106056	THENMOZHI R	DMICE/2021-22/ECE019
20	VARUN BHARATH K	210518106058	VARUN BHARATH K	DMICE/2021-22/ECE020
21	VIGNESH S	210518106059	VIGNESH S	DMICE/2021-22/ECE021
22	VIGNESWAR K	210518106060	VIGNESWAR K	DMICE/2021-22/ECE022
23	GEORGE JOYSON.J	210518106301	GEORGE JOYSON.J	DMICE/2021-22/ECE023
24	GOPALA KRISHNAN S	210518106302	GOPALA KRISHNAN S	DMICE/2021-22/ECE024
25	LOKESH S	210518106303	LOKESH S	DMICE/2021-22/ECE025
26	SHAJI C	210518106501	SHAJI C	DMICE/2021-22/ECE026
27	MUKKES KUMAR	210518106701	MUKKES KUMAR	DMICE/2021-22/ECE027

4.6 Professional Activities (20)

Total Marks 20.00

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

A. Availability & activities of professional societies/chapters**Availability of Professional Societies**

S.No	Name of Professional Society/Chapters
1	Indian Society for Technical Education-ISTE
2	ICT Academy
3	International Association of Engineers-IAENG

Sample Events Conducted:**Academic Year 2024-25**

Sl No	Name of the Membership / Chapters	Activities	Date	Resource Person
1	ISTE	Seminar on "Adhoc and Wireless Sensor Networks"	21.10.2024	Dr. Anitha Juliette, Associate Professor, Department of Electronics and Communication Engineering, Loyola-ICAM College of Engineering and Technology, Chennai-34
2	ISTE	Seminar on "Applications of Digital Electronics in IoT"	22.11.2024	Dr. Umamaheswari, Associate Professor, Department of ECE, St. Anns Engineering College, Cuddalore Dt
3	IAENG	Seminar on "Writing and Inspiring Undergraduate Research"	18.01.2025	Dr. Kavitha N, Assistant Professor, Department of Electronics and Communication Engineering, Rashtreeya Vidyalaya Institute of Technology and Management (RVITM), Bengaluru
4	IAENG	Seminar on "IoT Architecture & Protocols"	13.02.2025	Dr. M. Prabha, Assistant Professor, Department of Electronics and Communication Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Chennai

Academic Year 2023-24

Sl No	Name of the Membership / Chapters	Activities	Date	Resource Person
1	ISTE	Seminar on "Energy-efficient Routing in Adhoc Networks"	20.09.2023	Dr. P. Madhumathy, Professor, Rashtreeya Vidyalaya Institute of Technology and Management (RVITM), Bengaluru
2	ISTE	Seminar on "Role of digital electronics in IoT-based home automation systems"	16.08.2023	Dr. N. Usha Banu, Professor, Dept of ECE, SRM Valliammai Engineering College, Kattankulathur
3	ICT Academy	Seminar on "The role of research in preparing students for graduate studies and careers"	27.10.2023	Dr. T. R. Ganesh Babu, Professor, Muthayammal Engineering College, Rasipuram
4	ICT Academy	Seminar on "IoT Device Management and Communication"	21.03.2024	Dr. S. Praveena, Associate Professor, Muthayammal Engineering College

Academic Year 2022 - 23

Sl No	Name of the Membership / Chapters	Activities	Date	Resource Person
1	ISTE	Seminar on "IoT-based Wireless Sensor Networks"	19.10.2022	Dr. N. Subashini Professor, Dept. of ECE, SRM Vallaimmai Engineering College, Kattankulathur
2	ISTE	Seminar on "AI and Machine Learning in Adhoc Networks"	05.09.2022	Dr. M. Prabha, Asst Prof, Dept of ECE, St. Joseph College of Engineering

3	ICT Academy	Seminar on "Writing and Inspiring Undergraduate Research"	22.03.2023	Dr. T. R. Ganesh Babu, Professor, Dept of ECE Muthayammal Engineering College, Rasipuram
4	ICT Academy	Seminar on "Using digital tools and databases for efficient literature review"	10.03.2023	Dr. S. Praveena, Associate Professor, Muthayammal Engineering College.

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

Institute Marks : 5.00

(The Department shall list the publications mentioned earlier along with the names of the editors, publishers, etc.).

The memories of the past keep up our confidence and the hope of the future is what we live for, but the present is the one that keeps our essence alive. This is what the Newsletter - DMI ECE SPRING and Magazine believe in-living in the present with a penchant for calibre in every realm of activity with confidence and vision of the future. This newsletter and magazine is reflecting our department quality in terms of all round excellence.

Quality of Print material:

When it comes to printed materials, creating the right content is just half the battle and need to also have quality digital and offset printing. If do not utilize high-quality printing, there may a chances of losing a lot of viewers for sure. So the quality of following two print materials are maintained.

- Newsletter (ECE SPRING) – Halferly
- Magazines – Yearly

Table 4.1 : News Letter

S.NO	NEWS LETTER	EDITORS	
		STAFF EDITOR	STUDENT EDITOR
1.	ECE SPRING- June-September – December'24	Mrs. Devi Sowndarya. K. K Dr. Selvin Retna Raj	Abhijay S H Yogesh A Pramila Priscilla P
2.	ECE SPRING- June-September 24	Mrs. Devi Sowndarya. K. K Mr. Selvin Retna Raj	Abhijay S H Yogesh A Pramila Priscilla P
3.	ECE SPRING- January-April'24	Mrs. Devi Sowndarya. K. K Mr. Selvin Retna Raj	Jeyamadhava Raja Shradha A Ranjan Rohit Andrews
4.	ECE SPRING- September-December'23	Mrs. Devi Sowndarya. K. K Mr. Selvin Retna Raj	Jeyamadhava Raja Shradha A Ranjan Rohit Andrews
5.	ECE SPRING- June-September'23	Mrs. Devi Sowndarya. K. K Mr. Selvin Retna Raj	Jeyamadhava Raja Shradha A Ranjan Rohit Andrews
6.	ECE SPRING- January-April'23	Mrs. Devi Sowndarya. K. K Mr. Selvin Retna Raj	Someshwaran S Harini K Jefrin J
7.	ECE SPRING- September-January '23	Mrs. Devi Sowndarya. K. K Mr. Selvin Retna Raj	Someshwaran S Harini K Jefrin J
8.	ECE SPRING- June-September'22	Mrs. Devi Sowndarya. K. K Mr. Selvin Retna Raj	Bavya Kalai Bharath Vignesh

Table 4.2 : Magazines

S.NO	MAGAZINES	EDITORS	
		STAFF EDITOR	STUDENT EDITOR
1.	ELECTRA 2023 - 24	Mrs. Shally S P Dr. Morarji. C. K	Abhijay S H Yogesh A Pramila Priscilla P
2.	ELECTRA 2022 - 23	Mrs. Shally S P Mr. Selvin Retna Raj	Jeyamadhava Raja Shradha A Ranjan Rohit Andrews
3.	ELECTRA 2021 - 22	Mrs. Shally S P Mr. Selvin Retna Raj	Someshwaran S Jefrin J Sowbarnikha S

(The Department shall provide a table indicating those publications, which received awards in the events/conferences organized by other institutes.)

A. Events within a state and Prizes/awards received in such events.

CAYm1 (2024– 2025)

S.NO	NAME	YEAR	EVENT NAME	COLLEGE	REMARKS
1	ABIJAY	2024	INNOVATION, DESIGN AND ENTREPRENEURSHIP(IDE) BOOTCAMP	NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL, MANGALURU	PRESENTED
2	LOKESHWARAN	2024	INNOVATION, DESIGN AND ENTREPRENEURSHIP(IDE) BOOTCAMP	NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL, MANGALURU	PRESENTED
3	EZEKIEL MARTIN	2024	INNOVATION, DESIGN AND ENTREPRENEURSHIP(IDE) BOOTCAMP	NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL, MANGALURU	PRESENTED
4	NANDHAKUMAR	2024	INNOVATION, DESIGN AND ENTREPRENEURSHIP(IDE) BOOTCAMP	NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL, MANGALURU	PRESENTED

CAYm1 (2023 – 2024)

S.NO	NAME	YEAR	EVENT NAME	COLLEGE	REMARKS
1	S H ABIJAY	2023	TECH STAR SUMMIT	SIMATS ENGINEERING	PRESENTED
2	ABIRAMI	2023	TECH STAR SUMMIT	SIMATS ENGINEERING	PRESENTED
3	LOKESHWARAN	2023	TECH STAR SUMMIT	SIMATS ENGINEERING	PRESENTED
4	KESAVAN R	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
5	MAGESH R	2023	EMBEDDED	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
6	KRISHNAN B	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
7	BALAMURUGAN S	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
8	PREMALATHA P	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
9	AARTHI K	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
10	NAVEEN RAJ J	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
11	SIVA RANJANI S	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED

q12	PREETHI P	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
13	SANJAY S	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
14	RAVIDAR R	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
15	VIMAL RAJ R	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
16	SWETHA S	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
17	THIRUSELVAN K	2023	EMBEDDED SYSTEMS	MSME-TOOL ROOM CENTRAL INSTITUTE OF TOOL DESIGN	PRESENTED
18	SHARAN.K	2023	FORBID TO FORGET	CHENNAI INSTITUTE OF TECHNOLOGY	PRESENTED
19	LOKESHWARAN P	2023	ARTSY AUCTION	CHENNAI INSTITUTE OF TECHNOLOGY	PRESENTED
20	JEYA MADHAVA RAJA M	2023	EMAIL SECURITY	INFORMATION SECURITY EDUCATION AWARENESS,PROJECT PHASE II	PRESENTED
21	SHARMILA V	2023	WHATSAPP SECURITY	INFORMATION SECURITY EDUCATION AWARENESS, PROJECT PHASE II	PRESENTED
22	MARY STELLA A	2023	PASSWORD SECURITY	INFORMATION SECURITY EDUCATION AWARENESS, PROJECT PHASE II	PRESENTED
23	NIVETHA K	2023	FACEBOOK SECURITY	INFORMATION SECURITY EDUCATION AWARENESS, PROJECT PHASE II	PRESENTED
24	BALAMURUGAN S	2023	BROWSER SECURITY	INFORMATION SECURITY EDUCATION AWARENESS, PROJECT PHASE II	PRESENTED
25	DHARSHINI S S	2023	CYBER HYGIENE PRACTICES	INFORMATION SECURITY EDUCATION AWARENESS, PROJECT PHASE II	PRESENTED
26	SANJAY M	2023	CYBER PATRIOT QUIZ	INFORMATION SECURITY EDUCATION AWARENESS	PRESENTED
27	JAPA STEPHY L	2023	VLSI SoC Design using Verilog HDL	MAVEN SILICON CENTER OF EXCELLENCE IN VLSI	PRESENTED
28	RAVINDAR R	2023	PAPER PRESENTATION	SIMATS SCHOOL OF ENGINEERING	PRESENTED
29	NINETHA. k	2023	PAPER PRESENTATION	P.B COLLEGE OF ENGINEERING	FRIST
30	JAYASRI D	2023	HTML TUTORIAL	SKILL ACADEMY	PRESENTED
31	KEERTHANA J	2023	TECHNOKINGS-2023	Kings Engineering college	FIRST
32	KESAVAN R	2023	TECHNOKINGS-2023	Kings Engineering college	FIRST
33	KRISHNAN B	2023	TECHNOKINGS-2023	Kings Engineering college	SECOND
34	SARAVANAN P	2023	ASKLEPIUS'23	ALPHA COLLEGE OF ENGINEERING	FIRST

35	SATHIYA PRIYAN T	2023	ASKLEPIUS'23	ALPHA COLLEGE OF ENGINEERING	SECOND
36	SHANTHASUNDARI S	2023	ASKLEPIUS'23	ALPHA COLLEGE OF ENGINEERING	FIRST
37	V. SHARMILA	2023	Seminar on "ICT: Tech Update on Cyber Security"	IEEE COMPUTER SOCIETY MADRAS CHAPTER	PRESENTED

CAYm2-2022-2023

S.NO	Name	YEAR	EVENT NAME	COLLEGE	REMARKS
1	DHANASEKAR V	2022	GOOGLE PROJECT MANAGEMENT	COURSERA	PRESENTED
2	MAHALAKSHMI R	2022	GOOGLE UX DESIGN	COURSERA	PRESENTED
3	DHINESH A	2022	GOOGLE DIGITAL MARKETING & E-COMMERCE	COURSERA	PRESENTED
4	YOGESHWARI A	2022	GOOGLE DATA ANALYTICS	COURSERA	PRESENTED
5	K SUJITHA	2022	GOOGLE UX DESIGN	COURSERA	PRESENTED
6	SANJAY M	2022	GOOGLE DATA ANALYTICS CAPSTONE: COMPLETE A CASE STUDY	COURSERA	PRESENTED
7	SURIYA DEEPAN A	2022	ANALYZE DATA TO ANSWER QUESTIONS	COURSERA	PRESENTED
8	HARI HARAN E	2022	GOOGLE DATA ANALYTICS	COURSERA	PRESENTED
9	JAYA SURIYA M S	2022	PROCESS DATA FROM DIRTY TO CLEAN	COURSERA	PRESENTED
10	PRAMILA PRISCILLA P	2022	ASK QUESTIONS TO MAKE DATA-DRIVEN DECISIONS	COURSERA	PRESENTED
11	SRIDHAR M	2022	Foundations: Data, Data, Everywhere	COURSERA	PRESENTED
12	MAHALAKSHMI R	2022	SHARE DATA THROUGH THE ART OF VISUALIZATION	COURSERA	PRESENTED
13	LOKESHWARAN P	2022	TECHFEST 2K22	ST.JOSEPH COLLEGE OF ENGINEERING	FIRST
14	MAGESH R	2022	TECHFEST 2K22	ST.JOSEPH COLLEGE OF ENGINEERING	FIRST
15	VISHNU S	2022	TECHFEST 2K22	ST.JOSEPH COLLEGE OF ENGINEERING	SECOND
16	VISHNU NARAYANAN V	2022	TECHFEST 2K22	ST.JOSEPH COLLEGE OF ENGINEERING	SECOND
18	EKAMBER L	2022	NCESTH-2022	KINGS ENGINEERING COLLEGE	FIRST
19	GAYATHRI M	2022	NCESTH-2022	KINGS ENGINEERING COLLEGE	FIRST

20	GREESHMA S	2022	NCESTH-2022	KINGS ENGINEERING COLLEGE	SECOND
21	HARINI K	2022	NCESTH-2022	KINGS ENGINEERING COLLEGE	SECOND
22	HEMALATHA K	2022	NCESTH-2022	KINGS ENGINEERING COLLEGE	FIRST
23	TAMIZHMARAN P	2022	ASKLEPIUS'22	ALPHA COLLEGE OF ENGINEERING	SECOND
24	TEENA SHERIN R	2022	ASKLEPIUS'22	ALPHA COLLEGE OF ENGINEERING	SECOND
25	THAMIZHSELVAN M	2022	ASKLEPIUS'22	ALPHA COLLEGE OF ENGINEERING	FIRST
26	THANGAM T	2022	ASKLEPIUS'22	ALPHA COLLEGE OF ENGINEERING	FIRST

CAYm3-2021-2022

S.NO	Name	YEAR	EVENT NAME	COLLEGE	REMARKS
1	AGNES GRACY F	2021	TECHNOVACIÓN 21	SRI SAIRAM ENGINEERING COLLEGE	PRESENTED
2	CHINNA DURAI M	2021	TECHNOVACIÓN 21	SRI SAIRAM ENGINEERING COLLEGE	FIRST
3	BESLIN S	2021	TECHNOVACIÓN 21	SRI SAIRAM ENGINEERING COLLEGE	PRESENTED
4	BHAVANISRI G	2021	TECHNOVACIÓN 21	SRI SAIRAM ENGINEERING COLLEGE	SECOND
5	PRIYADHARSHINI K	2021	21'HERTZ	CARE GROUP OF INSTITUTION	PRESENTED
6	ARUNDHATHI A	2021	21'HERTZ	CARE GROUP OF INSTITUTION	FIRST
7	VARUN BHARATH K	2021	21'HERTZ	CARE GROUP OF INSTITUTION	PRESENTED
8	PRIYADHARSHINI K	2021	21'HERTZ	CARE GROUP OF INSTITUTION	PRESENTED
9	VIGNESHWAR K	2021	INFIERNIX 2K21	RAJALAKSHMI INSTITUTE OF TECHNOLOGY	FIRST
10	GEORGE JOYSON J	2021	INFIERNIX 2K21	RAJALAKSHMI INSTITUTE OF TECHNOLOGY	PRESENTED
11	CHINNA DURAI M	2021	INFIERNIX 2K21	RAJALAKSHMI INSTITUTE OF TECHNOLOGY	SECOND
12	DAISY EPSIBA I	2021	INFIERNIX 2K21	RAJALAKSHMI INSTITUTE OF TECHNOLOGY	PRESENTED

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof./Assoc. Prof.).	Initial Date of Joining	Association Type
Dr. Sujatha Jamuna Anand	BRMPS7475K	ME/M. Tech and PhD	28/10/2011	Communication Systems	0	0	0	Professor	02/09/2024	02/09/2024	Regular
Dr. L. M. Merlin Livingston	AHHPM9415B	ME/M. Tech and PhD	26/05/2016	Applied Electronics	2	0	0	Professor	03/01/2024	03/01/2024	Regular
Dr. K.G. Revathi	ALLPR9669P	ME/M. Tech and PhD	23/05/2012	Applied Electronics	14	0	0	Professor	01/07/2013	01/05/2002	Regular
Dr. N. Nirmal Singh	ACXPN8406C	ME/M. Tech and PhD	02/12/2010	Computational Intelligence	1	0	0	Professor	06/07/2022	06/07/2022	Regular
Dr. T. D.Sairam	PMUPS5792J	ME/M. Tech and PhD	20/09/2019	Image Processing	1	0	0	Professor	26/11/2019	08/07/2019	Regular
Dr. Venmathi A R	AINPV4098A	ME/M. Tech and PhD	19/12/2019	Communication Systems	0	0	0	Professor	15/07/2024	15/07/2024	Regular
Dr. Selvin Retna Raj. T	DIZPS3723L	ME/M. Tech and PhD	23/08/2024	VLSI Design	4	0	1	Assistant Professor		19/02/2021	Regular
Dr. Morarji. C. K	BOSPM5188J	ME/M. Tech and PhD	24/11/2023	Applied Electronics	1	0	1	Assistant Professor		13/02/2023	Regular
Mrs. Shally S P	DWIPS5997B	M.E/M.Tech	18/06/2009	Communication Systems	12	0	0	Assistant Professor		24/06/2009	Regular
Mrs. Devi Sowndarya. K. K	CKHPD2663R	M.E/M.Tech	23/06/2016	Communication Systems	4	0	0	Assistant Professor		09/06/2022	Regular
Mr. Syed Feroze Hussain.S	DMGPS3202H	M.E/M.Tech	27/05/2011	Communication Systems	1	0	0	Assistant Professor		26/06/2023	Regular
Mrs. Jasmine Ananthi M	DTOPM9433F	M.E/M.Tech	10/07/2014	Power Electronics and Drives	3	0	0	Assistant Professor		21/09/2022	Regular
Mrs. Saranya. M	HHDPS6833J	M.E/M.Tech	28/04/2020	Embedded System Technologies	0	0	0	Assistant Professor		20/05/2024	Regular
Mrs. Monisha. V	BZSPV6413J	M.E/M.Tech	29/04/2020	Wireless Technology	0	0	0	Assistant Professor		03/10/2024	Regular
Mrs. Anin Manjusha. M	BCWPA0340N	M.E/M.Tech	11/06/2014	Communication Systems	1	0	0	Assistant Professor		12/08/2015	Regular
Mrs.Minu Antony	FCSPM8721H	M.E/M.Tech	17/06/2015	Applied Electronics	0	0	0	Assistant Professor		01/06/2018	Regular
Mrs. Lurdhumary . J	AJZPL4624P	M.E/M.Tech	24/04/2018	Nano Science and Technology	0	0	0	Assistant Professor		02/03/2020	Regular
Mrs. Reena Rosilin Raj. I	BWVPR8996Q	M.E/M.Tech	17/05/2017	Embedded Systems	1	0	0	Assistant Professor		06/05/2019	Regular
Mrs. Nancy Priyanka. V	BMOPN0225P	M.E/M.Tech	20/06/2017	Communication Systems	0	0	0	Assistant Professor		06/08/2020	Regular
Ms. Monisha Veronica Arockia Mary I	DTQPA9300D	M.E/M.Tech	27/04/2022	Communication Systems	0	0	0	Assistant Professor		27/06/2022	Regular
Mrs. K. Lavanya	CPCPK3552G	M.E/M.Tech	28/06/2016	Applied Electronics	0	0	0	Assistant Professor		07/07/2023	Regular

Dr. I. Arockia Mary	CSYPA9072N	ME/M. Tech and PhD	10/11/2020	Image Processing	0	0	0	Associate Professor	08/01/2021	19/07/2006	Regular
Dr. Latha M	ADLPL5329F	ME/M. Tech and PhD	29/10/2019	Image Processing	1	0	0	Associate Professor	07/08/2020	07/08/2020	Regular
Dr. J. Arun Kumar	BDZPA2437A	ME/M. Tech and PhD	15/09/2020	Wireless Communication	2	0	0	Assistant Professor		23/09/2021	Regular
Dr. M. Mary Adline Priya	BDRPM7491J	ME/M. Tech and PhD	23/04/2021	Image Processing	2	0	0	Assistant Professor		22/09/2021	Regular
Mr. Vinoth G	AJAPV3839M	M.E/M.Tech	16/06/2011	Embedded System Technologies	0	0	0	Assistant Professor		10/06/2011	Regular
Mr. Kumar. S	CVYPK8382E	M.E/M.Tech	18/06/2015	Communication and Networking	0	0	0	Assistant Professor		17/07/2015	Regular
Mrs. Durga Devi. C	CYZPD7918R	M.E/M.Tech	30/05/2018	Communication and Networking	0	0	0	Assistant Professor		28/06/2018	Regular
Mrs. Akila.M.R	BEFPA2989G	M.E/M.Tech	14/06/2011	Power Electronics and Drives	0	0	0	Assistant Professor		08/06/2021	Regular
Dr. Valantina Stephen	CDZPS6595Q	ME/M. Tech and PhD	22/04/2014	Power Electronics and Drives	1	0	0	Associate Professor	15/06/2023	15/06/2023	Regular

5.1 Student-Faculty Ratio (20)

Total Marks 16.00

Institute Marks : 16.00

UG

No. of UG Programs in the Department 1

Electronics and Communication Engineering						
Year of Study	CAY		CAYm1		CAYm2	
	(2024-25)		(2023-24)		(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	60	1	60	0	60	0
3rd Year	60	0	60	0	120	5
4th Year	60	0	120	5	180	0
Sub-Total	180	1	240	5	360	5
Total	181		245		365	
Grand Total	181		245		365	

PG

No. of PG Programs in the Department 1

M.E Communication Systems						
Year of Study	CAY(2024-25)		CAYm1(2023-24)		CAYm2 (2022-23)	
	Sanction Intake		Sanction Intake		Sanction Intake	
1st Year	12		12		12	
2nd Year	12		12		12	
Total	24		24		24	
Grand Total	24		24		24	

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 1

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
Total No. of Students in the Department(S)	205 Sum total of all (UG+PG) students	269 Sum total of all (UG+PG) students	389 Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	12 F1	16 F2	20 F3
Student Faculty Ratio(SFR)	17.08 SFR1=S1/F1	16.81 SFR2=S2/F2	19.45 SFR3=S3/F3
Average SFR	17.78 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)	12	0
CAYm1(2023-24)	16	0
CAYm2(2022-23)	20	0

Average SFR for three assessment years : 17.78

Assessment SFR : 16

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)	1.00	5.00	2.00	0.00	6.00	7.00
CAYm1(2023-24)	1.00	3.00	2.00	1.00	8.00	12.00
CAYm2(2022-23)	2.00	3.00	4.00	2.00	12.00	15.00
Average Numbers	1.33	3.67	2.67	1.00	8.67	11.33

Cadre Ratio Marks $[(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 25.00$ **5.3 Faculty Qualification (25)**

Total Marks 18.49

Institute Marks : 18.49

	X	Y	F	$FQ = 2.5 \times [(10X + 4Y) / F]$
2024-25(CAY)	7	5	10.00	22.50
2023-24(CAYm1)	4	12	13.00	16.92
2022-23(CAYm2)	7	13	19.00	16.05

Average Assessment : 18.49

5.4 Faculty Retention (25)

Total Marks 0.00

Institute Marks : 0.00

Description	2023-24	2024-25
No of Faculty Retained	11	6
Total No of Faculty	19	19
% of Faculty Retained	58	32

Average : 45.00

Assessment Marks : 0.00

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

Total Marks 20.00

The Institute supports instructors in creating a student-centered learning environment, prioritizing active engagement over traditional teacher-centered approaches. Research indicates that most students struggle to maintain focus throughout an entire lecture, with attention beginning to wane after approximately 30 minutes. Initially, lapses in concentration are brief but gradually extend, resulting in reduced comprehension and retention. Studies have shown that students retain about 70% of the information presented in the first 30 minutes of a lecture, but this retention drops to just 20% in the following 20 minutes. To enhance learning outcomes, faculty members employ innovative and effective pedagogical strategies.

A. The work must be made available on Institute Website:

The Institutes website provides access to these strategies, enabling instructors and students to understand and apply them effectively for future implementation or replication.

B. The work must be available for peer review and critique:

Innovative instructional strategies are implemented from the first year, sparking students enthusiasm and capturing their attention by offering a distinct contrast to traditional teaching methods. Faculty members have the flexibility to select the most suitable teaching approaches. The IQAC assesses these novel pedagogical techniques and provides timely feedback. Faculty members refine their methods through peer consultations, making necessary adjustments to enhance effectiveness.

C. The work must be reproducible and developed further by other scholars:

Innovative teaching methods introduced by one instructor can be replicated or further enhanced by others, fostering continuous refinement and system stability. To support this process, materials are made available on the Institutes website and ERP software, facilitating understanding and implementation of these approaches among faculty members. As all resources are published on the Institutes website, they remain accessible to everyone, ensuring ongoing improvements. Course materials are reproduced as needed.

D. The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, significance of results, effective presentation and reflective critique:

The process is executed to achieve certain goals:

1. Enhancement of technical and life skills.
2. Improvement in placements.
3. Enhancement of comprehension on the subject matter.
4. Students are directed towards innovative projects.

The commonly practiced methods by the departmental faculty are listed below:

1. Peer learning- Students (Interactive Learning)
2. Collaborative Learning (Project Based Learning)
3. Flipped Classroom (Dissemination of Study material-ERP CAMU)
4. Case studies and Problem based Learning
5. PPT
6. Gamification (MCQ/AICTE Parakh)
7. Experiential Learning (Industrial Visit, Internship, Laboratory Equipment Usage)
8. Online Learning (NPTEL/ Swayam Course)
9. Delivery of Video Lectures.

