JEPPIAAR ENGINEERING COLLEGE

Computer Science & Engg.

Part A : Institutional Information

1   Name and Address of the Institution

JEPPIAAR ENGINEERING COLLEGE,
JEPPIAAR NAGAR,RAJIV GANDHI SALAI,CHEMANCHERRY

2   Name and Address of Affiliating University

Anna University, Sardar Patel Road, Guindy, Chenn

3   Year of establishment of the Institution:

2001

4   Type of the Institution:

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

5   Ownership Status:

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

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

Name of Institutions	Year of Establishment	Programs of Study	Location
Jeppiaar University	2021	Engineering, Sciences	Rajiv Gandhi Salai, Semmancherry - 600119
Jeppiaar Matriculation Higher Secondary School	2003	H.Sc	Rajiv Gandhi Salai, Semmancherry - 600119
Jeppiaar CBSE School	2017	H.Sc	Rajiv Gandhi Salai, Semmancherry - 600119

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
Computer Science and Engineering	UG	2001	2001	60	Yes	150	Not accredited (specify visit dates, year)	06/07/2018	08/07/2018	Yes	4

Sanctioned Intake for Last Five Years for the Computer Science and Engineering	
Academic Year	**Sanctioned Intake**
2022-23	150
2021-22	120
2020-21	120
2019-20	120
2018-19	120
2017-18	120

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	120	Not accredited (specify visit dates, year)	06/07/2018	08/07/2018	No	4
Information Technology	UG	2001	2001	60	Yes	120	Eligible but not applied	--	--	0	4
BioTechnology	UG	2001	2001	60	Yes	30	Granted accreditation for 3 years for the period (specify period)	2018	2021	0	4

Sanctioned Intake for Last Five Years for the BioTechnology	
Academic Year	**Sanctioned Intake**
2022-23	30
2021-22	30
2020-21	60
2019-20	60
2018-19	60
2017-18	60

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
Artificial Intelligence and Data Science	UG	2021	2021	60	Yes	90	Not eligible for accreditation	--	--	0	4

Sanctioned Intake for Last Five Years for the Artificial Intelligence and Data Science	
Academic Year	**Sanctioned Intake**
2022-23	90
2021-22	60
2020-21	0
2019-20	0
2018-19	0
2017-18	0

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
Mechanical Engineering	UG	2001	2001	60	Yes	60	Not accredited (specify visit dates, year)	06/07/2018	08/07/2018	0	4

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

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	**Sanctioned Intake**
2022-23	60
2021-22	60
2020-21	90

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
Sanctioned Intake for Last Five Years for the Mechanical Engineering											
Academic Year						Sanctioned Intake					
2019-20						120					
2018-19						180					
2017-18						180					
MBA	PG	2001	2001	60	Yes	60	Applying first time	--	--	0	2
Sanctioned Intake for Last Five Years for the MBA											
Academic Year						Sanctioned Intake					
2022-23						60					
2021-22						60					
2020-21						60					
2019-20						90					
2018-19						120					
2017-18						120					
Computer Science and Engineering	PG	2012	2012	18	No	18	Eligible but not applied	--	--	0	2
BioTechnology	PG	2012	2012	18	No	18	Eligible but not applied	--	--	0	2

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science & Engg.
2	Under Graduate	Engineering & Technology	Electronics & Communication Engg.
3	Post Graduate	Management	Master of Business Administration

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2022-23		2021-22		2020-21	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	74	74	71	72	117	120
Faculty in Engineering (Female)	72	72	69	70	90	93
Faculty in Maths, Science & Humanities (Male)	14	14	10	12	10	10
Faculty in Maths, Science & Humanities (FeMale)	18	18	17	18	15	16
Non-teaching staff (Male)	11	11	11	11	12	13
Non-teaching staff (FeMale)	5	5	5	5	5	6

B. Contractual* Employees (Faculty and Staff):

Items	2022-23		2021-22		2020-21	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	0	0	0	0
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	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☑ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☑ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Items	2022-23	2021-22	2020-21
Total no. of Boys	1187	1376	1563
Total no. of Girls	583	604	702
Total	**1770**	**1980**	**2265**

Engineering and Technology- PG Shift-1

Items	2022-23	2021-22	2020-21
Total no. of Boys	11	18	11
Total no. of Girls	15	29	24
Total	**26**	**47**	**35**

Engineering and Technology- MBA Shift-1

Items	2022-23	2021-22	2020-21
Total no. of Boys	72	64	66
Total no. of Girls	45	51	55
Total	**117**	**115**	**121**

11 Vision of the Institution:

To build Jeppiaar Engineering College as an institution of academic excellence in technological and management education to become a world class University

12 Mission of the Institution:

M1	To excel in teaching and learning, research and innovation by promoting the principles of scientific analysis and creative thinking
M2	To participate in the production, development and dissemination of knowledge and interact with national and international communities.
M3	To equip students with values, ethics and life skills needed to enrich their lives and enable them to meaningfully contribute to the progress of society
M4	To prepare students for higher studies and lifelong learning, enrich them with the practical and entrepreneurial skills necessary to excel as future professionals and contribute to Nation's economy

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

Head of the Institution	
Name	Dr. J Francis Xavier
Designation	Principal
Mobile No.	9443277305
Email ID	principal@jeppiaarcollege.org

☑ **NBA Coordinator, If Designated**

Name	Dr. J Jebastine
Designation	Professor
Mobile No.	9566143828
Email ID	ece@jeppiaarcollege.org

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	123.83
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	192.00
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	46.12
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**962**

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	To build Jeppiaar Engineering College as an institution of academic excellence in technological and management education to become a world class University		
Mission of the institute	**M1**	To excel in teaching and learning, research and innovation by promoting the principles of scientific analysis and creative thinking	
	M2	To participate in the production, development and dissemination of knowledge and interact with national and international communities.	
	M3	To equip students with values, ethics and life skills needed to enrich their lives and enable them to meaningfully contribute to the progress of society	
	M4	To prepare students for higher studies and lifelong learning, enrich them with the practical and entrepreneurial skills necessary to excel as future professionals and contribute to Nation's economy	
Vision of the Department	To emerge as a globally prominent department, developing ethical computer professionals, innovators and entrepreneurs with academic excellence through quality education and research.		
Mission of the Department	**Mission No.**	**Mission Statements**	
	M1	To create computer professionals with an ability to identify and formulate the engineering problems and also to provide innovative solutions through effective teaching learning process.	
	M2	To strengthen the core-competence in computer science and engineering and to create an ability to interact effectively with industries.	
	M3	To produce engineers with good professional skills, ethical values and life skills for the betterment of the society.	
	M4	To encourage students towards continuous and higher level learning on technological advancements and provide a platform for employment and self-employment.	

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To address the real time complex engineering problems using innovative approach with strong core computing skills.
PEO2	To apply core analytical knowledge and appropriate techniques and provide solutions to real time challenges of national and global society
PEO3	Apply ethical knowledge for professional excellence and leadership for the betterment of the society.
PEO4	Develop lifelong learning skills needed for better employment and entrepreneurship.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)   Total Marks 10.00

Institute Marks : 10.00

The departments vision, mission, and PEOs are all stated on the institutional website,   (https://www. jeppiaarcollege.org). The public, as well as all stakeholders, can access the same information.

All stakeholders can view the departments vision, mission, and PEOs as they are prominently displayed on campus.

During the induction programme, newly admitted students, parents, faculty members, alumni, industry experts, and other academicians are informed of the departments vision, mission, and PEOs.

A. The Vision, Mission and PEOs are published in the following modes:

The publication modes for the departments vision, mission, and PEOs to internal and external stakeholders are listed in table 1.3.1 below.

Table 1.3.1 Publishing Modes of Vision, Mission and PEOs

		Modes of Publishing	Internal Stake holders	External Stake holders
Vision, Mission and PEOs	1	College Website	X	X
	2	HoD Cabin	X	X
	3	Class Rooms	X	
	4	Staff Room	X	
	5	Laboratories	X	X
	6	Lab Manuals and Record Note Books	X	X
	7	Seminar Hall	X	X
	8	Department Notice Board	X	X
	9	Student Notice Board	X	
	10	Department Magazine	X	

The published samples of Vision, Mission and PEOs are shown in the following Figure 1.3.1.
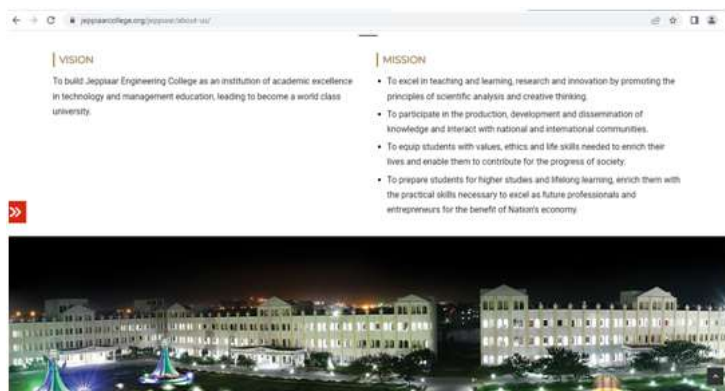
COLLEGE WEBSITE

HOD ROOM

STAFF ROOM

CLASS ROOM

DEPARTMENT CORRIDOR

CENTRAL LIBRARY

B. The Vision, Mission and PEOs are disseminated in the following ways:

Internal stakeholders:

Management & Governing Council members

- The Vision, Mission, and PEOs were presented at the Governing Council meeting.

Faculty

- The Principal informs faculty members about the Vision, Mission, and PEOs during the faculty orientation session at the start of each academic year.
- During Department review sessions, the Head of the Department raises faculty understanding of the Vision, Mission, and PEOs.

Support staff

- The Principal informs every member of the institutions support staff on the institutions vision, mission, and PEOs.
- The Department Head informs the Department Support Staff on the Departments Vision, Mission, and PEOs.

Students

- Students receive information on the vision, mission, and PEOs at the beginning of each semesters classes.

- Through their different chairs, the students learn about the vision, mission, and PEOs at class committee meetings.

External stakeholders:

Affiliating University & Professional Bodies

- The college website disseminates the vision, mission, and PEOs.

Alumni

- The department head presents the vision, mission, and PEOs to alumni at JEC Alumni Meet.

Industries and Employers

- Through interactions with industry institutes and placement meets, employers and recruiters are informed about PEOs, their vision, and their mission.

Parents

- The department head conveys the vision, mission, and PEOs to the parents during the Parents Teachers Meeting.
- During First-year Induction Programs, the principal presents the Vision, Mission, and PEOs to the parents.

The following table 1.3.2 provides the summary on the disseminating modes of Department's Vision, Mission and PEOs to internal and external stakeholders

		Modes of Dissemination	Internal Stake holders	External Stake holders	Frequency of Meeting
Vision, Mission and PEOs	1	Induction Program for Fresher's	X	X	1 per year
	2	Students Orientation Program	X		1 per year
	3	Parents – Teachers Meeting		X	1 per Semester
	4	Alumni Meeting		X	1 per year
	5	Department Review Meeting	X		2 per month
	6	Class Committee Meeting	X		2 per semester
	7	Faculty Orientation Program	X		1 per year
	8	Internal Quality Assurance Cell (IQAC)Meeting	X	X	6 per year
	9	Management Review Meeting	X	X	2 per year
	10	Program Assessment and Evaluation Committee (PAEC)	X		2 per semester
	11	Department Advisory Committee Meeting	X	X	1 per year
	12	Governing Council Meeting	X		1 per year

Table 1.3.2 disseminating modes of Vision, Mission and PEOs

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

Institute Marks : 25.00

Process involved in defining the Vision, Mission of the Department:

The Departments Vision and Mission are designed in accordance with the Institutes Vision and Mission. The Governing Council, Faculty, Students, Parents, Alumni, and Industry members of the Department of Computer Science and Engineering took part in a collaborative process to define the departments Vision and Mission.
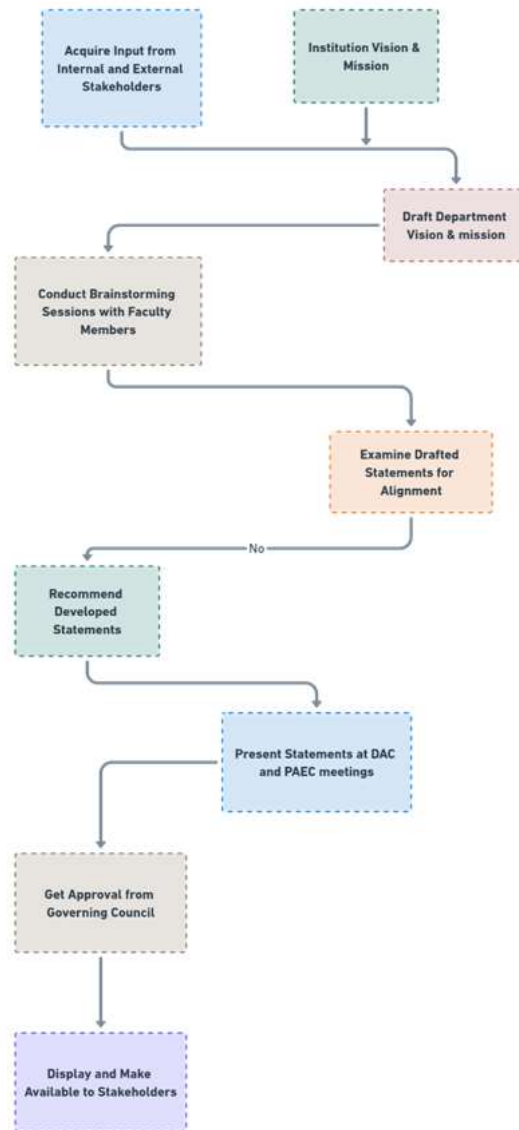
Figure 1.4.1 Process of defining the Vision and Mission of the Department

As indicated in figure 1.4.1, the following stages are done to define the departments vision and mission.

Ø An assortment of input from internal (management, governing council members, faculty members, and students) and external (industry, parents, alumni, and professional society) stakeholders is acquired.

Ø Based on the Institutes vision and mission, the affiliated universitys vision and mission, the professional societies IEEE and IETEs vision and mission, stakeholder input, and the direction for future development as indicated in statutory, regulatory, and affiliated organizations, the department drafts its own vision and mission.

Ø The department faculty members participated in brainstorming sessions to help improve the departments vision and mission statements.

Ø The drafted Vision and Mission statements are examined to ensure alignment with the Institutes Vision and Mission.

Ø The institutions head formally recommends the developed vision and mission statements.

Ø The suggested Vision and Mission statements are presented at meetings of the Department Advisory Committee (DAC) and the Programme Assessment and Evaluation Committee (PAEC).

Ø The Governing Council has given its approval to the statements of the Finalized Vision and Mission.

The vision and mission statements of the Department are prominently exhibited and made available to all stakeholders.

Process involved in defining the PEOs of the program

The primary stakeholders, including faculty, students, parents, entrepreneurs, and members of professional societies, consult on the programs educational objectives. In order to guarantee that the graduates receive outcome-based education, PEOs were made mandatory in addition to the departments vision and mission.
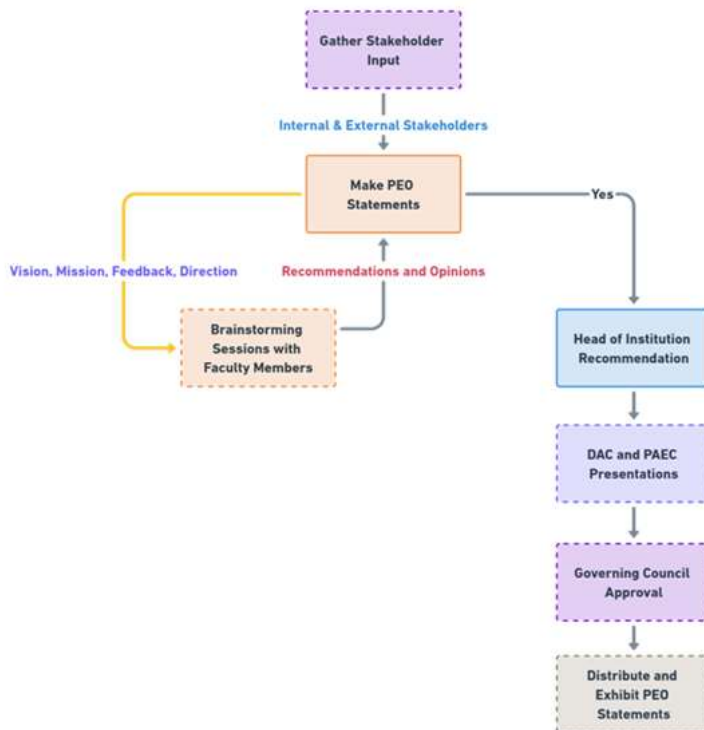
Figure 1.4.2 Process of establishing the PEOs

The PEO's are established through the following steps as shown in the figure 1.4.2.

Ø Both internal (management, governing council members, faculty, and students) and external (industry, and parents) stakeholder input is gathered.

Ø PEO statements are made using the vision and mission of the Institute & Department, the Affiliated University, Professional Societies like IEEE, CSI and IETE, feedback from stakeholders, and the direction for future development as expressed in statutory/regulatory/affiliating bodies.

Ø Faculties from the department participate in brainstorming sessions, and the recommendations and opinions are included to improve the PEO statements.

Ø The Head of the Institution duly recommends the PEO statements that have been developed.

Ø The Department Advisory Committee (DAC) meeting and the Programme Assessment and Evaluation Committee (PAEC) meeting both feature presentations of the suggested PEO statements.

Ø The Governing Council gives its approval to the finalized PEO statements.

Ø The PEO statements are distributed to all stakeholders and exhibited in conspicuous places within the Institution.

Members of Department Advisory Committee (DAC):

Sl.No	Name of the DAC Members and Position	Designation and Affiliation
1	Mr. M. Rathina Raja Rajan (Industry Expert)	Associate Director – Projects, Cognizant Technology Solution, Chennai
2	Mrs. B.Anandhalakshmi (Industry Expert)	Senior Vice President, Bny Mellon Technology Private Ltd, Chennai.

3	Dr. S Cloudin (https://kcgcollege.ac.in/departments/computer-science-engineering-new/) (Academic Member)	Professor & Head , Department of Computer Science and Engineering. KCG College of Technology, Chennai.
4	Dr.G.Nagappan (Academic Member)	Professor & Head , Department of Computer Science and Engineering Saveetha Engineering College, Chennai.
5	Dr. R. Baskaran (Academic Member)	Associate Professor Department of CSE Anna University
6	Dr.J.Arokia Renjit (Convenor)	Professor & Head Department of CSE Jeppiaar Engineering College
7	Dr. J.Anitha Ganaselvi (Member)	Assistant Professor Department of CSE Jeppiaar Engineering College
8	Mr. M. Goudhaman, (Member)	Assistant Professor Department of CSE Jeppiaar Engineering College
9	Dr.F.Regan Maria Sundar Raj (Member)	Assistant Professor Department of Physics Jeppiaar Engineering College
10	Dr.Thiripuram (Member)	Assistant Professor Department of Mathematics Jeppiaar Engineering College
11	Mrs. Shaistha Seema (Alumni)	Technical Consultant Wipro Technologies, Chennai.
12	Ms. Sancta Marina J (Alumni)	Team Lead, Infosys, Chennai

Table 1.4.1 Members of Department Advisory Committee

Members of Programme Assessment and Evaluation Committee (PAEC):

Sl.No	Name of the Programme Assessment and Evaluation Committee and Position	Designation and Affiliation
1	Dr.J.Arokia Renjit (Convenor)	Professor & Head Department of CSE Jeppiaar Engineering College
2	Dr. J.Anitha Ganaselvi (Member)	Assistant Professor Department of CSE Jeppiaar Engineering College
3	Mr. M. Goudhaman, (Member)	Assistant Professor Department of CSE Jeppiaar Engineering College

4	Dr.J. Jabastine (Member)	Professor & Head Department of ECE Jeppiaar Engineering College
5	Dr. Paul Chandra Kumar J (Member)	Associate Professor & Head Department of Mechanical Engineering Jeppiaar Engineering College
6	Dr.Damodharan D (Member)	Assistant Professor Department of Mechanical Engineering Jeppiaar Engineering College
7	Dr.P.Sivagami (Member)	Assistant Professor Department of Mathematics Jeppiaar Engineering College
8	Dr.Titus S (Member)	Associate Professor & Head Department of Chemistry Jeppiaar Engineering College

Table 1.4.2 Members of Programme Assessment and Evaluation Committee (PAEC)

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

Institute Marks : 15.00

Table 1.5.1 shows the justification of PEOs mapping with Mission of the department.