Delivery of Video Lectures 2024 - 25

SL.No	Year	Lecturer Videos Topics	Staff Handled
1	II	Classification of Systems	Dr. Nirmal Singh N
2	II	Zener Diode	Dr. A. R. Venmathi
3	II	Bode Plot	Dr. K. G. Revathi
4	II	K Map, Conversion of Standard SOP, POS	Mrs. Saranya M
5	II	Rectangular, Cylindrical and Spherical Coordinate Systems	Dr. K. G. Revathi
6	II	OSI Layers	Mrs. Saranya M
7	II	Basic Information about the Op - amp	Mrs. Shally S P
8	II	Multi Rate Signal Processing	Dr. Nirmal Singh N
9	II	Sampling And Quantisation	Mr. Syed Firoze Hussian
10	II	Applications of Op- amp (Differentiator & Integrator)	Mrs. Shally S P
11	III	CMOS Inverter	Dr. T. Selvin Retan Raj
12	III	Cross Talk	Mr. Syed Firoze Hussian
13	III	Evolution Of Radio Access Network, Need For 5G,4G Vs 5G	Mrs. Devi Sowndarya K K
14	III	Random forest	Mr. Syed Firoze Hussian
15	IV	Indian Freedom Movement	Mr. Jeba Raj
16	IV	Recruitment And Selection	Mrs. Devi Sowndarya K K
17	IV	Errors, Classification of Errors, Error Analysis	Mrs. Saranya M

18	IV	Swot Analysis of The Different Airline Companies in India	Mrs. Shally S P
19	IV	Static and Dynamic Characteristics of Sensor	Mrs. Saranya M

Delivery of Video Lectures 2023 - 24

SL.No	Year	Lecturer Videos Topics	Staff Handled
1	II	System Modeling	Dr. Nirmal Singh N
2	II	Voltage Regulation	Mrs. Anin Manjusha. M
3	II	Understanding Bode Plot: Magnitude and Phase Response Analysis	Dr. K. G. Revathi
4	II	K-Map Simplification: Converting Standard SOP to POS and Vice Versa	Mr. T. Selvin Retna raj
5	II	Understanding Rectangular, Cylindrical, and Spherical Coordinate Systems: Conversion & Applications	Dr. K. G. Revathi
6	II	OSI Model Explained: Understanding the 7 Layers of Networking	Dr. Valentina Stephen
7	II	Operational Amplifier (Op-Amp) Basics: Working, Characteristics, and Applications	Mrs. Shally S P
8	II	Multi-Rate Signal Processing: Upsampling, Downsampling, and Applications	Dr. Nirmal Singh N
9	II	Sampling and Quantization in Signal Processing: Concepts and Applications	Dr. Morarji. C. K
10	II	Op-Amp Applications: Differentiator and Integrator Circuits Explained	Mrs. Shally S P
11	III	CMOS Inverter: Working Principle, Characteristics, and Applications	Mr. T. Selvin Retan Raj
12	III	Crosstalk in Communication Systems: Causes, Effects, and Reduction Techniques	Mr. Syed Firoze Hussian
13	III	Evolution of Radio Access Networks: 4G vs 5G and the Need for 5G Technology	Mrs. Devi Sowndarya K K
14	III	Random Forest Algorithm Explained: Concepts, Working, and Applications	Mr. Syed Firoze Hussian
15	IV	The Indian Freedom Movement: Key Events, Leaders, and Struggles for Independence	Mrs. Lurdhumary . J
16	IV	Recruitment and Selection Process: Steps, Strategies, and Best Practices	Mrs. Devi Sowndarya K K
17	IV	Errors in Measurement: Classification, Analysis, and Minimization Techniques	Mrs. Nancy Priyanka. V
18	IV	SWOT Analysis of Major Airline Companies in India: Strengths, Weaknesses, Opportunities, and Threats	Mrs. Shally S P
19	IV	Static and Dynamic Characteristics of Sensors: Key Parameters and Performance Analysis	Mrs. Jasmine Ananthi M
20	IV	Indian Freedom Struggle: Major Movements, Revolutionary Leaders, and Milestones	Mrs. K. Lavanya

Delivery of Video Lectures 2022 - 23

SL.No	Year	Lecturer Videos Topics	Staff Handled
1	II	Classification of Systems: Types, Characteristics, and Applications Explained	Dr. I. Arockia Mary
2	II	Zener Diode: Working Principle, Voltage Regulation, and Applications	Dr. Latha M
3	II	Bode Plot Explained: Magnitude and Phase Response for System Analysis	Dr. M. Mary Adline Priya
4	II	K-Map Simplification: Converting Between Standard SOP and POS Forms	Mrs. Shally S P
5	II	Coordinate Systems Explained: Rectangular, Cylindrical, and Spherical with Conversions	Dr. K. G. Revathi

6	II	OSI Model Explained: A Deep Dive into the 7 Layers of Networking	Mrs. Akila.M.R
7	II	Op-Amp Basics: Working Principle, Features, and Practical Applications Explained	Ms. Monisha Veronica Arockia Mary I
8	II	Multi-Rate Signal Processing: Fundamentals, Upsampling, Downsampling, and Key Applications	Mrs. Devi Sowndarya. K. K
9	II	CMOS Inverter: Working Principle, Characteristics, and Applications Explained	Mrs. Reena Rosilin Raj. I
10	II	Sampling and Quantization: Basics, Process, and Importance in Digital Signal Processing	Mrs. Nancy Priyanka. V
11	III	Cross Talk in Communication: Causes, Effects, and Mitigation Techniques	Mr. T. Selvin Retan Raj
12	III	Understanding Errors: Types, Classification, and Techniques for Error Analysis	Mrs. Anin Manjusha. M
13	III	4G vs 5G: Key Differences, Advancements, and the Need for 5G	Mrs. Devi Sowndarya K K
14	III	Random Forest Algorithm: Working Principle and Applications in Machine Learning	Mrs. Akila.M.R
15	IV	Struggles and Sacrifices of Indias Independence Fighters	Ms. Monisha Veronica Arockia Mary I
16	IV	Effective Hiring Process: Strategies for Recruitment and Selection	Mrs. Minu Antony
17	IV	Unsung Heroes of Indian Freedom: Their Struggles and Sacrifices	Dr. J. Arun Kumar
18	IV	Understanding Cross Talk: Causes, Impacts, and Ways to Reduce It	Dr. Latha M
19	IV	Static and Dynamic Characteristics of Sensor	Mrs. Durga Devi. C

Interactive Lecture Delivery through Online:

Students are encouraged to interact during the lecture hours to clarify their doubts. Further, the participation of students in the class is enhanced through pedagogical initiatives like quizzes, slip test papers, topic delivery by students, assignments etc. The lecture delivered to the students through Online mode.

Project-based learning:

During the period of study in the 6th to 8th semester, many real time projects are given to the students and they are guided by both faculty and Industry/Research personnel.

Reflective Critique:

The adoption of innovative teaching methodologies, such as flipped classrooms, peer learning, gamification, and experiential learning, presents both benefits and challenges for students and educators. Students often face difficulties in adapting to self-directed learning, technological barriers, engagement issues, cognitive overload, and assessment complexities. To address these challenges, our institution conducts training sessions for both students and faculty, ensuring a smooth transition to new teaching approaches. Additionally, digital infrastructure is continually enhanced to support online learning and blended teaching methods. Faculty members receive encouragement and support in content development and assessment strategies, while students are gradually introduced to active learning techniques to foster greater participation. A structured feedback system further refines these pedagogies, creating a more effective and inclusive learning environment.

Sample:

Some of the innovations in teaching and learning by the faculty for odd semester 2024-25

Table 5.5.1 Innovations by the Faculty in Teaching and Learning

SL.No	Subject Name	PPT	Flipped Classroom (Dissemination of Study material- Camu)	Gamification (MCQ)/AICTE Parakh	Peer learning- Students	Case Studies and Problem Based Learning	Laboratory Equipment Usage	Videos Lectures
1	Aviation Management	Yes	Yes	Yes	Yes	Yes		Yes
2	Wireless Communication	Yes	Yes	Yes	Yes		Yes	Yes
3	VLSI and Chip Design	Yes	Yes	Yes	Yes		Yes	Yes
4	4G/5G Communication Networks	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	Human Resource Management	Yes	Yes	Yes	Yes	Yes		Yes
6	Signal Integrity	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7	Digital System Design	Yes	Yes	Yes	Yes		Yes	Yes
8	Human Values and Ethics	Yes	Yes	Yes	Yes	Yes		Yes

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

Total Marks 15.00

Institute Marks : 15.00

Name of the faculty	Max 5 Per Faculty		
	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
Dr. Sujatha Jamuna Anand	0.00	0.00	0.00
Dr. L. M. Merlin Livingston	5.00	0.00	0.00
Dr. K.G. Revathi	5.00	5.00	5.00
Dr. T. D. Sairam	5.00	5.00	3.00
Dr. N. Nirmal Singh	5.00	5.00	0.00
Dr. Venmathi. A. R	0.00	0.00	0.00
Dr. T. Selvin Retna raj	5.00	5.00	5.00
Dr. Morarji. C. K	5.00	0.00	0.00
Mrs. Shally S.P	5.00	5.00	5.00
Mr. Syed Feroze Hussain.S	5.00	0.00	0.00
Mrs. Devi Sowndarya. K. K	5.00	5.00	0.00
Mrs. Saranya. M	0.00	0.00	0.00
Mrs. Monisha V	0.00	0.00	0.00
Mrs. Jasmine Ananthi M	5.00	3.00	0.00
Dr. Valantina Stephen	5.00	0.00	0.00
Mrs. Anin Manjusha. M	5.00	5.00	3.00
Mrs. Minu Antony	3.00	3.00	3.00
Mrs. Lurdhumary . J	5.00	5.00	5.00
Mrs. Reena Rosilin Raj. I	5.00	5.00	3.00
Mrs. Nancy Priyanka. V	5.00	5.00	3.00
Ms. Monisha Veronica Arockia Mary I	5.00	5.00	0.00
Mrs. K. Lavanya	3.00	0.00	0.00
Dr. I. Arockia Mary	0.00	3.00	3.00
Dr. Latha M	0.00	5.00	5.00
Dr. J. Arun Kumar	0.00	5.00	5.00
Dr. M. Mary Adline Priya	0.00	5.00	5.00
Mr. Vinoth G	0.00	5.00	3.00
Mr. Kumar. S	0.00	5.00	3.00
Mrs. Durga Devi. C	0.00	3.00	5.00
Mrs. Akila.M.R	0.00	3.00	3.00
Mr.Tamil Selvan. J	0.00	0.00	3.00
Mrs. Ruth Jenila. M	0.00	0.00	5.00
Mrs. Annalakshmi G	0.00	0.00	5.00
Mr. Jaison. L	0.00	0.00	3.00

Ms. Anandhi.P	0.00	0.00	3.00
Ms. AmirthaVijina. V. J	0.00	0.00	3.00
Sum	86.00	95.00	89.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratios per 5.1	10.25	13.45	19.45
Assessment [$3 * (\text{Sum} / 0.5\text{RF})$]	50.34	42.38	27.46

Average assessment over 3 years: 40.06

5.7 Research and Development (30)

5.7.1 Academic Research (10)

A. Number of quality publications in referred/SCI Journals, citations, Books/Book Chapters etc.,

Number of Journals Published:

S.NO	NAME	No. of Publications		
		2024-25	2023-24	2022-23
1	Dr. L. M. Merlin Livingston	2		
2	Dr.K.G. Revathi	1	4	3
3	Dr. N. Nirmal Singh	1	1	
4	Dr. Venmathi. A. R	3		
5	Dr. T. Selvin Retna raj	2	3	1
6	Dr. Morarji. C. K		1	
7	Mrs. Shally S.P	1	2	
8	Mr. Syed Feroze Hussain.S	1		
9	Mrs. Devi Sowndarya. K. K	1		2
10	Mrs. Jasmine Ananthi M	3		
11	Dr. Valentina Stephen		1	
12	Mrs. Lurdhumary . J		1	1
13	Dr. Latha M			1
14	Dr. J. Arun Kumar			1
15	Dr. M. Mary Adline Priya			1

Sample Journal Publications:

Journal Publication 2024 - 25

S.No	Name of the Author	Title of the paper	Month & year of publication	Vol / Issue Number & issue No	Name of the Journal
1	Dr. T. Selvin Retna raj	Combined ST/MST and radial basis function neural networks for power quality disturbance signal classification (https://scholar.google.com/citations?view_op=view_citation&hl=en&user=xqBUvXcAAAAJ&citation_for_view=xqBUvXcAAAAJ:u-x6o8ySG0sC)	01-01-2025	43(6)	Journal of Intelligent & Fuzzy System
2	Dr. Venmathi. A. R	Miniaturized substrate integrated waveguide bandpass filter using symmetric vertical slots	01-10-2024	2582-2160	International journal for multidisciplinary
3	Mrs. Shally S.P	Advanced development on real time monitoring of bridges using wireless fidelity	01-09-2024	ISBN 979-8-3503-7281-6	2024 7th International Conference on Computing Technologies (ICCPCT) (https://ieeexplore.ieee.org/xpl/conh)
4	Dr.K.G. Revathi	Improving routing performance in mobile ad hoc networks using artificial neural networks for mobility prediction using deep learning	01-09-2024	Vol 20, Issue-2	Journal of Electrical systems
5	Dr. L. M. Merlin Livingston	Impact of device design parameters on quantum efficiency of solar cell and revelation of recombination mechanism	Feb-25	NA	Journal of Optical and Quantum Elec

Journal Publication 2023 - 24

S.No	Name of the Author	Title of the paper	Month & year of publication	Vol / Issue Number & issue No	Name of the J
1	Dr.K.G. Revathi	Enhancing the photocatalytic activity of a TiO2 /Ag3VO4 Hybrid composite for optoelectronic and solar energy conversion applications	01-02-2024	53, 1989-2002	Journal of electronic material

2 Mr. T. Selvin Retna raj An efficient reconfigurable FIR filter design with coefficient optimization using a modified bacterial foraging optimization algorithm (https://scholar.google.com/citations?view_op=view_citation&hl=en&user=xqBUvXcAAAAAJ&citation_for_view=xqBUvXcAAAAAJ:d1gkVwhDpl0C) 01-01-2024 65 (1) Automatika

3 Mrs. Devi Sowndarya. K. K. A lightweight block chain scheme for secure data communication in internet of things enabled wireless sensor network 01-05-2024 ISBN 979-8-3503-6404-0 2024 International Conferenc applications in Electrical Sci (<https://ieeexplore.ieee.org/xj>)

4 Mrs. Shally S.P. Development of an internet of things based integrated system for fleet management in real time 01-07-2023 ISBN 979-8-3503-4757-9 IEEE 2023 2nd International and Applications (ICECAA) (<https://ieeexplore.ieee.org/xj>)

5 Dr. L. M. Merlin Livingston High speed broadband light spatial laser system with hybrid linear/parabolic/measured indexed multimode optical fibers performance signature 29.02.2024 NA Journal of Optical Communi

6 Dr. N. Nirmal Singh A Review on Bio Energy/ Biomass Fuel Selection and Energy Conversion 2023 NA IEEE Xplore Part DOI:10.11

7 Mr. T. Selvin Retna Raj Generation of Power Quality Disturbances using mathematical equations 2024 Volume 14, Issue 1 January 2024|ISSN:2250-1770 International Conference

Journal Publication 2022 - 23

S.No	Name of the Author	Title of the paper	Month & year of publication	Vol / Issue Number & issue No	Name of the Journal / conference
1	Dr. J. Arun Kumar	Intersymbol interference resilient interleaving architecture for multi-stream interleaved frequency division multiple access system (https://onlinelibrary.wiley.com/doi/abs/10.1002/dac.5394)	01-11-2022	36(3)	International Journal of Communication Systems
2	Dr.K.G. Revathi	Efficient and reliable hybrid deep learning enabled model for congestion control in 5g/6g networks	01-09-2022	Vol.1 Issue 1	IJFANS (https://www.sciencedirect.com/journal/computer-communications)
3	Dr.K.G. Revathi	Molecular docking studies of different phytochemicals obtained from medicinal plants of uttarakhand region for identification of potential inhibitors against mucormycosis causing fungal species	01-02-2023	15(1), 0974-9411	Journal of applied and natural science
4	Dr.K.G. Revathi	Optimization enabled hybrid deep learning for brain tumor detection and classification from MRI	01-04-2023	vol 84, 104955	Biomedical signal processing and control
5	Dr.K.G. Revathi	Dimension reduction using auto encoder and prediction by softmax for heart disease	01-09-2022	Volume 20, Issue 9, Pages 5846-5851	NeuroQuantology
6	Mrs. Devi Sowndarya. K. K.	A hybrid ANFIS reptile optimization algorithm for energy efficient inter cluster routing in internet of things enabled wireless sensor networks	01-02-2023	16	Peer-to-Peer Networking and Applications
7	Mrs. Devi Sowndarya. K. K.	An artificial intelligence approach for energy aware intrusion detection and secure routing in internet of things enabled wireless sensor networks	01-05-2023	35(23):e7818-0634?	Concurrency and Computation Practice and Experience (https://www.researchgate.net/journal/Concurrency-and-Computation-Practice-and-Experience) https://www.researchgate.net/publication/366342502

Details of Patents:

Sl.No	Name of the Faculty Member	Title	Year
1	Dr. Sujatha Jamuna Anand	AI Based Device For Image Encryption And Decryption	February 2025
2	Dr. K. G Revathi , Mrs. Shally S P	5G Antenna for Wireless Communication	2024
3	Dr. K. G Revathi	AI Based device for splicing optical fibres	2024
4	Dr. N. Nirmal Singh	Anthroprhpic three finger robotic hand	2024

5	Dr. Venmathi A R	Artificial intelligence eye wear for partially blind person (Applied)	2025
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Publications Details**Number of Books/Book Chapters Published:**

S.NO	NAME	No. of Books / Book Chapters		
		2024-25	2023-24	2022-23
1	Dr. K. G. Revathi		Book - 1	Book - 1
2	Dr. N. Nirmal Singh	Book - 1		
3	Dr. T. Selvin Retna raj		Book - 1	
4	Mrs. Devi Sowndarya. K. K	Book Chapter - 2	Book Chapter - 1	Book - 1

B. Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute: Nil

Ph.D. awarded during the assessment period while working in the institute:

Faculty Name	University Name	Academic Year	Title of the thesis	Research Field
Dr. T. Selvin Retna raj	Anna University	2024 - 25	Detection And Classification Of Power Quality Disturbances Using Signal Processing Based Artificial Neural Networks	VLSI signal processing
Dr. Morarji. C. K	Anna University	2023 - 24	Certain investigations on the application of IOT in smart grid monitoring with different key management based data transmission techniques	IOT

Faculty Pursuing Ph. D:

Sl No	Name of the Faculty	University	Registration Month & Year	Status	Guide Details
1	Mr. Syed Feroze Hussain.S	VIT University	January 2020	Confirmation and DC meeting - 2	Dr.D. Thirup Professor, V
2	Mrs. Devi Sowndarya. K. K	Anna University	July 2023	Confirmation Completed	Dr. Rajganes Professor, St College of E

5.7.2 Sponsored Research (5)

Institute Marks : 4.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
OFFICE AUTOMATION SYSTEMS	2 Years	Excel Solution Providers Pvt. Ltd	920000.00
Design and development of low cost vehicles for disabled person	6 Months	Tamil Nadu Skill Development and Corporation	10000.00
Agriculture Drones with IoT: Revolutionizing Smart Farming	2 Years	AIROBO INFINITY PVT LTD	925000.00
			Total Amount(X): 1855000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount
NIL	NIL	NIL	0.00
			Total Amount(Y): 0.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount
NIL	NIL	NIL	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 1855000.00

5.7.3 Development Activities (10)

Institute Marks : 10.00

Development Activities:**A. Product Development:**

Some of the Sample Products in out department are,

Table 5. 1: Details of product development for the year 2022-23

S.NO	NAME OF THE STUDENT	PRODUCT DEVELOPED	GUIDE NAME
1	Santhiya.C Charumathi S Manimegalai K	LED cube to assist child dyslexia with measure speech frequency	Mr. Morarji. C. K
2	Gayathri M Revathi S	Design of Solar grass cutter using wireless communication	Mrs. Lurdhumary.J
3	Someshwaran S Chinnadurai M Dhinesh Babu A	Detection Of Paddy Leaf Disease Using Deep Learning	Dr. K. G. Revathi

Table 5. 2: Details of product development for the year 2023-24

S.NO	NAME OF THE STUDENT	PRODUCT DEVELOPED	GUIDE NAME
1	Lidiya S Sheeba B	Context-Aware Monitoring And Control Of Ventilation Rate In Indoor Environments Using IoT	Mrs. K. Lavanya
2	Muthulakshmi S Sharmila V Sivaranjani S	Design And Development Of Low-Cost Vehicle For Disabled Person	Dr. Valentina Stephen

B. Research Laboratories:

S.NO	CENTRE OF EXCELLENCE
1	Centre of Excellence- Healthtech
2	Centre of Excellence-Agritech
3	Centre of Excellence- Artificial Intelligence in Robo
4	Centre of Excellence – Cyber Security

Objectives:

- To provide the platform for research scholars to carryout projects in the centre
- To encourage rural employment
- The centre can deliver domain trainings on:
 - a. Product Design
 - b. Product Modelling
 - c. Analysis
 - d. Product Life cycle and Data management.

Some of the identified projects carried out in Centre of Excellence:

Smart Irrigation System (Arduino-based)

- Use soil moisture sensors to detect dryness and automatically control a water pump for irrigation.
- Display real-time data on an LCD or send notifications to a mobile app

Weather Monitoring Station (Raspberry Pi-based)

- Collect temperature, humidity, and rainfall data using sensors.
- Store and visualize data on a cloud platform for real-time weather updates and analysis

C. Instructional Materials

S.No	Instructional Materials
1.	PPT, Educational Videos using Audio Video facilities (Projectors, Computers)
2.	Laboratory Manuals, Standard specimens, Charts, etc.,
3.	Arduino Board
4.	Raspberry Pi
5.	Sensors
6.	Bluetooth Module. GSM Module
7.	Computers

D. Working Models/ Charts

S.NO	CHARTS AVAILABLE IN LABS
1	VLSI design flow chart
2	Resistor color code
3	IoT framework
4	IoT system connecting to cloud

5.7.4 Consultancy(from Industry) (5)

Institute Marks : 1.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Low-Cost Smart Greenhouse Monitoring System	2 Years	Circuit Makers Laboratory	200000.00
			Total Amount(X): 200000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount
NIL	NIL	NIL	0.00
			Total Amount(Y): 0.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount
NIL	NIL	NIL	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 200000.00

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

Total Marks 30.00

Faculty members at DMI college undergo an annual appraisal based on their contributions to themselves and the institution. The evaluation uses a well-defined system including self-appraisal forms. Contribution of faculty members towards the publishing papers in reputed journals, patent, book chapters etc are evaluated. This process motivates faculty to enhance their professional development and improve overall educational quality. It also serves as a basis for merit-based salary increases, enabling financial growth.

A. A well-defined performance appraisal and development system instituted for all the assessment years

The faculty performance evaluation process encompasses four essential components to assess academic staff comprehensively. Academic Performance forms the foundation, measuring mastery of subject knowledge, incorporating valuable student feedback, and analyzing university results. Research-Based Performance validates scholarly contributions through publications, guidance of projects, and active involvement in research activities. The Development Activities component evaluates professional growth through innovative teaching methodologies, leadership in departmental events, and pursuit of advanced qualifications. Experience serves as a crucial fourth dimension in the assessment matrix.

Faculty members compile these elements into a detailed Self-Assessment Report, which undergoes thorough review by the Head of Department. This evaluation determines whether predetermined targets have been achieved. Upon meeting these objectives, faculty members receive formal appreciation acknowledging their accomplishments. In cases where targets are not fully met, constructive suggestions for improvement are provided to support professional development and enhance future performance. This systematic evaluation framework ensures balanced assessment of teaching excellence, research contributions, and professional development while fostering continuous improvement within the academic environment.

This approach maintains high standards through clear metrics and supportive feedback mechanisms, ultimately strengthening both individual faculty performance and institutional quality. The structured evaluation creates opportunities for recognition while establishing clear pathways for professional advancement and academic excellence.

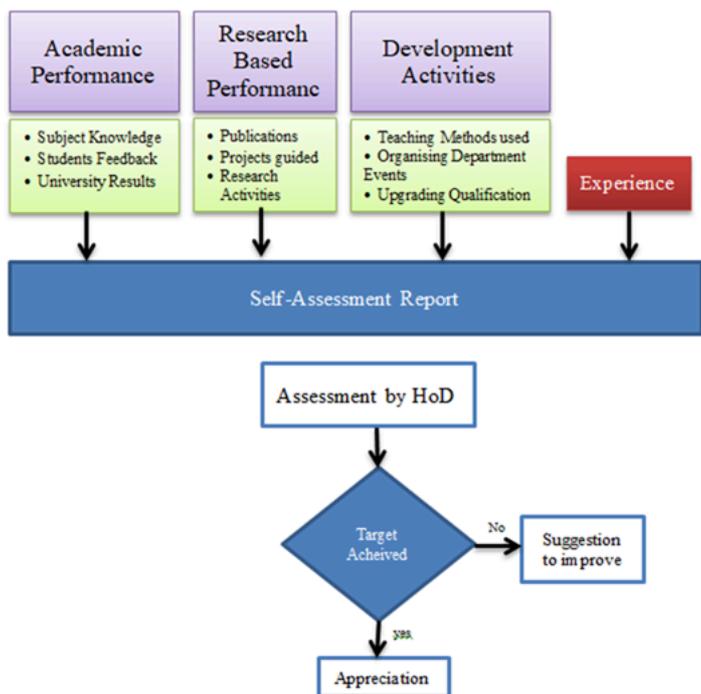


Fig 5.6 - Faculty appraisal form

B. Its implementation and effectiveness

At semesters end, faculty submit self-appraisal forms reflecting their yearly performance, endorsed by their HOD. An expert committee, comprising the Correspondent, Administrator, Principal, and HOD, evaluates these forms. This assessment determines potential promotions to the next level, providing a structured approach to faculty career advancement based on performance.

The evaluation metrics is based on four main parameters that consist of

1. Academic Performance Assessment

The academic performance assessment is based on the result produced by the faculty member on the subject handled in a particular year and also based on the FDPs attended and membership of the professional bodies.

2. Institutional development and Academic Leadership

The research-based performance assessment is evaluated based on the faculty members contributions to research, including the number of research publications in indexed journals, successful completion of funded projects, patents filed or granted, and participation in research collaborations. It also considers involvement in organizing or attending research-related conferences, workshops, and memberships in research-focused professional organizations. The faculty involved is awarded with appropriate amount as per the policy decided at the institution level.

3. Assessment by HoD for staff

The HoD conducts a comprehensive year-long evaluation of staff, assessing their discipline, teamwork, punctuality, dedication to student and department development, and initiative, to provide a thorough analysis of each faculty members performance and contributions.

4. Research/Publication/Project

The publication of papers in national and international journals and conferences, conferences or workshop organized, sponsored projects and consultancy projects, books, book chapters published, research guidance are the contributions for the self appraisal of the individual faculty member.

Basis of reward / corrective measures, if any

A grading system is followed to measure the quality of teaching process. Grading System is classified into

- Very Poor
- Poor
- Satisfactory

- Good
- Very Good

If the grade secured by the faculty is either poor or satisfactory corrective action (Counselling to the faculty members) will be initiated by the HOD and suggestions will be given to the respective faculty members by the Principal to improve the quality for self-appraisal.

Execution of feedback process

1. Faculty not handling subjects for the respective class will be allocated for collecting feedback from the students.
2. Entire feedback processes is monitored by course feedback coordinator.