Mapping	Justification
PEO I maps substantially with M1, M2 and M4	v. By employing various technologies like Data Analytics, Artificial Intelligence, Machine Learning, Robotic Process Automation, Matlab and others during the teaching and learning process, the students are given a foundational understanding of technical concepts. v. Through integrative projects and participation in national level contests, designing and creating skills are enhanced. v. Students are encouraged to submit financed research, patent applications, and conference and journal papers in order to help graduates create electronic products.
PEO I maps moderately with M3	v. The career counseling cell encourages students to take the GATE, CAT, MAT, IELTS, and BEC in order to become knowledgeable engineers. v. The internship, in-plant training, GATE coaching, and workshops that assist graduates in career-related matters are encouraged among the students.
PEO II maps substantially with M1, M2,M3 and M4	v. Membership in professional organizations like IEEE, CSI and IETE offers a forum to address societal problems. v. Students have participated in National Science Day, Engineers Day, and Projects Expo while working on projects with IBM, NSIC, NIELIT and other organizations. Additionally, some industrial issues have been located and resolved.
PEO III maps substantially with M1, M2,M3 and M4	v. Students actively engage in departmental association activities as well as extracurricular pursuits like sports, Tamil Mandram, NSS, NCC, YRC, photography club, Rotract Club, and Yi Yuva Club. During vacations, pupils receive training in soft skills, communication skills, practice interviews, and group discussions to help them succeed in the workplace. v. Students take part in inter-college activities such as conferences, technical symposiums, and paper presentations. In order to develop into professionals with ethics and moral values, students also participate in events sponsored by the Entrepreneurship Development Cell, Industry Institute, and online courses.

<table>
<tr><td rowspan="3">PEO IV maps substantially

with M1, M2,M3 and M4</td><td>v. Technical symposium, department association events, and professional society activities are organized by students, giving graduates the opportunity to engage responsibly and collaborate.
v. Students with an enriching introduction to modern technology that helps graduates tackle engineering difficulties by Providing Value added courses.</td></tr>
<tr><td>v. By engaging in discussions with professors and peers, participating in technical clubs, research lab activities, developing novel products through the creation of patents, the Smart India Hackathon, Toy Hackathon, and Ideaothon, students are given the chance to freely express their ideas.</td></tr>
</table>

Table 1.5.1 shows the justification of PEOs mapping with Mission of the department.

PEO Statements	M1	M2	M3	M4
PEO I - Produce technically competent graduates with a solid foundation in the field of Electronics and Communication Engineering with the ability to analyze, design, develop, and implement electronic systems.	3	3	2	3
PEO II - Motivate the students for successful career choices in both public and private sectors by imparting professional development activities.	3	2	3	2
PEO III - Inculcate in the students' ethical values, effective communication skills and develop the ability to integrate engineering skills to broader social needs	2	3	2	3
PEO IV - Impart professional competence, desire for lifelong learning and leadership skills in the field of Electronics and Communication Engineering	3	2	3	2

PEO Statements	M1	M2	M3	M4
To address the real time complex engineering problems using innovative approach with strong core computing skills.	3	3	2	3
To apply core analytical knowledge and appropriate techniques and provide solutions to real time challenges of national and global society	3	2	3	2
Apply ethical knowledge for professional excellence and leadership for the betterment of the society.	2	3	2	3
Develop lifelong learning skills needed for better employment and entrepreneurship.	3	2	3	2

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

2.1 Program Curriculum (20)   Total Marks 20.00

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

Institute Marks : 10.00

Jeppiaar Engineering College – Department of Computer Science and Engineering is affiliated to Anna University, Chennai. The department follows the syllabus in full time and it follows semester pattern. B.E course is comprised of eight semesters. The curriculum comprises of General, Basic Sciences and Professional Subject.

Our Anna University affiliated institution has the prescribed curriculum which consists of courses and content relevant to the programme. The outcomes are developed and an Committee map the course outcomes with the Programme Outcomes and Programme Specific Outcomes to find the gap in the curriculum with respect to the attainment of trainings like soft skill and technical training or by teaching additional topics in certain courses, beyond syllabus which is approved by the Department Advisory Committee.

Action Taken

Guest lecturers / seminars by Subject Matter Experts (SME) from industry and academia are conducted and students are encouraged to participate and gain knowledge. Content beyond the Syllabus are taken parallel to the regular classes.

Various workshops on emerging trends in the field of Computer Science are organized to create awareness and gain knowledge among the students.

Industrial tour to industries are organized to update students with current trends in Computer Science and Engineering thereby motivating them for higher education, Value Added Courses taken up by the students inside the campus will help them to improve their knowledge in new technology.

List of PSO

PSO1	An ability to understand the core concepts of computer science and engineering and to enrich problem solving skills to analyze, design and implement software and hardware based systems of varying complexity.
PSO2	To interpret real-time problems with analytical skills and to arrive at cost effective and optimal solution using advanced tools and techniques.
PSO3	An understanding of social awareness and professional ethics with practical proficiency in the broad area of programming concepts by lifelong learning to inculcate employment and entrepreneurship skills.

Table 2.1 Category of Courses with Credits for Regulation 2017

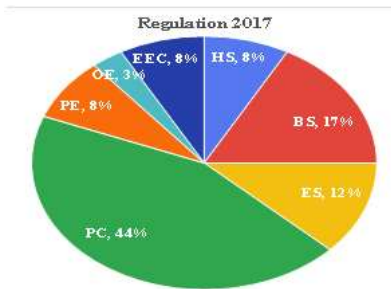| S.no	Subject per area	credits
1	HS	14
2	BS	31
3	ES	23
4	PC	82
5	PE	15
6	OE	6
7	EEC	14
	TOTAL	**185**

Fig 2.1(a) Regulation 2017 credit chart

Table 2.2(A) Category of Courses with Credits for Regulation 2021

S.no	Subject per area	credits	Credits%
1	HSMC	12	7.40
2	BSC	25	15.43
3	ESC	18	11.11
4	PCC	61	37.65
5	PEC	18	11.11
6	OEC	12	7.40
7	EEC	16	9.87
	TOTAL	**162**	**100**

Table 2.2(B) Category of Courses with Credits for Regulation 2021

- **Basic Science Courses (BS)**

Courses like Mathematics of all semesters, Physics and Chemistry including lab courses are included in basic sciences category.

- **Engineering Science Courses (ES)**

Other department theory and laboratory courses (which are not falling under the category of basic sciences) like Computer Programming, Engineering Graphics, Strength of materials, Fluid mechanics and associated labsare included in this category.

- **Humanities and Social Science Courses (HSS)**

Courses like Technical English, Environmental Science, Communication Skills lab, and Management Courses are included in this category.

- **Professional Core Courses (PC)**

All professional core subjects in the area of aerodynamics, propulsion, avionics, and structures are included in this category

- **Professional Elective Courses (PE)**

All professional elective subjects in the broad domain of aerodynamics, propulsion, avionics, maintenance, and structures are included in this category

- **Employability Enhancement Courses (EEC)**

Courses related to aircraft design, communication skill / interpersonal skills and project work are included in this category

Programme level courses versus PO and PSO mapping of all courses including first year courses for Regulation 2017 and 2021 are given in Table 2.2

Table 2.3 Programme Level Courses – PO & PSO Matrix (Regulation 2017)

Course No.	Course Code	Course Name	Programme Outcomes (2017)												Programme Specific Outcomes		
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
SEMESTER I																	
THEORY																	
C101	HS8151	Communicative English	-	-	-	-	-	3	-	-	3	3	-	3	-	-	-
C102	MA8151	Engineering Mathematics I	3	2	1	1	-	-	-	-	-	-	-	2	3	-	-
C103	PH8151	Engineering Physics	3	2	1	1	-	1	1	-	-	-	-	2	3	-	-
C104	CY8151	Engineering Chemistry	3	2	1	-	-	1	2	-	-	-	-	2	3	-	-
C105	GE8151	Problem Solving and Python Programming	3	2	1	1	1	-	-	-	-	-	-	1	3	2	1
C106	GE6152	Engineering Graphics	3	2	1	1	1	-	-	-	-	2	-	2	3	-	-
PRACTICAL																	
C107	GE8161	Problem Solving and Python Programming Laboratory	3	2	1	1	-	-	-	3	-	-	1	-	3	2	1
C108	BS8161	Physics and Chemistry Laboratory	3	2	1	1	-	1	-	3	3	-	-	-	3	-	-
SEMESTER II																	
THEORY																	
C109	HS8251	Technical English	-	-	-	-	-	3	-	-	3	3	-	3	-	-	1
C110	MA8251	Engineering Mathematics-II	3	2	1	1	-	-	-	-	-	-	-	2	3	-	-
C111	PH8252	Physics for Information Science	3	2	1	1	-	1	1	-	-	-	-	2	3	-	-
C112	BE8255	Basic Electrical, Electronics and Measurement Engineering	3	2	1	1	-	1	-	-	-	-	-	-	3	-	-
C113	GE8291	Environmental Science and Engineering	3	2	1	-	-	-	2	2	1	1	-	1	3	-	-
C114	CS8251	Programming in C	3	2	1	1	-	-	-	1	2	2	-	1	3	2	1
PRACTICAL																	

| C115 | GE8261 | Engineering Practices Laboratory | 3 | 2 | 1 | 1 | - | - | - | 3 | 3 | 2 | - | 1 | 3 | 2 | - |
| C116 | CS8261 | C Programming Laboratory | 3 | 2 | 1 | 1 | - | - | - | 1 | 2 | 2 | - | 1 | 3 | 2 | 1 |

SEMESTER III

THEORY

C201	MA8351	Discrete Mathematics	3	2	1	1	-	-	-	-	-	-	-	-	3	-	-
C202	CS8351	Digital principle and system Design	2	1	1	1	-	-	-	-	3	3	-	-	3	-	-
C203	CS8391	Data Structures	2	1	1	-	-	1	-	-	-	-	-		3	-	-
C204	CS8392	Object Oriented Programming	3	2	1	1	-	-	-	-	-	-	-	-	2	1	1
C205	EC8395	Communication Engineering	3	1	1	-	-	-	-	-	-	1	-	-	2	3	3

PRACTICAL

C206	CS8381	Data Structures Laboratory	3	2	1	1	2	-	-	1	1	1	-	1	3	2	-
C207	CS8383	Object Oriented Programming Laboratory	3	2	1	1	2	-	-	1	1	1	-	1	3	2	-
C208	CS8382	Digital System Laboratory	3	2	1	1	1	-	-	1	1	1	-	1	3	2	-
C209	HS8381	Interpersonal Skills/Listening and Speaking	-	-	-	-	-	-	-	1	2	3	-	2	-	-	2

SEMESTER IV

THEORY

C210	MA8402	Probability and Queueing Theory	3	3	2	2	2	-	-	-	2	2	-	2	2	2	-
C211	CS8491	Computer Architecture	3	2	1	1	1	-	-	-	-	-	-	-	3	-	-
C212	CS8492	Database Management System	3	3	1	1	1	1	-	1	-	1	-	-	3	3	1
C213	CS8451	Design and Analaysis of Algorithms	3	2	1	1	-	-	-	1	1	1	-	1	3	-	-
C214	CS8493	Operating Systems	3	2	1	1	2	-	-	1	1	-	-	1	3	-	-
C215	CS8494	Software Engineering	3	2	2	-	2	1	-	1	2	1	-	1	2	2	1

PRACTICAL

C216	CS8481	Database Management System Laboratory	3	2	1	1	1	-	-	1	1	1	-	1	3	3	1
C217	CS8461	Operating Systems Laboratory	3	2	1	1	1	-	-	1	1	1	-	1	3	1	1
C218	HS8461	Advanced Reading and writing	-	-	-	-	-	-	-	1	3	3	-	3	1	-	2

SEMESTER V

THEORY

C301	MA8551	Algebra and Number Theory	3	3	1	1	-	-	-	-	1	-	-	-	1	1	-
C302	CS8591	Computer Networks	3	1	1	1	-	-	-	-	-	-	-	1	3	1	-
C303	EC8691	Microprocessors and Microcontrollers	3	1	1	1	1	1	-	-	-	-	-	-	3	-	-
C304	CS8501	Theory of Computation	3	2	2	1	1	-	-	1	2	-	-	-	2	2	1
C305	CS8592	Object Oriented Analysis and Design	3	2	1	1	1	-	1	1	-	2	1	2	3	2	1

PRACTICAL

C306	EC8681	Microprocessors and Microcontrollers Laboratory	2	1	1	-	-	-	-	1	3	3	-	1	3	1	-
C307	CS8581	Networks Laboratory	3	2	1	1	3	2	-	1	1	1	-	-	3	-	-
C308	CS8582	Object Oriented Analysis and Design Laboratory	3	2	1	-	2	1	-	1	1	1	-	1	3	3	2

SEMESTER VI

THEORY																	
C309	CS8651	Internet Programming	3	2	1	-	-	-	-	1	1	2		2	-	3	1
C310	CS8691	Artificial Intelligence	3	2	2	-	-	-	-	-	2	1	-	-	3	2	2
C311	CS8601	Mobile Computing	3	2	1	1	-	1	-	1	-	-	-	1	3	2	2
C312	CS8602	Compiler Design	3	2	2	-	-	-	-	1	1	1	-	1	3	2	2
C313	CS8603	Distributed Systems	2	1	1	-	-	-	-	-	-	1	-	1	3	1	1
C314	CS8075	Professional Elective I -Data Warehouse And Data Mining	3	2	2	-	-	-	-	-	-	-	-	-	2	2	1
PRACTICAL																	
C315	CS8661	Internet Programming Laboratory	3	2	2	-	2	-	-	1	1	1	-	1	2	2	2
C316	CS8662	Mobile Application Development Laboratory	3	2	1	1	3	-	-	1	1	3	1	3	3	1	1
C317	HS8581	Professional Communication	-	-	-	-	-	1	1	1	3	2	-	2	-	-	2
C318	CS8611	Mini Project	3	2	1	1	3	3	3	3	3	3	3	3	3	3	3
SEMESTER VII																	
THEORY																	
C401	MG8591	Principles of Management	3	1	1	1	-	1	1	3	1	1	1	3	-	-	3
C402	CS8792	Cryptography and Network Security	3	1	1	-	-	-	-	-	-	-	-	-	2	-	-
C403	CS8791	Cloud Computing	3	2	1	1	-	-	-	-	-	-	-	-	3	-	-
C404	CS8079	Professional Elective II- Human Computer Interaction	3	2	1	1	1	2	-	1	-	2	-	-	2	2	2
C405	IT8074	Professional Elective III- Service Oriented Architecture	3	1	1	-	-	1	1	1	1	1	-	-	2	2	2
PRACTICAL																	
C406	CS8711	Cloud Computing	3	3	2	-	2	-	-	1	1	1	-	1	3	3	1
C407	IT8761	Security Laboratory	3	2	1	-	2	-	-	1	1	1	-	1	2	2	1
SEMESTER VIII																	
THEORY																	
PROJECT																	
C408	GE8076	Professional Elective IV - Professional Ethics in Engineering	-	-	-	-	-	1	1	3	1	1	1	2	-	-	3
C409	CS8080	Professional Elective V- Information Retrieval Techniques	3	2	1	1	1	-	-	-	-	-	-	-	1	-	-
C410	IT8711	Project Work	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total			164	107	66	42	41	28	17	51	61	63	11	64	148	71	53

Table 2.4 Programme Level Courses – PO & PSO Matrix (Regulation 2021)

Mapping of Course Outcome and Programme Outcome																	
Year	**Sem**	**Course name**	**PO**												**PSO**		
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	3

I	**I**	Induction Programme	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Professional English - I	1.6	2.2	1.8	2.2	1.5	3	3	3	1.6	3	3	3	-	-	-
		Matrices and Calculus	3	3	1	1	0	0	0	0	2	0	2	3	-	-	-
		Engineering Physics	3	3	1.6	1.2	1.8	1	-	-	-	-	-	1	-	-	-
		Engineering Chemistry	2.8	1.3	1.6	1	-	1.5	1.8	-	-	-	-	1.5	-	-	-
		Problem Solving and Python Programming	2	3	3	3	2	-	-	-	-	-	2	2	3	3	-
		தமிழர்மரபு /Heritage of Tamils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Problem Solving and Python Programming Laboratory	2	3	3	3	2	-	-	-	-	-	2	2	3	3	-
		Physics and Chemistry Laboratory	3	2.4	2.6	1	1	-	-	-	-	-	-	-	-	-	-
			2.6	1.3	1.6	1	1	1.4	1.8	-	-	-	-	1.3	-	-	-
		English Laboratory $	3	3	3	3	1	3	3	3	3	3	3	3	-	-	-
	II	Professional English - II	3	3	3	3	2.75	3	3	3	2.2	3	3	3	-	-	-
		Statistics and Numerical Methods	3	3	1	1	1	0	0	0	2	0	2	3	-	-	-
		Physics for Information Science	3	1.3	2	1.3	2.3	1	1.3	-	-	-	-	2	-	-	-
		Basic Electrical and Electronics Engineering	2	1.8	1	-	-	-	-	1	-	-	-	2	-	-	1
		Engineering Graphics	3	1	2	-	2	-	-	-	-	3	-	2	2	2	-
		Programming in C	2	2	2	1	2	1	1	1	2	-	3	2	2	2	-
		தமிழரும் தொழில் நுட்பமும் /Tamils and Technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Engineering Practices Laboratory	3	2	-	-	1	1	1	-	-	-	-	2	2	1	1
		Programming in C Laboratory	2	2	3	2	1	2	-	-	2	1	2	2	2	2	-
		Communication Laboratory / Foreign Language $	2.4	2.8	3	3	1.8	3	3	3	3	3	3	3	-	-	-
II	**III**	Discrete Mathematics	1	3	2	1	-	-	-	-	-	1	-	-	-	-	-
		Digital Principles and Computer Organization	3	3	3	3	1.8	1.6	1	1	1	1	1.6	2.6	1.4	2.6	1.6
		Foundations of Data Science	2	2	1	2	2	1	1	-	1	1	1	2	2	2	2
		Data Structures	2	2	1	2	2	1	1	-	1	1	1	2	2	2	2

		Object Oriented Programming	2	1	2	2	2	-	-	-	2	2	1	2	3	2	2
		Data Structures Laboratory	2	2	2	1	2	-	-	-	2	2	2	2	2	2	3
		Object Oriented Programming Laboratory	2	2	2	2	2	-	-	-	2	2	2	2	2	2	2
		Data Science Laboratory	2	2	2	2	1	-	-	-	2	2	2	2	2	3	2
		Professional Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Year	Sem	Course															
	IV	Theory of Computation	2	2	2	2	1	-	-	-	1	2	2	2	2	2	2
		Artificial Intelligence and Machine Learning	2	1	2	2	1	-	-	-	2	2	2	3	2	2	2
		Database Management Systems	2	2	3	2	1	-	-	-	2	2	2	2	2	2	3
		Algorithms	2.67	1.8	3	1	-	-	1.33	-	-	-	-	1	-	1	1
		Introduction to Operating Systems	2	2	2	2	1	-	-	-	2	2	2	2	1	2	2
		Environmental Sciences and Sustainability	2.8	1.8	1	1	-	2.2	2.4	-	-	-	-	1.8	-	-	-
		Operating Systems Laboratory	2	2	2	2	2	-	-	-	2	2	2	2	2	2	2
		Database Management Systems Laboratory	2	3	2	2	1	-	-	-	2	1	3	2	2	2	2
III	V	Computer Networks	-	1	-	-	1	-	-	-	-	1	-	-	-	1	1
		Compiler Design	3.00	2.80	2.60	2.20	2.00	-	-	-	2.60	2.00	1.60	2.40	1.80	1.80	2.00
		Cryptography and Cyber Security	3	2.6	2.6	2.6	2.8	-	-	-	2	-	-	1.2	2.8	2.8	3
		Distributed Computing	1.8	2.4	1.8	2.4	2	-	-	-	2.6	2.2	2.2	1.6	2	1.8	1.6
	VI	Object Oriented Software Engineering	2	2	1	2	2	-	-	-	-	1	1	2	2	2	1
		Embedded Systems and IoT	2.6	2	3	2.4	1.5	-	-	-	1	2.2	2.2	2.4	2.2	1.6	2.6
IV	VII	Human Values and Ethics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Summer internship	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	VIII	Project Work / Internship	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 2.5 Identified Curricular Gaps

S.No	PO Coverage	Regulations 2017
1	High>=60	Pos: 1,2,3,9,10,12 PSOs:1,2
2	Medium≥40&≤60	Pos: 4,5,8 PSOs:3
3	Low≤39	Pos: 6,7,11

List of Curriculum gaps for attainment of defined Pos and for R2017 Courses are mentioned below:

- PO6
- PO7
- PO11

Table 2.6 Supporting Activities to Fill the Curricular Gaps

	Activity	Impact
1.	Soft Skill Training	• Awareness on Effective Presentations and Design Documentation
2.	Industrial Visits	• Awareness of Modern Tool Usage • Practical Perspective on the World of Work • Learn Practically the Working Methods and Employment Practices • Interact with Industries and know more in Social and Environment Context • Real-life Situation while being mentored by a variety of Industry Experts
3.	Value Added Courses / Workshops	• Awareness of Modern Tool Usage • Incorporate Individual and Teamwork within Students • Acquire Research-based Practical Learning

4.	Guest Lectures	• Improve Student's learning in a more Interactive, Topic Specific Basis • Get Professional Engineering Practice with Industry Leaders
5.	Mini Project	• Awareness of Modern Tool Usage • Incorporate Individual and Teamwork within Students • Know about Project Management and have a Lifelong Learning • Technical Hands-on experience
6.	Paper Presentation	• Understanding the application of every topic presented by the students • Incorporate Individual and Teamwork within Students • Helps in research work of every topic undertaken

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

Identifying the Curriculum Gap

Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) are mentioned in Annexure I.