Indices (grading) used for measuring quality of teaching and learning

1. The feedback questionnaire contains 20 questions with 5 point scale to measure faculty performance.
2. The weighted average of the student's response is calculated and consolidated.
3. The performance based on feedback is categorized into
 - Category I (above 90%) - Excellent
 - Category II (70% - 90%) – Good
 - Category III (below 70%) – Suggestion for improvement

Basis of reward / corrective measures

Category	Indices	Remarks
I	Above 90%	Appreciation
II	70%-90%	Recommended for FDP, Workshop, Conference
III	Below 70%	Faculty has Mentored with Principal/HOD

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)

Total Marks 10.00

Institute Marks : 10.00

S.No	Name of the Visiting Faculty	Course Name	Duration of the Course	Academic Year
1	Mr. Gopikrishnan J	Total Quality Management	30 Hours	2023 - 24
2	Ms Viji Charles	Professional Ethics	20 Hours	2022 - 23

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	Circuits and devices Lab	30	Cathode Ray Oscilloscope (30MHz) • Function Generators (3 MHz) • Single regulated Power Supply (1 A,0- 50V) • Dual Regulated Power Supplies (2 A,0 – 30V) • Fixed Power Supply (\pm 15V)	12 hrs	Mr. Pichai Maria Karol	Lab Assistant	BE - ECE
2	Linear Integrated Circuits / ADC Laboratory	30	Cathode Ray Oscilloscope (30MHz) • Function Generators (1-10 MHz) • Function Generators (1 MHz) • Function Generators (3 MHz) • Dual Regulated Power Supplies (2 A,0 – 30V) • Linear Power Supply (\pm 15V) • Single Power supply (0-30V) • Digital IC Tester • Digital Multimeter	18 hrs	Mr. Pichai Maria Karol	Lab Assistant	BE - ECE
3	Digital Signal Processing / CN Laboratory	30	Function Generators (1 MHz) • Function Generators (3 MHz) • Cathode Ray Oscilloscope (20MHz) • TMS 320C5402 DSP trainer kit • TMS 320VC33 DSP trainer kit • TMS 320C50 DSP trainer kit • TMS 320C6713 DSP trainer kit • LAN Trainer Kit	18 hrs	Mr. Pichai Maria Karol	Lab Assistant	BE - ECE
4	Communication System Laboratory	30	Cathode Ray Oscilloscopes (30MHz) • Function Generators (3 MHz) • Sampling and Reconstruction Kit • Amplitude modulation and Demodulation kit • Frequency modulation and Demodulation kit • Pulse Code Modulation and Demodulation Kit • Pulse Amplitude Modulation and Demodulation Kit • PLL and Frequency Synthesizer • QPSK Transmitter and Receiver kit • BPSK Transmitter and Receiver kit • BFSK Transmitter and Receiver kit • Delta Adaptive Delta and Sigma Modulation and Demodulation • Time Division Multiplexing Kit • Frequency Division Multiplexing Kit • Differential Pulse Code Modulation and Demodulation Kit • Line coding and decoding trainer kit • Vector Network Analyzer (3 GHz)	12 hrs	Ms. Alwin Elizabeth Rani	Lab Assistant	B.Sc - Physics
5	VLSI Design / Embedded Laboratory	30	Spartan 3E • Xilinx ISE 9.2 • Tanner Ver 15.1 • ARM 7 Development board LPC 2148 • Wireless communication with Zigbee • LCD display module • LED display module • ADC interface module • DAC interface module • HEX interface module • EEPROM interface module • Stepper motor interface module • DC motor interface module	12 hrs	Mr.R.Raghuraman	Lab Assistant	B.Sc - Physics
6	Microprocessor and Microcontroller Laboratory	30	Cathode Ray Oscilloscope (30MHz) • Function Generator (3 MHz) • 8086 Microprocessor kits • 8051 Microcontroller kits • 8279 Keyboard and Display Interfacing board • 8255 Parallel Interfacing board • 8251/8253 Serial Interfacing board • 8259 Interrupt control Interfacing board • ADC Interfacing board • DAC Interfacing board • Stepper motor control interfacing board • Traffic light control interfacing board	12 hrs	Ms. Alwin Elizabeth Rani	Lab Assistant	B.Sc - Physics
7	Optical and Microwave Laboratory	30	Microwave Test Bench(Xband) • Gunn Power Supply Setup • Microwave Test Bench (J Band) • Radiation Pattern Turn Table Setup • Fiber optic Analog transmitter and receiver trainer Kit • Fiber optic Analog and digital transmitter and receiver kit • Fiber optic digital trainer kit • Directional Coupler • Digital Storage Oscilloscope (100 MHz) • Link-B advanced fiber optic communication trainer kit • Fiber Link E Fiber Optic Trainer Kit • Mode observation experimental kit • M-100 Fiber optic power meter • Gunn power supply • CSK connectorisation cum splicing kit. • Microwave power meter • CRO (30MHz)	12 hrs	Mr.R.Raghuraman	Lab Assistant	B.Sc - Physics

8	Research Lab	30	Matlab Softwar, Keil micro vision free version software tool , Xilinx multi user software for designing and verifying codes of digital logic, Microwave Integrated Circuit Analyzer, Microstrip Patch Antennas.	12 hrs	Mr. Pichai	Lab	BE - ECE
					Maria Karol	Assistant	

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	Agritech	Centre of Excellence	To attain the Internationally Certified and Enhance skills through comprehensive industrial training.	Students	Smart Agriculture	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO 1, PSO 2, PSO 3
2	Healthtech	Centre of Excellence	To attain the Internationally Certified and Enhance skills through comprehensive industrial training.	Students	Medical Imaging	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO 1, PSO 2, PSO 3
3	Project Lab	Projects	Students are motivated to take up industrial and in-house projects.	Students	To do projects	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO 1, PSO 2, PSO 3
4	AI in Robo	Centre of Excellence	To attain the Internationally Certified and Enhance skills through comprehensive industrial training.	Students	Automation & Intelligence	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO 1, PSO 2, PSO 3
5	Cyber Security	Centre of Excellence	To attain the Internationally Certified and Enhance skills through comprehensive industrial training.	Students	Threat Protection & Forensics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO 1, PSO 2, PSO 3

6.3 Laboratories: Maintenance and overall ambience (10)

Total Marks 10.00

Institute Marks : 10.00

Maintenance:

1. Do's and Dont's and Safety measures rules are displayed in each laboratory.
2. Well Technical Staff are available for maintenance of Electronic equipments and software.
3. Servicing of each laboratory is doing frequently.
4. All necessary PC system regular software like Microsoft office, browser, lab software; antivirus software etc., is installed and maintained.
5. Stock register is maintained and updated regularly.
6. Student entry register is maintained.
7. Stock verification is carried out by the department at the end of the Academic year.
8. Lab facilities are utilized by the students for their project work.

Ambience:

1. Department has Full furnished State of Art laboratories with well equipped equipments which shall cater to all UG and PG courses as per curriculum requirements.
2. Conditions of chairs/benches are in good condition. Chair with desk are provided for individual students in Labs.
3. Department has experienced faculty to educate them in all the fields of engineering.
4. All the labs are conducted and evaluated every week. .
5. Labs are equipped with sufficient hardware and licensed software to run program specific Curriculum and off program curriculum.
6. Laboratory manual are distributed to students.
7. Sufficient number of windows is available for ventilation and natural light and every lab has one exit.
8. Lighting system is very effective, along with the natural light in every corner of the rooms.
9. Cup-boards are available in each lab for students to place their belongings.
10. Each Lab is equipped with white/black board, computer, Internet, and such other amenities.
11. Exclusively, a project lab has been provided for the students to carry out their mini and major project work.
12. Daily cleaning by dedicated housekeeping staff.

S.No	Details of Check	Freque
1	All the equipment are checked at start of semester	Half Ye
2	All Lab equipments are inspected and if servicing is needed it is done at the start of semester and mid semester if needed	Half Ye
3	Fire extinguishers are recharged after expiry date of constituents	Yearl
4	First Aid Box is provided	As and when
5	UPS servicing	Half ye

Fire Safety norms and checks:

- Sufficient fire extinguishers are provided.

6.4 Project laboratories (5)

Total Marks 5.00

Institute Marks : 5.00

Project laboratories:**Project lab is available in the Department to utilize for the Project work.**

S.No	Name of the Equipment / Software	Utilization
1.	Matlab Software	<ul style="list-style-type: none"> ◦ The Project group typically consists of three to four members ◦ Students are motivated to take up industrial and in-house projects. ◦ This helps students to get an exposure to work on core fields.
2	Keil micro vision free version software tool .	
3.	Xilinx multi user software for designing and verifying codes of digital logic.	
4	P-Spice free version software for implementation of power circuits -5 User	
5	Lab view free Version software	
6	Microwave Integrated Circuit Analyzer	
7	Microstrip Patch Antennas.	
8	Vector Network analyzer	
9	Adurino IDE	
10	Multisim	

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Circuits And Devices Lab	<ul style="list-style-type: none"> • Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and fire extinguishers are kept in each laboratory. • Students are supposed to wear Lab Apron. • A clean and organized laboratories are maintained • UPS • Earthing
2	Linear Integrated Circuit / ADC Lab	<ul style="list-style-type: none"> • Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and fire extinguishers are kept in each laboratory. • Students are supposed to wear Lab Apron. • A clean and organized laboratories are maintained • UPS • Earthing
3	Optical And Microwave Lab	<ul style="list-style-type: none"> • Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and fire extinguishers are kept in each laboratory. • Students are supposed to wear Lab Apron. • A clean and organized laboratories are maintained • UPS • Earthing
4	Digital Signal Processing / CN Lab	<ul style="list-style-type: none"> • Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and fire extinguishers are kept in each laboratory. • Students are supposed to wear Lab Apron. • A clean and organized laboratories are maintained • UPS • Earthing
5	Communication System Lab	<ul style="list-style-type: none"> • Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and fire extinguishers are kept in each laboratory. • Students are supposed to wear Lab Apron. • A clean and organized laboratories are maintained • UPS • Earthing
6	Microprocessor And Microcontroller Lab	<ul style="list-style-type: none"> • Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and fire extinguishers are kept in each laboratory. • Students are supposed to wear Lab Apron. • A clean and organized laboratories are maintained • UPS • Earthing
7	VLSI Design / Embedded Lab	<ul style="list-style-type: none"> • Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and fire extinguishers are kept in each laboratory. • Students are supposed to wear Lab Apron. • A clean and organized laboratories are maintained • UPS • Earthing

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	2.86	2.73	It is identified that the level of attainment is moderate in a few subjects of different courses some of which are listed below 1. Engineering Mathematics 2. Circuit Analysis 3. Digital Communication 4. Transmission Lines and Waveguides 5. Control systems 6. Communication Theory
1. The students were found lagging in analytical part. In addition to that tutorial hours are handled by two faculty members. 2. Remedial classes taken for Engineering Mathematics, Circuit Analysis, Digital Communication, Transmission Lines and Waveguides 3. Six Days FDP on Digital Electronics and Electronic Devices			
PO 2 : Problem Analysis			
PO 2	2.43	2.32	It is identified that the level of attainment is moderate in a few subjects of different courses some of which are listed below 1. Engineering Mathematics 2. Circuit Analysis 3. Signals and Systems 4. Electronic Circuits 5. Discrete-Time Signal Processing
1.The students are given seminars and assignments on the subjects such as Circuit Analysis, Signals and Systems, Discrete-Time Signal Processing. 2.Tutorial hours were taken to solve problems and design circuits. 3.More diverse problems to be taught in extra classes. 4.Mathematics courses were strengthened by various concepts and examples so that students improved their mathematics applications.			
PO 3 : Design/development of Solutions			
PO 3	2.23	2.14	Still students not knowing how to develop solutions using simulations and methodologies to solve complex problems.
A particular combination was implemented for the subject VLSI Design using design of experiments (DoE) which improves the performance and curtails exhaust emanations which do not affect public health and safety.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.86	1.91	More Students are exposed to research papers
Lectures were given on research based knowledge and motivating students to read research journal papers. Students are initiated to do more projects in aligning with PO4			
PO 5 : Modern Tool Usage			
PO 5	2.13	2.05	Very few Students are using CAD based analysis and software like IoT for the project works
1. Hands on training / workshops conducted to demonstrate use of Modern tools like Arduino, Mobile APP development, etc.. to specify fulfilment of requirement in engineering applications in new industrial era. 2. Value Added Course was conducted to practice new tools.			
PO 6 : The Engineer and Society			
PO 6	2.23	2.24	Students are slowly learning that they are the part of the society and they are studying engineering to serve the society.
1.To understand the safety concerns and social aspects, students visited industry to expand their practical knowledge with the effect of improved practices in engineering. 2.To specify fulfilment of requirement in engineering applications in new industrial era. 3.The courses of Electronics and communication Engineering are addressing the needs of health, safety and social concerns regarding engineering practices in real life. 4.Projects benefiting the society for visually impaired such as "Intelligent Navigation System for Visually impaired".			
PO 7 : Environment and Sustainability			
PO 7	2.31	2.32	Students should go through case studies to analyse the problems of technology and suggest remedies
1.Students are encouraged to indulge in projects, in which global and environmental issues are improved, with respect to consumption of energy and utilization of renewable energy resources. 2.Initiation of tree plantation was done through Go Green Club. 3.The issues of global and environmental awareness among the student was initiated through GO GREEN club. Staff and Students have participated in plantation programme during Sept, 2023.			
PO 8 : Ethics			
PO 8	2.53	2.45	Students should understand nature and ethics follow code of conduct
1.Career orientation program, corporate lectures and motivational talks were arranged to overcome the above observations. 2.Service learning, Civic Virtue and respect for others was initiated through NSS and Women's Empowerment program.			
PO 9 : Individual and Team Work			
PO 9	2.12	2.12	Effectiveness of the student and that of team should improve for a successful engineering work
1.Classes were continued to motivate students to do innovative projects. 2.To initiate the concept of team work, technical activities such as symposium, mini projects were practised. 3.Tasks will be assigned to the students as individuals and teams to visit the site and prepare a report			
PO 10 : Communication			
PO 10	2.11	2.19	Few students are not having proper communication skills to convey importance of engineering applications
1.Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes. 2. The awareness created among the student regarding the Communication effectively. 3.The communication, presentation and report writing skills are to be further improved among the students. 4.Communication skills was enhanced through various activities.			

PO 11 : Project Management and Finance			
PO 11	1.80	1.92	Students should keep in mind that their project work should be cost effective
1. The awareness created among the student regarding the management principles and managing projects. 2. Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes. 3. Few courses of curriculum give knowledge of Management principle and applying managerial principles to his/her work including financial implications and to manage the project in multidisciplinary environments.			
PO 12 : Life-long Learning			
PO 12	2.08	2.13	Students are aware of the fact that life long learning is a self-education so that they can get a place in the engineering business
1. Motivation programs, seminar on higher studies, research based projects was initiated 2. The pre final year and final year courses of the program are demonstrating the resource for contemporary issues and lifelong learning.			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Analyze and design analog & digital circuits or systems for a given specification and function.			
PSO 1	1.58	1.80	Students show their capability and build career in the specific field to design and develop analog & digital circuits
Efforts will be made to involve major percentage of students by offering more number of projects involving design and / fabrication towards curriculum requirement.			
PSO 2 : Implement functional blocks of hardware-software co-designs for signal processing and communication applications.			
PSO 2	1.90	1.99	Students develop innovative techniques to use hardware-software co-designs for signal processing and communication applications
1. Academic workshops and conferences are coming into picture to apply more knowledge in terms of conduction of experiments and analysis the as required level. 2. Usage of different tools and designs are used to , develop/ implement, test, manufacture and maintain the electronics systems for consumer electronics/telecommunication/ optical communication/ automobile/ Industrial Equipment /Machinery control, articulate/ publish/ exhibit/ innovations/ conference, journals etc.			
PSO 3 : Design, develop and test electronic and embedded systems for applications with real time constraints and to develop managerial skills with ethical behavior to work in a sustainable environment.			
PSO 3	1.87	2.02	Students undergo case studies to ensure sustainable development.
1. Practical approach of teaching method should be adapted 2. Workshops were conducted to help students manage projects efficiently and develop electronic and embedded systems with real-time applications, managerial skills, and sustainability			

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

Total Marks 10.00

The process of Academic Auditing intends to monitor and enhance the quality of technical education through proper guidelines for both teaching faculty and students, so as to ensure qualified engineers/researchers passing out from Engineering Institutions.

Objectives of Academic Auditing:

- To ensure academic accountability.
- To define quality of each component of the functionalities and to ensure quality of technical education throughout the system.
- To safeguard functionalities of technical education.
- To define effectiveness of teaching – learning process and to devise methodology to confirm maximum output from faculty members as well as students.

The process of Academic Auditing intends to monitor and enhance the quality of technical education through proper guidelines for both teaching faculty and students, so as to ensure qualified engineers/researchers passing out from Engineering Institutions. The process of Academic audit shown in the Figure 7.1

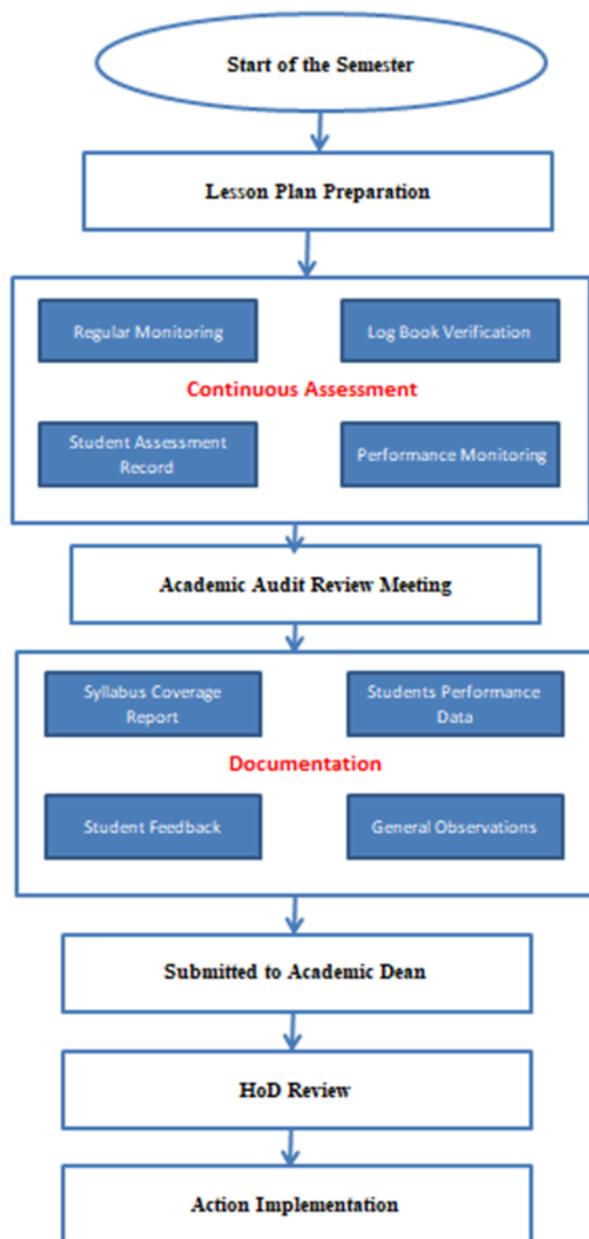


Figure 7.1 - Process of Academic Audit

Academic Audit Report:

The academic audit process is conducted each semester to monitor and evaluate educational quality. The college maintains transparent communication channels about the audit process through formal circulars distributed to all relevant departments. The process of Academic audit is as follows:

- At the start of the semester lesson plan is prepared with the hours allotted as per the time table and the total hours allotted for each subject by Anna University (Affiliating University) for completion of the syllabus.
- Log Books are verified by the HOD and the Principal to keep track of the syllabus coverage and attendance of the students.
- The college maintains detailed student assessment records tracking multiple evaluation components including slip tests, midterm examinations, assignments, and attendance for each subject. A target attainment of 50% is set as the expected minimum performance.
- Regular academic performance monitoring is done through a comprehensive system that records individual student progress across parameters like test scores, assignment completion, and class participation maintaining hour engagement period.
- The Academic Audit Review meeting for every Semester is scheduled thrice with specific presentation dates assigned to different departments.
- Academic Coordinators from each department are responsible for ensuring complete documentation of syllabus coverage and academic records.
- General issues faced by the students are also noted during the audit period.
- The audit process demonstrates active involvement of key stakeholders including the Principal, Academic Coordinators and faculty members in maintaining academic standards.

- Student feedback is incorporated into the audit process, with current records indicating general student satisfaction with the teaching-learning process.
- Faculty performance is evaluated based on syllabus completion, teaching effectiveness, and student achievement metrics as part of the regular audit procedure.
- Documentation and record-keeping form a crucial part of the audit, with emphasis on maintaining detailed subject-wise academic reports and student performance data.
- Compiled reports with supporting documentation are submitted first to the academic dean and then to Department HOD for validation of academic records.
- The HoD takes action based on the academic report.

Action taken report:

- **Syllabus Coverage Actions:**
 - Scheduling extra classes to complete pending portions
 - Revising teaching plans for better time management
 - Assigning additional resources/faculty if needed
 - **Student Performance Actions:**
 - Organizing remedial classes for struggling students
 - Implementing special counseling sessions
 - Communicating with parents about progress
 - Creating peer learning groups
 - **Faculty Development Actions:**
 - Conducting teaching methodology training
 - Arranging mentoring by subject experts
 - Implementing performance improvement plans
-

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

Total Marks 10.00

Improvement in Placement, Higher Studies and Entrepreneurship:

Item	CAYm1 (2023-2024)	CAYm2 (2022-2023)	CAY3 (2021-2022)
Total No. of Final Year Students(N)	28	62	28
7.3. A. Improvement in Placements			
No. of Students Placed in Companies or Government Sector (X)	19	47	27
7.3.B. Improvement in Higher Studies			
No. of Students admitted to higher studies with valid qualifying scores (GATE or Equivalent State or National Level Tests, GRE, GMAT, etc.)(Y)	1	1	0
7.3.C. Improvement in Number of Entrepreneurs			
No. of students turned entrepreneur in engineering / technology(Z)	0	1	0
Placement Index: (X+Y+Z)/N	0.96	0.79	0.71

Salary Package:

YEAR	HIGHEST PACKAGE	LOWEST PACKAGE	CORE	NON CORE
2023-24	Rs.5,00,000 per annum	Rs.2,00,000 per annum	15	4
2022-23	Rs.5,00,000 per annum	Rs.2,00,000 per annum	31	16
2021-22	Rs.3,00,000 per annum	Rs.1,40,000 per annum	22	5

List of Companies

S.NO	ACADEMIC YEAR	COMPANY NAME
1	2023-24	SKILL DHUNIA
		ARRAA ENERGY PVT.LTD
		FOXCONN
		LOGSKIM
		INDIA JAPAN LIGTINGS
		QSPIDER
2	2022-23	UPLUS TECHNOLOGY
		THINKSYNQ
		JOY TECHNOLOGIES
		LOGSKIM
		AMPHENOL OMNI CONNECT
		LEAD PRO
		TECHNOLOGIES
		TCS
		AVASOFT SOLUTIONS
		SL LUMAX
		SUTHERLAND
3	2021-22	Afablez Semiconductor Pvt Ltd
		GLOBE COMPONENTS PVT LTD
		K.K.PRECISION COMPONENTS
		AVASOFT SOLUTIONS
		THINKSYNQ

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 NA	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others Single Window System	No of students admitted	47	56	54
	Opening Score/Rank	174	159	190
	Closing Score/Rank	82	87	80
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	0	1	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		64	62	68

8 FIRST YEAR ACADEMICS (50)

Total Marks 42.03

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

Tot:

Institute

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)
							CAY	CAYm1	CAYm2		
RAGHU Y	BADPR2839G	M.Sc. (Physics) and Ph.D.	24/03/2017	RADIATION PHYSICS	Professor	05/07/2023	100	100	0	Yes	Regular
IMMACULATE	BWGPG4754E	M.Sc. (Physics) and Ph.D.	17/07/2017	PHYSICS INTERDICLINARY	Professor	06/08/2001	100	100	100	Yes	Regular
STELLA MARY	CHEPS9723B	M.Phil	30/05/2006	PHYSICS	Assistant Professor	20/07/2017	100	100	100	Yes	Regular
AJITHA R	BBQPA2758D	M.SC. (Mathematics) and PhD	11/02/2023	GRAPH THEORY	Assistant Professor	14/07/2023	100	100	0	Yes	Regular
ANANTHARAM	ANZPA7425R	M.SC. (Mathematics) and PhD	21/03/2022	GRAPH THEORY	Assistant Professor	01/08/2024	100	0	0	Yes	Regular
ROSHINI L	HLPPR3469P	M.SC. (Mathematics) and PhD	04/01/2024	GRAPH THEORY	Assistant Professor	08/07/2024	100	0	0	Yes	Regular
KAVITHA M	AMAPK5888Q	M.Phil	31/05/2006	MATHEMATICS	Associate Professor	15/04/2002	100	100	100	Yes	Regular
HARIPRIYA R	AIRPH5830J	M.A and Ph.D	27/10/2022	ENGLISH LITERATURE	Assistant Professor	24/05/2023	100	100	0	Yes	Regular
STANISLAUS J	JDWPS8875P	M.A and Ph.D	14/10/2024	ENGLISH LANGUAGE AND TEACHNING	Assistant Professor	29/01/2024	100	50	0	Yes	Regular
THARANI K	BEWPT7079H	MA	31/05/2018	ENGLISH LITERATURE	Assistant Professor	11/04/2022	100	100	100	Yes	Regular
STEFFY TEEN	DULPS2462E	M.E/M.Tech	30/06/2013	GEOMATICS	Assistant Professor	10/06/2019	100	100	100	Yes	Regular
CHANDRAN G	ARPPC0884N	M.E/M.Tech	30/06/2010	POWER ELECTRONICS AND DRIVES	Assistant Professor	14/12/2018	100	100	100	Yes	Regular
SUDHA MERL	EDTPS9437R	M.E/M.Tech	30/06/2017	POWER ELECTRONIC AND DRIVES	Assistant Professor	22/02/2023	100	100	50	Yes	Regular
MONISHA V	BZSPV6413J	M.E/M.Tech	30/06/2021	WIRELESS TECHNOLOGY	Assistant Professor	03/10/2024	100	0	0	Yes	Regular
KRISHNAMAL	BFYPJ8711H	M.E/M.Tech	30/06/2019	COMMUNICATION SYSTEM ENGINEERING	Assistant Professor	14/08/2023	100	100	0	Yes	Regular
BABU J	BEIPB8517G	M.Sc. and PhD	16/05/2022	ORGANIC CHEMISTRY	Assistant Professor	03/09/2024	100	0	0	Yes	Regular
ANBARASAN V	CHNPA4232N	M.Sc. and Ph.D. (Chemistry)	16/05/2022	PHYSICAL CHEMISTRY	Assistant Professor	17/11/2021	100	100	100	Yes	Regular
EMMANUAL S	ABCPE2112Q	M.E/M.Tech	30/06/2007	MANUFACTURING TECHNOLOGY	Assistant Professor	02/01/2025	50	0	0	Yes	Regular
AMBROSE PR	AHZPP6467G	M.SC. (Mathematics) and PhD	21/10/2016	GRAPH THEORY	Associate Professor	26/03/2021	0	0	100	No	Regular
EDWARD JEYARAJAN	ABCPE8130C	M.Sc. and Ph.D. (Chemistry)	10/03/2022	PHYSICAL CHEMISTRY	Assistant Professor	14/09/2022	50	100	100	No	Regular
SUBASHINI J	DGOPS0803Q	M.Sc. (Physics) and Ph.D.	31/03/2007	PHYSICS	Assistant Professor	12/07/2021	0	100	100	No	Regular
SNEHA S	BRQPS7176H	M.Phil	31/05/2007	ALGEBRA	Assistant Professor	10/06/2019	0	50	100	No	Regular

KIRUBHA G	GGSPK5810C	M.Phil	31/05/2015	FUZZY LOGICS	Assistant Professor	03/01/2022	0	100	100	No	Regular
SATHIRAGAV	GIGPS2307M	M.Phil	31/05/2012	GRAPH THEORY	Assistant Professor	20/08/2022	0	100	100	No	Regular
JASWINI JAN	OHHPS3198R	M.Phil	15/07/2019	ENGLISH LITERATURE	Assistant Professor	20/09/2021	0	0	100	No	Regular
GEETHA V	ARQPG7248B	M.Phil	31/05/2015	ENGLISH	Assistant Professor	19/09/2022	0	0	50	No	Regular
VIGNESH	FCCPS2002F	M.E/M.Tech	30/09/2020	COMPUTER SCIENCE	Assistant Professor	15/12/2023	100	50	0	Yes	Regular
ALWIN STAR	BONPA1632N	ME/M. Tech and PhD	30/03/2020	POWER SYSTEM	Assistant Professor	19/09/2023	0	100	0	No	Regular
CHITRADEVI	AINPC0709R	M.Sc. and Ph.D. (Chemistry)	14/09/2014	ORGANIC CHEMISTRY	Professor	01/11/2023	100	100	0	Yes	Regular
SYED FERAZI	DMGPS3202H	M.E/M.Tech	31/05/2011	FIBER OPTICS	Assistant Professor	26/06/2023	50	50	0	Yes	Regular
KAMARAJ K S	GATPK0598G	M.Phil	31/05/2014	GRAPH THEORY	Assistant Professor	21/01/2019	100	100	100	Yes	Regular
NANDAGOPAL	AJXPN9655L	M.SC. (Mathematics) and PhD	23/08/2023	GRAPH THEORY	Assistant Professor	05/07/2023	0	50	0	No	Regular
JASMINE G	AUVPJ6612N	M.SC. (Mathematics) and PhD	03/11/2023	FRACTIONAL DIFFERENTIAL EQUATION	Assistant Professor	24/07/2023	0	50	0	No	Regular
PRADEEP E M	DIFPP6722J	M.E/M.Tech	20/07/2015	MANUFACTURING ENGINEERING	Assistant Professor	30/11/2020	50	50	50	Yes	Regular
NIKITHA B	FXTPB7110P	MA	31/05/2019	ENGLISH	Assistant Professor	20/09/2021	0	0	100	No	Regular
PREETHIVINA	CICPP2057A	M.E/M.Tech	28/06/2011	COMMUNICATION SYSTEM	Assistant Professor	05/02/2025	100	0	0	Yes	Regular
JEBARAJ G	BCLPJ7846R	M.E/M.Tech	15/05/2017	STURCTURAL ENGINEERING	Assistant Professor	15/06/2017	100	100	100	Yes	Regular
PETCHIAMMA	BCFPP8217G	M.Sc. and Ph.D. (Chemistry)	20/02/2020	IN ORGANIC CHEMISTRY	Assistant Professor	15/09/2022	100	100	100	Yes	Regular
KRISHNAMOC	CTHPK2110F	M.E/M.Tech	30/06/2013	ENGINEERING DESIGN	Assistant Professor	16/06/2016	50	50	50	Yes	Regular
VIJAYA G	BDXPV1664G	M.E/M.Tech	25/06/2013	POWER ELECTRONICS AND DRIVE	Assistant Professor	18/01/2019	100	100	100	Yes	Regular
SHEELA C	COIPC9609D	M.Phil	30/01/2003	GRAPH THEORY	Assistant Professor	09/05/2022	0	0	100	No	Regular
VISHNUPRIYA	AECPV5768E	M.SC. (Mathematics) and PhD	05/01/2015	GRAPH LABELING	Associate Professor	19/02/2024	100	100	0	Yes	Regular
EVANGELINE	EDPPK4636G	M.A and Ph.D	07/03/2016	TAMIL	Assistant Professor	20/11/2024	100	0	0	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)	420	22	19	5
2023-24(CAYm1)	480	27	18	5
2024-25(CAY)	540	29	19	5
Average	480	26	18	5

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

Total Marks 2.67

Institute Marks : 2.67

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	3	13	21	2.00
2023-24	8	13	24	3.00
2024-25	10	12	27	3.00

Average Assessment: 2.67

8.3 First Year Academic Performance (10)

Total Marks 4.36

Institute Marks : 4.36

Academic Performance	2024-25	2023-24	2022-23
Mean of CGPA or mean percentage of all successful students(X)	5.11	5.57	4.21
Total Number of successful students(Y)	47.00	48.00	54.00
Total Number of students appeared in the examination(Z)	56.00	54.00	59.00
API [X*(Y/Z)]	4.29	4.95	3.85

Average API[(AP1+AP2+AP3)/3] : 4.36

Assessment [1.5 * Average API] : 4.36

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

8.4.1. Quality of internal semester Question papers, Assignments and Evaluation:

Our college conducts two Internal Assessment Test (IAT-I & IAT-II) and Model Exam. IAT – I covers Unit-I & II. IAT – II covers Unit-III & IV. All the five units (Unit-I, II, III, IV, V) are covered in Model Exam Question paper. The internal test consists of 50 Marks with duration of 1.5 hours and Model Exam consists of 100 Marks with duration is 3 hours. The question paper are set to make the student to learn time management.

A. Process for Internal semester Question Paper Setting, Evaluation and effective process implementation: (5)**1. Internal semester Question Paper Setting:**

- Question papers all prepared by the course in-charges.
- For each subjects, question bank is prepared.
- While setting the question paper all previous university exam papers are taken into consideration.
- According to level of toughness the questions are prepared (viz., analyzing the problems implementation of modern tools, formulating the problems etc), which is termed as Bloom's Taxonomy.
- The students are asked to prepare and submit unit wise assignments, prior to Model examinations. The assignment should contain Key points, Neat diagrams / circuit, Derivations and Tables or plots as expected in the answer scripts in university exams.
- Evaluated answer scripts are randomly selected and checked for the authenticated awarding of marks by the senior faculty members. Changes are made in the marks when there is a genuine claim.

2. Evaluation:

- The faculties after every internal assessment test they explain the solution of the questions in the class which will enable them to perform well in the final examination.
- For any genuine reasons, if a student was unable to perform well in the given three internal assessment tests, retest is given to students..
- Department exam Cell will conduct the exams and answer scripts are evaluated by the Concern subject In-charges.
- Department will consolidate the marks after two days of the exam.
- Department categorize the students such as Advance Learners, average and slow learners based on their marks.
- Special coaching classes are conducted for the students by the subject In-charges.

3. Student Performance Analysis:

Department categorize the students such as Advance Learners, average and slow learners based on their marks.

Students Level Analysis:

Level 1: Internal Assessment Test marks > 80 % = Advance Learners Students

- Mementos are distributed to motivate them to continue their Excellency in academics.
- Giving special coaching to achieve university ranks.

Level 2: Internal Assessment Test marks 50 % to 80 % = Average Students

- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help
- Repeated University questions are given to make them to get more marks
- Taking necessary actions to promote them to the next level
- Concentrating on analytical papers
- Motivating them through Parent teachers Association
- Encourage them to implement the innovative ideas as the projects
- Encourage them to participate in various activities of the Department and also Colleges.

Level 3: Internal Assessment Test marks < 50 % = Slow Learners

- Concentrate on two marks questions
- Repeated University questions are given to make them pass.
- Special Coaching are given for all papers before the University exams
- Regularly Counseling them in all aspects
- Help them by conducting regular Coaching Classes to clear the papers
- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help.
- Conduction of extra classes to those who failed in previous semester subjects.

B. Process to ensure questions from Outcomes/learning levels perspective: (5)

Each question is mapped with COs. Student who answered to particular question is taken into consideration and average of all students' marks is taken for CO-PO attainment. Knowledge levels and learning levels are incorporated in the question banks and internal exam questions, that ensures COs level and its accomplishment.

Assessment Process	Evaluation
Theory	
Class tests	Class tests are conducted everyday during 1 st hour for 25 marks.

Continuous Assessment tests	Three continuous assessment tests will be conducted. The first two will be conducted for 50 marks for the duration of 1.30 Hrs covering 4 units (2 units each). The last assessment will be a model exam for 100 marks for a duration of 3 Hrs with all 5-units.
End Semester Examination	Will be conducted as per Anna University schedule
Laboratory	
Model Exam	Lab model exam will be conducted after completion of all the experiments for 100 marks for a duration of 3 Hrs
End Semester Exam	Will be conducted as per Anna University schedule

Others	
Assignments	Three Assignment topics per subject will be given to students
Tutorials	The entire class will be divided into three batches where each batch will have 20 to 23 students. A faculty will be allotted for each batch. Every week an hour will be conducted for tutorials wherein the Faculty will make the students solve more problems.

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

Institute Marks : 5.00

Assessment Tools

Assessment Tools are categorized into direct and indirect methods. The CO, PO and PSO attainment is calculated based on the assessment process through assessment tools. The direct assessment tools used to calculate the attainment of Course Outcomes are Internal Assessment Tests, Assignments and University Examination. 20% of weightage is given to Internal Assessment Tests and Assignments, 80% of weightage is given to University Examination. The indirect assessment tool used to calculate the attainment of Course end-survey. The Course End Survey consists of Questionnaires prepared with four scale range by focusing to evaluate the COs attainment of all courses in a semester.

Each CO is mapped with POs and the direct attainments of POs are calculated. The indirect assessment tools used to calculate the attainment of Program Outcomes are the Employer, Parent, Professional body activities and Graduate Exit Survey. For both PO and CO assessment, the weightage of direct assessment is 80% and indirect assessment is 20%.

Laboratory courses are assessed through the marks obtained by the students in the model examination, record book and university examination. The attainment levels for recording the attainment of Course Outcomes are defined based on the average performance of students in each subject.

B. The quality of assessment process and tools used:

All the Internal Assessment marks will be uploaded in Anna University web portal and the internal marks will be awarded purely based on their marks in the internal assessment and the assignments. Therefore students are expected to take the tests seriously and perform well in the tests & examination. Parents are requested to have a close watch on their ward's performance.

Table 3.2 a - Assessment process – Tools used

Test	Portion/Unit	Evaluation period
Internal Assessment Test – I	40%/ 1&2	Within 3-5 days after the last exam
Internal Assessment Test – II	40%/3&4	
Model Exam	100%(All Units)	
Model Practical Exam	As per Syllabus	

Attainment level:

Attainment level 1: 60% of students scoring more than 60 marks.

Attainment level 2: 70% of students scoring more than 60 marks.

Attainment level 3: 80% of students scoring more than 60 marks.

SAMPLE DATA ACADEMIC YEAR 2023-2024

ECE-23-24	CODE	SUBJECT	Attainment level					Attained Y/N				
			CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
	HS3152	Professional English I	2.96	2.96	2.96	2.96	2.96	Y	Y	Y	Y	Y
	MA3151	Matrices and Calculus	1.91	1.90	1.89	1.90	1.91	N	N	N	N	N
	PH3151	Engineering Physics	2.25	2.14	2.13	2.13	2.23	Y	Y	Y	Y	Y
	CY3151	Engineering Chemistry	2.35	2.35	2.34	2.36	2.45	N	N	N	N	N
SEM -I	GE3151	Problem Solving and Python Programming	1.80	1.82	1.92	1.87	1.86	N	N	N	N	N
	GE3152	Heritage of Tamils	2.96	2.96	2.96	2.96	2.96	Y	Y	Y	Y	Y
	BS3171	Physics and Chemistry Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3171	Problem Solving and Python Programming Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3172	English Communication lab	3	3	3	3	3	Y	Y	Y	Y	Y
	HS3252	Professional English - II	2.54	2.54	2.54	2.54	2.54	Y	Y	Y	Y	Y
	MA3251	Statistics & Numerical Methods	1.82	1.83	1.89	1.88	1.75	N	N	N	N	N
	PH3254	Physics For Electronics Engineering	2.56	2.36	2.06	2.56	2.06	Y	Y	Y	Y	Y
	BE3254	Electronics and Instrumentation Engineering	1.97	1.94	1.92	2.02	1.81	N	N	N	N	N
SEM-II	GE3251	Engineering Graphics	2.78	2.78	2.78	2.78	2.78	Y	Y	Y	Y	Y
	EC3251	Circuit Analysis	2.45	2.45	2.25	2.25	2.57	Y	Y	Y	Y	Y
	GE3252	Tamils & Technology	2.92	2.90	2.92	2.92	2.92	Y	Y	Y	Y	Y
	GE3271	Engineering Practices Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	EC3271	Circuit Analysis Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3272	Communication Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
			2.59	2.58	2.56	2.59	2.57					

SAMPLE DATA ACADEMIC YEAR 2022-2023

ECE-22-23	Attainment level	Attained Y/N
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	CODE	SUBJECT	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
	HS3152	Professional English I	2.86	2.85	2.81	2.80	2.93	Y	Y	Y	Y	Y
	MA3151	Matrices and Calculus	1.82	1.83	1.84	1.82	1.83	N	N	N	N	N
	PH3151	Engineering Physics	1.93	1.91	1.93	1.93	1.91	N	N	N	N	N
	CY3151	Engineering Chemistry	2.03	2.05	2.11	2.11	2.20	Y	Y	Y	Y	Y
SEM -I	GE3151	Problem Solving and Python Programming	1.84	1.84	1.80	1.81	1.85	N	N	N	N	N
	GE3152	Heritage of Tamils	2.86	2.87	2.82	2.82	2.86	Y	Y	Y	Y	Y
	BS3171	Physics and Chemistry Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3171	Problem Solving and Python Programming Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3172	English Communication lab	3	3	3	3	3	Y	Y	Y	Y	Y
	HS3252	Professional English - II	2.34	2.36	2.38	2.39	2.38	Y	Y	Y	Y	Y
	MA3251	Statistics & Numerical Methods	1.87	1.85	1.83	1.84	1.85	N	N	N	N	N
	PH3254	Physics For Electronics Engineering	1.74	1.76	1.79	1.75	1.76	N	N	N	N	N
	BE3254	Electronics and Instrumentation Engineering	1.81	1.83	1.81	1.82	1.85	N	N	N	N	N
SEM-II	GE3251	Engineering Graphics	2.60	2.60	2.60	2.60	2.60	Y	Y	Y	Y	Y
	EC3251	Circuit Analysis	2.23	2.23	2.25	2.25	2.57	Y	Y	Y	Y	Y
	GE3252	Tamils & Technology	2.92	2.90	2.92	2.93	2.92	Y	Y	Y	Y	Y
	GE3271	Engineering Practices Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	EC3271	Circuit Analysis Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3272	Communication Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
			2.47	2.47	2.47	2.47	2.50					

SAMPLE DATA ACADEMIC YEAR 2021-2022

	ECE-21-22		Attainment level					Attained Y/N				
	CODE	SUBJECT	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
	HS3152	Professional English I	2.87	2.88	2.89	2.90	2.92	Y	Y	Y	Y	Y
	MA3151	Matrices and Calculus	1.91	1.90	1.89	1.89	1.91	N	N	N	N	N
	PH3151	Engineering Physics	2.15	2.14	2.25	2.13	2.10	Y	Y	Y	Y	Y
	CY3151	Engineering Chemistry	2.35	2.35	2.34	2.36	2.45	Y	Y	Y	Y	Y
SEM -I	GE3151	Problem Solving and Python Programming	1.78	1.79	1.78	1.82	1.80	N	N	N	N	N
	GE3152	Heritage of Tamils	2.98	2.96	2.97	2.96	2.94	Y	Y	Y	Y	Y
	BS3171	Physics and Chemistry Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3171	Problem Solving and Python Programming Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3172	English Communication lab	3	3	3	3	3	Y	Y	Y	Y	Y
	HS3252	Professional English - II	2.54	2.56	2.54	2.57	2.58	Y	Y	Y	Y	Y
	MA3251	Statistics & Numerical Methods	1.78	1.78	1.76	1.76	1.75	N	N	N	N	N
	PH3254	Physics For Electronics Engineering	2.06	2.07	2.06	2.09	2.06	Y	Y	Y	Y	Y
	BE3254	Electronics and Instrumentation Engineering	1.84	1.85	1.82	1.83	1.81	N	N	N	N	N
SEM-II	GE3251	Engineering Graphics	2.78	2.77	2.78	2.75	2.78	Y	Y	Y	Y	Y
	EC3251	Circuit Analysis	2.45	2.45	2.25	2.25	2.57	Y	Y	Y	Y	Y
	GE3252	Tamils & Technology	2.92	2.90	2.92	2.92	2.92	Y	Y	Y	Y	Y
	GE3271	Engineering Practices Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	EC3271	Circuit Analysis Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3272	Communication Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
			2.55	2.55	2.54	2.54	2.56					

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

Total Marks 20.00

8.5.1 Indicate results of evaluation of each 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
C101	0	0	0	0	0	1.8	1	1.6	1.8	1.8	1.8	0
C102	2.8	2.8	2.8	1	0	0	0	0	0	0	2	2
C103	2.87	2.87	2.87	2.87	0	1.91	1.91	0	0	0	2.7	2.87
C104	2.6	1	0	0	0	0	0	0	0	0	1.8	1.8
C105	2.87	2.8	2.8	1	1.65	0	0	0	0	0	2	2
C106	3	0	0	0	0	0	0	0	0	2	1.8	1.8
C107	2.8	2.8	2.8	1	1.6	0	0	0	0	0	2	2
C108	2.87	2.87	2.8	2.8	0	1.91	1.91	0	0	0	2.8	2.8
C109	0	0	0	1.8	2	1	1.8	2	2	2	2	2
C110	3	2.8	2.8	1	0	0	0	0	0	0	2	2
C111	2.8	2.8	2.8	2.6	0	2	2	0	0	0	2.6	2.6
C112	3	2.8	2	2	2	2	0	0	0	0	2	2
C113	2.87	2.87	2.87	2.87	2.86	1.91	0	0	1.91	1.91	1.91	1.91
C114	2.87	1.82	1	1	1.87	0	0	0	0	0	2	2
C115	2.8	1.8	1	1	1.6	0	0	0	0	0	1.8	1.8
C116	2	0	0	0	0	0	0	0	0	0	2	2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.80	2.50	2.41	1.74	1.94	1.79	1.72	1.8	1.90	1.93	2.08	2.11
CO Attainment	2.80	2.50	2.41	1.74	1.94	1.79	1.72	1.8	1.90	1.93	2.08	2.11

PSOs Attainment:

Course	PSO1	PSO2	PSO3
C101	0	0	0
C102	1.8	1.8	1.8
C103	1.34	1.54	1.73
C104	1	0	0
C105	0	0	2
C106	0	0	0
C107	1	0	0
C108	1	1.54	1.73
C109	0	0	0
C110	0	0	0
C111	0.87	1.65	1.65
C112	1	1	1
C113	2.5	1.91	1.91
C114	1	1	1
C115	1	1	1
C116	0	0	0
PSO Attainment	1.25	1.43	1.54

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	1.25	1.43	1.54

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	2.791	2.87	It is identified that the level of attainment is moderate in a few subjects of different courses some of which are listed below 1.Engineering Mathematics 2.Circuit Analysis
ACTION: 1. The students were found lagging in analytical part. In addition to that tutorial hours are handled by two faculty members. 2. Remedial classes taken for Engineering Mathematics, Circuit Analysis			
PO 2 : Problem Analysis			
PO 2	2.497	2.58	It is identified that the level of attainment is moderate in a few subjects of different courses some of which are listed below 1.Engineering Mathematics 2.Circuit Analysis
ACTIONS: 1.The students are given seminars and assignments on the subjects such as Circuit Analysis 2.Tutorial hours were taken to solve problems and design circuits. 3.More diverse problems to be taught in extra classes. 4.Mathematics courses were strengthened by various concepts and examples so that students improved their mathematics applications.			
PO 3 : Design/development of Solutions			
PO 3	2.395	2.47	Design solutions for complex engineering problems and design system components that meet specified needs with environmental considerations
ACTIONS: A particular combination was implemented for the subject Physics and Chemistry using design of experiments (DoE) which improves the performance and curtails exhaust emanations which do not affect public health and safety.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.740	1.80	Students are encouraged to do interpretation of data through various experiment.
ACTIONS: Lectures were given on research based knowledge and motivating students to read research journal papers.			
PO 5 : Modern Tool Usage			
PO 5	1.911	2.11	PPT and Online Classes are used to improve knowledge for students
ACTIONS: 1. Seminars are conducted to demonstrate the applications of IOT			
PO 6 : The Engineer and Society			
PO 6	1.933	1.97	Students are taught the importance of contributing the engineering knowledge to the society through projects and awareness programs.
ACTIONS: 1.To understand the safety concerns and social aspects, students visited industry to expand their practical knowledge with the effect of improved practices in engineering. 2.To specify fulfilment of requirement in engineering applications in new industrial era.			
PO 7 : Environment and Sustainability			
PO 7	1.564	1.60	Students should go through case studies to analyse the problems of technology and suggest remedies
ACTIONS: 1..Initiation of tree plantation was done through Go Green Club. 2.The issues of global and environmental awareness among the student was initiated through GO GREEN club. Staff and Students have participated in plantation programme during Sept, 2023.			
PO 8 : Ethics			
PO 8	1.700	1.90	Students should understand nature and ethics follow code of conduct
ACTIONS: 1.Career orientation program, corporate lectures and motivational talks were arranged to overcome the above observations. 2.Service learning, Civic Virtue and respect for others was initiated through NSS and Women's Empowerment program.			
PO 9 : Individual and Team Work			
PO 9	1.903	1.93	Effectiveness of the student and that of team should improve for a successful engineering work
ACTIONS: 1.Classes were continued to motivate students to do innovative projects. 2.To initiate the concept of team work, technical activities such as symposium, mini projects were practised.			
PO 10 : Communication			
PO 10	1.928	1.95	communication skills are given utmost importance to illustrate the engineering applications
ACTIONS: 1.Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes. 2. The awareness created among the student regarding the Communication effectively. 3.The communication, presentation and report writing skills are to be further improved among the students. 4.Communication skills was enhanced through various activities.			
PO 11 : Project Management and Finance			
PO 11	2.076	2.20	Students were encouraged to participate in Quiz and Seminars in Mathematics club
ACTIONS: 1. Students are encouraged to participate in technical competitions right from the beginning of the course to acquire project management skills			
PO 12 : Life-long Learning			

PO 12	2.169	2.23	Students are aware of the fact that life long learning is a self-education so that they can get a place in the engineering business
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ACTIONS: 1. To encourage students to make use of Interactive Learning Tools. 2.To encourage students to do some certification courses on Technology changes, Recent Trends, Honor Degree and Communication Skills.

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

PSOs	Target Level	Attainment Level	Observations
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PSO 1 : Analyze and design analog & digital circuits or systems for a given specification and function.

PSO 1	1.228	1.25	Students show their capability and build career in the specific field to design and develop analog & digital circuits
-------	-------	------	-----------------------------------------------------------------------------------------------------------------------

ACTIONS: Efforts will be made to involve major percentage of students by offering more number of projects involving design and / fabrication towards curriculum requirement.

PSO 2 : Implement functional blocks of hardware-software co-designs for signal processing and communication applications.

PSO 2	1.430	1.55	Students develop innovative techniques to use hardware-software co-designs for signal processing and communication applications
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ACTIONS: 1. Academic workshops and conferences are coming into picture to apply more knowledge in terms of conduction of experiments and analysis the as required level. 2. Usage of different tools and designs are used to , develop/ implement, test, manufacture and maintain the electronics systems for consumer electronics/telecommunication/ optical communication/ automobile/ Industrial Equipment /Machinery control, articulate/ publish/ exhibit/ innovations/ conference, journals etc.

PSO 3 : Design, develop and test electronic and embedded systems for applications with real time constraints and to develop managerial skills with ethical behavior to work in a sustainable environment.

PSO 3	1.58	1.64	Students undergo case studies to ensure sustainable development.
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ACTIONS: 1. Practical approach of teaching method should be adapted 2. Workshops were conducted to help students manage projects efficiently and develop electronic and embedded systems with real-time applications, managerial skills, and sustainability

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

The mentoring system of DMICE is designed to provide personalized guidance and support to each student, addressing their academic, professional, and personal development needs. Mentors work closely with students to identify challenges, set goals, and track progress, ensuring they receive the necessary assistance, motivation, and resources to succeed. This system fosters one-to-one interactions, enabling students to enhance their skills, confidence, and overall growth in a structured and supportive environment.

Student Counselling Centre

The Student Counselling Centre at DMI College of Engineering (DMICE) provides a dedicated professional counsellor and a safe, supportive space on campus for students. It offers guidance on personal, academic, and career-related challenges through one-on-one sessions, helping students manage stress, anxiety, and emotional difficulties. The centre is a place where students are heard, understood, and encouraged, fostering resilience and emotional well-being. By nurturing a positive mindset and providing compassionate support, the centre plays a vital role in students overall growth, aligning with the college’s commitment to holistic education and excellence.

Mentoring Process

Each faculty member is assigned to a batch of 15 to 20 students in a class. Mentor-Student Meetings are conducted once a month in every semester. Each student are required to complete a Student history card containing details about their parents or guardian, addresses, contact numbers, and academic history, including marks from all end-semester exams and periodical tests. The class coordinators or mentors maintain these history cards. Mentors keep track of progress through the Performance Improvement Plan (PIP).

Mentoring and Counselling the Students

- To monitor student’s regularity and discipline.
- To enable parents to stay informed about the performance and regularity of their wards.
- To improve the teacher-student relationship.
- To counsel students, address their problems, and provide confidence to improve their quality of life.
- Mentors meet the students assigned to them once a month in a semester.
- Parents or guardians of students with poor attendance or performance are called to meet the mentors, and corrective and preventive measures are implemented for further improvement.
- Each mentor maintains detailed student information, which is reviewed by the Head of the Department (HOD) and other concerned authorities as need



Figure.9.1: Sample photo for Student Mentoring

STUDENT HISTORY CARD

NAME	M. SIVASCHIN
REG. NO.	20223142022
DEPARTMENT	SE - AI / MI
PERIOD OF STUDY	2022 - 2023

DMI COLLEGE OF ENGINEERING
Palanchoor, Chennai - 602 123.

Personal Details

Name	M. Sivaschin	
Department	SE - AI / MI	
Batch	2022	
Year of Admission	2022	
Register Number	20223142022	
Course Duration	4 years	
Date of Birth	07/12/2005	
Gender	Male / Female	
Religion	H / C / M / Others HINDU	
Community	OC / BC / MBC / SC / ST	
Personal Marks of	1. marks on chin	
Identification (Moles, etc.)	2. mole on left hand	
Nationality	Indian	
Blood Group	B+	
Permanent Address	37 Police line street, Sholingur, Chennai - 601102	
Communication Address	37 Police line street, Sholingur, Chennai - 601102	
Phone Number	9882810339	
E-mail Id	sivaschin0712@gmail.com	
Parent / Guardian Details		
Name of the Father	S. MOHALLI	Occupation :
Name of the Mother	V. NIRMALA	Occupation :
Contact Address	37 Police line street, Sholingur, Chennai - 601102	
Phone / Mobile Number	9882810339	

Fig 9.2 : Sample Student History Card

9.1.1 Mentoring Process Flow

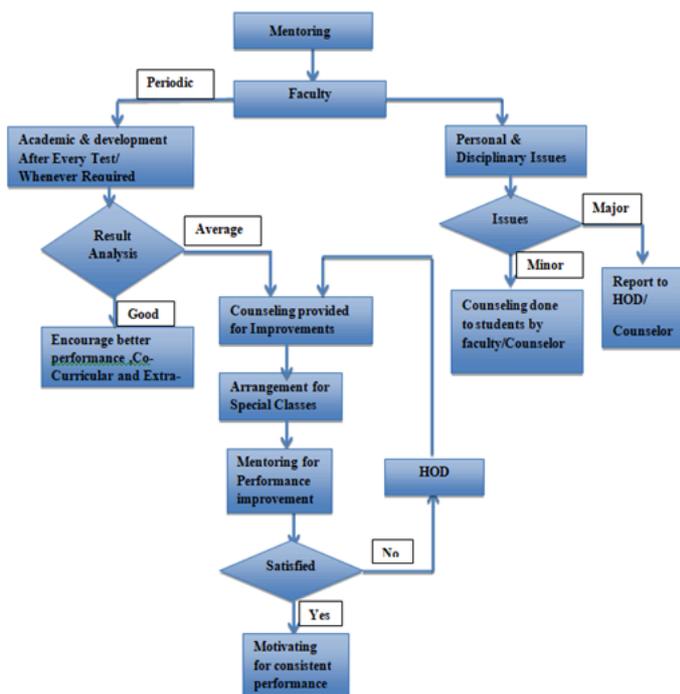


Figure.9.3: Mentoring Process

Role of Mentors

- Ensure that students understand not only their commitment to their studies but also the value of contributing to the professional community and society.
- Keep track of students’ progress and achievements, set milestones, and acknowledge their accomplishments.
- Observe students from diverse cultural and ethnic backgrounds and adopt productive methods to support their unique needs.
- Encourage students to explore new techniques and discuss concepts for better outcomes.
- Provide support and encouragement during times of emotional and physical distress, and recognize their accomplishments.