Process for identifying curricular gaps

- The prescribed curriculum for the institutions affiliated to Anna University, consists of courses and content relevant to the programme. The outcomes of the individual courses are framed by Course Experts, if they are not explicatively mentioned by the university.
- The process of mapping the Course Outcomes with the Programme Outcomes and Programme Specific Outcomes to find the gap in the curriculum with respect to the attainment of POs and PSOs, is carried out by Programme Coordinator and Programme Assessment and Evaluation Committee.
- Certain POs which are weakly addressed by the prescribed curriculum are thus identified. Identified gaps shall be filled by introducing additional courses (value added courses), trainings like soft skill and technical training or by teaching additional topics in certain courses as content beyond syllabus.
- The courses in which content beyond prescribed syllabus to be added are decided after due deliberations between Programme Coordinator and Course Experts.
- Identified gaps and the methods to fill the gaps are finalized and forwarded to the Department Advisory Committee for approval.

Fig 2.2(a) Steps Involved in Identification of Curricular Gaps

The process used to identify extent of compliance of the University curriculum for attaining the Programme Outcomes and Programme Specific Outcomes is specified as mentioned below:

Table 2.4 Identified Curricular Gaps

S.No	PO Coverage	Regulations 2017
1	High>=60	Pos: 1,2,3,9,10,12 PSOs:1,2
2	Medium≥40&≤60	Pos: 4,5,8 PSOs:3
3	Low≤39	Pos: 6,7,11

List of Curriculum gaps for attainment of defined Pos and for R2017 Courses are mentioned below:

- PO6
- PO7
- PO11

Table 2.5 PO, PSO Curriculum Gap Mapping

S. No	Regulation	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1.	2017	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Table 2.6 Supporting Activities to Fill the Curricular Gaps

Activity		Impact
1.	Soft Skill Training	• Awareness on Effective Presentations and Design Documentation
2.	Industrial Visits	• Awareness of Modern Tool Usage • Practical Perspective on the World of Work • Learn Practically the Working Methods and Employment Practices • Interact with Industries and know more in Social and Environment Context • Real-life Situation while being mentored by a variety of Industry Experts
3.	Value Added Courses / Workshops	• Awareness of Modern Tool Usage • Incorporate Individual and Teamwork within Students • Acquire Research-based Practical Learning
4.	Guest Lectures	• Improve Student's learning in a more Interactive, Topic Specific Basis • Get Professional Engineering Practice with Industry Leaders

5.	Mini Project	• Awareness of Modern Tool Usage • Incorporate Individual and Teamwork within Students • Know about Project Management and have a Lifelong Learning • Technical Hands-on experience
6.	Paper Presentation	• Understanding the application of every topic presented by the students • Incorporate Individual and Teamwork within Students • Helps in research work of every topic undertaken

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Prims and kruskals algorithm	seminar and problem solving	08/09/2022	Mr.Subash Chandar, AP/CSE	95	PO3,PO6,PO7
2	Java Swing Class Hierarchy	seminar	19/09/2023	Mr.Gowthaman, AP/CSE	90	PO8,PO9,PO11

2020-21

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	RIA Rich Internet Applications	seminar	25/03/2021	Dr.Venkatesh, Associate Professor/CSe	95	PO8,PO9
2	Hidden Markov Model	Seminar and problem solving	07/04/2021	Mrs.Anuja, AP/CSE	95	PO3,PO6,PO9

2019-20

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	E-mail Security: IKE(Phases of IKE)	SEMINAR	11/09/2019	MS.ANBUVIZHI, AP/CSE	90	PO4,PO7,PO10
2	Cloud Security Algorithms	SEMINAR	12/08/2019	MS.VIDHYA, AP/CSE	95	PO3,PO7,PO10

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

(Processes may include adherence to academic calendar and improving instruction methods using pedagogical initiatives such as real world examples, collaborative learning, observations, analysis of data etc. encouraging bright students, assisting weak students etc. The implementation details and impact analysis need to be documented)

Teaching is perceived as stimulating, directing, guiding the learner and evaluating the learning outcomes of teaching. Teaching and learning is an action necessary t educating the students to meet the technological changes with ethics and socially conscious. In teaching - learning process, the faculty members can effectively apply and ada leads to improve knowledge, develop skills and the desire to learn more.
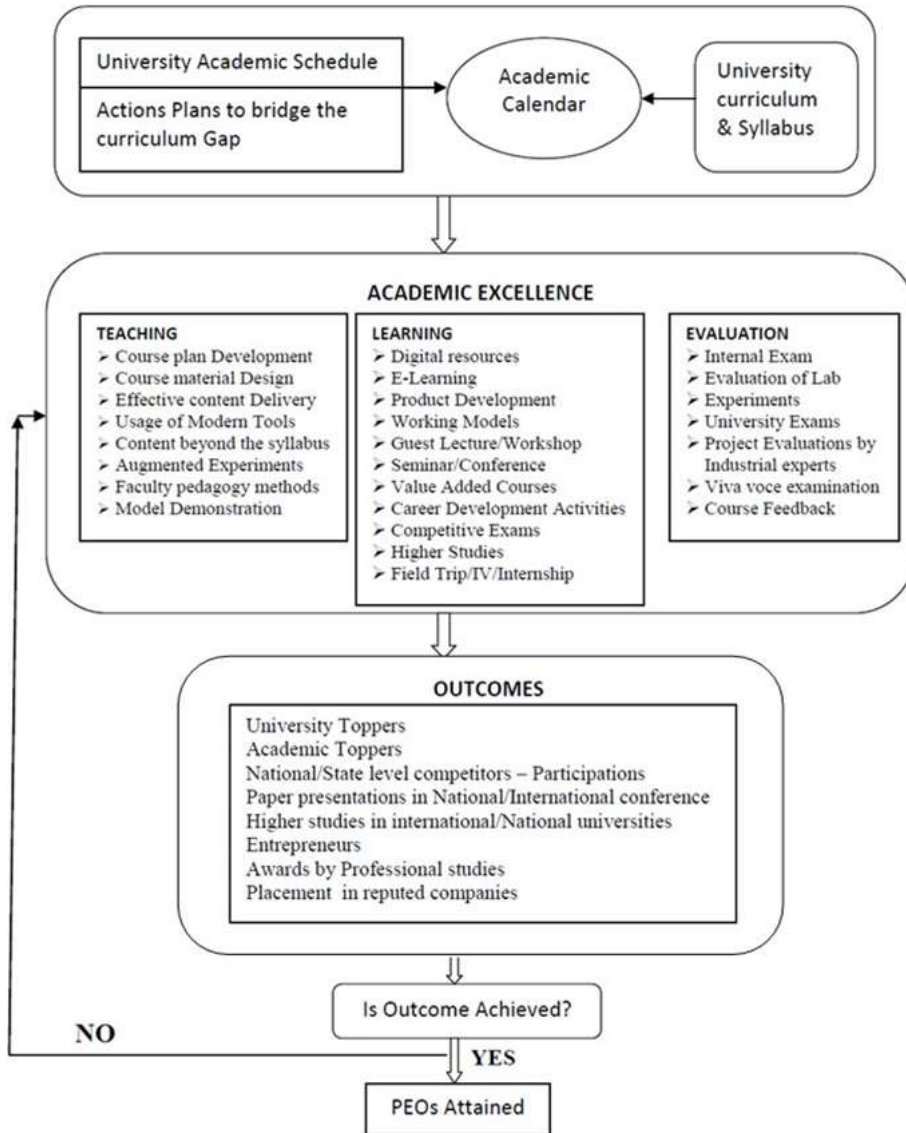

Fig No. 2.1 Teaching Learning Process

A. **Adherence to academic calendar**

The Affiliating Body Anna University, Chennai gives an academic schedule for every semester.

- It provides semester-wise dates for reopening of theory class, internal assessment, closing date for theory class, beginning dates for laboratory examination and theory
- It gives prescribed total no of class hours for each course. The college adheres to the schedule strictly.
- In pair with Anna University academic schedule college will also prepare a calendar of events well in advance before the commencement of the semester based on college
- It consists of the activities planned for the semester which includes reopening dates, internal assessment examination dates, public holidays, closing date study holidays

Fig No. 2.2(b) Academic Calendar Preparation

Table 2.7(A) Department Academic Calendar Schedule

Semester	Commencement (In Month)	Last Working Day (In Month)	University Exam Commencement (In Month)
ODD	June/July	October/November	November/December
EVEN	December/January	April/May	May/June

Table 2.7(B) Institution Academic Calendar Schedule

Semester	Event	Commencement (In Month)
ODD	Guest Lecture	July & August
	Industrial Visit	August & September
	Career development Activities	July
	Workshop/ Conferences	August
	Internship	June
	Value added course	July to August
	Professional activities	August
EVEN	Guest Lecture	January & February
	Industrial Visit	February & March
	Career development Activities	February & March
	Workshop/ Conferences	March
	Internship	December
	Value added course	January - March
	Professional activities	February

Program Assessment and Evaluation committee meeting is convened to finalize the department activities and department academic calendar in line with the Institute academic calendar.

- Guest lectures
- Industrial visits
- Internship
- Conferences
- SDP, FDP
- Value added course
- Association activities
- Career development activities etc.

Subject allotment is done well in advance for the staff to prepare Lesson plans, Course plan, Soft and Hard copies of the lecture notes , question bank which will be uploaded.

At the end of every semester, all the activities conducted during the period are summarized and follow up actions are taken if there is any deviation.
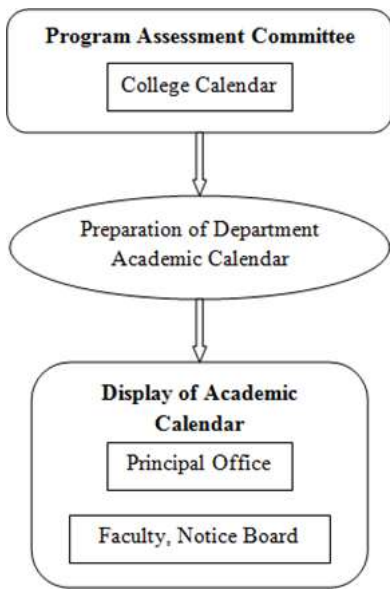
Fig No. 2.2(b) Academic Calendar Preparation

A. **Use of various instructional methods and pedagogical initiatives**

Teaching Methodologies

College has taken several steps to portray and channelize the energies and time for fruitful way in the teaching – learning process. The faculty of department adopts environment for student. To accomplish this, different teaching strategies are followed like preparation of course plan, develop course material, effective content delivery and usage

- Faculty members are allocated based on specialization and subject choice.
- Timetable in-charge prepares the timetable that includes lecture and tutorial hour, seminar, library, laboratory hours and training hours in accordance with the credit request. The copies of the time tables are made available in the department notice board, class notice board and shared in e - platforms.
- Faculty members prepare course plan, lecture plan and course materials for the respective courses for the effective content delivery.
- Faculty members maintains a course file that includes time table, syllabus, course plan, university question papers, Question bank, internal test and assignment question . The progress of the course plan is verified through course file and class record once in a month by the Head of the Department and Head of the Institution.
- Lecture mode of delivery is varied depending upon the nature of the subject.

To improve the teaching and learning process various instructional methods are formulated by the faculty members with the pedagogical initiatives. To equip the faculty member we are exposed to various faculty development programs, workshops, seminars, orientation programs at various levels.

Learning Methodologies

Various pedagogical methods like Practical, Lecture Mode, Audio Visual aids, Language lab, Industrial visit, Workshop, technical quiz, Conference were utilized. These methodologies include traditional black board teaching, presentations, collaborative learning methods are used where every concept is explained with real world.

- Invited technical talks and seminars on the current trends are done regularly from the industry persons.
- The instructional methods are lecture mode, practical mode are used for the full benefit.
- Power-point presentations with LCD are used in the delivery of lectures. The teaching process has a blend of concepts, applications and problem-based teaching.
- Smart board, Projector is used for video and audio of NPTEL classes.
- The laboratory time is devoted for demonstration, practice and feedback.
- Collaborative learning is achieved through tutorials case studies where in the interaction between students and teachers are high. These also facilitated the use of internet clippings and animation modules.
- At the same time, several tutorials available in the internet are also supplemented, which provides modulation of voices persons and stimulate the students for higher level. The concepts of engineering were explained with real time examples. The complex ideas were taught through models and software.
- Student's skills would be developed by giving assignments, case studies related to applications.
- Industrial visits are conducted at least two per semester in-order to reduce the curriculum gap between industry and institute.
- Workshops are organized to help the students to understand concepts beyond curriculum.
- Provided Wi-fi connection in the campus for effective learning process.
- Training and Placement cell gives soft skill training and conducts mock test/interview for students.
- Weekly one period is allocated as Library hour. Students learn from library facilities like magazines, journals & books.

Assignments: Giving assignments to the students can provide an opportunity for them to apply critical thinking skills as well as help them to learn course content. Interactive Seminars: All the students will prepare technical topic and present in the class.

Introducing students to new models and working of any model through simulation models available on the internet (NPTEL Video Tutorials)

Technology has made the Teaching – Learning process easier and quicker. Teaching through Video Lectures/tutorials impresses the students and makes them to understand the concepts through visual objects. The NPTEL videos are structured for easy learning and teaching approach. These videos are supplemented with real time applications.

- With the supporting Video tutorials from NPTEL, Course teacher is explaining the difficult concepts
- Video lectures gives wide explanation of different concepts and more insights for the good learners. It increases visual learning capability without boring the students.
- Simulation videos are very much useful for real time applications and analysis.

Table 2.8 NPTEL Name List

S.No	Program Specific Criteria	Name of the Faculty	Competency Attained Through
1.	Programming in C	Dr. J. AROKIA RENJIT	NPTEL Online Certification on "Introduction to programming in C".

2	Data Structures/ Data Science	Dr.J. JOSPIN JEYA	NPTEL Online Certification on "Introduction to programming in C". NPTEL Online Certification on "Programming, data structures, and algorithms using python". NPTEL Online Certification on Design and Analysis of Algorithms. NPTEL Online Certification on Data Science for Engineers.
3	Programming in c	Dr. K.JAYA SAKTHI VEL MURUGAN	NPTEL Online Certification on "Introduction to programming in C".
4	Big Data/ Software testing	Dr. A.VIDHYA	NPTEL Online Certification on "Software testing". NPTEL Online Certification on Big data Computing.

B. **Methodologies to support weak Students and encourage bright students**

Jeppiaar Engineering College always had the culture of encouraging weak students by providing them necessary guidance and moral support.

Table No 2.9(A) Weak students support

Identification Criteria	Actions taken
Students scoring less than 60% of marks in Internal Assessment.	1. Student counselor 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. Conduction of remedial classes
Diploma students who entered with less basics of mathematics	Conduction of orientation classes.
Students who fail in semester exams	Conduction of extra classes to those who failed n previous semester subjects.

Weak students were trained by tutorial classes during Internal Assessment and Model Examination.

- Periodical tests were conducted and taken special care to score in the internal and also in university examinations. Assignments were given and monitored to complete the assignment, test, project etc.
- Students who are lacking of English language skills will be trained in the evening by language experts. Study camp will be conducted for weak students those who stay in hostel.
- Hostel students will be trained for exam by conducting coaching classes in hostel.
- Counseling and Mentoring are given by the Counselor, Course Staff and Head of the Department along with Parents. The performance of the slow learners is intimated regularly to their parents
- To improve the performance of the students Notes, Question Bank with university questions are provided.

Jeppiaar Engineering College always had the culture of encouraging bright students by providing them necessary guidance and moral support.

Table No 2.9(B) Encouragement of Bright Students

Identification Criteria	Actions taken
Top ten academic toppers	Motivate them to continue their Excellency in academics. To take up mini projects& encourage to participate in inter college national/international fest.
Top three students of each class.	Awarded with certificate.
Students securing ranks at University level.	Distribution of Gold medals
Batch Topper in university examination	Awarded with **Dr.T. N. SESHAN** award

Bright students are identified based on their overall performance and their orientation towards academics. In order to encourage the bright students various motivational initiatives have been developed.

- Bright students are encouraged to develop innovative concepts and they are also motivated to meet industrial standard requirements through their projects and to The students with business proposal were motivated to apply for fund to start up companies through business incubator.
- They are encouraged to participate in various competitions, workshop, conference etc.
- Bright students having high academic track records are encouraged to take up competitive examinations like GATE, GRE etc.,
- Bright students having orientation to research are encouraged by faculties to publish their work in National & International conferences& Journals.
- Toppers are motivated to achieve university ranks in the university examination. University semester toppers were given gold medal, gold coin, and certificates. Department level toppers will be awarded with certificate. Class Semester Toppers will be provided by certificate and cash prize.

Table No 2.9(C) Anna University Rank Holders

S.NO	NAME	BATCH	CGPA	RANK
1	JAYARAM SINGH R	2017-2021	9.14	15
2	KARPAGAM	2017-2021	9.09	19
3	ADLIN SAJEESHA M J	2018-2022	9.25	16

4	SUBHA VARSHINI P	2020-2022(M.E,CSE)	9.44	1 (GOLD MEDAL)
5	MALAR KODI M	2020-2022(M.E, CSE)	9.31	6

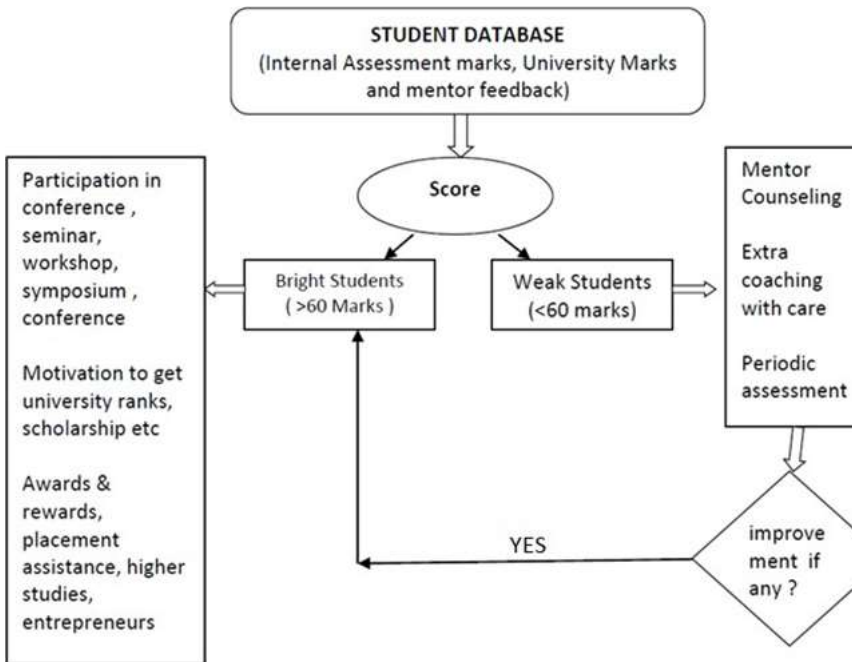Process of Encouraging Bright Students and Assisting Weak Students

Fig No: 2.3 Process for encouraging and motivating students

A.Quality of classroom teaching

Advanced teaching aids such as LCD projectors, Smart board, have been used in order to make students to understand the concepts and interpret in a better manner actively utilizing the OBE to cater the learning needs of students by innovative way.

Lecture Session duration 45 minutes. Assignments are given to students for their better performance. Case study, Technical quiz is conducted for the better understanding course files, work dairies.

B.Conduct of experiments

All experiments prescribed in the curriculum were conducted.

Laboratory experiments in lab classes will create an opportunity for the students to implement the concepts they studied in theoretical classes.

As per the university guidelines 10-12 experiments are to be conducted. One or two experiments are conducted beyond the specified list for relevant courses.

Course committee of respective specialization form a group with a team leader to discuss the preparation of manual, Material requirements, conduction of experiments a The Laboratories sessions were conducted in session of 3 Periods, in each session the faculty explains the logic, connections, procedure and experimentation.

Students will write the complete experiment concerned in the observation book, and then code/debug/execute/verify the theoretical results with the experimentation r Viva questions will be prepared in advance for all the experiment.

C.Continuous Assessment in the laboratory

Ø   As per the curriculum, the laboratory classes were conducted and evaluate the observation manual and record note regularly and clarify the doubts and needs.

Ø   The Laboratories are evaluated by the faculties for 20 marks based on their performance during the semester, attendance, internal test and record submission. E major project work.

D.Student feedback of teaching learning process and actions taken

Feedbacks were taken from the students regarding subjects, faculties, facilities, etc. regularly in-order to solve their problems. As per their expectation, the teaching aids Provide text books and reference books for all the students for effective teaching learning process. The feedback will be collected for all the courses.

Table No 2.10 List of Feedback Methods

S.No.	Feedback Mechanism	No. of times/semester
1	Class Committee Meeting	Thrice a semester
2	Programme entry survey	Once in a semester
3	Programme exit survey	Once in a year
4	Faculty Feed back	Twice a semester
5	HOD's Feed back	Once in a semester
6	Semester end students feedback	Once in a semester

Feedback collection process

- Class committee meeting is conducted by Head of the Department with the Program coordinator, subject handing faculty members and four students as representative understanding level and content delivery of faculty members.
- Faculty members themselves collect feedback on their own from the students to improve their teaching.
- Head of the Department interacts with the students to know the views and thoughts on the method of teaching of faculty members.

- At the end of the semester the faculty members collect course end survey for their courses to improve their method of content delivery Online feedback is taken at the end of the semester for all the courses.
- Based on the feedbacks obtained the necessary corrective measures are taken at various levels to improve the teaching and learning process.

Feedback analysis process:

Feedback collected from students are first analyzed at the level of HOD and then at the level of faculty appraisal committee, headed by the Principal. The contents of the feedback will be shared with each faculty member individually. The feedback system works as an eye opener for the faculty.

Basis of reward/corrective measures, if any: Best faculty award is given based on students feedback, HOD's evaluation, the faculty's self-appraisal report and the marks

Outcomes observed after adopting the above mentioned innovative TLP

- Lecture with discussion improves the understanding level.
- Demos, models and animated videos are used to make understand the complex concepts. Tutorials improve the analytical skills and interaction with the faculty to clarify their doubts. Peer to peer learning increases the interaction between students.
- Group discussion improves communication, coordination and leadership qualities. Seminar improves communication skill, preparation of a document and usage of library. Project based learning is
  - Used to apply theoretical knowledge practically Used to solve real time problems
  - To build team work
- Continuous encouragement of bright students improves more participation in co-curricular activities. Regular coaching and counseling improve results and reduce the number of failures.
- Feedback mechanism supports effective teaching.

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

A.Process for internal semester question paper setting and evaluation and effective process Implementation (5)

- All internal exams are organized by examination cell in a centralized manner.
- Examination schedule will be prepared and it will be intimated to the students, dep Assessment 2, Assessment 3 and Model examination were conducted.
- Internal examination question paper format is framed / updated by Controller of Examination (COE) in discussion with Principal based on affiliated University model.
- Tests are conducted for 60 marks for Assessment test and 100 marks for Model Examination.

Table No 2.11 Internal assessment

Assessment name	Portion Covered	Time duration	Marks
Assessment 1	Unit 1 & ½ of Unit 2	2 hours	60
Assessment 2	½ of Unit 2 & Unit 3	2 hours	60
Assessment 3	Unit 4 & ½ of Unit 5	2 hours	60
Model Examination	All 5 Units	3 hours	100

- All questions follow Revised Blooms taxonomy action verbs and mapped with CO and PO.
- Question papers will be validated by Program assessment and evaluation committee and HoD, to ensure the quality and the instructions, adhering the learning levels Examination cell allot the cross department invigilation duty for the faculty members.
- Disciplinary action will be taken, in case of malpractices if any.
- The answer sheets are evaluated through central valuation system.
- After the evaluation, the answer sheets are handed over to the students for verification.
- Program assessment and evaluation committee conducts the result analysis meeting with course handling faculty to improve the teaching learning process. After evaluation the learning levels are analyzed to measure the CO attainment.
- Action plans are proposed if target level of CO attainment is not met with POs.

Question Paper Setting

- Guidelines from COE
- Learning levels with Blooms Taxonomy
- Mapping of questions with COs
- Distribution of Marks
- Scheme of Evaluation
- Question Paper

Approval of the Question Paper by the HOD

Conduct of Examination

- Scheme of Evaluation
- Conduct of Centralized Exam

Evaluation

- Scheme of Evaluation
- Distribution of Answer

Result Analysis and Publication

- Result
- Measuring the COs
- Analyzing the Learning
- Action plan for attaining

Fig 2.4 Question Paper setting and Analysis Process

A.Process to ensure questions from outcomes/learning level perspectives

- Each question is mapped with COs POs & Blooms taxonomy (BT) levels.
- Student who answered to particular question is taken into consideration and average of all students' marks is taken for CO -PO attainment.

B.Evidence of COs Coverage in class test/Midterm test

Individual student's Answer Script is evaluated and question answered by student is mapped with COs and POs.

C.Quality of Assignment and its relevance to COs

- Based on the Course Outcome, Assignments are given to students periodically.
- Assignments are announced by the respective faculty members with submission dates.
- Assignment questions are prepared using Bloom's Taxonomy process.
- Assessment tools for assignment is as follows

Table No 2.12 Assessment Tool for Assignments

Rubric components	CO1	CO2	CO3	CO4	CO5
Assesment Test I	65%	35%	-	-	-
Assesment Test II	-	35%	65%	-	-
Assesment Test III	-	-	-	65%	35%
Model Exam	20%	20%	20%	20%	20%
Assignment I Assignment II	15%	10%	15%	15%	45%
Total	100	100	100	100	100

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

(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type(application, product, research, review monitoring, evaluation including demonstration of working prototypes and enhancing the relevance of projects. Mention Implementation details including details of POs and PSO

- Projects identified are important component at B.E level, which imparts and improves the ability, practical hand on experience and knowledge on the engineering.
- These skills improve the employability of the candidates. These skills also help to initiate the process of interviewing.
- An orientation session is arranged to students and details are informed about project, The Project work is supervised by faculty in-charges and HOD.
- The project may be prototype, application, and research or backed by analysis and simulation.
- The projects are assessed using the objectives met by the project.
- The assessment is carried out through proper periodical reviews.

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

- Based on the advancement in the field of computer sciences, and gaps identified in the syllabus of Anna University, a few topics are identified by the faculties. A pool of all specializations – Image Processing, Network Security, Cloud and Grid Computing and Machine Learning are collected.
- Domains cover wide range of components, product, research, review, applications sciences, standards, safety, ethics etc. In addition, students are given a chance to select their own topic in consultation with the faculty (Guide).
- These Domains were displayed on the notice board and allowed the selection. The Domain, student name, facilitator name and date of seminar presentation are finalize All the students are educated to understand about the importance of doing project with social relevance.
- Students are instructed to start the project work at VII semester and are extended to VIII semester. Project work is done in group with a maximum of 3 students.
- Project work is expected to be proposed by students and they can also be supported by faculty members of the core group.
- Students are instructed to choose any of the research topics referred from reputed journals, which have to be implemented as their final year projects.
- 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
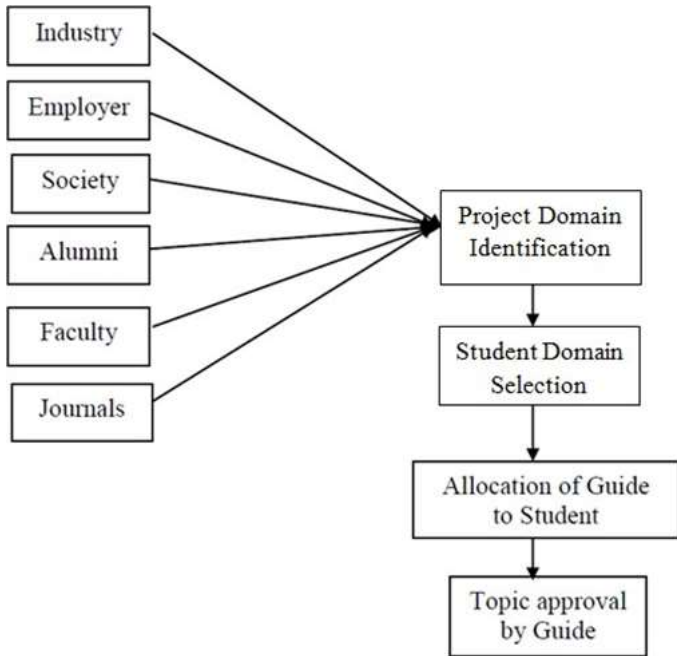
Fig No: 2.5   Process of project identification

The following table shows the student name along with domain of the particular project.

BATCH NO	REG NO.	NAME OF THE STUDENT	TITLE OF THE PROJECT	DOMAIN
B1	310819104002	AARTHY.S	BLOOD BANK MANAGEMENT SYSTEM	Data Mining
	310819104006	ANITHA.S		
	310819104003	AASHIKALI.S		
B2	310819104012	BARATH.R	BROX AUTOMATION	IOT
	310819104061	PREMBABUC		
B3	310819104004	AFRAJABEEN	AUTOMATED VEHICLE CONTROL SYSTEM TO AVOID ACCIDENTS USING WIRELESS COMMUNICATION	IOT
	310819104019	DEEPIKAK		
	310819104005	ANBUVELANA		
B4	310819104020	DHAKSHINAMOORTHYB	ENHANCE CRYPTOCURRENCY TRADEWEB APPLICATION	Cyber Security
	310819104023	DILLI PRASATHS		
B5	310819104007	ANNCYA	IMAGEFORGERYDETECTION	Data Mining
	310819104017	DEBORAHBLESSYJ		
	310819104008	ARAVINDHANSP		
B6	310819104022	DHANUSHS	REAL AND FAKE JOBS CLASSIFICATION USING NLTK TECHNIQUE	Artificial Intelligence
	310819104027	FERVEZ AHAMEDA		

	310819104009 ARULVELANA		
	310819104010 ARUNKUMARS	F2C E-FRAMER WEB APPLICATION	Web Application
B7	310819104013 BARATHKUMARM		
	310819104011 ASHWINI S		
	310819104018 DEEPIKAD	OCEANWAVE PREDICTION	Data Mining
B8	310819104722 AISHWARYAM		
	310819104014 BLESSANCEC		
	310819104016 DARSHANS	REAL TIME FLOOD MONITORING AND FORECASTING SYSTEM	Data Mining
B9	310819104026 FARHAANAHMEDS		
	310819104015 BOOBALACHANDRANC		
	310819104021 DHANASEKARANK	FORECASTING THE FUTURE OF MENTAL WELLNESS	Machine learning
B10	310819104025 ESWARAPANDIM		
	310819104024 DINUANANTHM		
	310819104044 KOTHALAMUTHUN	TRAVEL RECOMMENDATION SYSTEMUSING MERN STACK	Artificial Intelligence
B11	310819104079 SHANKARV		
	310819104028 GOKULS		
	310819104037 HIMANSHUROY	STRESS DETECTION USING AI	Artificial Intelligence
B12	310819104064 RAGHULD		
	310819104029 GOKULAKRISHNANR	DETECTION OF CYBERBULLYING IN SOCIAL MEDIAPLATFORMSUSING DEEPLEARNINGANDMACHINELEARNINGAPPROACH	Cyber security
	310819104039 JAMES ZION J		
B13	310819104040 JAYARAJM		
	310819104030 GUNALANE	ADYNAMIC FOOD ORDERING WEBSITE: USING MERN STACK FOR ADVANCED & OPTIMIZED FOOD ORDERING SYSTEM	Artificial Intelligence
	310819104031 HARIHARANK		
B14	310819104045 KUMMARI NARENDRA		
	310819104032 HARIHARANP	HEALTH HAVEN- WEB APPLICATION CHATBOT FOR HEALTH ANALYSIS	Artificial Intelligence
	310819104042 JOE LILLIANJ		
B15	310819104049 LOKESH KUMARM		
	310819104033 HARIKRISHNANAL		
	310819104034 HARIPRABHUM	SECURE FILE STORAGE USING HYBRID CRYPTOGRAPHY	Cyber security
B16	310819104035 HARISHR		
	310819104036 HARISH.V		
	310819104057 NAVINKUMAR.S	CREDIT CARD FRAUD DETECTION USING STATE OF ART MACHINE LEARNING TECHNIQUE	Machine learning
B17	310819104082 SHYAMR		
	310819104038 JACK MELONY G	FETAL DEVELOPING BRAIN IMAGE CLASSIFICATION	Data mining
B18	310819104054 MOHAMMEDSUFIYANF		
	310819104041 JENCYIDHAYA.J		
	310819104043 KARTHIKA.S	SMART CONTRACT BASED AGRICULTURE FOOD SUPPLY CHAIN TRACEABILITY	Artificial Intelligence
B19	310819104050 MADHUMITHA.V		
	310819104046 LESSLIE JOHN D		
	310819104053 MELVIN SAVIOVX	DEVELOPIMAGE CONTROL TO LIMIT MAXIMUM IMAGESIZEAND CROPPING FEATURES	Artificial Intelligence
B20	310819104072 SAIRAM S		
	310819104047 LOGESWARANK		
	310819104060 PRAVEENRAJD	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	Machine Learning
B21	310819104074 SANJAIKUMARL		
	310819104048 LOGITHASAN		
	310819104063 PUJIT.S	OPTIMIZING INFORMATION LEAKAGE IN MULTI CLOUD STORAGE SERVICES	Cloud computing
B22	310819104083 SIVA.P		
	310819104051 MAGDALENENADHISHAAS		
	310819104062 PRIYANKAG	SMS INDUCEDCLOUD BASED BLOOD BANK SYSTEM	Artificial Intelligence
B23	310819104067 RASHMI AB		

Group	Reg No & Name	Project Title	Domain
	310819104052 MANO.K		
	310819104069 RAVI RAGHAV	LUNG CANCER PREDICTION USING DATASCIENCE TECHNIQUE	Data science
B24	310819104093 VISHNUM		
	310819104055 MOHANSAIBH		
	310819104065 RAJAGOPALANT	INTRUTION DETECTION USING DEEPLEARNING	Deep learning
B25	310819104077 SATHISHS		
	310819104056 MOTCHAENOK.C		
	310819104068 RAVEENRAJ.C	FACEMASK DETECTION BY USING MACHINE LEARNNING APPROACH	Machine learning
B26	310819104071 ROHITHSIVAM.P		
	310819104058 PAVITHRAR		
	310819104084 SNEHAXAVIER	DETECTING PATTERN IN CRIME ANALYSIS AND IDENTIFY THE CRIMINALS USING MACHINE LEARNING	Machine learning
B27	310819104091 VAISHNAVI R		
	310819104059 PRASANTHR		
	310819104066 RAMGANESHS	OBJECT DETECTION USING MACHINE LEARNING AND DEEP LEARNING APPROACH	Machine learning
B28	310819104089 TAMILTHENDRALM		
	310819104070 RISHIMURALI.T		
	310819104714 HEMACHANDER.S	CARLANE DETECTION USING NUMPY OPENCV PYTHON	Artificial intelligence
B29	310819104716 SIVAPRABU.M		
	310819104073 SANDHYAK		
	310819104075 SARANYAA	TOMATO LEAF DISEASE CLASSIFICATION USING DEEP LEARNING MODEL AND CNN	Deep learning
B30	310819104076 SARANYADEVIP		
	310819104078 SHALINIR		
	310819104087 SUWETHAB	CATASTROPHIC PREDICTION USING GRADIENT BOOSTING ALGORITHMS	Artificial intelligence
B31	310819104088 SWATHI K		
	310819104080 SHIVAANI SV		
	310819104090 THENMOZHIR		
	310819104094 VISHNUVARTHINIP	MOVIE RECOMMENDATION SYSTEM	Artificial intelligence
B32			
	310819104081 SHRUTHIR		
	310819104706 PITCHMAPRIYAK	DIABETES, BLOOD PRESSURE AND CHOLESTEROL DIAGNOSIS USING WEB APPLICATION	Web application
B33	310819104713 GIRISHAMV		
	310819104085 SUJITHAS		
	310819104086 SURIYALEKSHMIRM	HARD DRIVE FAILURE PREDICTION	Artificial intelligence
B34	310819104717 DEVIPRIYAS		
	310819104092 VIKRAM M	MACHINE FAILURE PREDICTION USING SMLT	Machine learning
B35	310819104704 MEIYANATHAN		
	310819104301 SURENDARRAJR		
	310819104001 AAKASHG	DESIGN AND DEVELOPMENT OF AERIAL SURVILLENCE SECURITY SYSTEM	Artificial intelligence
B36	310819104718 SOUMYADEEPHARI		
	310819104701 THILAKC	DRIVER DROWSINESS PREDICTION BASED ON MULTIPLE ASPECTS USING IMAGE PROCESSING TECHNIQUES	Image procwessing
B37	310819104712 RAGURAMR		
	310819104702 LOKESHWARANE	STUDENTID CARD DETECTION AND AUTOMATIC INE COLLECTION SYSTEM USING DEEP LEARNING	Deep learning
B38	310819104703 SANKARD		
	310819104705 JAYACHANDRANJ	CROPYEILD PREDICTION USING DATA ANALYTICS AND HYBRID APPROCH	Data analytics
B39	310819104719 MAHESHWARANM		

	310819104707 DHARUN.T	
	310819104708 RAAKESH.N	SMART ASSISTANT FOR BLIND PEOPLE USING Artificial
		RASPBERRYPI intelligence
B40	310819104709 NITHEESHRAAJ .R.M	
	310819104710 SHENOYBABUB	INVENTORY MANAGEMENT USING CLOUD Cloud
B41	310819104711 MATHIMITHRANT	APPLICATION computing
	310819104715 PRITHIVIRAJA	
	310819104720 AJAYJ	WILD LAND FIRE DETECTION SYSTEM WITH YOLO
		ALGORITHIM USING DEEP LEARNNING WITH CCTVIOT
B42	310819104721 RAKESHRG	AND DRONE

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

After categorizing the projects they will be mapped with POs and PSOs and the attainment are assessed based on the following:

- Individual Scope of Work (Algorithms)
  - Contribution for project accomplishment (Module levels).
  - Communication
  - Confidence

Table 2.13 Project PO-PSO Course Mapping

COs	PROGRAMME OUTCOMES (POs)												PROGRAMME SPECIFIC OUTCOMES (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	1	1	1	1	1	1	2	3	2	1
CO2	1	2	3	3	3	1	1	1	1	1	3	1	3	3	3
CO3	1	2	3	1	1	3	3	1	1	1	1	1	3	3	1
CO4	1	1	1	1	1	1	1	3	1	1	1	1	1	1	3
CO5	1	2	1	1	1	1	1	1	3	3	1	1	2	2	1

V. Project Monitoring & Review Process

Students will continue the project work with the guidance given by their allotted supervisor and students are instructed to report the supervisor weekly. Reviews are conducted properly by review committee members at regular intervals with prior information for efficient and quality implementation of the work.