9.1.2 Policy Mechanism of Mentoring System

Table.9.1: Policies of Mentoring

Mentoring System	Description
Type of Mentoring	Professional Guidance/ Carrier Advancement / Academic Specific/ Laboratory Specific / All- Round Development/ Personal
Number of Students per Mentor	15 to 20
Frequency of Meeting	Meeting conducted every month after internal assessment by OFFLINE MODE
Parents Feedback	The Parents feedback is collected after every parents meet in the department or through phone calls.
Analysis	The feedback analysis will be referred by the HOD’s for corrective measures, through Head of the Institution

9.1.3 Outcome of Mentoring System

- Increase in student attendance and active participation in academic activities.
- Enhanced academic performance, technical skills, and engagement in extracurricular activities.
- Significant improvement in the quality and innovation of student projects.
- Development of students personality, confidence, and mental resilience.
- Greater opportunities for career advancement, including higher education prospects.
- Enhanced capability to understand, evaluate, and contribute to resolving societal challenges effectively.

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

Total Marks 10.00

Feedback Collection Frequency: Conducted twice per semester for all courses (YES/NO format).

Mode of Feedback Collection: Online Process.

Procedure

- Students from each class follow a pre-planned schedule and are guided to the computer lab for feedback submission.
- The questionnaire allows students to rate their experience as Excellent, Good, Satisfactory, Average, Poor based on their learning experience.
- Upon completion, a consolidated report is automatically generated and submitted to the Head of Department (HOD) and Principal for review.
- The final compiled report is shared with individual faculty members for feedback analysis and improvement.

DMI COLLEGE OF ENGINEERING
STUDENT FEEDBACK FORM
DEPARTMENT OF Electrical and Electronic Engineering
2024 - 2025 (ODD / EVEN SEMESTER)

SUBJECTS		EM	PLC	EDC	EIF	C-Fed	M2
1. PLANNING & ORGANISATION							
1.1	Teachers come to class in time	5	5	4	5	4	5
1.2	Teacher is well planned	4	4	5	5	5	4
1.3	Aims/Objectives made clear	5	5	4	4	5	5
1.4	Subject matter organised in logical sequence	5	4	5	4	5	4
1.5	Teacher comes well prepared in the subject	4	5	5	5	5	5
2. PRESENTATION / COMMUNICATION							
2.1	Teacher speaks clearly and audibly	4	4	4	5	5	4
2.2	Teacher writes and draws legibly	5	4	5	5	4	4
2.3	Teacher provides examples of concepts/principles Explanations are clear and effective	4	5	5	5	5	5
2.4	Teacher's pace and level of instruction are suited to the attainment of students	5	5	4	5	4	4
2.5	Teacher offers assistance and counseling to the needy students	4	5	4	5	5	5
3. STUDENTS PARTICIPATION							
3.1	Teachers asks questions to promote interaction and reflective thinking	5	4	5	5	5	5
3.2	Teacher encourages questioning/raising doubts by students and answers them well	5	4	5	5	5	4
3.3	Teacher ensures learner activity and problems solving ability in the class	5	5	5	5	5	4
3.4	Teacher encourages, compliments and praises originality and creativity displayed by students	4	4	4	4	5	
3.5	Teacher is courteous and impartial in dealing with the students	5	4	5	4	4	5
4. CLASS MANAGEMENT/ASSESSMENT OF STUDENTS							
4.1	Teacher engages class regularly and maintains discipline	5	5	4	4	5	4
4.2	Teacher covers the syllabus completely and at appropriate pace	5	5	5	5	4	5
4.3	Teacher holds test regularly which are helpful to students in building up confidence in their acquisition and application of knowledge	4	4	5	4	4	4
4.4	Teacher making of scripts is fair and impartial	4	5	5	4	5	5
4.5	Teacher is prompt in valuing and returning the answer scripts providing feedback on performance.	5	4	5	5	4	5

1. POOR 2. FAIR 3. SATISFACTORY 4. GOOD 5. EXCELLENT

Sl. No	Register Number	Name of the Student	Teacher's score in the class										Teacher's score in the lab											
			(T01)	(T02)	(T03)	(T04)	(T05)	(T06)	(T07)	(T08)	(T09)	(T10)	(L01)	(L02)	(L03)	(L04)	(L05)	(L06)	(L07)	(L08)	(L09)	(L10)		
1	2002200001	ABIRAM H	4	5	4	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
2	2002200002	ABHIRAM H	4	5	4	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
3	2002200003	ADARSH S	4	5	4	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
4	2002200004	ADARSH S	3	3	4	3	4	4	4	3	4	3	4	3	4	3	4	3	4	3	4	3	3	3
5	2002200005	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
6	2002200006	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
7	2002200007	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
8	2002200008	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
9	2002200009	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
10	2002200010	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
11	2002200011	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
12	2002200012	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
13	2002200013	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
14	2002200014	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
15	2002200015	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
16	2002200016	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
17	2002200017	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
18	2002200018	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
19	2002200019	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
20	2002200020	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
21	2002200021	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
22	2002200022	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
23	2002200023	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
24	2002200024	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
25	2002200025	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
26	2002200026	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
27	2002200027	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
28	2002200028	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
29	2002200029	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
30	2002200030	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
31	2002200031	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
32	2002200032	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
33	2002200033	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
34	2002200034	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
35	2002200035	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
36	2002200036	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
37	2002200037	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
38	2002200038	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
39	2002200039	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
40	2002200040	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
41	2002200041	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
42	2002200042	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
43	2002200043	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
44	2002200044	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
45	2002200045	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
46	2002200046	ADARSH S	4	5	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
Average			4.8	4.8	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8

Figure: 9.4 Sample Feedback (Offline and Online)

Feedback Analysis Process

- Student Participation Rate: More than 90% of students actively participate in the feedback process.

Feedback Evaluation Method:

- The collected feedback is assessed using a 5-point scale, and the average score is converted into a percentage.
- The Head of Department (HOD) and Principal conduct a detailed analysis of the feedback.
- Faculty members receive constructive feedback and necessary guidance to enhance their teaching effectiveness.
- Appropriate counselling and support are provided to staff for continuous improvement.
- We also collaborate with Performance Improvement Plan (PIP).

Table.9.2: Feedback Analysis Grading

Grading	Points
Excellent	5
Good	4
Satisfactory	3
Average	2
Poor	1

Feedback-Based Rewards & Corrective Measures

- Based on student feedback on faculty performance and result analysis, the institute implements the following rewards and corrective measures

Rewards

- Faculty feedback scores are taken into account when evaluating eligibility for rewards and responsibilities.

Corrective Measures

- Faculty members receiving a feedback score below 70% are provided counselling and guidance by the HOD and Principal to help improve their performance.
- They are encouraged to participate in Faculty Development Programs (FDPs) and other professional training sessions to enhance their teaching skills and methodologies.

Corrective Actions Taken

- Faculty members with below-average performance undergo continuous training through Faculty Development Programs (FDPs) to improve their teaching quality, instructional methods, and overall effectiveness.

9.3 Feedback on facilities (5)

Total Marks 5.00

Assessment is based on the collection and analysis of student feedback, followed by the implementation of corrective actions.

Feedback on Facilities

Our college follows a standard procedure for gathering feedback on its facilities. Students provide feedback on various amenities, including water, internet, canteen, sports, and washroom facilities. The collected feedback is analysed, and after discussions with the Management, necessary corrective actions are taken.

Feedback Preventive Action

- When complaints are received from students regarding general facilities such as the library, hostel, canteen, etc., a report is submitted to the appropriate authorities for immediate corrective measures.
- All actions taken are promptly recorded for reference and accountability.

Following is the Process of Feedback on Facilities

- Feedback Collection Process
- Feedback Analysis
- Corrective Measures

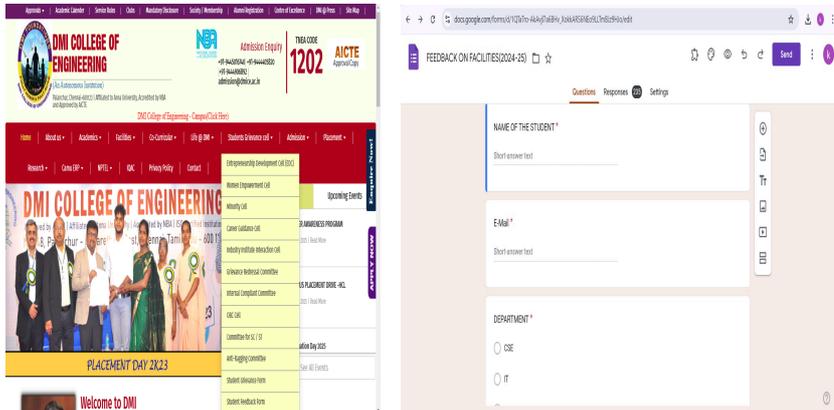


Fig 9.5:Facility Feedback on DMICE Website

1) Feedback Collection Process

Table 9.3: Details of Feedback Collection Process

Items	Description	
Feedback collected on all facilities provided by the college	YES	
Feedback Collection Process	Computerized	
Feedback Receiver	Principal / HOD/ Academic Audit Coordinator	
Frequency of Feedback Collection	Once in a year	
Metrics used for Calculation	Poor:	1
	Fair:	2
	Satisfactory:	3
	Good:	4
	Excellent:	5
Purpose of Comments	For improving the quality of facilities.	

Format of student feedback on facility

Table 9.4: Questionnaires on Facilities Feedback

S. No	Questionnaires
1	Whether the lighting and ventilation in classrooms are satisfied?
2	Whether the furniture quality and quantity is maintained?
3	Projectors and screens available in classroom?
4	Whether the cleanliness is maintained in the class room?
5	No. of Computers sufficient for all students?
6	Whether the software required is available in the lab?
7	Is Cleanliness maintained in the lab?
8	Is Food price normal?
9	Is food quantity apt with the price?

10	Is food hygiene maintained?
11	Is the food provided is quality one?
12	Is no. of washrooms sufficient?
13	Is cleanliness maintained in washrooms?
14	Availability of ample water supply?
15	Is Drinking water quality maintained?
16	Is Wi-Fi Accessible?
17	Is Net speed?
18	Enough space available to play sports in college?
19	Is there Support and promotion of sports activities by university authorities?
20	Is there Motivation from institute authorities to participate and other college fest?

Table 9.5: Rating Scale

Grading	Points
Excellent	5
Good	4
Satisfactory	3
Average	2
Poor	1

2) Feedback Analysis

The feedback given by the students is consolidated and analyzed. Principal / HOD/ Academic audit Coordinator will discuss about the consolidated report with the management and come out with necessary actions.

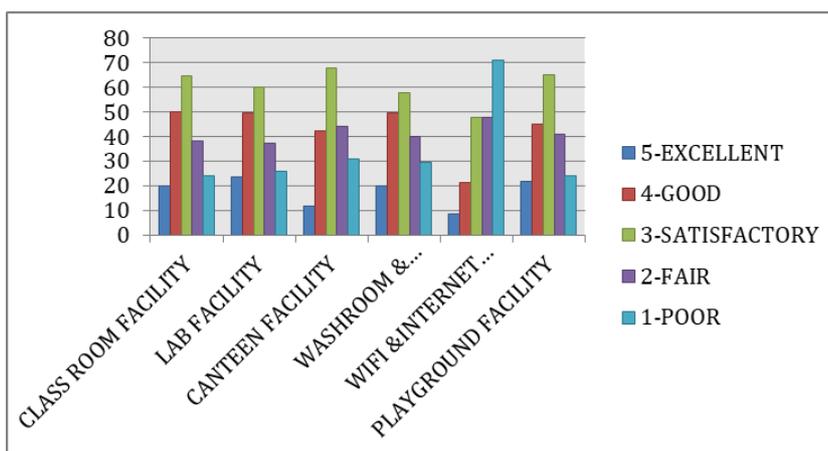


Figure: 9.6 Overall Feedback Analysis on Facilities for 2024-25

3) Corrective Measures

The college will take corrective action about the complaint by informing the facilities manager or administrator, who will then have the campus team address the issue.

9.4 Self-Learning (5)

Total Marks 5.00

Self-learning helps students develop a sense of responsibility, equipping them with essential attributes for their careers. It enables them to gain knowledge and apply it to broader domains, fostering a deeper understanding of their discipline. The college provides self-learning resources for students, including webinars, NPTEL, SWAYAM, KARMA, Google certifications and more. Additionally, self-learning encourages active participation in industrial training like implant trainings and internships. ERP CAMU is available where besides the course materials, quizzes, assignments and tutorials are uploaded to promote self-learning.

- Central Library
- Department Library
- Digital Library
- Wi-Fi Connectivity
- Course Materials uploaded on the CAMU (ERP)

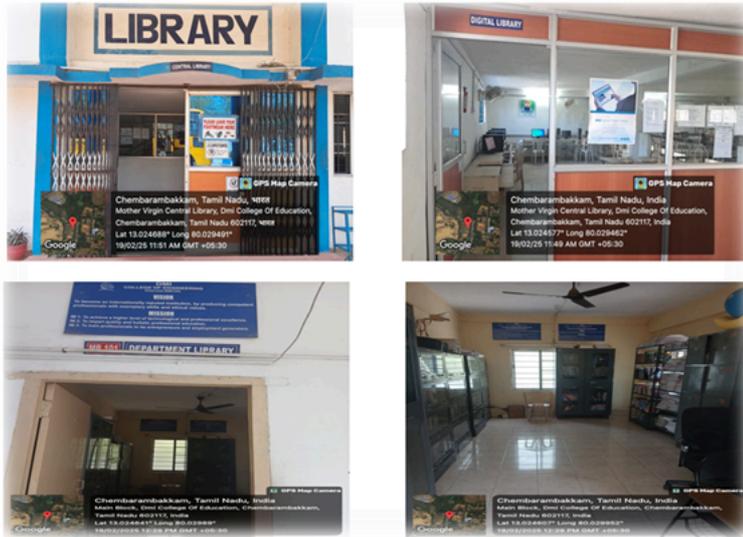


Figure.9.7: Library in DMICE

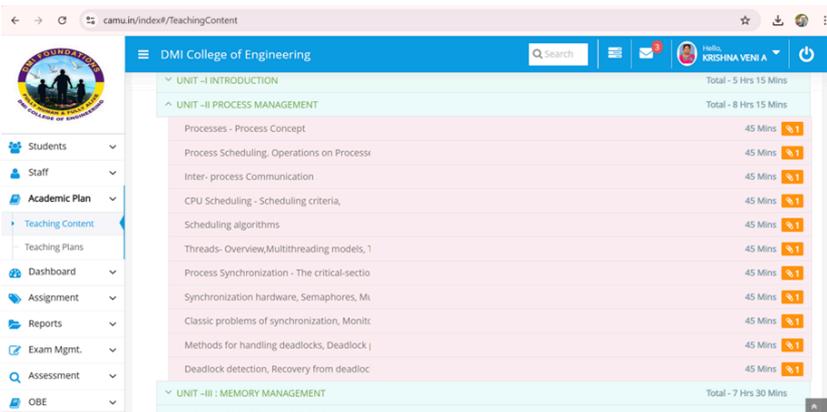


Figure. 9.8: Sample Course Material in CAMU (ERP)

Facilities

- The Central Library is well-equipped with journals and books related to subject knowledge, general knowledge, and skill development.
- The library offers web-based learning resources, including access to online journals and open-access materials through platforms like IEEE Online and DELNET.
- The institution provides access to NPTEL online courses to support student development.

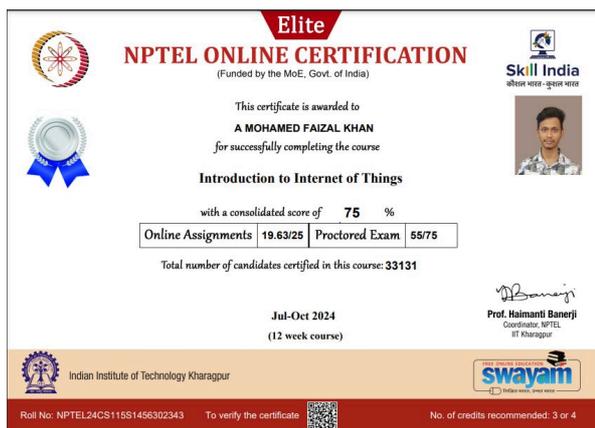


Figure. 9.9: Sample NPTEL Certificate and Sample karma Certificate



Figure 9.10 :Sample Google Course Certificate

- Students engage in online courses through platforms such as MOODLE and participate in webinars.
- Students are encouraged to participate in technical contests in other institutions.
- Students gain hands-on experience through in-plant training in industries relevant to their subjects.
- Annual industrial visits are organized to factories and companies related to current subjects, enabling students to acquire practical knowledge and learn beyond the classroom.
- Technical symposiums are conducted by each department, inviting experts in technical fields to share insights and broaden students knowledge.



Figure 9.11: A Webinar on Electronic Commerce Security

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Career Guidance

Career counselling is a vital process that helps students and professionals make informed career decisions. It enables individuals to explore career options, understand available opportunities, and assess career prospects, including earning potential.

Career Guidance Mechanism

- DMI College of Engineering conducts career assessment tests to evaluate students’ interests, strengths, aptitudes, and personality traits.
- Faculty members and industry professionals provide mentorship on career selection, higher education, and industry trends.
- Career counselling sessions and workshops with industry experts enhance awareness of job roles and skill requirements.
- Internships, training programs, and on-the-job experiences improve students employability and career preparedness.

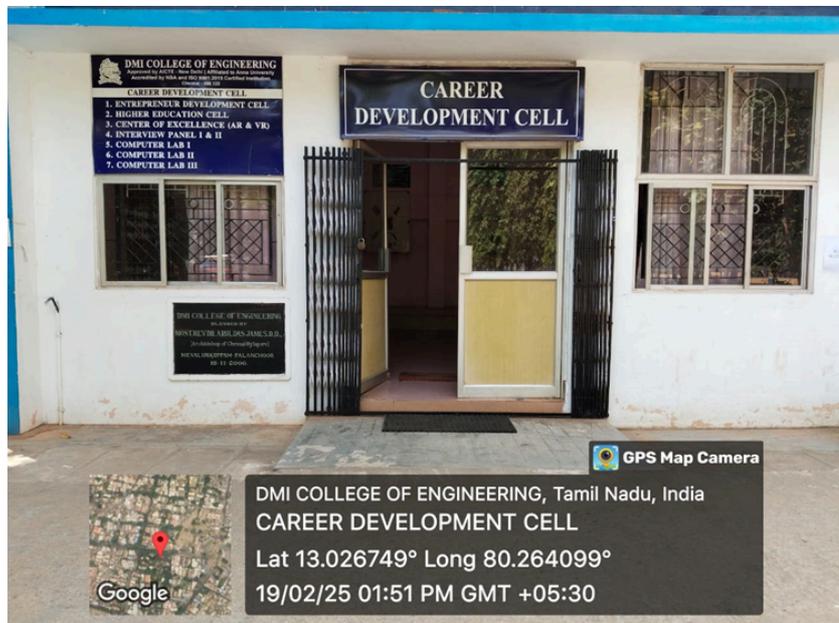


Figure. 9.12: Career Guidance Cell

Training and Placement

DMI College of Engineering has established a dedicated Training and Placement Cell, led by the Placement Officer and a department coordinator from each department. This Cell plays a crucial role in securing job placements for eligible students while striving to improve the average and highest salary packages each year.

Key Responsibilities and Activities:

- Actively connects with industries across the country to arrange placement talks and recruitment processes.
- Develops and systematically imparts comprehensive study materials covering Quantitative Aptitude, Reasoning, Verbal Ability, Personality Development, and Presentation Skills to enhance career readiness and professional competence.
- Conducts regular mock interviews to prepare students for real-world placement scenarios.
- Organizes training programs to enhance students employability and career readiness.
- Collects feedback from recruiting companies at the end of each placement process to improve career competency development programs.

Table 9.6: Placement Details

S.NO	YEAR	NO.OF STUDENTS PLACED	HIGHER EDUCATION	ENTREPRENEUR	TOTAL
1	2023-24	295	8	1	304
2	2022-23	277	6	2	285
3	2021-22	290	17	2	309
TOTAL		862	31	5	898

9.6 Entrepreneurship Cell (5)

Total Marks 5.00

- The Entrepreneur Development Cell (EDC) at DMI College of Engineering fosters an entrepreneurial culture, encouraging innovation among students and faculty. It serves as a platform to equip aspiring entrepreneurs with the knowledge and skills to transform ideas into successful ventures.
- The EDC regularly hosts industry experts for guest lectures, offering insights into business strategies, start-up management, and success stories. These interactions help students develop an entrepreneurial mind-set and innovative thinking.
- Led by Dr. R. UmaMaheswari, Associate Professor, ECE, along with faculty coordinators from various departments, the EDC provides mentorship, training, and resources to empower students to innovate, take risks, and contribute to economic growth.
- Our College is an active partner of Wadhvani foundation that focuses on accelerating job growth.

Table 9.7: Activities of EDC

S. No	ED EVENT	GUEST SPEAKER	EVENT DATE
1	ED Bazaar	Mrs. BoomaSubbarao	15/03/2024
2	Entrepreneurship Challenges	Mr. VijayaKomagan	26/09/2023
3	Be You	Mr. Lion Kishore Srinivasan	22/09/2023
4	Developing & Implementing strategies plans for Business Growth	Mr. Rajeshkumar Ravichandran	12/09/2023
5	Funding Opportunities for New Entrepreneurs	Dr. P Anandhan- Asst. Professor/ Senior Grade 2 at VIT, Chennai.	04/03/2023
6	Innovation & Entrepreneurship	1.Prof.Dr.C.B.Ragothaman	28/02/2023
		2.Dr.Sankaraman-Professor	
7	Budding Entrepreneur	Mr. Mohan Ram, Founder and Director of &IEQS.	02/12/2022
8	Nuances in Entrepreneurship	Mr. Thompson Abraham, Entrepreneur, Freelancer.	17/09/2022
9	Being an Entrepreneur	Mr. G.K. Narayanan, Director, Joyce Inftratech Ltd & Joyce Power International Pvt. Ltd, Singapore.	13/02/2022
10	Entrepreneurship Awareness Programme	1.Dr. Daniel Chellappa-Eminent Nuclear scientist, Dr. KLS	23/03/2022
		2.Dr. KLS Reddy, IEDS, Asst. Director-MSME-DI	
		3.Shri Leela Krishnan-Asst. Director-MSME-DI,	
11	Unleashing the new trends of an Entrepreneur	Mr. S. Pandian, Founder, Kathir Sudhir Automation Pvt. Ltd	26/10/2021



Figure 9.13: “Developing and Implementing Strategic Plans for Business Growth” held on 12/09/23

9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

Co-Curricular and Extra-Curricular Activities

DMI College of Engineering recognizes the significance of co-curricular and extra-curricular activities in fostering the holistic development of students. The institution provides various opportunities and resources to encourage student participation in technical, cultural, and professional activities.

Co-Curricular Activities

- Students are encouraged to engage in paper presentations, project displays, and technical competitions through professional societies, department associations, and clubs.
- Technical symposiums, workshops, and guest lectures are organized annually, ensuring active student participation.
- Specific courses and assignments integrate co-curricular activities into the academic curriculum to enhance practical learning.
- Departments host student associations that conduct conferences, seminars, and workshops.
- The college houses student chapters of professional organizations such as ISTE, IEEE, CSI, SAE, IAEng fostering networking and skill development.
- Students are motivated to participate in technical symposiums, seminars, and cultural fests at other institutions, enhancing their exposure to industry trends and innovations.
- The college encourages students to organize and participate in national-level symposiums, cultural events, and technical fests.
- Our College has various department wise clubs to encourage students actively participate in the club activities.

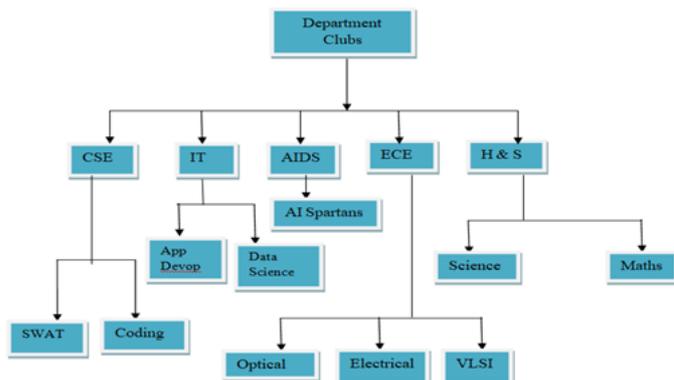


Figure. 9.14: Department Clubs

Table 9.8: Department Clubs

DEPARTMENT	NAME OF THE CLUB
AIDS	AI SPARTANS Club
CSE	SWAT Club
	Coding Club
ECE	Electronics Club
	Microwave Club
	VLSI Club
EEE	Energy Club
	Dr. Abdul Kalam Club
IT	App Development Club
	Data Science Club
MECH	Robotics Club
	SAE Club
	Additive Manufacturing Club
S&H	Science Club
	Maths Club

Extra-Curricular Activities

Clubs for Social Activities or Connect

1. National Service Scheme (NSS)

The NSS unit at DMI College of Engineering plays a crucial role in nurturing responsible and compassionate citizens. Comprising dedicated volunteers, the unit promotes a spirit of service, empathy, and community engagement.

NSS provides students with valuable opportunities to understand societal challenges and develop a sense of responsibility. One of its key initiatives is a week-long special camping program in adopted villages, where students collaborate on various activities, share experiences, and take on social responsibilities to address regional and national issues.

DMI College of Engineering conducts NSS activities annually by the Anna University NSS schedule. Some of the key initiatives include:

- Tree Plantation Drive
- Swachh Bharat Abhiyan
- Traffic and General Awareness Program

- COVID-19 Awareness and Facilitation
- COVID-19 Vaccination Drive for Staff
- Plastic Eradication Awareness Camp
- International Day of Yoga Celebration
- Dengue Awareness Program
- Waste Management Awareness Campaign
- Tobacco Awareness Program

Through these initiatives, the NSS unit instills a strong sense of social responsibility and service, empowering students to make meaningful contributions to society.



Figure 9.15: Tree Plantation at DMICE

Table 9.9: NSS Activities

S. NO	NSS EVENT	CHIEF GUEST	EVENT DATE
2024-25			
1	Tree Plantation Program	Principal Dr.Azhagesan, Rev. Sr. Pradeepa	05/06/2024
2	International Yoga Day	Ms. Anne Williams	21/06/2024
3	Eye and Dental Camp	Dr.Abishek and Mr.Kiran	19/07/2024
3	Blood Donation Camp	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Jothi and Dr. Jaya Lakshmi	20/09/2024
4	Plastic Awareness Program	Principal	25/10/2024
5	Anti-Drug Awareness Program	Ms.Navarathna	06/11/2024
2023-24			
1	Voter's awareness rally	Principal	21/03/2024
2	Campus Cleaning Program	Principal	02/04/2024
3	SwachhBharat Mission	-	11/04/2024
4	Village Cleaning	-	12/04/2024
5	Temple Cleaning	-	13/04/2024
6	Plastic Awareness	-	14/04/2024
7	Special Program to Elementary School Students	-	15/04/2024
8	Medical Camp to Village People	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Kamatchi, Government Health Primary Centre	16/04/2024
9	Tobacco awareness rally	Nemam Health Inspector Mr.Vijayakumar and Mr. Ramesh, Inspector of Police	27/06/2023
10	Drug Abuse awareness Program	Nemam Health Inspector Mr.Vijayakumar and Mr. Krishna, Inspector	11/08/2023
11	Blood Donation Camp	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Kamatchi, Government Health Primary Centre	21/09/2023
12	Traffic Awareness Program	Mr.Sivam, Inspector of Police, Nazaretpet	24/11/2023
2022-2023			
1	SwachhBharat Mission	-	14/02/2023
2	Village Cleaning	-	15/02/2023

3	Temple Cleaning	-	16/02/2023
4	Plastic Awareness	-	18/02/2023
5	Special Program to Elementary School Students	-	17/02/2023
6	Blood Donation Camp	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Kamatchi, Government Health Primary Centre	21/09/2022
7	National Deworming Day	Mr.Adhisheshan	17/08/2022
8	Tree Plantation Program	Mr.Marimuthu, Lawyer, Palanchur	05/06/2022

2.Red Ribbon Club (RRC):

The Red Ribbon Club of DMI College of Engineering actively organizes various awareness programs and community initiatives to promote health and social responsibility among students. The club conducts blood donation camps, plastic awareness rallies, dengue awareness rallies, tobacco awareness programs, and rabies awareness rallies to educate and engage students in meaningful social causes. Through these initiatives, the Red Ribbon Club fosters a sense of social responsibility and encourages students to contribute to the well-being of the community. By spreading awareness on critical health and environmental issues, the club continues to make a positive impact both within the campus and beyond.