Suggestions are given in the reviews to improve the quality of the project. After completion of the work, depending upon the type of the work, it is recommended for the presentation.

Table No 2.14   Showing the Project Schedule

Timeline	Task	Particulars
SEMESTER SEVEN		
12th week	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.
14th week	Report	The submitted project titles are reviewed by a Project Committee.
SEMESTER EIGHT		
1st week	Guide allotment	Guide will be allotted based on areas of interest.
4th week	First Review	Students are instructed to submit requirement specification and give a PowerPoint presentation for the project. (Evaluation phase I by a team of faculty)
8th week	Second Review	Students are instructed to submit Design document of the project and give a PowerPoint presentation for the project. (Evaluation phase II by a team of faculty)

12th week	Final Demonstration	Students are instructed to submit complete project report with university compliance and give a PowerPoint presentation for the project. (Evaluation phase III by a team of faculty)
14th week	Project internal marks announcement	The marks for the project work is announced and processed according to the university regulations.
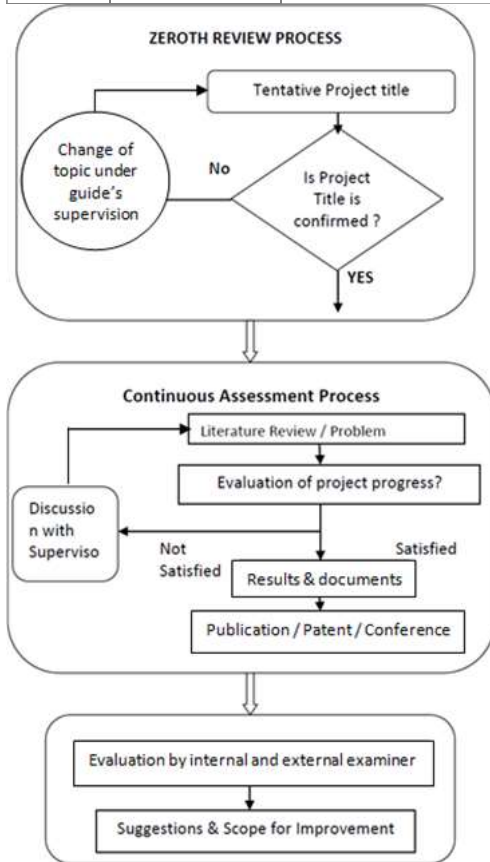
Fig No: 2.6   Project Monitoring and review process

Evaluation

The assessment of the project is based both on the presentations in the reviews and the final report. The Project Evaluation criteria is shown in Table .

Internal marks for the projects are allocated by means of the students' performance in the progress review meeting which is conducted with the presence of Project co-o The project report shall carry a maximum 20 mark while the viva-voce examination shall carry 50 marks. Marks are awarded to each student of the project group based Considering 4 Reviews 15 marks shall be given and 5 marks for Attendance.

Table 2.15 Project Evaluation Sheet

			End Semester Examinations					
			Project Report(20)		Presentation(40)		Demo(40)	
Attendance	Review	Guide	Internal	External	Internal	External	Internal	Ext
5	80	15	10	10	20	20	20	20

A. **Process to assess individual and team performance**

Ø Each student in the project team is assessed to their skill set to deliver the presentation during Review.

Table No 2.16(A) Project Assessment Rubrics

Review	Rubrics	Excellent (4)	Good (3)	Average (2)	Poor (1)

Zeroth	**Identification of problem & Analysis**	Clear understanding and detailed explanation on need of project	Clear understanding and moderate explanation on need of the project	Minimal understanding and explanation on need of the project	No understanding of the problem
	Study of Existing System and Feasibility of Project	Sound knowledge on existing systems and scope for implementation is high	Adequate knowledge on existing systems and scope for implementation is high	Minimal knowledge on existing systems and scope for implementation is moderate	Inadequate knowledge on existing systems
I	**Objective and Methodology of the Proposed**	Objective is well defined and excellent knowledge on	Objective is well defined and good knowledge on	Objective and knowledge on Methodologies are	Inadequate knowledge on Methodologies

Table No 2.16(b) Project Assessment Methodologies

	Work	Methodologies	Methodologies	Moderate	
II	**Progress of the work**	• 40% completion • 70% completion	• 30% completion • 60% completion	• 20% completion • 50% completion	• 10%completion • 40%completion
I, II , Model Viva	**Presentation: (Technical Content, Communication, Body language)**	• High proficiency in content delivery • Proper gestures with eye contact	• High proficiency in content delivery • Gestures and eye contact are moderate	• Appreciable content delivery • Lack of gestures and eye contact	• Inadequate content delivery • No proper gestures and eye contac
I, II , Model Viva	**Team Work**	Equal distribution of work and active participation by all the members	Equal distribution of work and active participation only by few members	Unequal distribution of work and lack of involvement by team members.	No coordination among the team members
Model Viva	**Project Demonstration**	Project modules are well integrated and demonstrated as defined	Project modules are well integrated and demonstrated with minor setbacks	Project modules are integrated and not demonstrated as defined	Project modules are not properly integrated
Model Viva	**Project Report**	• Report is prepared as per the specified format without any grammatical and typographical error • Adequate technical contents with appropriate representation • References, figures, tables and equations are properly cited	• Report is prepared as per the specified format without any grammatical and typographical error • Adequate technical contents with appropriate representation • References, figures, tables and equations are not properly cited	• Report is prepared as per the specified format with few grammatical or typographical errors • Adequate technical contents with inappropriate representation • References, figures, tables and equations are not properly cited	• Report is prepared with formatting and grammatical errors • Inadequate technical contents • References, figures, tables and equations are not properly cited

The following table shows the performance indicator for the project.

Table No 2.16 (c) Performance Indicator

SL.NO.	PERFORMANCE INDICATOR	MARKS
1	Innovativeness & creativity of the project	(10)
2	Review of literature& related studies about the project	(10)

| 3 | Implementation Strategies | (50) |
| 4 | Question and Answer | (30) |

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

Industrial Training

- During the summer vacation period of second year and third year course, the students will undergo in- plant training in any relevant industrial organization. The training will be of 1 to 2 weeks duration. Our institute encourages the students to compulsorily undergo this kind of training.
- During the training period, the student is expected to learn about the organization, analyze and suggest solutions of an identified problem. The main objective of the internship is to equip the student with the knowledge of actual functioning of the organization and problems faced by them for exploring feasible solutions and suggestions.
- After the successful completion of training, the student will submit a report to the organization / Institute.

Industrial Visits and Internship

Real-time learning through industrial visits and Internship is provided for the students during their course of study.

Table 2.17 Industial visit 2022-2023

S.NO	DATE OF IV	YEAR OF STUDENT	COMPANY NAME AND PLACE
1	17.10.2022	II YEAR- 117	KANCHI MINING PROJECTS, UTHIRAMERUR ROAD, R.N.KANDIGAI ELANAGAR, TAMIL NADU – 603 402
2	17.11.2022	IV YEAR -116	MODERN BAKERS MADRAS Pvt., Ltd, (https://www.coursesuggest.com/professional-courses/sansbound-networking-school/) NO. 2, KIRUPA SANKARI STREET, MADHAVARAM CHENNAI, 600033
3	30.11.2022	II YEAR -125	College of Food & Diary Technology, Annai Velankanni Nagar, Madhavaram Milk Colony, Chennai
4	18.10.2022	III YEAR- A -59	SANSBOUND NETWORKING SCHOOL, West Mambalam, Chennai
5	17.10.2022	III YEAR - B-57	SANSBOUND NETWORKING SCHOOL, West Mambalam, Chennai
6	22.03.2023	II YEAR -116	Retech Lasers, P.No:28, Sundar Nagar Extn, Varadharapuram, Chennai – 48
7	10.05.2023	*III YEAR -116*	CANRONE Software LLP, Kochi, Kerala

Post Industrial Training Assessment

Post training assessment is intended to measure the students' performances, quality of work, and assess their personality development during the Industrial training.

The following components shall be assessed:

- Industrial Training Report
- Attendance
- Industrial Training Oral Presentation
- Student Performance Evaluation by Faculty Supervisor

Value Added Courses and Workshops

To have hands on experience in real-time applications, value added courses / workshops are arranged periodically by the department in association with reputed organizations for a maximum duration of five days.

Table 2.18(a) Details of Value added / Workshop Organized (CAY 2021-22)

S.No	Dates	Title of the Course	Resourse member/ team	YEAR
1.	22-03- 2022 to 26-03-2022	MACHINE LEARNING BY IMARTICUS	**Mr. Anbu Joel** FROM **IMARTICUS**	II,III,IV

2.	7.12.21 - 10.12.2021	WORKSHOP ON BASICS OF IOT & TRAINING OF OPEN UINO TOOLKIT	Mr.ASHIK ALI – INTEL AMBASSODOR	II, III

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

In- plant Training

- During the summer vacation period of second year and third year course, the students will undergo in- plant training in any relevant industrial organization. The training will be of 1 to 2 weeks duration. The institute encourages the students to compulsorily undergo this kind of training.
- During the training period, the student is expected to learn about the organization, analyze and suggest solutions of an identified problem. The main objective of the internship is to equip the student with the knowledge of actual functioning of the organization and problems faced by them for exploring feasible solutions and suggestions.
- After the successful completion of training, the student will submit a report to the organization / Institute.

Industrial Visits and Internship

Real-time learning through industrial visits and Internship is provided for the students during their course of study.

Table 2.19 Details of Internships (CAY2021-22)

S.No	Name	Company Name	Duration	Stipend
1	KISHANTH KUMAR G	TYCHON SOLUTIONS	6 MONTHS	10000
2	KOUSAIAYA V	INVICTA CONSUMER PRIVATE LIMITED	3 MONTHS	6000
3	SABARI VIKRAM R	SUKI SOFTWARE SOLUTION PVT LTD	6 MONTHS	10000
4	RANJITHA	PRODAPT	3 MONTHS	12000
5	POOJA BEDI V	PRODAPT	3 MONTHS	12000
6	AAKASH RAMANAN G	COGIZANT	3-6 MONTHS	12000
7	KISHANTH KUMAR G	BIOCLIQ TECHNOLOGIES PVT LTD	1 YEAR	10000
8	WILFER RAJA J	ZOHO	6 MONTHS	15000
9	SUMATHI V	SHIASH INFO SOLUTIONS PRIVATE LIMITED	3 MONTHS	6000
10	MONISHA J	SHIASH INFO SOLUTIONS PRIVATE LIMITED	3 MONTHS	6000
11	SELCIAH PAULIN SORNA	SHIASH INFO SOLUTIONS PRIVATE LIMITED	3 MONTHS	10000
12	LOKESHWARAN	RANCHO LABS	3 MONTHS	10000
13	RAJASUTHA R	EBIX TECHNOLOGIES PVT LTD	6 MONTHS	10000
14	SANGAVI V D	SHIASH INFO SOLUTIONS PRIVATE LIMITED	3 MONTHS	10000
15	RAJASUTHA R	QUEST	6 M0NTHS	25000
16	MONISHA J	COGNIZANT	3-6 MONTHS	12000
17	GEETHALAKSHMI S	COGNIZANT	3-6 MONTHS	12000
18	NIDHI F	ADP INDIA PVT LTD	6 MONTHS	25000

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

Define the Program specific outcomes

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

:

PSO1	To analyze, design and develop computing solutions by applying foundational concepts of Computer Science and Engineering
PSO2	To apply software engineering principles and practices for developing quality software for scientific and business applications.
PSO3	To adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.

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 03	Course Year :		2019-2020

Course Name	Statements
C2 03.1	Understand & Implement abstract data types for linear data structures - Lists
C2 03.2	Understand & Apply the different linear(Stack & Queue) data structures to problem solutions
C2 03.3	Understand & Apply the different Non-Linear(Tree) data structures to problem solutions
C2 03.4	Understand & Apply the different Non-Linear(Graph) data structures to problem solutions
C2 03.5	Critically analyze the various sorting algorithms and Hashing Techniques

Course Name :		C2 12	Course Year :		2019-2020

Course Name	Statements
C2 12.1	To learn the fundamentals of Data Models and to represent a database system using ER diagrams.
C2 12.2	To study SQL and Relational Database design.
C2 12.3	To understand the internal storage structures using different File and Indexing techniques which will help in physical DB design.
C2 12.4	To understand the fundamental concept of transaction processing-concurrency control techniques and recovery procedures.
C2 12.5	To have an introductory knowledge about the storage and Query processing technique.

Course Name :		C3 02	Course Year :		2020-2021

Course Name	Statements
C3 02.1	Understand the basic layers and its functions in computer networks.
C3 02.2	Evaluate the performance of a network.
C3 02.3	Understand the basics of how data flows from one node to another.
C3 02.4	Analyze and design routing algorithms.
C3 02.5	Design protocols for various functions in the network and understand the working of various application layer protocols

Course Name :		C3 10	Course Year :		2020-2021

Course Name	Statements
C3 10.1	Construct a basic website using HTML and Cascading Style Sheets.
C3 10.2	Build dynamic web page with validation using Java Script objects and by applying different event handling mechanisms.
C3 10.3	Develop server-side programs using Servlets and JSP.
C3 10.4	Construct simple web pages in PHP and to represent data in XML format.
C3 10.5	Use AJAX and web services to develop interactive web applications

Course Name :		C4 02	Course Year :		2021-2022

Course Name	Statements
C4 02.1	Understand the fundamentals of networks security, security architecture, threats and vulnerabilities
C4 02.2	Apply the different cryptographic operations of symmetric cryptographic algorithms
C4 02.3	Apply the different cryptographic operations of public key cryptography
C4 02.4	Apply the various Authentication schemes to simulate different applications
C4 02.5	Understand various Security practices and System security standards

Course Name :		C4 10	Course Year :	2021-2022

Course Name	Statements
C4 10.1	Acquire knowledge to adopt green computing practices to minimize negative impacts on the environment.
C4 10.2	Enhance the skill in energy saving practices in their use of hardware.
C4 10.3	Evaluate technology tools that can reduce paper waste and carbon footprint by the stakeholders.
C4 10.4	Understand the ways to minimize equipment disposal requirements

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

Institute Marks : 5.00

1 . course name : C203

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	3	2	-	-	2	-	-	-	1	-	-	3
C203.2	3	2	2	2	2	-	-	-	1	-	-	3
C203.3	3	3	2	2	2	-	-	-	2	-	-	3
C203.4	3	3	2	3	3	-	-	-	2	-	-	3
C203.5	3	3	2	3	3	-	-	-	2	-	-	3
Average	3.00	2.80	2.00	2.50	2.40	0.00	0.00	0.00	1.60	0.00	0.00	3.00

2 . course name : C212

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	3	2	2	2	-	-	-	2	-	-	3
C212.2	3	3	2	2	2	-	-	-	2	-	-	3
C212.3	3	1	1	-	-	-	-	-	1	-	-	3
C212.4	3	3	3	-	-	-	-	-	2	-	-	3
C212.5	3	2	2	2	2	-	-	-	1	-	-	3
Average	3.00	2.40	2.00	2.00	2.00	0.00	0.00	0.00	1.60	0.00	0.00	3.00

3 . course name : C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	3	1	1	-	-	-	-	1	-	-	3
C302.2	3	1	1	1	-	-	-	-	1	-	-	3
C302.3	3	3	2	2	2	-	-	-	2	-	-	3
C302.4	3	2	2	2	2	-	-	-	2	-	-	3
C302.5	3	1	1	1	2	-	-	-	2	-	-	3
Average	3.00	2.00	1.40	1.40	2.00	0.00	0.00	0.00	1.60	0.00	0.00	3.00

4 . course name : C310

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310.1	3	3	2	2	3	-	-	-	2	-	-	3
C310.2	3	3	2	2	2	1	-	-	2	-	-	3
C310.3	3	3	2	2	3	1	-	-	2	-	-	3
C310.4	3	3	2	2	3	1	-	-	2	2	-	3
C310.5	3	3	2	2	3	1	-	-	2	-	-	3
Average	3.00	3.00	2.00	2.00	2.80	1.00	0.00	0.00	2.00	2.00	0.00	3.00

5 . course name : C402

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	3	2	3	2	1	2	-	2	-	-	3
C402.2	3	3	2	3	2	1	2	-	2	-	2	3
C402.3	3	3	2	3	2	1	2	-	2	-	2	3
C402.4	3	1	-	-	2	1	2	-	2	-	2	3

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.5	3	1	-	-	2	1	2	2	2	-	2	3
Average	3.00	2.20	2.00	3.00	2.00	1.00	2.00	2.00	2.00	0.00	2.00	3.00

6 . course name : C410   54/210

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	3	3	3	-	-	2	3	-	-	2	-	-
C410.2	3	2	1	-	-	2	2	-	-	2	-	2
C410.3	3	3	3	-	2	2	2	-	-	2	-	2
C410.4	3	1	2	-	-	2	3	-	-	2	2	-
Average	3.00	2.25	2.25	0.00	2.00	2.00	2.50	0.00	0.00	2.00	2.00	2.00

1 . Course Name : C203

Course	PSO1	PSO2	PSO3
C203.1	3	2	2
C203.2	3	2	2
C203.3	3	2	2
C203.4	3	3	2
C203.5	3	3	2
Average	3.00	2.40	2.00

2 . Course Name : C212

Course	PSO1	PSO2	PSO3
C212.1	3	3	1
C212.2	3	3	2
C212.3	3	2	2
C212.4	3	2	2
C212.5	3	1	1
Average	3.00	2.20	1.60

3 . Course Name : C302

Course	PSO1	PSO2	PSO3
C302.1	3	-	1
C302.2	3	-	1
C302.3	3	-	2
C302.4	3	2	2
C302.5	3	-	2
Average	3.00	2.00	1.60

4 . Course Name : C310

Course	PSO1	PSO2	PSO3
C310.1	3	2	2
C310.2	3	2	2
C310.3	3	2	2
C310.4	3	2	2
C310.5	3	2	2
Average	3.00	2.00	2.00

5 . Course Name : C402

Course	PSO1	PSO2	PSO3
C402.1	3	3	2
C402.2	3	3	2
C402.3	3	2	2
C402.4	3	3	3
C402.5	3	3	3
Average	3.00	2.80	2.40

6 . Course Name : C410

Course	PSO1	PSO2	PSO3
C410.1	3 ⌄	2 ⌄	2 ⌄
C410.2	2 ⌄	- ⌄	2 ⌄
C410.3	2 ⌄	1 ⌄	- ⌄
C410.4	2 ⌄	2 ⌄	3 ⌄
Average	2.25	1.25	1.75