Figure 9.16: Sample Program Organized by RRC

3.LEO Club

A Leo Club is a youth organization that empowers young individuals to become active community leaders. Sponsored by Lions Clubs International, Leo Clubs offer opportunities for members to develop leadership skills, serve their communities, and build lasting friendships. With a strong focus on service, leadership, and fellowship, Leo Clubs inspire young people to create a positive impact in their communities.



Figure 9.17 Sample LEO Club Activities

4. Go Green Club

The Go Green Club at DMI College of Engineering promotes environmental sustainability through awareness, waste management, energy conservation, and green initiatives like tree plantations and clean campus drives. It organizes eco-friendly workshops, rainwater harvesting awareness, and e-waste collection to instill environmental responsibility. By fostering a culture of sustainability, the club inspires students to contribute to a greener campus and a healthier planet.



Figure 9.18: Sample Program Organized by Go Green Club

5.IGEN

The IGEN Club at DMI College of Engineering (DMICE) promotes sustainability, green energy, and environmental responsibility among students. It fosters awareness, innovation, and action through seminars, workshops, and research on renewable energy and sustainable development. The club collaborates with industry experts and organizations to provide valuable learning opportunities while encouraging student-led projects in green technology. Through community engagement and awareness drives, it instills ecological responsibility. Additionally, it offers skill development in waste management, energy conservation, and emerging green technologies. Committed to shaping future leaders in sustainability, the IGEN Club at DMICE empowers students to contribute to a greener future.



Figure 9.19 Sample IGEN program

6.Vanam

The Vanam Club of DMI College of Engineering actively collaborated with Vanam India Foundation to participate in their Short Film Competition, fostering creativity and environmental awareness among students. This initiative provided students with a platform to express their ideas through short films while strengthening their association with Vanam India Foundation. It reinforced a shared dedication to environmental and social causes. The Vanam Club continues to inspire and engage students in impactful activities, encouraging them to contribute positively to society.

7.Bhumi

Students of DMI College of Engineering partnered with Bhumi NGO to conduct an awareness program, educating the public on key social and environmental issues. As part of this initiative, students actively participated by distributing pamphlets and walking through the streets to spread awareness within the community. This initiative was a significant step toward social engagement, encouraging responsible actions and informed decision-making. Through this collaboration with Bhumi, students not only contributed to a noble cause but also developed a strong sense of civic responsibility and leadership.

Cultural Activities

Cultural activities play a vital role in student life, fostering creativity, self-expression, and holistic development. DMI College of Engineering encourages student participation in cultural, literary, and fine arts events, providing a platform to showcase talents, enhance skills, and promote traditional values. Various competitions and programs are organized annually, with outstanding students recognized during College Day celebrations.

- Encourages creativity and self-expression.
- Provides opportunities for students to showcase talents.
- Promotes cultural, traditional, and ethical values.
- Enhances personality development and networking.
- Recognizes and honours outstanding performers.



Figure 9.20: Sample Program for Cultural Activities

Sports Facilities and Activities

The college has a dedicated Physical Education Department led by a Physical Education Director, responsible for organizing sports and recreational activities. The institution provides excellent facilities for major sports and indoor and outdoor recreational activities.

A well-equipped sports facility is available, offering opportunities for students to participate in various games and sports. The available options include:

- Indoor games: Shuttle, Table Tennis, Chess, Carom.
- Outdoor sports: Cricket, Athletics, Volleyball, Basketball.

The college actively promotes a sports culture, encouraging students to engage in physical activities for overall well-being and fitness by Annual Sports Day.

Table 9.10: Available Sports Facilities

S. No	Description	Details
1.	Total area of the Play Ground	1132560 Sq. ft.
2.	Outdoor Games available	1. Ball Badminton court-1nos. 2. Basket Ball court-2nos. 3. Kabaddi Court-1nos. 4. Kho-Kho Court -1no. 5. Cricket Net's – 2 no 6. Football Field – 1 no 7. Athletics Track – 200 m 8. Throw ball – 1 no 9. Volley Ball court with Fencing-2nos.
3.	Indoor Games available	1. Badminton court -2nos. 2. Table Tennis – 1 no 3. Carom-1nos. 4. Chess-3nos.
4.	Details of Gymnasium (Fitness Equipments)	1. Four station multi gym-2 2. Weight rod-4 3. Rubber Dumb Bells-20 kgs 4. Flat Bench Press-1 5. Rubber plates-20 kgs
5.	Details of Outdoor Fitness Equipments	Parallel bar-1 No

Table.9.11: Achievements in Sports

S.NO	EVENT TITLE	POSITION	EVENT PLACE	DURATION
2023 – 2024				
1	Football	First place	P.B college of engineering	19/10/2023
2	Volleyball	Fourth place	Chennai institute of technology	05/10/2023
3	Cricket	Participated	Sri Venkateswara College of Engineering	04/10/2023
4	Basketball	Participated	Rajalakshmi College of Engineering	04/10/2023

5	Badminton Men	Participated	Sri Venkateswara College of Engineering	11/10/2023
6	Chess Men	Participated	Saveetha Engineering College	23/09/2023
7	Kabaddi	Participated	St. Joseph College of Engineering	17/10/2023
8	Table Tennis	Participated	Rajalakshmi Institute of Technology	08/10/2023
9	Badminton Women	Participated	Sri Venkateswara College of Engineering	31/10/2023
10	Chess Women	Participated	Saveetha College of Engineering	23/09/2023
11	Athletics Men & Women	First, Second and Third place	Saveetha College of Engineering	29/11/2022
12	Volleyball Women	Participated	Kings College of Engineering	26/10/2023
13	Kho-Kho	Participated	Saveetha college of Engineering	31/10/2023
14	Half Marathon	Second place	Thiruvallur District	28/08/2023
15	10km Marathon	Third place	Chennai District	15/09/2023
16	Football	Participated	Saveetha University	05/03/2024
17	Basketball	Participated	Sri Venkateswara College of Engineering	27/02/2024
18	Football	Fourth place	Sri Venkateswara College of Engineering	27/02/2024
19	Chess	Participated	Peri Engineering College	28/08/2023
20	Football	Participated	Adhiyamaan College of Engineering	03/12/2023
2022 – 2023				
1	Football	Fourth place	Saveetha College of Engineering	21/11/2022
2	Volleyball	Fourth place	Chennai Institute of Technology	24/11/2022
3	Cricket	Participated	Sri Venkateswara College of Engineering	27/10/2022
4	Basketball	Participated	Rajalakshmi College of Engineering	23/09/2022
5	Badminton Men	Fourth place	Sri Venkateswara College of Engineering	18/11/2022
6	Chess Men	Participated	Saveetha Engineering College	08/08/2022
7	Kabaddi	Fourth place	St. Joseph College of Engineering	15/10/2022
8	Table Tennis	Participated	Rajalakshmi Institute of Technology	10/09/2022
9	Badminton Women	Participated	Sri Venkateswara College of Engineering	08/11/2022
10	Chess Women	Participated	Saveetha College of Engineering	23/09/2022
11	Athletics Men & Women	Second and Third place	Saveetha College of Engineering	23/10/2023
12	Karate	First place	Kanyakumari District	04/12/2022
13	Cricket	Participated	Sathyabama university	17/04/2023
14	Basketball	Participated	Sri Venkateswara College of Engineering	24/02/2022
15	Volleyball	Second place	Saveetha School Mgt	16/02/2023
2021 – 2022				
1	Football	Participated	Saveetha College of Engineering	19/11/2021
2	Volleyball	Third place	Chennai Institute of Technology	24/11/2021
3	Cricket	Participated	Sri Venkateswara College of Engineering	05/12/2021

4	Basketball	Participated	Rajalakshmi College of Engineering	10/09/2021
5	Badminton Men	Fourth place	Sri Venkateswara College of Engineering	23/01/2021
6	Chess Men	Participated	Rajalakshmi Institute of Technology	08/09/2021
7	Kabaddi	Third place	St. Joseph College of Engineering	13/11/2021
8	Table Tennis	Participated	Rajalakshmi Institute of Technology	11/10/2021
9	Badminton Women	Participated	Sri Venkateswara College of Engineering	08/11/2021
10	Chess Women	Participated	Saveetha College of Engineering	16/10/2021
11	Athletics Men & Women	Second and Third place	Saveetha College of Engineering	29/11/2021
12	Athletics	Second Place	Kancheepuram District	14/04/2022
13	Athletics	Second Place	Thanjavur District	09/10/2021

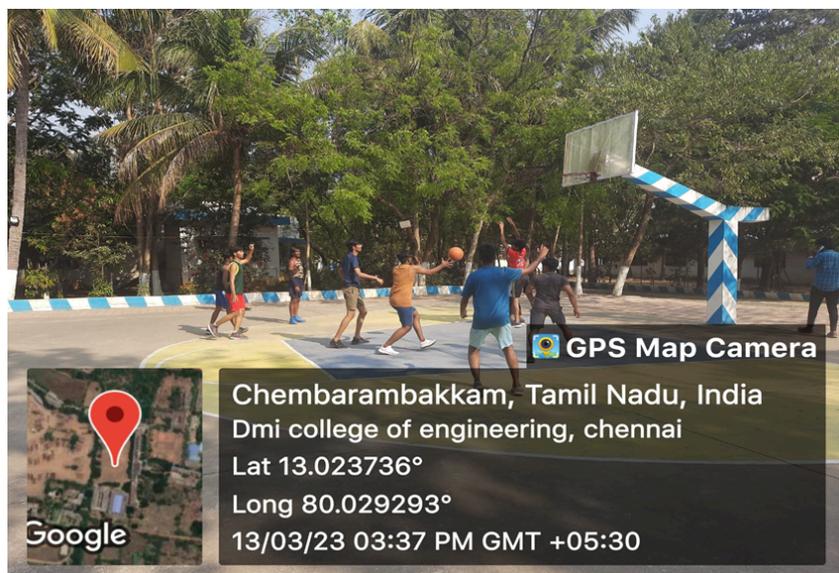


Figure 9.21: Sample Photo for Sports Activities

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 :**Vision of the Institute**

To become an internationally reputed institution by producing competent professionals with exemplary skills and ethical values.

Mission :**Mission of the Institute****IM 1:** To achieve higher level technological and professional excellence.**IM 2:** To impart quality and holistic professional education.**IM 3:** To train professionals to be entrepreneurs and employment generators.**10.1.2 Governing body,administrative setup,functions of various bodies,service rules, procedures, recruitment and promotional policies (10)**

Institute Marks : 10.00

DMI College of Engineering consists of the following Academic and Administrative Bodies

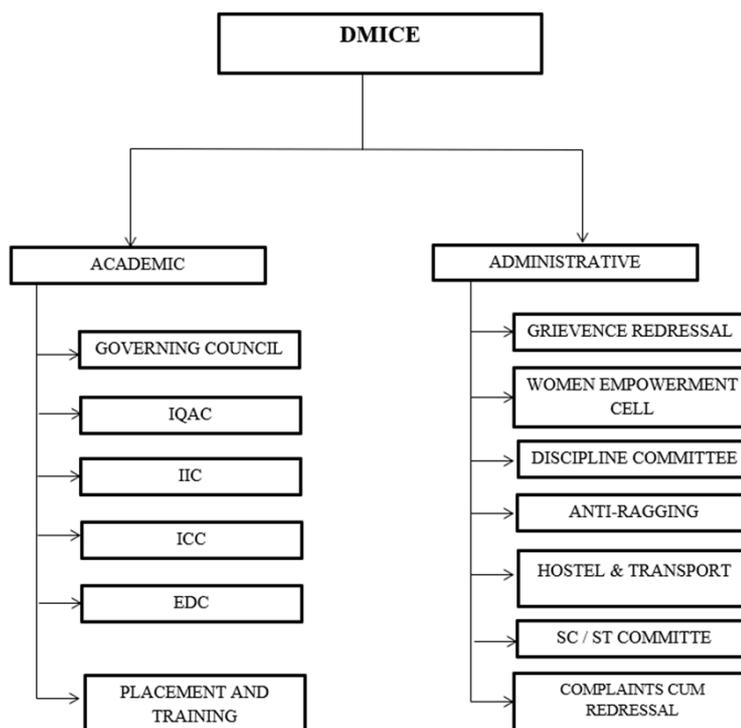


Figure 10.1: Academic and Administrative Body in DMICE

ACADEMIC BODIES

GOVERNING COUNCIL

The governing Council has been constituted as per the guidelines of AICTE and Anna University to guide and advise the management in running the Engineering College efficiently. This council consists of Educationalists and Industrialists Administrators.

Roles and Responsibilities of Governing Council

- To monitor the academic and other related activities of the College.
- To consider the recommendations of the Staff Selection Committee
- To consider the important communications and policy decisions received from the University, Government, AICTE, etc.
- To monitor the students and faculty development programmes
- To consider the recommendations of the Planning and Monitoring Board of the college for implementation.
- To pass the annual budget of the college.

Table 10.1: Governing Council Members

S. No.	Name of the Member	Position in GC	Category
1	Rev. Fr. Dr. J. E. Arulraj Founder (DMI Foundations)	Chairman	Members of the Management
2	Rev. Sr. S. Gnanaselvam, Managing Trustee	Member	
3	Rev. Sr. M. K. Teresa, Correspondent	Member	
4	Rev. Sr. S. Xavier Selvi In-charge of Higher Education DFT Group of Institutions	Member	
5	Rev. Sr. Dr. K. Sandhiyagu Mary, Correspondent, DFT Group of Institutions	Member	
6	Dr. M. A. Leo Vijilious Director	Member	
7	Dr. L. M. Merlin Livingston Director	Member	

8	Dr. V. L. Raja Controller of Examination Department of Mechanical Engineering	Member	Teachers of the College
9	Dr. K. Kalai Kumar Associate Professor Department of AI&DS	Member	
10	Dr. V. Subbiah Bharathi Vice Chancellor, St. Joseph University	Member	Educationist – Management Nominee
11	Mr. Ganesh Thirunavukkarasu, Regional Head-Academic Alliances, Tata Consultancy Services, Chennai	Member	Industrialist – Management Nominee
12	Regional Officer Southern Regional Office, AICTE, Chennai	Member	AICTE (Southern Region) Nominee
13	Dr. S. Letitia, Professor, Department of ECE, Thanthai Periyar Government Institute of Technology, Vellore.	Member	State Government Nominee
14	Dr. M. A. Bhagyaveni, Professor, Department of ECE, College of Engineering, Guindy Anna University, Chennai	Member	University Nominee
15	Dr. Sujatha Jamuna Anand	Member Secretary	Principal of the College

***Frequency of Meeting - Every year in May**

Minutes of Meeting for Governance Council

The inaugural meeting of the Governance Council took place in the Chairmans office. The Chairman welcomed all members, introduced them to one another, and emphasized the significance of this first gathering. He informed the members that the Management has provided excellent infrastructural facilities to the College, marking a strong beginning. He acknowledged and appreciated the dedicated efforts of the Faculty and Principal for achieving commendable academic results. He expressed his hope that the Institute would continue to uphold its standing and strive for further improvement in its outcomes.

Chairman and Members Present:

 DMI COLLEGE OF ENGINEERING Palasur - Nararethpet P.O., Chennai - 600 123 Approved by AICTE - New Delhi, Accredited by NBA, Affiliated to Anna University - Chennai		Doc. No	DMICE/ GC/085
FIFTH MEETING OF THE GOVERNING COUNCIL ACADEMIC YEAR 2023 - 24			
MEETING DATE	11.05.2024	VENUE	CONFERENCE HALL, TIME 10.30 a.m

Sl. No	Name of the Member	Position in GC	Category	Signature
1	Rev. Fr. Dr. J. E. Arulraj Founder (DMI Foundations)	Chairman	Members of the Management	
2	Rev. Sr. S. Gnanasekhar Managing Trustee	Member		
3	Rev. Sr. M. K. Teresa Correspondent	Member		
4	Rev. Sr. S. Xavier Selvi In-charge of Higher Education DFT Group of Institutions	Member		
5	Rev. Sr. Dr. K. Sundhaya Mary, Correspondent, DFT Group of Institutions	Member		
6	Dr. M. Suresh Director	Member		
7	Dr. M.A. Leo Vigilious Director	Member		
8	Dr. L.M. Merlin Livingston Director	Member		
9	Dr. T. Senthil Kumar Dean (Examinations) Department of Mechanical Engg	Member	Teachers of the College	
10	Dr. Valantina Stephen Associate Professor & Head Department of ECE	Member		

Figure 10.2: Attendance for Governance Council Meeting

INTERNAL QUALITY ASSURANCE CELL (IQAC)

- Promoting a learner-centric environment that supports quality education and helps faculty adopt the necessary knowledge and technology for a participatory teaching and learning process.
- Organizing feedback collection from students, parents, and other stakeholders regarding quality-related institutional processes.
- Documenting various programs and activities that lead to quality enhancement.
- Serving as the institutions central agency for coordinating quality-related activities, including the adoption and dissemination of best practices, and fostering a culture of quality within the institution.
- Preparing the Annual Quality Assurance Report (AQAR) according to NAAC guidelines and parameters for submission to NAAC.
- Disseminating information on various quality parameters to all stakeholders.
- Organizing inter and intra-institutional workshops and seminars on quality-related themes and promoting quality circles.

Table 10.2: Internal Quality Assurance Cell Members

Sl. No	Category	Name	Designation
1	Chair Person	Dr. Sujatha Jamuna Anand	Principal
2	Management	Rev. Sr. M. K. Teresa	Correspondent
3	Coordinator	Dr. R. Senthil Rama	Associate Professor & Head / EEE
4	Members	Mrs. S. P. Shally	Assistant Professor / ECE
5	Members	Mrs. S. Jenitha Karthiga	Assistant Professor / MBA
6	Members	Mr. T. Tamil Kumaran	Assistant Professor / Mechanical
7	Members	Mrs. P. Swarna Lakshmi	Assistant Professor / CSE
8	Members	Mrs. P. M. Steffy Teena Thushara	Assistant Professor / Civil
9	Members	Mrs. J. Jenifer	Assistant Professor / IT
10	Members	Mrs. M. Jasmin Ananthi	Assistant Professor / EEE
11	Members	Mrs. K. Tharani	Assistant Professor / S&H
12	Local Society Nominee	Ms. G. Viji Dali	Official of NGO
14	Alumni Nominee	Mr. Pravin Robert Simon	Deputy General Manager, Randstad India Pvt Ltd
15	Employers/Industrialist/Stakeholders Nominee	Mr. Rajasekar	Employer
16	Student Nominee	Mr. Magesh Krishna	Student (III CSE)

***Frequency of Meeting - Every year in the month of May and December.**

INSTITUTION INNOVATION COUNCIL

The Institution's Innovation Council (IIC) fosters a culture of innovation and entrepreneurship within the institution. It actively organizes workshops, hackathons, and mentorship programs to nurture creative ideas among students and faculty. The council collaborates with industry and government bodies to facilitate startup initiatives and research commercialization. Regular activities are conducted as per MoE Innovation Cell (MIC) guidelines to strengthen the innovation ecosystem. IIC aims to develop a vibrant entrepreneurial mindset, aligning with national innovation and startup policies.

Table 10.3: Institution Innovation Council

Sl. No	Designation	Name of the Faculty
1	President	Dr. A. Amala Mithin Minther Singh, Dean (Research)
2	Vice President	Dr. K. G. Revathi/Dean (Student Affairs)
3	Convenor	Dr. G. Tamilkumaran/Assistant Professor/MECH
4	Innovation Activity Coordinator	Dr. B. Ram Priya/Professor/EEE
5	Start-up Activity Coordinator	Dr. Shankar /Assistant Professor & HOD/MBA
6	Internship Coordinator	Dr. T. D. Sairam/Dean (Placement)/DMICE
7	IPR Activity Coordinator	Dr. W. Agitha/Assistant Professor/ CSE
8	Social Media Coordinator	Dr. V. Anbarasan/Assistant Professor/S&H
9	ARIIA Coordinator	Dr. T. Selvin Retna Raj/Assistant Professor/ECE
10	NIRF Coordinator	Dr. L. Jimson/Assistant Professor & HOD/AIML

11	Members	Dr. N. Nirmal Singh, Dean (Academics) Dr. R. Denslin Brabin, Professor & HOD/CSE Dr. R. Senthil Rama Professor & HOD/EEE Dr. R. Balamurugan, Associate Professor & HOD/IT Dr. Y. Raghu, Associate Professor & HOD/S&H Dr. Venmathi Professor & HOD/ECE Dr. K. Kalai Kumar Associate Professor & HOD/AI&DS
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***Frequency of Meeting – Occurring Every Four Months once in a Year**

INTERNAL COMPLIANCE CELL

The Internal Compliance Cell (ICC) ensures adherence to institutional policies, regulatory guidelines, and accreditation requirements. It monitors academic and administrative compliance, conducts internal audits, and addresses any deviations. The ICC facilitates regular training sessions to enhance awareness among faculty, staff, and students. It also acts as a bridge between various departments and regulatory bodies to ensure seamless compliance. Through continuous evaluation and reporting, the ICC strengthens institutional accountability and governance.

Table 10.4: Internal Compliance Cell Members

S. No	Name of Faculty	Category	Designation
1	Dr. Sujatha Jamuna Anand	Principal	Chairman
2	Dr. S. Chitradevi	Professor	Member
3	Dr. L. Jimson	Assistant Professor	Member
4	Mrs. V. Nageswari	Assistant Professor	Member
5	Mrs. J. Delphin Cinthiya	Assistant Professor	Member
6	Dr. V. Anbarasan	Assistant Professor	Member
7	Ms. A. Nadera Banu	III–AI&DS	Student representative
8	Mr. RanjithSahoo	III–Mech	Student representative
9	Rev. Fr. Williams	NGO	Ombudsman

***Frequency of Meeting – Occurring Bi-Monthly in a Year**

ENTREPRENEURSHIP DEVELOPMENT CELL

The Entrepreneurship Development Cell (EDC) fosters entrepreneurial skills and innovation among students by providing guidance, mentorship, and resources. It organizes workshops, seminars, and training programs to promote start-ups and business ventures. The cell collaborates with industry experts and funding agencies to support aspiring entrepreneurs. Various initiatives are undertaken to create a dynamic entrepreneurial ecosystem within the institution. EDC aims to nurture creativity, leadership, and self-reliance among students.

Table 10.5: Entrepreneurship Development Cell Members

Sl. No	Name of the Faculty	Department	Designation
1	Dr. Uma Maheshwari	ECE	Associate Professor
2	Mrs. Mary Varsha J	AI&DS	Assistant Professor
3	Mrs. Abisha G	CSE (AI&ML)	Assistant Professor
4	Mr. Rajthilak D	CSE	Assistant Professor
5	Mrs. Jasmine Ananthi M	EEE	Assistant Professor
6	Dr. Selvin Rethna Raj T	ECE	Assistant Professor
7	Mrs. Jenifer J	IT	Assistant Professor
8	Ms. Kayathri S	MBA	Assistant Professor

9	Mr. Saravanan P	MECH	Assistant Professor
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***Frequency of Meeting – At least Two Times in the Year and as the case may be.**

PLACEMENT AND TRAINING CELL

The Training and Placement Cell at DMI is dedicated to enhancing student employability by providing comprehensive training and career guidance. It actively collaborates with leading industries to facilitate campus placements, internships, and skill development programs. The cell conducts workshops, mock interviews, and technical training to prepare students for competitive job markets. Through continuous industry interaction, it ensures excellent placement opportunities for students.

Table 10.6: Placement and Training Cell

Sl. No	Name	Department/Designation	Responsibility
1	Dr. T. D. Sairam	ECE/Professor	Dean Training & Placement
2	Mrs. R. Lavanya	CSE/Assistant Professor	Member
3	Mrs. J. Jenifer	IT/Assistant Professor	Member
4	Dr. Selvin Ratna Raj	ECE/Assistant Professor	Member
5	Mr. S. O. Kaniraj	MECH/Assistant Professor	Member
6	Mrs. M. Jasmine Ananthi	EEE/Assistant Professor	Member
7	Ms. S. Jenitha Karthiga	MBA/Assistant Professor	Member

***Frequency of Meeting – Twice in a Year.**

ADMINISTRATIVE BODIES

The institution has a well-defined administrative structure that ensures smooth functioning and efficient management. It oversees key areas such as academics, student services, infrastructure, and faculty development, fostering a productive learning environment

Table 10.7: Administrative and Organizational Structure

Sl. No.	Name	Designation	Responsibility
1	Rev. Fr. Dr. J. E. Arulraj Founder (DMI Foundations)	Chairman	Administration
2	Rev. Sr. S. Gnanaselvam	Member	Administration, Managing Trustee
3	Rev. Sr. M. K. Teresa	Member	Administration, Correspondent
4	Rev. Sr. S. Xavier Selvi	Member	Administration, In-charge of Higher Education, DFT Group of Institutions
5	Rev. Sr. Dr. K. Sandhiyagu Mary	Member	Administration, Correspondent, DFT Group of Institutions
6	Dr. N. Nirmal Singh	Professor & ECE Dean	Dean Academics
7	Dr. K.G. Revathi	Professor & ECE Dean	Dean Student Affairs
8	Dr. A. Amala Mithin Minther Singh	Professor & HOD / Mech., Dean	Dean R & D Departmental Academic Work
9	Dr. T. D. Sai Ram	Professor & ECE	Dean Training and Placement
10	Dr. D. R. Denslin Brabin	Professor & HoD / CSE	Dean CSE Departmental Academic Work

11	Dr. R. Senthil Rama	Associate Professor & HOD, EEE	IQAC Coordinator Departmental Academic Work
12	Dr. A. R. Venmathi	Professor & HOD, ECE.	Departmental Academic Work
13	Dr. K. Kalai Kumar	Associate Professor & HOD, IT.	Departmental Academic Work
14	Dr. L. Jimson	Assistant Professor & HOD / AI&ML	Departmental Academic Work, NIRF coordinator
15	Mr. G. Aruna Giri	Assistant Professor, MBA Co-Ordinator	Departmental Academic Work
16	Dr. Y. Raghu	Professor & HOD, S&H	Departmental Academic Work
17	Mrs. V. Vishnu Priya	Professor & HOD, Mathematics	Departmental Academic Work
18	Mrs. S. Chitra Devi	Professor & HOD, Chemistry.	Departmental Academic Work
19	Mr. K. S. Kamaraj	Assistant Professor	NSS / RED CROSS Coordinator
20	Mr. Anto Pathrose	Warden	Boys Hostel Warden
21	Miss. A. Anitha	Warden	Girls Hostel Warden
22	Mr. M. Prakash	Librarian	Library
23	Dr. Uma Maheshwari	Assistant Professor	Entrepreneur Development Cell
24	Mr. I. Kumar	Assistant Professor	Physical Director

GRIEVANCE REDRESSAL COMMITTEE CELL

An exclusive department, led by the Principal and supported by a team of faculty members, is dedicated to addressing student grievances.

- Grievances of students related to academics and personal grievances of students within campus and hostel may be addressed to the committee.
- The tenure of the members shall be two years.
- The quorum for the meeting shall be three including chairperson.
- The committee shall follow the principles of natural justice while considering the grievances of students.
- The committee shall send the report and recommendations to the Management within a period of 15 days of receiving the complaint.
- The following list of members constitutes the Women grievance redressal & POSH committee.

Table 10.8: Grievance Redressal Committee Members

S. No	Name of Faculty	Category	Designation
1	Dr. Sujatha Jamuna Anand	Principal	Chairman
2	Dr. S. Chitradevi	Professor	Member
3	Dr. L. Jimson	Assistant Professor	Member
4	Mrs. V. Nageswari	Assistant Professor	Member
5	Mrs. J. Delphin Cinthiya	Assistant Professor	Member
6	Dr. V. Anbarasan	Assistant Professor	Member
7	Ms. A. Nadera Banu	III-AI&DS	Student representative
8	Mr. RanjithSahoo	III-Mech	Student representative
9	Rev. Fr. Williams	NGO	Ombudsman

***Frequency of Meeting – Bi-Monthly in a Year.**

WOMEN EMPOWERMENT CELL

The Women Empowerment Cell has been active in the college since 2005, dedicated to empowering female students, enhancing understanding of issues related to women, and ensuring a safe campus for female students and faculty members. The cell aims to address women's issues and problems by creating awareness of their rights and duties. It provides a platform for women to share their experiences and views on their societal status and suggest ways to improve and empower themselves. Focused on the intellectual and social upliftment of female students, the cell facilitates women's empowerment through guest lectures, seminars, awareness programs, and other welfare activities. The responsibilities of the Women Empowerment Cell include adhering to the mandatory guidelines and directions of Anna University, Chennai, regarding security arrangements for female students and staff at our institution.

Objectives

- To promote a culture of respect and equality for the female gender.
- To conduct seminars, and workshops to impart knowledge of opportunities and tools available and train the women.
- To create a conducive counselling environment for the female gender to share their problems.

Initiatives

- Educating the teaching and non-teaching staff and students towards gender sensitization.
- Counselling services.
- Provision of opportunities and programs for the female gender to be mentally and emotionally empowered to promote their growth as individuals in their own right.
- Conducting various competitions to encourage their artistic talents for creative thinking
- Gender Audit.

Table 10.9: Women Empowerment Cell Members

Sl. No	Name	Category/Role in the Committee	Designation
1	Dr. Sujatha Jamuna Anand	Ex-Officio Member	Principal
2	Rev. Sr. M. K. Teresa	Management	Correspondent
3	Dr. Immaculate Geetha	Member Secretary	Professor, S & H
4	Dr. K.G. Revathi	Member	Dean- Student Affairs
5	Dr. R. Senthil Rama	Member	HOD/EEE

***Frequency of Meeting – Twice in a Year.**

DISCIPLINE COMMITTEE

Functions of Discipline and Welfare Committee

The main functions of the Discipline and Welfare Committee are as follows,

- Indiscipline in the College campus and hostel premises.
- Complaints of ragging.
- Malpractices in the Examinations
- Complaints of eve-teasing and sexual harassment.
- Any other activity that may damage the discipline and harmony of the College.
- To visit periodically the campus of the College, including the hostels to recommend improvements in amenities and maintenance of students and facilities.

Table 10.10: Discipline Committee Members

S. No	Name	Category/Role in the Committee	Designation
1	Dr. Nirmal Singh N	Member	Dean-Academics
2	Dr. Denslin Brabin D. R	Member	HoD-CSE
3	Dr. Sujatha Jamuna Anand	Ex-Office Member	Principal
4	Dr. Kavitha Dhas M	Member	Senior Faculty
5	Dr. Anbarasan V	Member	Student Counsellor (Staff)
6	Dr. Senthil Rama R	Member	Lady Faculty Member
7	Ms. Anitha A	Member	Warden/Deputy Warden of Girls Hostel
8	Mr. Anto Pathrose	Member	Warden/Deputy Warden of Boys Hostel

***Frequency of Meeting – Bi-Monthly in a Year.**

ANTI-RAGGING COMMITTEE

- Primary responsibility for curbing ragging.
- Ragging adversely impacts the standards of higher education.
- Enrolment in academic pursuits or campus life should not immunize any adult citizen from the penal provisions of the laws of the land.
- Behavioural patterns among students, particularly potential raggers, need to be measured against ragging must deter its recurrence.

Table 10.11: Anti-Ragging Committee Members

Sl. No	Name	Category	Present Designation / Occupation
1	Dr. Sujatha Jamuna Anand	Chairman	Principal
2	Mr. Jayachandran V	Member	Police Department
3	Ms. Thasildhar G	Member	Revenue/ Taluk /Civil Officer
4	Ms. Viji Dali G	Member	Official of NGO
5	Mr. Christopher Ravi S	Member	Representatives of Parents
6	Mrs. Johnsirani R	Member	Representatives of Parents
7	Mr. Freedom Demi C	Member	Representatives of Students
8	Ms. Arudevi C	Member	Representatives of Students
9	Mr. Kumar I	Member	Representatives of Non-Teaching

***Frequency of Meeting – Bi-Monthly in a Year.**

HOSTEL AND TRANSPORT COMMITTEE

The Hostel and Transport Committee at DMICE ensures a safe, comfortable, and efficient living and commuting experience for students. The hostel facilities provide a well-maintained, secure, and hygienic environment, fostering academic and personal growth. Round-the-clock security, Wi-Fi, medical assistance, and nutritious meals contribute to a homely atmosphere. The committee regularly inspects hostel amenities, addressing student concerns promptly.

For transportation, the committee oversees a fleet of well-maintained buses covering key locations, ensuring punctual and safe travel. Strict adherence to safety protocols and periodic vehicle maintenance enhances reliability. The transport services cater to both students and faculty, facilitating smooth academic operations. Regular feedback and route optimization improve efficiency. The committee remains committed to continuous enhancement, aligning with NBA quality standards.

Table 10.12: Hostel Committee Members

S. No	Name	Category	Designation
1	Mr. Anto Pathrose	Member	Boys Hostel Warden
2	Dr. N. Nirmal Singh	Internal Member	Dean Academics
3	Mr. D. Jeba Kingsley	Internal Member	Assistant Professor
3	Miss. A. Anitha	Member	Girls Hostel Warden
4	Mrs. Stella Mary	Internal Member	Assistant Professor
5	Mrs. J. Mary Varsha	Internal Member	Assistant Professor

SC/ST COMMITTEE

The SC/ST Committee ensures inclusivity and equal opportunities for students from Scheduled Castes (SC) and Scheduled Tribes (ST). It addresses grievances, promotes awareness of government policies, and organizes support programs. The committee fosters a discrimination-free campus environment. Regular meetings and initiatives enhance student welfare and academic growth.

Table 10.13: SC/ST Committee

Sl. No	Name	Category	Designation
1	Mr. K. S. Kamaraj	Member	Assistant Professor
2	Ms. Abisha	Member	Student

3	Mr. Victor	Member	Student
4	Mr. Krishnamoorthy N	Member	Assistant Professor
5	Dr. Anbarasan V	Member	Assistant Professor

COMPLAINTS CUM REDRESSAL COMMITTEE

The Complaints cum Redressal Committee ensures a fair and transparent mechanism for addressing grievances within the institution. It handles complaints related to academic, administrative, and student welfare issues, ensuring timely resolution. The committee follows a structured process for investigating and addressing concerns in accordance with institutional policies. Regular meetings are conducted to review grievances and suggest improvements. The committee promotes a harmonious and student-friendly environment by upholding justice and accountability.

Table 10.14: Complaints Cum Redressal Committee Members

Sl. No	Category	Name	Designation
1	Chairperson	Dr. Sujata	Principal
2	Member	Dr. K. G. Revathi	Dean / Student Affairs
3	Member	Mrs. M. Maheswari	Associate Professor
4	Member	Dr. K. Kalai Kumar	Associate Professor
5	Student Representative	Mr. Fedric	IV Year / CSE
6	Student Representative	Ms. Mahalakshmi	IV Year / ECE

***Frequency of Meeting – Every Month in a Year.**

SERVICE RULES

1. PREAMBLE:

1.1. These rules shall be called the DMI College of Engineering, Chennai "Service, Conduct and Leave Rules" (Governing the conditions of service of Teaching and Non-Teaching staff)

1.2. The rules shall come into force from immediate effect.

2. DEFINITION

2.1. College

College means DMI College of Engineering Chennai, established and managed by Society of Daughters of Mary Immaculate & Collaborators.

2.2. Management

Management means the Society of Daughters of Mary Immaculate & Collaborators represented by the Chairman and President.

2.3. Governing Body

Governing Body means the Governing Body of DMI College of Engineering Chennai which has been constituted in accordance with the provisions laid down in this respect by All India Council of Technical Education.

2.4. University

University means Anna University, Chennai - 600025.

2.5. Principal

Principal of the college is the head of the institution authorized by the Management to discharge the duties and responsibilities of the Principal.

2.6. Employee

Employee includes all employees, without exception performing whatsoever function assigned to him/her and is in the whole or part time employment of the College, whether such employment is probationary, temporary, and permanent.

2.7. Teaching Staff

The teaching staff comprise of the following categories.

- Principal
- Deans
- Head of the Department
- Professor
- Associate Professor
- Assistant Professor
- Any other category of post declared so by the Executive Body.

2.8. Non-Teaching Staff

Non - Teaching staff means those categories of staff, that are not categorized under the teaching staff shall be deemed to be non-teaching staff.

2.9. Competent Authority

(a) Chairman/President of the Executive Body in case of Principal

(b) Principal in case of other employees.

2.10. Duty

An employee is considered to be on "duty" for the purpose of service benefits:

- When the employee is discharging the duties of the post to which he/she is appointed or is undergoing training prescribed for the post.
- When the employee is absent from duty on authorized holidays or permitted vacation, or when availing of leave other than extraordinary leave sanctioned by the competent authority.
- When the employee is attending conferences, seminars, or workshops duly permitted by the competent authority.
- When the employee is attending to the work assigned to him/her by the competent authority within the institution.

2.11. Leave

Leave means leave, granted by the appropriate authority to an employee, to which he/she is eligible.

2.12. Pay

Pay means Basic Pay in the time scale or Basic Pay with Dearness Allowance and other Allowances as the case may be.

2.13. Year

Year means Calendar Year/Financial Year/Academic Year as the case may be.

3. APPOINTMENT SELECTION AND PROBATION

3.1. Appointments

The President/ Principal is the competent authority to appoint any employee based on the recommendations of the selection board. The appointment orders shall be issued by the Management.

3.2. Qualifications

The qualifications, age, experience etc., shall be as per AICTE / UGC norms in respect of teaching and non-teaching staff.

3.3. General Procedure of Recruitment (Appointment Rules)

3.3.1. All posts at the Institute shall normally and, as far as possible, be filled by advertisement; but the Governing Body shall have the exclusive power to decide, either on its own or on the recommendations of the Principal, that a particular post be filled by invitation or by promotion from amongst the members of the staff of the College.

All appointments on the staff of the College shall be made only by the Governing Body of the College, through its Chairman or authorized by the Governing Body.

The manpower requirement shall be ascertained based on the desirable norms prescribed by AICTE/University or the appropriate authority from time to time. Additional posts may also be created, as required, for the extension of specific projects and or research and development activities.

3.3.2 The Selection Committee shall include

a. In the case of recruitment of the Head of the College

- The Chairman/ President
- The Correspondent
- An Educationist
- The Principal from other Institutions

b. In the case of recruitment of teaching faculty

- The Correspondent
- The Principal
- The Head of the Departments of the college,
- A Subject expert/Industrial Expert.

c. In the case of recruitment of clerical staff/lab assistants

- The Correspondent
- The Principal
- The Head of the Departments of the college.

d. In case of recruitment of Maintenance Staff

- The Correspondent
- The Principal

3.3.3 Selection Procedures

- The following procedure is followed in the selection of faculty members in various departments.
- Heads of Departments (HODs) forward the staff requirement details to the Principal, considering additional workload or staff leaving the institution.
- After consolidating the requirements from various departments, the Principal, with the concurrence of the Correspondent, arranges for publishing advertisements.
- The applications received from candidates are scrutinized by the Heads of Departments. Applicants who meet the qualifications and experience requirements are called for an interview.
- The selection process consists of three stages.
- Screening test.
- Personal interview on technical and general aspects by the Staff Selection Committee
- Final interview by the Principal and Correspondent.
- Appointment orders are issued to the selected candidates after approval by the Governing Council (GC) and receipt of their joining letters.

3.3.4 Conditions of Appointment

- Staff members are entitled to leave as per the institutions rules. They will be subject to the institutions regulations, including those on conduct, discipline, administrative orders, and other directives from DMI College of Engineering that may come into force from time to time.
- Staff members are required to bring their certificates supporting education, professional qualifications, experience, date of birth, and a relieving letter from their immediate past employer, along with one set of copies and one passport-size photograph for records at the time of reporting for verification.

- Staff members are expected to work with high standards, initiative, efficiency, and economy. They will diligently and faithfully apply themselves to the work assigned to them and follow the directions given by their superiors.
- Staff members will be responsible for the safekeeping and return of all college property in their use, custody, or charge, in good condition. The college reserves the right to assess and recover damages for any lost property.
- The general details of duties and responsibilities for staff members will be provided separately by the Principal or Correspondent as needed.
- Staff appointments are contingent on the staff members being declared and remaining medically fit. If they are found medically unfit to continue, they will lose their job. Staff members are expected to serve a minimum of two years; however, unsatisfactory performance may result in termination with one months notice.
- Staff members wishing to leave the institution must provide three months advance notice before the end of the academic year. Acceptance of three months salary in lieu of notice is at the managements discretion. They are expected not to leave during the middle of the academic year.
- Staff members will devote their entire time to their assigned work and will not undertake any other work or business, whether for honorarium or remuneration. Any contravention may result in termination.
- In addition to teaching, staff members are required to actively participate in the colleges development processes, including seminars, workshops, research, publications, fostering the Institute-Industry Interface, and other academic activities. They should also take on additional responsibilities assigned by the Principal, Correspondent, and Chairman as needed.
- Staff members shall not disclose any information regarding the institutions activities, official matters, or any other information without specific authorization from the management.
- If a staff member is found smoking or under the influence of alcohol on campus, the management reserves the right to take appropriate action, and any such action taken shall bind the employee.
- Every employee is expected to conduct themselves under the law of the land. In case of any issue arising out of a violation of such law, the institute will not be responsible in any manner.
- As a token of their acceptance, staff members must sign the duplicate copy of the appointment letter and return it to the Management.

3.4. Probation and Confirmation

- Staff members will be placed under probation for one year from the date of joining. During the probation period, if their attendance, conduct, or work progress is not satisfactory, the employees service may be terminated. The employees appointment will be confirmed after the successful completion of the one-year probation period.
- If an employee wishes to be relieved during the probation period, they must provide three months notice in writing or three months salary, including all allowances, unless the Management grants a relaxation under special circumstances.

3.5. Termination of Service

- If an employee intends to resign after confirmation, they must provide three months notice in writing or three months salary, including all allowances.
- The Management has the power to relax the notice period or salary payment in special circumstances.

3.6. Retirement

Every employee of the College shall retire upon attaining the age of superannuation as provided by regulatory bodies like the AICTE and as enforced from time to time. Extension or re-employment may be granted according to such provisions, at the discretion of the Governing Body, on terms and conditions it deems fit.

4. PROMOTION POLICY FOR FACULTY MEMBERS

4.1. Experience

Experience refers to teaching experience in AICTE-approved engineering institutions. The experience gained by working in companies or industries may also be considered, either partially or fully, by the Management Committee in exceptional cases. This consideration depends on the quality and relevance of the experience to teaching, the nature of the job, the designation or post held, and the reputation of the company or industry at a national or international level. Experience gained in underperforming or poorly reputed companies or industries shall not be considered for any kind of equivalence.

4.2 Promotion

- Every eligible individual is considered for promotion based on departmental requirements by AICTE norms.
- The Staff Selection Committee, comprising the Correspondent, Principal, Heads of Departments, and expert members, reviews their profiles for promotion.

5. STAFF RESPONSIBILITIES

5.1. General Code of Conduct

- Every employee shall adhere to the following code of conduct, which is not exhaustive.
- All faculty members are expected to comply with the institutions rules as updated from time to time.
- Faculty members are required to attend the staff assembly at 7:45 am daily in the College Reception Hall.
- Faculty should arrive at least 15 minutes before classes begin and remain available for student queries after class hours to the extent possible. They should leave the college premises only after ensuring all students have left the classrooms.
- Faculty must be present in the classroom 5 minutes before the scheduled lecture and should only leave after being relieved by another faculty member.
- Faculty members are encouraged to enhance their knowledge through participation in Faculty Development Programs (FDPs), seminars, workshops, and conferences, subject to obtaining necessary permissions from the Principal/HOD. Staff assignments are subject to management discretion as per regulations in force.
- Faculty members are expected to contribute to scholarly publications such as textbooks and research papers in reputable international or Indian journals/conferences.
- Performance evaluation includes self-development through guiding projects and securing project funding.
- Faculty members must continuously upgrade their academic preparation to effectively meet teaching challenges and requirements, thereby benefiting the student community at large. They are also expected to positively influence student personality development and actively engage in assigned or personally interested extracurricular activities.
- All employees must maintain courteous behavior in their interactions with colleagues, students, and the public.
- Employees are expected to demonstrate ideals of national integration, displaying love and concern without discrimination based on caste, creed, or community. Violation of this principle will result in strict disciplinary action, including suspension or termination.
- Feedback from students, both formal and informal, will be collected and provided to faculty members for continuous improvement.
- English is the designated language for communication in both classrooms and on campus.
- Faculty members must avoid any form of groupism. Engaging in such activities will lead to disciplinary proceedings.
- Consumption or distribution of alcohol, drugs, or any intoxicants, including smoking, is strictly prohibited on college premises.
- Faculty must adhere to a formal dress code daily.
- All faculty are required to attend department assemblies with students in the auditorium.
- Cell phone usage is strictly prohibited during working hours within the campus.
- Faculty members should maintain impartiality and cordiality towards students, avoiding overly familiar relationships that may lead to classroom indiscipline.
- Faculty should obtain prior permission from the HOD/Principal before leaving campus during working hours.

5.2. Conduct in the Department

- Teaching loads will be assigned by the HOD based on the faculty member's expertise.
- Once a subject is assigned to a faculty member, they should prepare the lecture along with a lesson plan.
- The lesson plan and course file must be approved by the HOD/Principal. The course file includes a preface, timetable, lesson plan, previous year university question papers, notes, handouts, OHP sheets, test/exam question papers, and three model answer scripts for each test/exam, along with assignments if applicable.
- The faculty members logbook must be regularly updated and available for inspection by the HOD/Principal.
- In addition to teaching, faculty members should undertake additional responsibilities as assigned by the HOD/Principal in academic, co-curricular, or extracurricular activities.
- Every faculty member must deliver a seminar on some topic at least once each semester to other faculty members.
- Faculty members are responsible for maintaining students attendance records. The roll numbers of absentees should be noted daily in the Master Attendance Register maintained in the department immediately after class/laboratory hours.
- When requesting leave, faculty members must obtain prior approval and ensure suitable alternate arrangements are made for class/lab supervision. In emergencies, the HOD or the next senior faculty member must be informed with proposed alternative arrangements.
- Faculty members must keep all files related to their additional responsibilities updated and be prepared for inspection by the HOD/Principal.

5.3. Classroom Teaching

- Faculty members should aim for 100% results in their subjects and plan accordingly.
- Advance preparation for classes is essential to achieve this goal.
- Ideally, faculty members should recap the previous lecture for the first 5 minutes and effectively utilize the remaining 50 minutes for delivering the lecture.
- Use slides/PPTs for complex diagrams and lengthy derivations.
- Utilize practical examples to illustrate concepts effectively.
- Provide relevant website addresses related to the topic for further reference.
- Introduce a few topics and advanced concepts beyond the syllabus to enrich students learning.
- Refer to additional books beyond textbooks and prepare detailed lecture notes as teaching aids. Notes should not be dictated during class.
- Encourage and positively respond to student questions. If unable to provide an immediate answer, commit to addressing it in the next class.
- Conduct regular short tests and ask questions to assess teaching effectiveness and adapt as needed.
- Analyze test results to identify slower learners and provide additional coaching to improve overall university results.
- Revision and coaching classes are crucial for effective exam preparation.
- Record topics covered in each period in the logbook and have them periodically signed by the HoD.
- The faculty member should take care of academically backward students and pay special attention to their needs in special classes.
- In problem oriented subjects, regular tutorials have to be conducted. The tutorial problems have to be handed over to the students at least one week in advance of actual class.
- The faculty member shall give possible 2-mark questions with answers for each unit.
- The faculty member should make himself/herself available for doubt clearance.
- The faculty member should motivate the students and bring out the creativity/originality in the students.
- The faculty member should regularly visit library and read the latest Journals/Magazines in his/her speciality and keep oneself abreast of the latest advancements.
- Quick reference material should be circulated for all the units before the model examinations.

5.4. Laboratory

- Faculty members must be inside the lab 15 minutes before the start of lab classes.
- The faculty member conducting practicals must personally perform experiments and ensure satisfactory results before assigning them to students.
- Additional experiments should be provided whenever possible to further clarify concepts for students.
- Lab observations and records must be corrected immediately after the class.
- Lab classes should follow this structure: 30 minutes for observation, 90 minutes for conducting experiments, and 30 minutes for result verification and viva.
- The lab manual should be updated by the respective faculty member in accordance with the revised syllabus.

5.5. Test/Exam

- When setting question papers, faculty members should also prepare detailed answers and marking schemes, submitting them to the HOD for approval.
- During invigilation, faculty members should continuously patrol the exam room and avoid prolonged sitting in one place. They must closely monitor to prevent any malpractice during exams.
- If any malpractice is observed, faculty members should promptly inform the University Representative/Chief Superintendent (Class Coordinator and relevant HOD for Internal Assessment Test/Model Examination).
- Test papers must be corrected within three days of the examination date, with marks submitted to the HOD along with any necessary remarks for forwarding to the Principal.
- Faculty members should maintain fairness and impartiality when awarding internal marks.
- Faculty members should not decline university assignments such as investigations, evaluations, and participation in orientation programs.
- Faculty members are expected to be available for university duties or internal duties during vacation periods.

5.6. Student-Faculty Relations

- Faculty members should maintain good control over student behaviour.
- Upon entering the class, faculty members should promptly take attendance. Habitual latecomers should be counselled personally, and if the behaviour persists, directed to meet with the class coordinator/HOD.
- Faculty members should handle student insubordination tactfully.
- While being firm, faculty members should avoid harshness and refrain from using words that may hurt students feelings.

6. PROVIDENT FUND AND OTHER BENEFITS**6.1. Provident Fund**

An employee becomes eligible for enrollment into the Provident Fund scheme after completing their probation period, as per the Provident Fund Act.

6.2. Other Benefits

- Fee concessions/scholarships will be provided to employees dependents.
- Employees are eligible for enrollment in the ESI (Employee State Insurance) and Medical Insurance scheme after completing their probation period.
- Staff members can avail of benefits such as free transport and subsidized meals at the College mess.

7. LEAVE RULES**7.1. General Rules**

- Every employee is entitled to 12 days of Casual Leave per year.

- Accumulation of leave is not permitted.
- Leave Application: Applications must be submitted on the prescribed form well in advance and approved before leave can be taken. Faculty members should arrange internal adjustments among colleagues to ensure continuous student engagement.
- Leave cannot commence without prior sanction. Mere submission of an application does not authorize leave. Unauthorized leave may result in disciplinary action and penalties.
- Engaging in alternate employment or business for personal gain is prohibited and constitutes an offense.
- Leave requests will not be sanctioned over the phone except in cases of emergencies or sudden illness, which must be promptly regularized in writing upon return.
- All leave applications forwarded to the Principal for approval must include recommendations from the HOD.
- Leave will be granted in accordance with existing leave rules.
- Vacation leave, On Duty leave, or personal leave cannot be availed during the notice period.

7.2. Kinds of Leave

Provisions exist for the following types of leave

7.2.1. Casual Leave (CL)

- Each employee is entitled to 1 day of Casual Leave per month, up to a maximum of 12 days per calendar year.
- Casual Leave cannot be carried forward to the next academic year and lapses thereafter.
- No compensatory leave will be granted if an employee is on leave during an institution-declared holiday.
- Late arrival on three occasions in a month result in a deduction of half a day of Casual Leave.

7.2.2. Restricted Holidays (RH)

- The Institute will declare a list of restricted holidays. Employees may avail themselves of any one day from the total RHs declared in a full academic year.
- Restricted Holidays cannot be accumulated and lapse at the end of the year.

7.2.3. Medical Leave (ML)

- Medical leave may be granted in case of employee sickness (not for dependents).
- A medical certificate from a doctor is required for absences of three days or more.

7.2.4. Leave Without Pay (LWP)

- There is no provision for the grant of Leave Without Pay.
- In exceptional circumstances beyond ones control, LWP may be granted at the discretion of the Director.
- Absence without sanctioned leave is considered indiscipline and does not fall under this category.
- LWP must be sanctioned in advance like any other leave.

7.2.5. Duty Leave / On Duty (OD) Leave

- OD Leave may be granted for activities that bring recognition to the College or are required for University work.
- OD cannot be availed without prior approval from the Principal and does not allow for post facto approval.
- Normally restricted to a maximum of ten days per academic year, but may be extended with competent authority approval.
- Conditions include a written request from the competent authority and acceptance of the paper for presentation.
- Examples include delivering academic lectures, attending University/College assignments during holidays, presenting research papers, or attending Quality Improvement Programs (QIPs) with Principal authorization.
- Other special cases may be considered on merit by Management based on Principals recommendation.

1. Maternity Leave (ML)

- Women employees with more than one year of service are eligible for maternity leave.
- A valid medical certificate from a competent doctor must accompany the leave application.
- Maternity leave can be granted for up to 3 months (for a maximum of two children). One months salary will be paid upon return to duty.

7.2.7. Marriage Leave (MGL)

- Confirmed staff are entitled to one weeks leave (including Saturday and Sunday) if their marriage falls on working days.
- Employees may also receive a marriage gift from management.

7.2.8. Permission (P)

- Emergency permission for one hour in the morning or evening may be granted if notified before working hours.
- A maximum of two such permissions will be granted per month.

10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks : 10.00

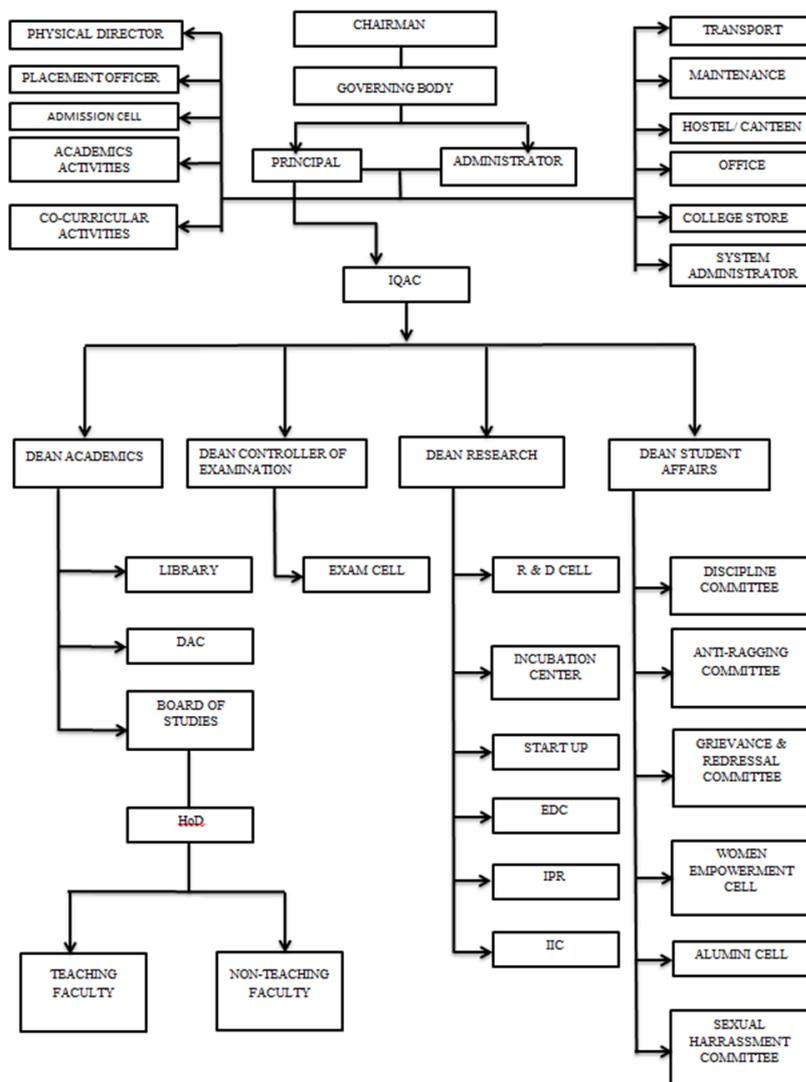


Figure 10.3: Organization Chart

Decentralization

- The Governing Council meets annually to establish general guidelines.
- The Principal has full academic freedom to manage the institution within these guidelines.
- IQAC monitors and ensures the maintenance of academic quality in the college.
- Deans and Heads of Departments (HODs) are entrusted with authority and responsibility for student and faculty development.
- Weekly meetings between Deans, HODs and the Principal address various institutional, departmental, and student-related matters.
- Developments are discussed, and decisions are made accordingly.
- Each department plans its non-recurring and recurring expenditures, submitting budgets for approval. HODs oversee various purchases through the purchase committee.