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	0	0	0	2.2	2.6	0	1.8
C102	3	3	3	1	0	0	0	0	2	0	0	2
C103	1.8	1	1	0	0	0	0	0	0	0	0	0
C104	3	2	2	0	0	0	1	0	0	0	0	1
C105	3	2	2	0	3	0	0	0	0	0	0	2.8
C106	3	3	0	0	0	2	0	0	0	0	0	2
C107	3	2.6	2.6	1	2.4	1	1	0	0	2.2	0	2
C108	2	1	1	0	0	0	0	2.2	1	0.4	0	0
C109	0	0	0	0	0	0	0	0	2.2	2.6	0	1.8
C110	3	3	3	1	0	0	0	0	2	0	0	2
C111	2	1	1	0	0	0	0	0	0	0	0	1
C112	2.6	2	2	0	0	0	0	0	0	0	0	0
C113	3	3	3	0	0	0	2	2	2	2	0	2
C114	3	3	3	0	2	0	0	0	0	0	0	2
C115	3	0	0	2	0	0	0	1	1	0	0	1
C116	1.4	2	3	0	2.6	0	0	2.4	2.4	2.4	0	2.6
C201	2.6	2.2	0	0	1	0	0	0	0	0	0	1.6
C202	3	2	2	0	0	0	0	0	0	0	0	0
C203	3	2.8	2	2.5	2.4	0	0	0	1.6	0	0	3
C204	3	2.8	2	2.5	2.4	0	0	0	1.6	0	0	3
C205	2	1.25	1.25	0	0	0	0	0	0	1	0	0
C206	2.8	1.4	1	0	0	1	2.2	1.4	0	0	0	0
C207	3	2	2	1	0	0	0	0	0	0	0	0
C208	3	2	2	0	0	0	0	0	0	0	0	0
C209	0	0	0	0	0	0	0	0	2.4	2.2	0	3
C210	2.6	2.2	0	0	1	0	0	0	0	0	0	1.6
C211	3	2.25	1.75	1.8	0	0	0	0	1.4	0	0	3
C212	3	2.4	2	2	2	0	0	0	1.6	0	0	3
C213	3	3	2	1	1	0	0	0	2	0	2	3
C214	2.2	1.2	1.2	0	2.5	0	0	0	3	0	0	3
C215	3	3	2	1	1	0	0	0	2	0	2	3
C216	3	2	2	0	2	0	0	0	0	0	0	0
C217	3	2.8	2.4	0	0	0	0	0	0	0	0	2

C218	0	0	0	0	0	0	0	0	2.2	2.4	0	2.8
C301	2	1	3	0	0	0	0	0	3	0	0	0
C302	3	2	1.4	1.4	2	0	0	0	1.6	0	0	3
C303	3	1.6	2	0	2	0	0	0	1.6	0	0	3
C304	3	3	2	2.2	2	0	0	0	2	0	0	3
C305	3	3	1.75	2	2	0	0	0	2	0	0	3
C306	3	3	3	3	3	0	0	0	0	0	0	0
C307	2	2	2	0	1	2	2	0	0	0	0	0
C308	2.8	1.8	1.8	0	1.8	0	0	0	0	0	0	0
C309	3	2.6	2	0	2.2	2	0	0	2.5	0	0	2
C310	3	3	2	2	2.8	1	0	0	2	2	0	3
C311	3	2.4	1.2	2.75	0	0	0	0	1.2	0	2	3
C312	3	1	1.67	1.5	1.75	1.5	1	0	1	0	2	3
C313	3	2.2	2.2	3	2.67	0	0	0	1.8	0	0	3
C314	3	2.8	1.4	1.5	1.8	0	0	0	1.2	0	0	3
C315	2.2	2.2	1.6	2	1.2	0	0	0	1.2	2	1.6	1.8
C316	3	2	2	1	0	0	0	0	0	0	0	0
C317	3	2	0	0	0	0	0	0	0	0	0	0
C318	1.8	2.2	2	2	2	1.8	1.6	1.6	2.2	2.2	2.4	2.2
C319	0	0	0	0	0	0	0	0	2.4	2.2	0	2.8
C401	2.8	2.6	2.2	0	0	0	0	0	0	0	2.4	0
C402	3	3	2	3	2	1	2	0	2	0	0	3
C403	2.8	2.6	2.2	0	0	0	0	0	0	0	2.4	0
C404	1.2	1.4	0	1	3	1	1.6	1	1	2	3	3
C405	2.25	1.4	1.75	1	1	1.75	1.5	1	0	0	0	0
C406	2.2	2.2	2	3	0	1	0	0	0	0	0	0
C407	2.6	2.2	2.4	0	2.4	0	0	1.2	1.6	1.4	0	1.2
C408	3	3	3	2	2.6	0	0	2.6	1.6	1.4	0	2.6
C409	1.2	1.4	0	0	0	1	1	3	1	1	0	2.4
C410	3	2.25	2.25	0	2	2	2.5	0	0	2	2	2
C411	1.8	2.2	2	2	2	1.8	1.6	1.6	1	2.2	2.4	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	0	0
C103	0	0	0
C104	0	0	0
C105	3	3	3
C106	0	0	0
C107	3	3	2
C108	0	0	0
C109	0	0	0
C110	1	1	1
C111	0	0	0

C112	0	0	0
C113	0	0	0
C114	3	3	3
C115	0	0	0
C116	2.2	2.6	2.4
C201	2.6	1	1.6
C202	1.6	0	0
C203	3	2.4	2
C204	3	2.4	2
C205	2	0	0
C206	1	1	1
C207	2.2	2	0
C208	1	0	0
C209	0	0	0
C210	2.6	1	1.6
C211	3	2	1
C212	3	2.2	1.6
C213	3	3	1
C214	3	2	1.2
C215	3	2.4	1.8
C216	2.2	2	0
C217	3	2	1
C218	0	0	0
C301	0	0	0
C302	3	2	1.6
C303	2	1.6	1.2
C304	3	2	1
C305	3	3	2
C306	3	3	3
C307	2	2	2
C308	2	1	1
C309	1.6	2	0
C310	3	2	2
C311	3	2	2.2
C312	3	2	2.20
C313	3	2.8	2
C314	2.6	2.8	2
C315	2.2	1.8	2.6
C316	2.2	1.8	2.6
C317	2.2	2.2	0
C318	2	1.4	1.6
C319	0	0	0
C401	2.6	2.6	2.6
C402	3	2.8	2.4

C403	2.6	2.6	2.6
C404	2	2.2	1.6
C405	2	2	2
C406	1.8	2	2
C407	2.2	2.6	1.8
C408	2	1.6	1.8
C409	1	1.5	2.4
C410	2.4	1.4	2
C411	2	1.4	1.6

3.2 Attainment of Course Outcomes (50)   Total Marks 50.00

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

Institute Marks : 10.00

ASSESSMENT PROCESSES

Assessment tools are categorized into two methods to assess the course outcomes as:

1. **DIRECT METHODS**
2. **INDIRECT METHODS.**

DIRECT ASSESSMENT METHOD

The direct method expresses the student's knowledge and skills from their performance in the continuous internal assessment tests, semester examinations, seminars, assignments, project work, laboratory assignments etc. These methods are more effective to provide strong evidence of student learning.

		Theory Subject
S.No.	**Methods**	**Description of the Methods**
1.	University final examination	Semester examination (theory or practical) are the metric to assess whether all the course outcomes are attained or not framed by the course owner. Semester Examination is more focused on attainment of course outcomes and uses a descriptive exam. Anna University conducts the examination at the end of the semester covering all the course outcomes.
2.	Internal Assessment Test	The Internal Assessment marks in a theory paper shall be based on four tests generally conducted after completion of 15days, 30days 45 and 60 days of each semester. <table><tr><th>Test</th><th>Portion Coverage</th><th>Marks</th><th>Duration</th></tr><tr><td>Assessment Test – 1</td><td>Unit I and ½ from Unit II</td><td>60</td><td>2 hours</td></tr><tr><td>Assessment Test – II</td><td>½ from Unit II and Unit III</td><td>60</td><td>2 hours</td></tr><tr><td>Model Exam</td><td>All the Unit</td><td>100</td><td>3 Hours</td></tr></table> Retest is also conducted for every test failures and absentees for the hoping for students to give an opportunity to such students to improve their Internal Assessment Marks. It is a metric to continuously assess the attainment of course outcomes. Marks are considered as basic for the Internal Assessment of the relevant subject.
3.	Assignments	The students are given with assignment topics in each unit with submission dates in the beginning of every semester. The Internal Assessment marks will be based on the evaluation by the faculty members of the concern subjects.
4.	Seminar	The students are assigned with seminar topics either individually or in team. The Internal Assessment marks will be based on the evaluation by the faculty members of the concern subjects.
5.	Project	For certain practical subjects a small project can be allocated to the students as a team. The project is evaluated by viva voce examination conducted by concern faculty.
6.	Case study	The faculty prepare case study in the field the concern subject for each unit and assign to team with 6-8 members. The team will be asked to present and discuss case study along with team members.
		Laboratory/ Practical Subjects
S.No	**Direct Assessment**	**Description of the Methods**
7.	Lab Assessment	Lab Assignment can be one of the measuring criteria to mainly assess student's practical knowledge with their designing capabilities. In case of practical, the Internal assessment marks shall be based on the laboratory records and one practical test.

8.	Viva-voce	External examination inclusive of practical and viva voce will be conducted by external examiner nominated by Anna University.		

Project Work

S.No	Direct Assessment	Description of the Methods		
9.	Project Work Viva-voce	The Internal Assessment marks in the case of projects in the final year shall be based on the evaluation at the end of 8th semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project guide. Viva-voce examination for project work shall be conducted by external examiner nominated by Anna University for university examination.		

The end semester examinations and the internal assessment, wherein the faculty can focus on the POs. The question papers include, short answers, long essay and case study type. In addition Assignments are given for some extension of syllabus. In case of laboratory examination, synopsis, major experiment, minor experiment, viva voce, reports, etc., are the components. While setting a question paper, each question is framed based on the POs in order to attain them to a large extent. A few POs of minor importance may not be accommodated. It is necessary that a questions has to cover 60% of 'essentials to know', 30% 'better to know' and 10% are 'nice to know'. Therefore, special attempts are made to attain these objectives. The subjects are also categorized as professional core subjects, basic subjects (mathematics, science, computing, and humanities). Accordingly the POs have assumed adequate importance. Having set the question papers, the answer papers are being evaluated from the same perspectives. The students are given feedback and POs are highlighted. Data are gathered after scrutinizing the answer for course outcomes. The course outcomes are translated to POs. Attainment of POs is considered from the data of all students.

PARAMETERS FOR PROCESS ASSESSMENT							
DIRECT ASSESSMENT							
SUB CODE	SUBJECTS	University Examination	INTERNAL ASSESSMENTS				
			Internal Tests	ASSIGNMENTS	CASE STUDIES	PROJECT	SEMINAR
C101	Communicative English	√	√	√	-	-	√
C102	Engineering Mathematics – I	√	√	√	-	-	-
C103	Engineering Physics	√	√	√	-	√	√
C104	Engineering Chemistry	√	√	√	-	-	√
C105	Problem solving and Phython programmig	√	-	-	-	√	-
C106	Engineering Graphics	√	√	√	-	-	-
C107	Problem solving and Phython Pragramming Lab	√	-	-	-	√	-
C108	Physics and Chemistry Lab	√	-	-	-	√	-

C109	Technical English	√	√	√	-	-	√
C110	Engineering Mathematics – II	√	√	√	-	-	-
C111	Physics for Information Science	√	√	√	-	√	√
C112	Basic Electrical Electronics and Measurement Engineering	√	√	√	-	√	√
C113	Environmental Science and Engineering	√	√	√	-	√	√
C114	Programming in C	√	√	√	-	√	√
C115	Engineering Practice Lab	√	-	-	-	√	-
C116	C Programming Lab	√	-	-	-	√	-
C201	Discrete Mathematics	√	√	√	-	-	√
C202	Digital Principles and System Design	√	√	√	-	√	√
C203	Data Structures	√	√	√	-	√	√
C204	Object Oriented Programming	√	√	√	√	√	√
C205	Communication Engineering	√	√	√	-	√	√
C206	Data Structures Laboratory	√	-	-	-	√	-
C207	Object Oriented Programming Laboratory	√	-	-	-	√	-
C208	Digital Systems Laboratory	√	-	-	-	√	-
C209	Interpersonal skills/Listening & speaking	-	-	-	-	-	-
C210	Probability and Queueing Theory	√	√	√	-	√	√
C211	Computer Architecture	√	√	√	-	√	√
C212	Database Management Systems	√	√	√	-	√	√
C213	Design and Analysis of Algorithms	√	√	√	-	√	√
C214	Operating Systems	√	√	√	-	√	√
C215	Software Engineering	√	√	√	-	√	√

C216	Database Management Systems Laboratory	√	-	-	-	√	-
C217	Operating Systems Laboratory	√	-	-	-	√	-
C218	Advanced Reading and Writing	√	√	√	-	√	√
C301	Algebra and Number Theory	√	√	√	-	√	√
C302	Computer Networks	√	√	√	-	√	√
C303	Microprocessors and Microcontrollers	√	√	√	√	√	√
C304	Theory of Computation	√	√	√	-	√	√
C305	Object Oriented Analysis and Design	√	-	-	-	√	-
C306	Geographic Information System	√	-	-	-	√	-
C307	Microprocessors and Microcontrollers Laboratory	√	-	-	-	√	-
C308	Object Oriented Analysis and Design Laboratory	√	-	-	-	√	-
C309	Networks Laboratory	√	-	-	-	√	-
C310	Internet Programming	√	√	√	-	√	√
C311	Artificial Intelligence	√	√	√	-	√	√
C312	Mobile Computing	√	√	√	-	√	√
C313	Compiler Design	√	√	√	-	√	√
C314	Distributed Systems	√	√	√	-	√	-
C315	Software Testing	√	√	√	-	√	√
C316	Internet Programming Laboratory	√	-	-	-	√	-
C317	Mobile Application Development Laboratory	√	-	-	-	√	-
C318	Mini Project	√	√	√	-	-	√
C319	Professional Communication	√	√	√	√	-	√

C401	Principles of Management	√	√	√	-	-	√
C402	Cryptography and Network Security	√	√	√	√	-	√
C403	Cloud Computing	√	√	√	√	-	√
C404	Supply Chain Management	√	√	√	-	√	-
C405	Software Project Management	√	√	√	-	√	-
C406	Human Computer Interaction	√	√	√	-	√	√
C407	Cloud Computing Laboratory	√	-	-	-	√	-
C408	Security Laboratory	√	-	-	-	√	-
C409	Professional Ethics in Engineering	√	-	-	-	√	
C410	Green Computing	√	√	√	√	-	√
C411	Project Work	√	-	-	-	√	-

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

Institute Marks : 40.00

Course Code	Course Name	Course Outcome	Target in %	Attainment in %
C101	Communicative English	C101.1	75	85.9
		C101.2	75	85.64
		C101.3	75	86.47
		C101.4	75	87.70
		C101.5	75	90.1
C102	Engineering Mathematics – I	C102.1	75	90.35
		C102.2	75	89.16
		C102.3	75	88.32
		C102.4	75	87.86
		C102.5	75	90.92
C103	Engineering Physics	C103.1	75	95.8
		C103.2	75	95.41
		C103.3	75	95.8
		C103.4	75	97.27
		C103.5	75	98.76
C104	Engineering Chemistry	C104.1	75	90.35
		C104.2	75	89.16
		C104.3	75	85.27
		C104.4	75	87.86
		C104.5	75	91.35
C105	Problem solving and Phython programmig	C105.1	75	90.8
		C105.2	75	88.85
		C105.3	75	87.98
		C105.4	75	87.80
		C105.5	75	93.35
C106	Engineering Graphics	C106.1	75	89.87
		C106.2	75	88.5
		C106.3	75	89.11
		C106.4	75	89.16
		C106.5	75	91.65
C107	Problem solving and Phython Pragramming Lab	C107.1	80	99.2
		C107.2	80	95.3
		C107.3	80	98.1
		C107.4	80	95.2
		C107.5	80	97.5
C108	Physics and Chemistry Lab	C108.1	80	98.2
		C108.2	80	97.5
		C108.3	80	96.2
		C108.4	80	98.3
		C108.5	80	96.2
C109	Technical English	C109.1	75	84.84
		C109.2	75	84.39
		C109.3	75	84.83
		C109.4	75	85.47
		C109.5	75	87.66

		C110.1	75	67.1
C110	Engineering Mathematics – II	C110.2	75	66.76
		C110.3	75	66.7
		C110.4	75	66.53
		C110.5	75	69.07
C111	Physics for Information Science	C111.1	75	78.78
		C111.2	75	77.66
		C111.3	75	77.52
		C111.4	75	77.52
		C111.5	75	80.75
C112	Basic Electrical Electronics and Measurement Engineering	C112.1	75	83.45
		C112.2	75	81.88
		C112.3	75	81.48
		C112.4	75	82.38
		C112.5	75	85.39
C113	Environmental Science and Engineering	C113.1	75	80.71
		C113.2	75	78.5
		C113.3	75	77.87
		C113.4	75	79.96
		C113.5	75	82.97
C114	Programming in C	C114.1	75	78.71
		C114.2	75	78.6
		C114.3	75	79.21
		C114.4	75	78.38
		C114.5	75	83.25
C115	Engineering Practice Lab	C115.1	80	84.94
		C115.2	80	84.94
		C115.3	80	84.97
		C115.4	80	84.94
		C115.5	80	93.8
C116	C Programming Lab	C116.1	80	99.2
		C116.2	80	99.2
		C116.3	80	99.2
		C116.4	80	99.20
		C116.5	80	99.2
C201	Discrete Mathematics	C201.1	80	79.12
		C201.2	80	80.32
		C201.3	80	79.32
		C201.4	80	80.12
		C201.5	80	79.32
C202	Digital Principles and System Design	C202.1	80	88.05
		C202.2	80	88.63
		C202.3	80	90.26
		C202.4	80	87.66
		C202.5	80	90.79

C203	Data Structures	C203.1	80	73.84
		C203.2	80	73.66
		C203.3	80	74.47
		C203.4	80	73.83
		C203.5	80	76.98
C204	Object Oriented Programming	C204.1	75	78.87
		C204.2	75	77.43
		C204.3	75	76.96
		C204.4	75	75.40
		C204.5	75	79.47
C205	Communication Engineering	C205.1	75	74.89
		C205.2	75	74.49
		C205.3	75	74.13
		C205.4	75	73.96
		C205.5	75	77.45
C206	Data Structures Laboratory	C206.1	80	95.2
		C206.2	80	93.6
		C206.3	80	98.20
		C206.4	80	96.3
		C206.5	80	95.6
C207	Object Oriented Programming Laboratory	C207.1	80	98.2
		C207.2	80	96.2
		C207.3	80	97.3
		C207.4	80	98.6
		C207.5	80	94.3
C208	Digital Systems Laboratory	C208.1	80	97.5
		C208.2	80	96.5
		C208.3	80	97.5
		C208.4	80	96.2
		C208.5	80	96.3
C209	Interpersonal skills/Listening & speaking	C209.1	85	95.2
		C209.2	85	95.16
		C209.3	85	96.23
		C209.4	85	94.32
		C209.5	85	95.78
C210	Probability and Queueing Theory	C210.1	85	96.23
		C210.2	85	93.12
		C210.3	85	94.25
		C210.4	85	96.23
		C210.5	85	93.25
C211	Computer Architecture	C211.1	85	93.25
		C211.2	85	95.16
		C211.3	85	96.23
		C211.4	85	94.32
		C211.5	85	95.78

C212	Database Management System	C212.1	85	96.23
		C212.2	85	93.12
		C212.3	85	94.25
		C212.4	85	96.23
		C212.5	85	93.25
C213	Design and Analysis of Algorithms	C213.1	85	93.25
		C213.2	85	95.16
		C213.3	85	96.23
		C213.4	85	94.32
		C213.5	85	95.78
C214	Operating Systems	C214.1	85	93.12
		C214.2	85	94.25
		C214.3	85	96.23
		C214.4	85	93.25
		C214.5	85	96.52
C215	Software Engineering	C215.1	85	96.23
		C215.2	85	93.25
		C215.3	85	96.52
		C215.4	85	93.25
		C215.5	85	95.16
C216	Database Management Systems Laboratory Systems	C216.1	85	94.32
		C216.2	85	95.78
		C216.3	85	96.23
		C216.4	85	94.32
		C216.5	85	95.78
C217	Operating Systems Laboratory	C217.1	85	95.2
		C217.2	85	95.16
		C217.3	85	96.23
		C217.4	85	94.32
		C217.5	85	95.78
C218	Advanced Reading and Writing	C218.1	85	96.3
		C218.2	85	97.2
		C218.3	85	94.32
		C218.4	85	95.78
		C218.5	85	96.23
C301	Algebra and Number Theory	C301.1	85	95.78
		C301.2	85	96.23
		C301.3	85	95.2
		C301.4	85	95.16
		C301.5	85	95.2
C302	Computer Networks	C302.1	85	95.2
		C302.2	85	95.16
		C302.3	85	96.23
		C302.4	85	94.32
		C302.5	85	95.78

C303	Microprocessors and Microcontrollers	C303.1	85	95.2
		C303.2	85	95.16
		C303.3	85	96.23
		C303.4	85	94.32
		C303.5	85	95.78
C304	Theory of Computation	C304.1	85	95.2
		C304.2	85	95.16
		C304.3	85	96.23
		C304.4	85	94.32
		C304.5	85	95.78
C305	Object Oriented Analysis and Design	C305.1	85	96.32
		C305.2	85	95.12
		C305.3	85	98.23
		C305.4	85	95.23
		C305.5	85	96.23
C306	Geographic Information System	C306.1	85	95.12
		C306.2	85	96.23
		C306.3	85	98.12
		C306.4	85	96.15
		C306.5	85	96.23
C307	Microprocessors and Microcontrollers Laboratory	C307.1	85	96.45
		C307.2	85	96.31
		C307.3	85	97.45
		C307.4	85	98.12
		C307.5	85	96.32
C308	Object Oriented Analysis and Design Laboratory	C308.1	85	98.45
		C308.2	85	96.58
		C308.3	85	94.12
		C308.4	85	96.54
		C308.5	85	95.23
C309	Networks Laboratory	C309.1	85	95.2
		C309.2	85	95.16
		C309.3	85	96.23
		C309.4	85	94.32
		C309.5	85	95.78
C310	Internet Programming	C310.1	85	95.12
		C310.2	85	96.23
		C310.3	85	98.12
		C310.4	85	96.15
		C310.5	85	96.23
C311	Artificial Intelligence	C311.1	85	95.2
		C311.2	85	95.16
		C311.3	85	96.23
		C311.4	85	94.32
		C311.5	85	95.78

C312	Mobile Computing	C312.1	85	95.12
		C312.2	85	96.23
		C312.3	85	98.12
		C312.4	85?	96.15
		C312.5	85	96.23
C313	Compiler Design	C313.1	85	94.32
		C313.2	85	95.78
		C313.3	85	96.23
		C313.4	85	94.32
		C313.5	85	95.78
C314	Distributed Systems	C314.1	85	95.2
		C314.2	85	95.23
		C314.3	85	96.23
		C314.4	85	95.2
		C314.5	85	95.16
C315	Software Testing	C315.1	85	94.32
		C315.2	85	95.78
		C315.3	85	96.23
		C315.4	85	94.32
		C315.5	85	95.78
C316	Internet Programming Laboratory	C316.1	85	95.2
		C316.2	85	95.16
		C316.3	85	96.23
		C316.4	85	94.32
		C316.5	85	95.78
C317	Mobile Application Development Laboratory	C317.1	90	94.32
		C317.2	90	95.78
		C317.3	90	96.23
		C317.4	90	95.20
		C317.5	90	95.16
C318	Mini Project	C318.1	90	94.32
		C318.2	90	95.78
		C318.3	90	96.23
		C318.4	90	95.20
		C318.5	90	95.2
C319	Professional Communication	C319.1	90	95.2
		C319.2	90	95.16
		C319.3	90	96.23
		C319.4	90	94.32
		C319.5	90	95.78
C401	Principles of Management	C401.1	90	95.12
		C401.2	90	95.20
		C401.3	90	95.16
		C401.4	90	96.23
		C401.5	90	94.32

		C402.1	90	96.23
		C402.2	90	95.12
C402	Cryptography and Network Security	**C402.3**	90	96.23
		C402.4	90?	95.78
		C402.5	90	96.23
		C403.1	90	96.23
		C403.2	90	94.32
C403	Cloud Computing	**C403.3**	90	95.78
		C403.4	90	96.23
		C403.5	90	95.12
		C404.1	90	95.16
		C404.2	90	95.16
C404	Supply Chain Management	**C404.3**	90	96.23
		C404.4	90	94.32
		C404.5	90	95.78
		C405.1	90	96.23
		C405.2	90	95.16
C405	Software Project Management	**C405.3**	90	96.23
		C405.4	90	94.32
		C405.5	90	95.78
		C406.1	95	95.12
		C406.2	95	95.78
C406	Human Computer Interaction	**C406.3**	95	96.23
		C406.4	95	97.12
		C406.5	95	94.23
		C407.1	95	95.16
		C407.2	95	95.16
C407	Cloud Computing Laboratory	**C407.3**	95	96.23
		C407.4	95	94.32
		C407.5	95	95.78
		C408.1	95	97.12
		C408.2	95	94.23
C408	Security Laboratory	**C408.3**	95	94.23
		C408.4	95	95.16
		C408.5	95	96.45
		C409.1	95	97.12
		C409.2	95	94.23
C409	Professional Ethics in Engineering	**C409.3**	95	94.23
		C409.4	95	95.16
		C409.5	95	96.45
		C410.1	95	97.12
		C410.2	95	94.23
C410	Green Computing	**C410.3**	95	94.23
		C410.4	95	95.16

C411	Project work	C411.1	95	97.12
		C411.2	95	94.23
		C411.3	95	94.23
		C411.4	95	95.16
		C411.5	95	96.45

CO Attainment for OOAD Subject

Course Outcome	Attainment in %
C305.1	96.32
C305.2	95.12
C305.3	98.23
C305.4	95.23
C305.5	96.23

CO Attainment for DBMS Subject

Course Outcome	Attainment in %
C212.1	96.23
C212.2	93.12
C212.3	94.25
C212.4	96.23
C212.5	93.25
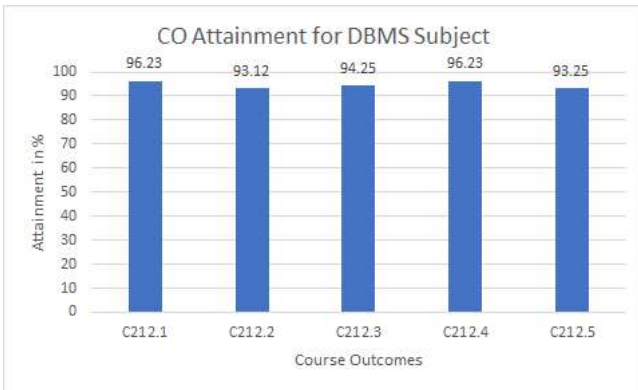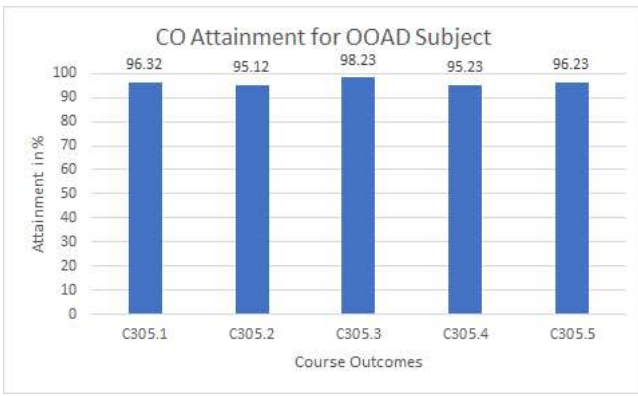
3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)   Total Marks 50.00

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

 The assessment tools and processes to gather data was mentioned in 3.2.1 .The course outcomes are mapped for each program outcome. The attainment of course outcomes achieved are translated into program outcomes based on the CO-PO Matrixes and course–PO Matrixes.

- The PROGRAM Advisory Committee (PAC) meeting is conducted to fix the target for all POs/PSOs based on the skill level.
- The attainment of POs / PSOs are calculated using two methods

  ○ Direct attainment
  ○ Indirect attainment

- Direct PO attainment for the courses is calculated through weighted average by considering the following inputs

  ○ CO-PO mapping of courses
  ○ CO attainment level

- Indirect PO attainment is obtained by taking surveys and feedback from the graduates for the following events.

  ○ Exit survey
  ○ Student survey
  ○ Parent survey
  ○ Entry survey
  ○ Employer survey
  ○ Faculty survey

- The cumulative PO/PSO attainment is calculated by considering 80% weightage for direct attainment and 20% weightage for indirect attainment.
- The program coordinator and HOD verify the PO/PSO attainment of the corresponding batch at the end of 4th year.
- The set target of PO/PSO will be revised after successful attainment of 3 consecutive batches.
- The process of PO attainment is shown below

....
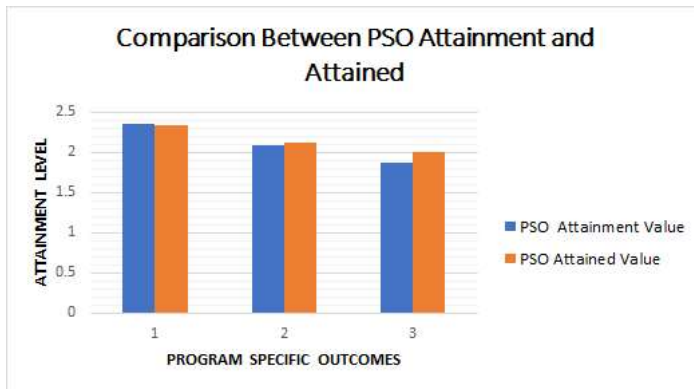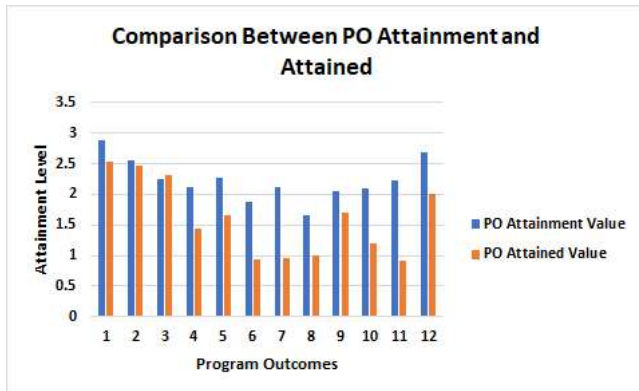
3.3.2 Provide results of evaluation of PO&PSO (40)

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	0	0	0	2.62	2.61	0	2.62
C102	2.68	2.68	2.68	2.68	0	0	0	0	2.68	0	0	2.68
C103	2.90	2.90	2.90	0	0	0	0	0	0	0	0	0

C104	2.66	2.66	2.66	0	0	0	2.66	0	0	0	0	2.66
C105	2.69	2.69	2.69	0	2.69	0	0	0	0	0	0	2.69
C106	2.69	2.69	0	0	0	2.69	0	0	0	0	0	2.69
C107	2.91	2.92	2.92	2.91	2.92	2.98	2.98	0	0	2.92	0	2.91
C108	2.92	2.92	2.92	0	0	0	0	2.92	2.92	2.91	0	0
C109	0	0	0	0	0	0	0	0	2.57	2.56	0	2.56
C110	2.02	2.02	2.02	2.02	0	0	0	0	2.02	0	0	2.02
C111	2.35	2.35	2.35	0	0	0	0	0	0	0	0	2.35
C112	2.48	2.49	2.49	0	0	0	0	0	0	0	0	0
C113	2.40	2.40	2.40	0	0	0	2.40	2.40	2.40	2.40	0	2.40
C114	3	3	3	0	2	0	0	0	0	0	0	2
C115	2.60	0	0	2.58	0	0	0	2.60	2.60	0	0	2.60
C116	2.98	2.98	2.98	0	2.98	0	0	2.98	2.98	2.98	0	2.98
C201	2.39	2.39	0	0	2.39	0	0	0	0	0	0	2.39
C202	2.67	2.67	2.67	0	0	0	0	0	0	0	0	0
C203	2.24	2.24	2.24	2.24	2.24	0	0	0	2.24	0	0	2.24
C204	2.33	2.33	2.33	0	0	0	0	0	0	0	0	0
C205	2.25	2.25	2.25	0	0	0	0	0	0	2.23	0	0
C206	2.88	2.89	2.88	0	0	2.88	2.88	2.88	0	0	0	0
C207	2.91	2.91	2.91	2.91	0	0	0	0	0	0	0	0
C208	2.91	2.91	2.91	0	0	0	0	0	0	0	0	0
C209	0	0	0	0	0	0	0	0	2.86	2.86	0	2.86
C210	2.84	2.84	0	0	2.84	0	0	0	0	0	0	2.85
C211	2.85	2.85	2.86	2.85	0	0	0	0	2.85	0	0	2.85
C212	2.84	2.84	2.85	2.83	2.83	0	0	0	2.84	0	0	2.84
C213	2.85	2.85	2.86	2.85	0	0	0	0	2.86	0	0	2.85
C214	2.85	2.85	2.85	0	2.87	0	0	0	2.9	0	0	2.84
C215	2.85	2.85	2.85	2.85	2.85	0	0	0	2.85	0	2.87	2.85
C216	2.86	2.86	2.86	0	2.86	0	0	0	0	0	0	0
C217	2.84	2.84	2.85	2.83	2.83	0	0	0	2.84	0	0	2.84
C218	0	0	0	0	0	0	0	0	2.88	2.88	0	2.88
C301	2.87	2.87	2.87	0	0	0	0	0	2.87	0	0	0
C302	2.86	2.86	2.86	2.86	2.86	0	0	0	2.86	0	0	2.86
C303	2.86	2.87	2.88	0	2.86	0	0	0	2.86	0	0	2.86
C304	2.86	2.86	2.86	2.86	2.86	0	0	0	2.86	0	0	2.86
C305	2.89	2.89	2.89	2.89	2.89	0	0	0	2.89	0	0	2.89
C306	2.89	2.89	2.9	2.9	2.89	0	0	0	0	0	0	0
C307	2.91	2.91	2.9	0	2.89	2.89	2.92	0	0	0	0	0
C308	2.89	2.88	2.88	0	2.88	0	0	0	0	0	0	0
C309	2.89	2.88	2.89	0	2.88	2.82	0	0	2.85	0	0	2.86
C310	2.89	2.89	2.89	2.89	2.89	2.90	0	0	2.89	2.88	0	2.89
C311	2.86	2.86	2.87	2.86	0	0	0	0	2.86	0	2.86	2.86
C312	2.89	2.89	2.91	2.91	2.90	2.90	2.89	0	2.89	0	2.88	2.89
C313	2.86	2.86	2.86	2.86	2.88	0	0	0	2.86	0	0	2.86
C314	2.86	2.86	2.86	2.86	2.86	0	0	0	2.86	0	0	2.86
C315	2.86	2.86	2.85	2.86	2.85	0	0	0	2.86	2.87	2.85	2.86
C316	2.86	2.86	2.86	2.86	0	0	0	0	0	0	0	0

C317	2.86	2.86	0	0	0	0	0	0	0	0	0	0
C318	2.86	2.86	2.86	2.86	2.87	2.86	2.86	2.86	2.86	2.86	2.86	2.86
C319	0	0	0	0	0	0	0	0	2.86	2.86	0	2.86
C401	2.85	2.86	2.86	0	0	0	0	0	0	0	2.85	0
C402	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.89	2.88	0	2.88	2.88
C403	2.86	2.87	2.87	0	0	0	0	0	0	0	2.87	0
C404	2.86	2.86	0	2.86	2.87	2.86	2.86	2.86	2.86	2.86	2.86	2.86
C405	2.88	2.87	2.86	2.87	2.87	2.86	2.85	2.86	0	0	0	0
C406	2.86	2.87	2.88	2.86	2.88	2.87	2.89	2.88	0	0	0	0
C407	2.86	2.86	2.86	0	2.86	0	0	2.86	2.86	2.86	0	2.86
C408	2.86	2.86	2.86	2.83	2.86	0	0	2.86	2.86	2.86	0	2.86
C409	2.86	2.86	0	0	0	2.86	2.86	2.86	2.86	2.86	0	2.86
C410	2.86	2.86	2.86	0	2.83	2.86	2.86	0	0	2.86	2.85	2.83
C411	2.87	2.87	2.86	2.87	2.85	2.87	2.87	2.87	2.82	2.87	2.87	2.87

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.76	2.76	2.73	2.74	2.81	2.76	2.76	2.76	2.73	2.80	2.82	2.76
Direct Attainment	2.78	2.78	2.79	2.80	2.81	2.87	2.83	2.83	2.79	2.79	2.86	2.74
InDirect Attainment	2.67	2.67	2.50	2.50	2.83	2.33	2.50	2.50	2.50	2.83	2.67	2.83

PSO Attainment

Course	PSO1	PSO2	PSO3
C101	0	0	0
C102	1	0	0
C103	0	0	0
C104	0	0	0
C105	3	3	3
C106	0	0	0
C107	3	3	2
C108	0	0	0
C109	0	0	0
C110	2.02	2.02	2.02
C111	0	0	0
C112	0	0	0
C113	0	0	0
C114	2.39	2.39	2.39
C115	0	0	0
C116	2.98	2.98	2.98
C201	2.39	2.39	2.39
C202	2.67	0	0
C203	2.24	2.24	2.24
C204	2.33	2.32	2.33
C205	2.25	0	0
C206	2.86	2.89	2.88
C207	2.91	2.91	0
C208	2.91	0	0

C209	0	0	0
C210	2.84	2.84	2.85
C211	2.85	2.87	2.85
C212	2.84	2.84	2.84
C213	2.85	2.85	2.85
C214	2.84	2.86	2.85
C215	2.85	2.85	2.85
C216	2.86	2.86	0
C217	2.86	2.86	2.86
C218	0	0	0
C301	0	0	0
C302	2.86	2.83	2.86
C303	2.86	2.87	2.86
C304	2.86	2.86	2.86
C305	2.89	2.89	2.89
C306	2.89	2.89	2.89
C307	2.91	2.91	2.91
C308	2.89	2.89	2.89
C309	2.86	2.86	0
C310	2.89	2.89	2.89
C311	2.86	2.86	2.86
C312	2.89	2.90	2.89
C313	2.86	2.86	2.86
C314	2.86	2.86	2.86
C315	2.85	2.86	2.86
C316	2.86	2.86	2.86
C317	2.86	2.86	2.86
C318	2.86	2.86	2.87
C319	0	0	0
C401	2.85	2.85	2.86
C402	2.88	2.88	2.88
C403	2.86	2.86	2.87
C404	2.86	2.86	2.87
C405	2.87	2.87	2.87
C406	2.87	2.87	2.87
C407	2.86	2.85	2.86
C408	2.86	2.87	2.87
C409	2.83	2.88	2.86
C410	2.86	2.87	2.86
C411	2.87	2.86	2.86
PSO Attainment	2.74	2.75	2.72

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.76	2.81	2.78
InDirect Attainment	2.67	2.50	2.50

4 STUDENTS' PERFORMANCE (150)   Total Marks 123.83

:

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2022-23 (CAY)	2021-22 (CAYm1)	2020-21(CAYm2)	2019-20(CAYm3)	2018-19(CAYm4)	2017-18 (CAYm5)	2016-17 (CAYm6)
Sanctioned intake of the program(N)	150	120	120	120	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	144	117	114	94	107	97	107
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	2	8	2	23	23	2	2
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	146	125	116	117	130	99	109

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
2022-23 (CAY)	146	0	0	0	0
2021-22 (CAYm1)	125	61	0	0	0
2020-21 (CAYm2)	116	105	88	0	0
2019-20 (CAYm3)	117	34	42	34	0
2018-19 (LYG)	130	29	47	47	46
2017-18 (LYGm1)	99	50	29	23	21
2016-17 (LYGm2)	109	73	60	46	42

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
2022-23 (CAY)	146	0	0	0	0
2021-22 (CAYm1)	125	117	0	0	0
2020-21 (CAYm2)	116	114	116	0	0
2019-20 (CAYm3)	117	94	117	117	0
2018-19 (LYG)	130	107	130	130	121
2017-18 (LYGm1)	99	97	99	99	99
2016-17 (LYGm2)	109	107	109	109	109