PRINCIPAL

The Principal is the academic and administrative head of the institution and all staff report to him directly or indirectly through the Department Head appointed by him. He represents the institution to the outside world and is responsible for elevating the image of the institution by planning, controlling and monitoring every activity of the Institution.

Duties And Responsibilities

- Implementing the Vision & Mission of the Institution
- Identifying long range & short range goals for every year
- Preparing a road map for achieving the goals
- Planning & implementing Image Building of the Institution
- Developing Infrastructure as per the requirements of AICTE, Anna University and NBA
- Consolidating annual budget proposals received from departments & presenting the same in the governing council for approval and sanction
- Consolidating faculty requirements for the academic year and complete the recruitment process one month before the commencement of the semester
- Developing Norms & Standards for promotion, Increments, Incentives and make them transparent to all concerned
- Appointing conveners of various committees for the academic year by 15th may and collect the action plan/schedule by 30th may
- Realizing the academic calendar/action plan based on inputs from the University, departments & conveners of various committees
- Constituting committees & nominate conveners for all college programmes as and when required
- Maintaining a file for each faculty as a record of personal information and professional achievements
- Convening the HOD meeting, once in 15 days with a predefined agenda & communicating the minutes to all concerned. Also, a staff meeting to be conducted at the beginning of the semester
- Reviewing the reports of Class Committee Meetings, Staff meetings of Departments and any other committee meetings (academic & non-academic) held in the Institution and the subsequent follow-up actions
- Reviewing the results and taking appropriate measures along with HODs to enhance the percentage of result
- The principal is the signing authority of all correspondences with approving and affiliating bodies, Government agencies, vendors act

- In the absence of the Principal, one of the Vice Principals is nominated by the Principal will act as the in-charge
- To act as development head in all the image-building process.
- To prepare the road map to put up the centre of excellence, incubation centre and all the technical bodies and activities.

IQAC

- Coordinate the accreditation of all institute programs periodically by agencies like NBA and NAAC.
- Constitute the Internal Quality Assurance Cell (IQAC) as per UGC/NAAC guidelines, in consultation with the Principal, Deans, and HoDs.
- Prepare proposals for AICTE and UGC approvals, setting clear targets and deadlines.
- Lead IQAC activities to ensure quality across all areas of institute operations.
- Develop a vision document for the institute by engaging key stakeholders and faculty members at all levels.
- Collect and analyze feedback from students, internal stakeholders, industries, and parents; conduct exit surveys for outgoing batches and tracer studies for alumni.
- Regularly update feedback formats and questionnaires for internal and external stakeholders.
- Design faculty assessment schemes and recommend awards for outstanding performance.
- Initiate departmental and institutional grading processes and analyze and declare results.
- Periodically revisit and update the institute's Vision and Mission statements.
- Benchmark institute processes and systems against best practices.
- Conduct periodic external academic and process audits.
- Prepare and publish the annual Internal Quality Assurance Report.
- Conduct employability surveys and provide feedback to departments for improvements.
- Plan soft skills training programs based on survey findings, in coordination with the Dean of academics and the Dean of student affairs.
- Prepare proposals for the continuation of Autonomy in collaboration with the Dean of Academics.
- Ensure timely implementation of Outcome-Based Education (OBE) across all programs.
- Undertake any additional responsibilities assigned by the Principal.

DEANS

Dean- Academics

- Plan and oversee the academic affairs of the institution.
- Publish the Academic Calendar.
- Identify training needs for staff and students.
- Ensure an effective teaching-learning process.
- Compile and present semester-wise and annual academic performance reports to the Academic Council and Board of Governors (BoG), assisted by the Controller of Examinations.
- Ensure compliance with NBA standards and prepare the necessary documentation.
- Conduct periodic monitoring of academic processes.
- Assign academic responsibilities to faculty members.
- Evaluate and analyze financial statements and assist the Principal in preparing the budget, addressing program-wise and department-wise financial needs and trends.
- Manage external communications with regulatory bodies such as UGC, AICTE, and other organizations, in coordination with the Principal and relevant Deans.
- Assist the Principal in developing alliances and associations with various stakeholders, and coordinate with departments to schedule meeting agendas and ensure compliance with deliverables.
- Represent the institute at meetings with internal and external stakeholders, as directed by the Principal.
- Assist with faculty/staff recruitment, promotions, and compliance with statutory requirements.
- Perform any other duties assigned by the principal in the institutes interest.

Dean- Training and Placement

- Develop and execute the placement strategy.
- Develop and maintain a corporate database, and communicate with industries to optimize placements.
- Conduct pre-employment assessment tests for campus-eligible students.
- Maintain a student resume bank and organize development programs focused on aptitude and soft skills.
- Develop and maintain effective communication with stakeholders, corporate partners, campus-eligible students, and institute authorities.
- Schedule, plan, coordinate, and execute the campus recruitment process based on the prevailing hiring scenario.
- Roll out and monitor the campus recruitment process in coordination with the Training and Placement (T&P) committee.
- Ensure smooth completion of student selection and joining formalities in coordination with employers.
- Assist in publishing job, placement, and internship opportunities through newsletters and other communications.
- Provide accurate data and maintain records regarding student placements.
- Attend corporate meetings and seminars for professional development.
- Organize on-campus and off-campus placement interviews.
- Arrange industry visits and training programs for students throughout the academic year.
- Coordinate expert lectures on technical and general topics for students.
- Oversee training programs for both technical and non-technical staff.
- Maintain the database of alumni, including those recruited or pursuing higher studies, for future communication and updates.
- Perform any additional duties assigned by the Principal in the interest of the institute.

Dean – Student Affairs

- Organize student counselling and act as a liaison between students and other stakeholders.
- Maintain, monitor, and enforce disciplinary policies related to students and faculty.
- Recommend students for institutional opportunities such as fellowships, scholarships, medals, and prizes, and establish regulations for their awards.
- Assist in maintaining discipline and work ethos across departments, and supervise faculty discipline and commitment.
- Coordinate with presidents of student societies and clubs regarding extracurricular activities.
- Ensure proper conduct of co-curricular and extracurricular activities through respective in-charges.
- Oversee amenities such as the canteen, transport, and clubs through respective in-charges.
- Address and resolve student suggestions and complaints.
- Coordinate with counsellors for SC/ST students and other support services.
- Collaborate with NCC, NSS, anti-ragging squad, Grievance Redressal Cell, Student Exchange Program Cell, and Equal Opportunity Cell.
- Implement and support the goals set by the Principal and Management.
- Perform any other duties assigned by the Principal.

Dean- Research

- Facilitate research scholars through the entire PhD process, from admission to thesis submission, in coordination with HoDs.

- Enhance research activities by motivating faculty, overseeing funded projects (AICTE, DST, UGC), and maintaining relevant office records.
- Develop and implement R&D strategies, policies, and goals aligned with NIRF and other ranking standards.
- Create support schemes for faculty, students, and researchers to achieve R&D goals effectively, focusing on originality and significance.
- Disseminate information about funded R&D projects and encourage quality proposal submissions with guidance.
- Coordinate with Institute leadership, Deans, and HoDs to promote research excellence.
- Develop strategies to increase internal revenue through consultancy and research, ensuring financial stability.
- Review consultancy proposals, assign them to relevant faculty experts, and form committees to prioritize them as needed.
- Approve and coordinate honorarium distribution for consulting faculty and staff according to institute policies.
- Regularly review and update the Institute's R&D guidelines and honorarium norms.
- Collaborate with the Dean of Academics to monitor PhD scholars progress.
- Engage with organizations, industries, and research labs to explore and approve collaborative research opportunities and MoUs.
- Build interdisciplinary research networks across technological domains.
- Encourage intellectual property protection and organize IPR awareness events.
- Develop policies to support faculty and students in R&D activities, including conferences, memberships, and research funding.
- Establish metrics to quantify research activities and prepare annual R&D reports.
- Promote technology-enabled startups and entrepreneurial initiatives.
- Support the creation of project studios, maker spaces, and innovative labs.
- Manage the R&D budget, ensuring proper allocation and usage.
- Perform any additional duties assigned by the Principal.

Controller Of Examinations

- Oversee the effective functioning of the Examination branch and report to the Principal.
- Prepare and propose examination regulations and rules for approval.
- Plan and arrange for the conduct of examinations, evaluation, and declaration of results in advance.
- Delegate and supervise responsibilities within the Examination branch.
- Coordinate with Heads of Departments (HODs) to ensure smooth operation of the examination system.
- Adhere to academic regulations and calendars.
- Maintain confidentiality of all examination-related matters.
- Secure examination data with proper backup on the server.
- Handle malpractice cases according to established procedures.
- Ensure timely issuance of grade cards to candidates.
- Document all financial transactions related to examinations.
- Address issues related to examination reforms.
- Safeguard all-important examination registers and records.
- Organize Results Committee meetings to facilitate timely declaration of results.
- Ensure results are declared within 2-4 weeks after examinations.
- Serve as the Member Secretary of Examination Committees.
- Perform additional duties as assigned by the Principal.

Head of the Department

- Review syllabus coverage, monitor teaching progress, and ensure the maintenance of laboratory resources.
- Implement college policies and procedures within the department.
- Ensure effective teaching and learning, and propose suitable methods for student assessments.
- Create a conducive academic environment and monitor student growth.
- Counsel students and organize parent-teacher meetings.
- Analyze student feedback, take corrective measures, and motivate faculty for improved performance.
- Recommend outstanding faculty for recognition to higher authorities.
- Submit staff appraisal reports to the Principal.
- Oversee the maintenance and inventory of equipment, furniture, and departmental resources.
- Conduct annual verification of departmental labs and stores, preparing lists for write-offs and obsolescence removal.
- Enhance faculty skills through Career Development Programs and encourage participation in FDPs at premier institutions.
- Build connections with industries, professional bodies, and alumni for department growth.
- Foster collaborations with industry for labs, internships, co-teaching initiatives, and sponsored research.
- Motivate faculty to engage in outreach activities that benefit the department, students, and society.
- Support professional development through participation in FDPs, conferences, and skill development programs.
- Design and implement a departmental co-curricular activity calendar in line with the academic calendar.
- Encourage students to pursue higher studies or entrepreneurship.
- Plan industrial tours, training sessions, and bridge courses, coordinating with industries for permissions and MOUs.
- Prepare and manage the departmental budget with input from faculty, ensuring effective utilization.
- Organize departmental seminars, workshops, and conferences annually.
- Streamline documentation for accreditation and quality processes like ISO, NBA, and NAAC.
- Manage recruitment for vacant teaching positions within the department.
- Request and coordinate procurement of books and resources for the department library.
- Prepare a departmental newsletter each semester summarizing activities and achievements.
- Compile the annual progress report of the department with relevant data for institute-wide reports.
- Maintain comprehensive records of departmental activities and achievements.
- Perform additional duties assigned by the Principal.

GRIEVANCE REDRESSAL COMMITTEE CELL

An exclusive department, led by the Principal and supported by a team of faculty members, is dedicated to addressing student grievances.

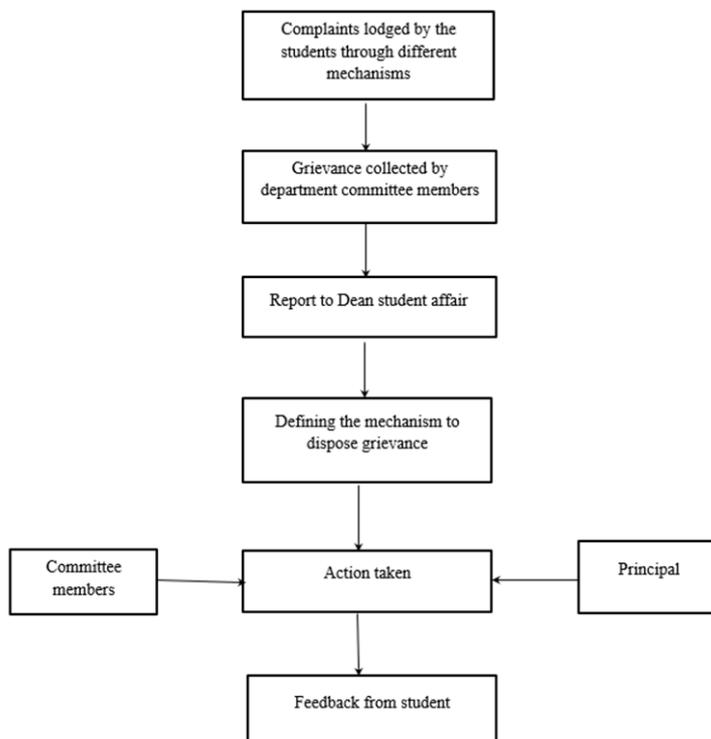


Figure 10.4: Grievance Disposal Mechanism

- Grievances of students related to academics and personal grievances of students within campus and hostel may be addressed to the committee.
- The tenure of the members shall be two years.
- The quorum for the meeting shall be three including chairperson.
- The committee shall follow the principles of natural justice while considering the grievances of students.
- The committee shall send the report and recommendations to the Management within a period of 15 days of receiving the complaint.
- The following list of members constitutes the Women grievance redressal & POSH committee.

Table 10.15: Grievance Redressal Committee Members

S. No	Name of Faculty	Category	Designation
1	Dr. Sujatha Jamuna Anand	Principal	Chairman
2	Dr. S. Chitradevi	Professor	Member
3	Dr. L. Jimson	Assistant Professor	Member
4	Mrs. V. Nageswari	Assistant Professor	Member
5	Mrs. J. Delphin Cinthiya	Assistant Professor	Member
6	Dr. V. Anbarasan	Assistant Professor	Member
7	Ms. A. Nadera Banu	III–AI&DS	Student representative
8	Mr. RanjithSahoo	III–Mech	Student representative
9	Rev. Fr. Williams	NGO	Ombudsman

***Frequency of Meeting – Bi-Monthly in a Year.**

Function of the Grievance Redressal Cell

- Helps students by providing solutions to address their grievances.
- Ensures that all staff members act responsibly when handling student’s issues.
- Acts as an intermediary between students and departments to resolve academic and administrative problems.

Facilities Provided by the Cell

- Suggestion box is available in the college.
- Conference room where the grievance redressal committee can meet to discuss and review grievances.

Roles and Responsibilities of the Cell:

Coordinator

- Ensures the proper resolution of students academic and administrative issues.
- Facilitates communication between the students and departments to address grievances.
- Handles all grievances with discretion, maintaining confidentiality.
- Provides students with clear guidance to resolve their concerns.

Member

- Updates authorities about the number of grievances resolved and any pending cases.
- Informs departments about the grievance redressal system.
- Takes immediate action on grievances once they are received in writing.
- Facilitates communication between students and departments to address grievances.

10.1.4 Delegation of financial powers (10)

Institute Marks : 10.00

Financial powers are delegated to the Principal, Heads of Departments and relevant in-charges.

The Delegated financial power is as follows

Table 10.16: Delegation of Financial Powers

Sl. No	Financial funds allotted for	Amount Allotted	Mode of Transfer	Remarks
1	Principal	25000	Cash	Every Individual maintains a separate file The allotted amount is revived after submitting the file
2	Head of the Department	10000	Cash	
3	Administrator	15000	Cash	
4	Examination Cell	5000	Cash	
5	TPO	10000	Cash	

Utilization of financial powers for each of the assessment years

- All the above mentioned delegated financial power authorities maintain the separate file.
- The allotted amount is revived after submitting the file to the accounts department.

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

Information on the policies, rules, processes is to be made available on web site

- The College ensures transparency & availability of correct information in our college website by URL <http://www.dmice.ac.in> (<http://www.dmice.ac.in/>) is available from which the latest information & happenings of the Institution can be accessed.
- Intranet facility is available, through which the information can be accessed across the institution.
- The norms, procedures, circulars & all other updated relevant information are available on the college website.
- The Vision and Mission statements are disseminated to all the stakeholders of the programs through faculty meetings, workshops, student induction programs, and parent meetings.

Dissemination of the information about students, faculty and staff

- Institute-specific information is made available through the institution's website. www.dmice.ac.in
- Faculty and students achievements are made available in the institution's website. www.dmice.ac.in
- A copy of the regulations handbook is distributed to every student at the time of admission or on the reopening day.
- The regulation handbook has the complete details of attendance requirements, procedure for internal assessment evaluation and eligibility for qualifying for the award of degree etc.
- The individual copy of the Academic Calendar with the list of holidays, schedule of tests and end-semester examinations is distributed to the students during the first week of the Academic year.
- The student attendance statement is displayed on the department notice board every month.

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

Total Marks 30.00

Summary of current financial 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 134357079.00				Actual expenditure(till...): 121564504.00			Total No. Of Students 1510
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
127011640.00	0	0	7345439.00	109967080.00	11597424.00	0	80506.29

Table 2 - CFYm1 2023-24

Total Income 128468500.00				Actual expenditure(till...): 117173604.10			Total No. Of Students 1418
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
110101009.00	0	0	18367491.00	107507049.22	9666554.88	0	82633.01

Table 3 - CFYm2 2022-23

Total Income 124246183.92				Actual expenditure(till...): 110700397.09			Total No. Of Students 1369
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
102101893.00	0	0	22144290.92	96974856.09	13725541.00	0	80862.23

Table 4 - CFYm3 2021-22

Total Income 86243567.48				Actual expenditure(till...): 75340159.51			Total No. Of Students 1208
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
49190712.00	0	0	37052855.48	66148777.07	9191382.44	0	62367.68

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	0	0	0	0	0	0	0	0
Library	1005375.00	86120.00	1800000.00	1727751.88	1820000.00	1803979.00	229844.00	308703.00
Laboratory equipment	1239000.00	3295129.00	20000.00	15000.00	5053000.00	5004707.00	1450000.00	1438635.00
Laboratory consumables	3375750.00	1687423.00	900000.00	834928.00	850000.00	882615.00	340000.00	29156.00
Teaching and non-teaching staff salary	66764584.00	63534900.00	65400000.00	63806503.00	57900000.00	55738102.54	41819299.00	43168337.16
Maintenance and spares	11457067.90	11229836.00	20090000.00	20239173.00	17300000.00	17110265.41	9251644.00	9722676.59
R&D	4978500.00	739662.00	4922121.60	4871778.60	1700000.00	1394940.64	419918.00	427062.00
Training and Travel	2293135.00	890664.00	1600000.00	1276025.00	870000.00	815531.00	776186.00	173975.00
	8016555.00	7979138.00	6644100.00	6590479.00	7108000.00	6893755.00	483655.00	7042335.44
Others, specify	28017976.40	32121632.00	21328000.00	17811965.62	26955000.00	21056501.50	33261557.00	13029279.32
Total	127147943.30	121564504.00	122704221.60	117173604.10	119556000.00	110700397.09	88032103.00	75340159.51

10.2.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

The annual budget of DMI College of Engineering is formulated based on the specific needs and requirements of each department, considering factors such as student intake, laboratory and infrastructure development, and the adoption of the latest technologies. Each department prepares formal budget estimates, which are then reviewed in a Heads of Departments (HODs) meeting with the Principal.

Following deliberations, the departmental budgets may be revised before being forwarded to the Principal for the preparation of the final college-level budget. The finalized budget is then submitted to the Management for approval. The Management approves the proposed budget. The budget allocation and utilization over the past three years have been adequate, ensuring smooth academic and administrative operations while supporting institutional growth and development.

Financial year	Approved Budget In Lakhs (Rs.)	Adequate/Non-Adequate
2024-25	1271.48	Adequate
2023-24	1227.04	Adequate
2022-23	1195.56	Adequate
2021-22	880.32	Adequate

10.2.2 Utilization of allocated funds (15)

Institute Marks : 15.00

The College Management allocates funds, and Department Heads are informed about the amount assigned to their budget proposals. Major activities such as construction, infrastructure upgrades, procurement and maintenance of shared utilities, and furniture purchases are directly managed by the College Management. Requests for lab equipment, upgrades to existing lab facilities, and consumable purchases are initiated by the respective departments, with funds released on a case-by-case basis by the colleges accounts office upon Management approval. Over the past three years, the budget has been used for staff salaries, infrastructure development, equipment purchases, consumables, contingencies, travel, and other expenses. Almost all of the funds allocated by the management have been efficiently utilized by the institution during this period.

Institute level-Utilization of the Budget (%)

Financial year	Budget Allocation In Lakhs (Rs.)	Actual Expenditure In Lakhs (Rs.)	Percentage of utilization
2024-25	1271.48	1215.65	95.61 %
2023-24	1227.04	1171.74	95.49 %
2022-23	1195.56	1107.00	92.59 %
2021-22	880.32	753.40	85.58 %

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

Yes. URL: <http://www.dmice.ac.in>

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

5132771.08		Actual expenditure (till...): 4514057.80		Total No. Of Students 170
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
10,49,455.50	40,83,315.58	17,73,283.10	27,40,774.70	26553.28

Table 2 :: CFYm1 2023-24

5698424.32		Actual expenditure (till...): 5651715.32		Total No. Of Students 153
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1,06,000.00	55,92,424.32	1,23,841.60	55,27,873.72	36939.32

Table 3 :: CFYm2 2022-23

5300800.00		Actual expenditure (till...): 5216886.81		Total No. Of Students 141
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
10,71,800.00	42,29,000.00	10,87,954.90	41,28,931.91	36999.20

Table 4 :: CFYm3 2021-22

2552107.50		Actual expenditure (till...): 2382263.92		Total No. Of Students 145
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
3,60,557.90	21,91,549.60	3,08,774.40	20,73,489.52	16429.41

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	247800.00	659025.80	4000.00	3000.00	1010600.00	1000941.40	290000.00	287727.00
Software	0	0	0	0	0	0	0	0
Laboratory consumable	337575.00	168742.30	270000.00	250478.40	255000.00	264784.50	102000.00	8746.80
Maintenance and spares	2291413.58	2245967.20	4018000.00	4047834.60	3460000.00	3422053.08	1850328.80	1944535.32
R & D	995700.00	147932.40	984424.32	974355.72	340000.00	278988.13	83983.60	85412.40
Training and Travel	458627.00	178132.80	320000.00	255205.00	174000.00	163106.20	155237.20	34795.00
	801655.50	1114257.30	102000.00	120841.60	61200.00	87013.50	70557.90	21047.40
Total	5132771.08	4514057.80	5698424.32	5651715.32	5300800.00	5216886.81	2552107.50	2382263.92

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

Financial year	Approved Budget In Lakhs (Rs.)	Adequate/Non-Adequate
2024-25	51.33	Adequate
2023-24	56.98	Adequate
2022-23	53.01	Adequate
2021-22	25.52	Adequate

10.3.2 Utilization of allocated funds (20)

Institute Marks : 20.00

Department level-Utilization of the Budget (%)

Financial year	Budget Allocation In Lakhs (Rs.)	Actual Expenditure In Lakhs (Rs.)	Percentage of utilization
2024-25	51.33	45.14	87.95 %
2023-24	56.98	56.52	99.18 %
2022-23	53.01	52.17	98.42 %
2021-22	25.52	23.82	93.34 %

10.4 Library and Internet (20)

Total Marks 20.00

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

The central library is housed in an area of 1,371 sqm. with the reading space of 400 square feet. It has a seating capacity of 100. Library functions from 8.00am to 5.00 pm on all working days and 8.00am to 3.00 pm on holidays.

10.4.1. Quality of Learning Resources (hard/soft)

Relevance of available learning resources including e-resources.

- The library holds a good stock of text books, popular reference books in the field of various disciplines of Engineering, Science & Humanity and Management which includes the books mentioned in the prescribed syllabus of the affiliating university.
- The library houses a digital library section, where e-books and resources like NPTEL Videos etc. are made available. A minimum of 50 students makes use of the facilities available in the digital library on daily basis.
- The library subscribed to IEL Online, DELNET Online journals in addition to Print Journals.

The details of the number of books on Engineering subjects available department-wise are

Table 10.22: Library Book Details

SL.NO.	DEPARTMENT	TITLES	VOLUME
1	CSE	1915	8015
2	ECE	1799	7880
3	EEE	1741	5866
4	IT	1299	5803
5	MECH	1697	5320
6	SCIENCE & HUMANITIES	920	3696
7	MBA	924	3803
8	AI&DS	62	310
9	AL&ML	30	143
TOTAL		10387	40836

The library also houses popular technical journals and magazines in various disciplines of Engineering and Management with the purpose of furthering the knowledge of the students on the latest technological trends and innovations. The details of journals in subscription in Engineering and Management are listed in the Annexure.

Table 10.23: Print Journals Count

Sl. No.	Department	Journals (Print)	Year
1	CSE	6	2024–2025
2	ECE	5	2024–2025
3	EEE	6	2024–2025
4	IT	6	2024–2025
5	MECH	6	2024–2025
6	MBA	7	2024–2025

Table 10.24: Print e-Journals Count

Sl. No.	Year	Journal (e-journal)	Count
1	2022–2023	IEEE-E-JOURNAL	221
		DELNET E-JOURNAL	980
		SPRINGER NATURE E-JOURNAL	194
2	2023–2024	DELNET E-JOURNAL	1085
		SPRINGER NATURE E-JOURNAL	226
		ASME E-JOURNAL	33
3	2024–2025	DELNET E-JOURNAL	1120
		SPRINGER NATURE E-JOURNAL	254
		NATIONAL DIGITAL LIBRARY OF INDIA	636
		STATE DIGITAL LIBRARY OF INDIA	48

Access to the students

The students can have access to the learning materials available in the library either during their allotted period in a day or after 3.30 pm daily. The library functions up to 5 pm in the evening.

Support to students for self-learning activities

The students are provided with the learning materials such as video lectures on various engineering topics delivered by eminent academicians from the national institutes of excellence namely IITs and IISc through NPTEL.

The Library subscribed to IEL Online, DELNET Online journals in addition to Print Journals.

Each department maintains a hard disc containing these lectures and other study material for use by the students. The students are allowed to take copies of these resources in their devices. Apart from this the class notes and answers to the questions in the question bank and university questions are uploaded in the college portal.

10.4.2 Internet (10)

Institute Marks : 10.00

Name of the Internet provider	Tata TeleServices
Available band width	500 mbps
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	Yes (Firewall Installed)

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	Analyze and design analog & digital circuits or systems for a given specification and function.
PSO2	Implement functional blocks of hardware-software co-designs for signal processing and communication applications.
PSO3	Design, develop and test electronic and embedded systems for applications with real time constraints and to develop managerial skills with ethical behavior to work in a sustainable environment.

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 will be 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

DR. SUJATHA JAMUNA

Name : ANAND

Designation : PRINCIPAL

Signature :



Seal of The Institution :

**Place :** CHENNAI**Date :** 21-02-2025 11:50:06