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2022-23 (CAY)	150	144	96.00
2021-22 (CAYm1)	120	117	97.50
2020-21 (CAYm2)	120	114	95.00

Average [(ER1 + ER2 + ER3) / 3] : 96.17

Assessment : 20.00

4.2 Success Rate in the stipulated period of the program (40)   Total Marks 22.65

4.2.1 Success rate without backlogs in any semester / year of study (25)   Institute Marks : 8.00

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2 LYGm2 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	130.00	99.00	109.00
Y Number of students who have graduated without backlogs in the stipulated period	46.00	21.00	42.00
Success Index [SI = Y / X]	0.35	0.21	0.39

Average SI [(SI1 + SI2 + SI3) / 3] : 0.32

Assessment [25 * Average SI] : 8.00

4.2.2 Sucess rate in stipulated period (15)   Institute Marks : 14.65

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2 LYGm2 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	130.00	99.00	109.00
Y Number of students who have graduated in the stipulated period	121.00	99.00	109.00
Success Index [SI = Y / X]	0.93	1.00	1.00

Average SI[(SI1 + SI2 + SI3) / 3]: 0.98

Assessment [15 * Average SI] : 14.65

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

4.3 Academic Performance in Third Year (15)   Total Marks 11.92

Institute Marks : 11.92

Academic Performance	CAYm3 (2019-20)	LYG (2018-19)	LYGm1 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.83	8.22	7.79
Total number of successful students(Y)	117.00	130.00	99.00
Totalnumber of students appeared in the examination(Z)	117.00	130.00	99.00
API [X*(Y/Z)]:	7.83	8.22	7.79

Average API [(AP1 + AP2 + AP3)/3] : 7.95

Assessment [1.5 * AverageAPI] : 11.92

4.4 Academic Performance in Second Year (15)   Total Marks 12.19

Institute Marks : 12.19

Academic Performance	CAYm2 (2020-21)	CAYm3 (2019-20)	LYG (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	8.29	8.17	7.92
Total number of successful students (Y)	116.00	117.00	130.00
Total number of students appeared in the examination (Z)	116.00	117.00	130.00
API [X * (Y/Z)]	8.29	8.17	7.92

Average API [(AP1 + AP2 + AP3)/3] : 8.13

Assessment [1.5 * AverageAPI] : 12.19

4.5 Placement, Higher Studies and Entrepreneurship (40)   Total Marks 37.07

Institute Marks : 37.07

Item	LYG (2018-19)	LYGm1 (2017-18)	LYGm2 (2016-17)
Total No of Final Year Students(N)	130.00	99.00	109.00
No of students placed in the companies or government sector(X)	107.00	82.00	91.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	7.00	13.00	10.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	0.00	1.00
x + y + z =	114.00	95.00	102.00
Placement Index [(X+Y+Z)/N] :	0.88	0.96	0.94

Average Placement [(P1 + P2 + P3)/3] : 0.93

Assessment [40 * Average Placement] : 37.07

	LYG (2018-19)	LYGm1 (2017-18)	LYGm2 (2016-17)
Total No of Final Year Students(N)			

Program Name :
Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	SAI PRASANTHINI M S	310818104082	Mitsogo Technology Pvt. Ltd	464D816AE0EC4F98
2	SANGAVAI V D	310818104084	COGNIZANT	20345504
3	SELCIA B	310818104086	WIPRO	20012022
4	SELCIAH PAULIN SORNA S	310818104087	TCS,INTELLECT	TCSL/DT20218213549/Chennai, CORP/CHP/0119
5	SHAILESH S	310818104088	CAPGEMINI	6738705/1598582
6	SHAKETH REDDY THIRUMURU	310818104089	INFOSYS	HRD/3T/1004539778/22-23
7	SNEHA R	310818104091	TCS	TCSL/DT20218062323/Chennai
8	SOKITHA K	310818104092	TCS	TCSL/DT20218131087/Chennai
9	SREE DEVI D S	310818104094	TCS	TCSL/DT20218217911/Chennai
10	SRIDHAR L	310818104095	ANUNTA	101871
11	SRUTHI R	310818104096	WIPRO	2102022
12	SUMATHI V	310818104097	AVASOFT	82022
13	SURABI S	310818104098	ART BREU	20052021
14	SURESH E R	310818104099	COGNIZANT	19938929
15	SURIYA KUMAR R	310818104100	COGNIZANT	19938853
16	SURYAA K	310818104101	INTELLECT	CORP/CHP/0126
17	SWETHA S	310818104102	INTELLECT,TCS	CORP/CHP/0121, TCSL/DT20218216833/Chennai
18	TARUN E	310818104103	TCS	TCSL/DT20218324935/Chennai
19	TIVEKSHAA T	310818104104	WIPRO	27-01-2022
20	VIGNESHRAJAN S	310818104106	PRODAPT	10082022
21	WILFER RAJA J	310818104108	ZOHO	U40100TN2010PTC075961
22	YATHALURU KIREETI	310818104109	COGNIZANT	19796987
23	YOGESH K	310818104110	WIPRO	22-04-2022
24	YOGESHWARAN P	310818104111	INTELLECT	CORP/CHP/0231
25	HARIHARAN E	310818104301	PRODAPT	796C6300-8FF7-4780
26	PREETHI KANNAN	310818104701	ORANGESCAPE,COGNIZANT	141220212206869
27	RAHUL RAJBHAR S	310818104702	INTELLECT	CORP/CHP/0117
28	RANJITHA C	310818104703	PRODAPT	12072022
29	RENGANATHAN J	310818104704	HAPAG LLOYD	21052023
30	RESEKESH G	310818104705	ATOS	09-08-2022
31	SABARI VIKRAM R	310818104706	CAPGEMINI	6542768/1452755
32	SELVIN JERALD S	310818104707	TYCHONS	05-07-2022
33	ASWINRAJ K	310818104708	COGNIZANT	17039211
34	BHAVATHARANI G	310818104709	COGNIZANT	20345479
35	CHARLES FERNANDEZ C	310818104710	FACEPREP	CN20220617
36	YOGAPRIYA B K	310818104711	COGNIZANT	20345462
37	NAVEEN KUMAR J	310818104713	ORANGESCAPE	30092022
38	MYTHILI M	310818104714	WIPRO	22765400
39	MOHAMMED YOUSUF N	310818104715	COGNIZANT	20345502
40	KISHANTH KUMAR G	310818104717	TYCHON	11052022
41	KARAN GANESH G	310818104719	COGNIZANT	19938572
42	KAMALANATHAN R	310818104720	PRODAPT	23072022
43	DIVYA DHARSHINI S	310818104721	WIPRO	22022022
44	DEV PRAVEEN C	310818104722	IOPEX TECHNOLOGIES	IOPEX/RRF5229.CAN25680/11462
45	AAKASH RAMAN G	310818104001	COGNIZANT	18360779
46	ABHAYA TARUN K	310818104002	TYCHON	26062022

47	ADLIN SAJEESHA MJ	310818104003	INTELLECT(H), TCS, FIS UNIVERSITY	CORP/22-23/15305
48	AGESH LAYOLA I	310818104004	FIRST SOURSE	09-11-2022
49	AKASH K R	310818104005	COGNIZANT	20340563
50	AKSHAY J P	310818104006	NTT DATA	1446F21F-65BD-4DAF-9E19-A6CE8779B269
51	ALI ZAINULAABIDEEN	310818104007	PRODAPT	02A1B0C9-AD12
52	ANJANA V	310818104008	TCS	TCSL/DT20207483075/Chennai
53	ARUNACHALAM R	310818104009	FIS	26-01-2022
54	BAGIRAVAN S	310818104012	INTELLECT	CORP/CHP/0123
55	BHARATH RAJ	310818104013	COGNIZANT	19938564
56	CASBRO V	310818104015	TCS	TCSL/DT20207485226/Chennai
57	DANIEL ALFRED VISUVASAM W	310818104016	WIPRO	1-05-2022
58	DEEKSHA POORNIMA V	310818104017	TCS	TCS/L/DT20218091463
59	DEEPEKA S	310818104018	PRODAPT	1092021
60	DHANALAKSHMI K	310818104020	RAMCO	4052022
61	DHINESH KUMAR S	310818104021	PRODAPT,TCS,COGNIZANT(H)	C1D6E3CD-5538
62	DIVIN RAJ A	310818104022	COGNIZANT	1318489
63	DIVYA R	310818104023	TCS	TCSL/DT20207483191/CHENNAI
64	DIVYASHINI D	310818104024	COGNIZANT(H),PRODAPT	20345505
65	GANESH S	310818104026	WIPRO	1-05-2022
66	GIFTSON SAMUEL R V	310818104027	BOSTON HARBOR CONSULTING, ATOS	14072023, 09122021
67	GIRINATH A	310818104028	PRODAPT	796C6300-8FF7-4780
68	GOKULA KRISHNAN K N	310818104029	COGNIZANT	20345395
69	GOSPEL MARSHA M	310818104031	CAP GEMINI	1427223
70	GOWTHAM R	310818104032	COGNIZANT	20345555
71	HARIHARAN C	310818104033	TCS	TCSL/DT20218213923/Chennai
72	HARIRAJAN M	310818104034	COGNIZANT	20345555
73	HARISH V	310818104035	COGNIZANT	19808217
74	HARISHA P	310818104036	PRODAPT	0E6F472A-8510-4E52
75	HEMA JOTHIKA K	310818104037	INTELLECT	CORP/CHP/0125
76	INBASAKARAN S	310818104038	COGNIZANT	19797004
77	JAI KUMAR N	310818104039	SUTHERLAND, PENTAGON SPACE	24032022, U74999KA2020PTC133021
78	JAYAKUMAR R	310818104040	NTT DATA Global Delivery Services	756786D7-60E7
79	JEFFRINA HEBZI D	310818104042	ALFIE SOFTWARE	9600077778
80	JOE FEODOR FERNANDO R	310818104045	ENERGICA,CAP GEMINI	24052021, 1317913
81	KIRUTHIGA UL	310818104049	COGNIZANT	19797068
82	KISHORE KUMAR S	310818104051	THINQ24,CAPGEMINI	10-02-2023,2214636
83	KOUSALYA V	310818104052	INTELLECT	CORP/22/23/15877
84	KOUSHIK R	310818104053	COGNIZANT	1016861
85	LOGESHWARAN S	310818104054	CLOUD CENTRIES	CCT /1703141
86	LOKESHWARAN S	310818104055	INFOSYS	HRD/3T/1004538921/21-22
87	MEGAVARDHINI P	310818104056	NTT DATA Global Delivery Services	787736D7-60E7
88	MIDUMITHILASH S	310818104057	HTC Global Services	HTC/ITES/615272
89	MOHAMED RIYAS KHAN P	310818104059	INFOSYS	7042022
90	MONISHA J	310818104060	COGNIZANT	20885837
91	MUTHU GEETHALAKSHMI S	310818104061	COGNIZANT,PRODAPT	19797186
92	NARESH K	310818104063	WIPRO	20-01-2022
93	NIDHIF J	310818104065	ADP	28-06-2022

94	NILA I	310818104066	TCS	TCSL/DT20207080409/Chennai
95	NISHANTHI S	310818104067	INTELLECT	CORP/CHP/0156
96	NITHISH KUMAR R	310818104068	Fiserv CE Pvt Ltd	072900DL2003PTC1235
97	PAVITHRAN E	310818104070	EXIMIO SERVICES AND SOLUTIONS	EXIAMI/0523/002362
98	POOJA BEDI V	310818104071	PRODAPT	D7B96E82-6C6F-4971-A6C5-B2BB2C17FD06
99	MYTHREAN G	310818104062	Cognizant	19797098
100	PREETHIKA M R U	310818104074	TCS	TCSL/DT20218205568/Chennai
101	RAGHUL RAJ K	310818104075	INTELLECT	CORP/CHP/0128
102	RAJALAKSHMI S	310818104076	TCS	TCSL/DT20207080350/Chennai
103	RAJASUTHA R	310818104077	Harman Connected Services	7022022
104	RAMJI P	310818104078	RAMCO	29092022
105	REEJA R	310818104079	Harman Connected Services	5022022
106	ROGERS HANSEL G	310818104080	WIPRO	14-08-2023
107	PARTHEEBAN R	310818104069	FORTUNE CAPITAL SERVICES	OFL/FCS/70/2023

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AAJITH ALI U	310817104001	Lapiz Digital Services	12-12-2021
2	ABINAYA N K	310817104002	DXC Technology	12232021
3	AISHWARYA M	310817104003	FIS Global Business Solutions	5052021
4	ALLWIN	310817104007	TCS	TCSL/DT20218205568/Chennai
5	AMEER ARSHAD J	310817104008	Infosys	HRD/3T/1004343459/22-23
6	ANGELINE EMIMMA C	310817104009	Infosys Limited	HRD/3T/1004538921/22-23
7	ANIRUPITA P	310817104010	FIS Global Buissness Solution	14-06-2021
8	ANTO ABIJIT FERNANDO J	310817104012	Maveric	15-07-2021
9	ARAVINTH L	310817104014	HCL Technologies	24032022
10	ARUN KUMAR P	310817104016	Maveric Systems	15072021
11	ASWIN V J	310817104017	Crunchops Consulting	03-10-2022
12	BAVATHARANI S	310817104020	LTI MindTree Limited	12-04-2022
13	BHARATH V	310817104021	MSC Technology	1770
14	CALVIN KUMAR R	310817104024	HCL	51991207
15	CHELSEA MAGDELINE S	310817104025	Concentrix	11-06-2022
16	CHERUKURU SWAPNA	310817104026	Infosys	HRD/3T/1001674750/21-22
17	DEEPAK SHARRAN V	310817104027	Infosys	HRD/3T/1001715371/21-22
18	DINESH KUMAR S	310817104028	Bafna Pharmaceuticals Limited	10022023
19	GANESH V	310817104029	Infosys	HRD/3t/1001721236/21-22
20	J.HARISH KUMAR	310817104030	Capgemini	2114636
21	HELEN RACHEL A	310817104031	Banibro	1042022
22	INFANT FEBRON RODRIGUEZ J	310817104032	FIS Solutions (India) Private Limited	Aug-21
23	ISHANA JENIFER E P	310817104033	Freshwork	11-06-2022
24	JANANI K	310817104034	Capgemini Technology Services	46129451
25	JANENI S	310817104035	LTI Mindtree Limited	4/12/2022
26	JASWANTH K R	310817104036	TCS	TCSL/DT20196230645/Lucknow
27	JAYARAM SINGH R	310817104037	Gigamon, JUNIPER	20378
28	JOHNSON SOLOMON N	310817104038	Avasoft	Jan-21
29	JOSEPH DAVE ALFRED J	310817104039	Freshworks Technologies	E5236
30	JOSPHIA GLADLIN J K	310817104040	DXC Technology	01-07-2021
31	KANISHA V P	310817104042	Ernst & Young Global Delivery	26-05-2021
32	KEERTHANA T	310817104044	TCS	TCSL/DT20196229139/Chennai
33	KEERTHI G L	310817104045	Infosys	HRD/3T/1001454216/21-22
34	KOUSHIKA B L	310817104046	TCS	TCSL/DT20206788731/Chennai
35	KRISHNAKUMAR R	310817104047	Capgemini	2116746
36	MADHUJA R	310817104048	NTT Data	782736D7-60E7
37	MAHENDRA VARMA J	310817104049	Wipro	29-11-2021
38	MALINI R	310817104050	Infosys	HRD/3T/1001454248/21-22
39	MANIKANDAN T	310817104051	BYJU'S	10072022
40	B.MANOJ KUMAR	310817104053	Infosys	HRD/3T/1001904216/21-22
41	P.MANSY	310817104054	HCL Technologies	L7414ODL199IPLCO46369
42	C.MOHANA PRIYA	310817104055	Ernst & Young Global Delivery	26-05-2021
43	K.MOHITH	310817104056	Wipro	26/10/2021
44	S.MONISHA	310817104057	Wipro	08/12/2021
45	NAVEEN KUMAR.S	310817104059	Tech Mahindra	826316/2002100/ELTP
46	NISHAANTH.M.S	310817104060	Orgware Technology	22-12-2021

47	NIVETHA.J	310817104061	NTT Data Global Delivery Services	745123D7-60E7
48	M.PAVITHRA	310817104063	HCL Technologies	8122021
49	PRABHAT.B	310817104064	Appstars Applications	30092021
50	K.PRAVEEN	310817104065	NTT Data Global Delivery Services	756736D7-60E7
51	PRAVEEN KUMAR.S	310817104066	Mindtree Limited	7032022
52	PRIYANKA.G	310817104068	Accenture	1102021
53	A.RADHA	310817104069	Hexaware Technologies	1000063862
54	R.L.RAJA	310817104070	MindTree	TN/80012159/20
55	RAJAN.L	310817104071	People One	05-07-2021
56	T.RAM KUMAR	310817104073	TechMahendra	845673/2002100/ELTP
57	R.RUBESH CHANDAR	310817104074	TCS	TCSL/DT20196229137/Chennai
58	SAI PREETI.S	310817104076	GXX India Private Limited	G10X532
59	SANDHIYA M	310817104078	MSC TECHNOLOGY	JOFF210412
60	SANJAY J	310817104079	DYNAMIC NETSOFT TECHNOLOGY	3/1/2023
61	SANJAY KUMAR T	310817104080	APPSTARS APPLICATION PVT LTD	23032022
62	SANTHOSH T R	310817104081	BYJU's	24-08-2021
63	SARADHA DEVI B	310817104082	ATOS Syntel	ASBE21033451
64	SARAN KUMAR S	310817104083	BYJYS	4082021
65	SARATHKUMAR K	310817104084	People One	01-07-2021
66	SASI KIRAN A B	310817104085	Indium Software Corporate Limited	27-06-2022
67	SHARMI R A	310817104086	Congruent	01-07-2021
68	SHASANTH S	310817104088	HCL Technologies Ltd	4022022
69	SNEHA SUGUMAR S	310817104089	ATOS Syntel	ASBE2103784
70	STERLIN SHEEJA B	310817104090	Renault Nissan Technology & Business Centre	HR/15751/Aug2021
71	SUNDAR E	310817104091	EY Global DeliveryServices	17/2/2022 DDD8EA62-9A2B-465D-81BB-CFAB4EEE299F
72	SURENDAR S	310817104092	DXC Technology	01-07-2021
73	SUWETHA M	310817104094	MindTree	TN/80012182/20
74	SWETHA K	310817104095	Nerds Hub(e) Private Limited	16-12-2022
75	THARUN V	310817104096	TCS	TCSL/DT/20206228945/Chennai
76	THIYAGARAJAN R	310817104097	Hewlett Packard	22-06-2023
77	VASUNDHARA S K	310817104100	Gislen Software Pvt. Ltd.	HR-REC-TO-21-09
78	VIVIN SILVA S	310817104101	Appstars Applications Pvt.Ltd	30092021
79	YAGAVARDHINI V	310817104102	Wipro	21-09-2021
80	YESHWANTH V	310817104103	Co-operative Group Limited	24-01-2022
81	SHIVANI .T	310817104701	Accenture Solutions Pvt. Ltd.	C10292932
82	VARUN KARTHIK S	310817104099	WIPRO	20-01-2022

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	SANGITHA S	310816104097	Prodapt	06-07-2020
2	SANTHOSHKUMAR B	310816104098	Infosys	HRD/3T/20-21/1000515705
3	SANTHOSH KUMAR R	310816104099	Wipro	29-06-2020
4	SELVAKUMARAN A	310816104101	Infosys	HRD/3T/20-21/1000515775
5	SHALINI N	310816104102	Mindtree	TN/80012163/19
6	SHARONE N	310816104103	Renault Nissan	HR/14840
7	SHWETA M M	310816104106	TCS	TSCL/DT20195370734
8	SRIDHARAN T	310816104108	IVY Mobility	1-07-2020
9	SUBATHRA S	310816104109	TCS	TCSL/DT20195367358
10	SWATHI C	310816104112	Timeless	27-07-2019
11	THENMOZHI N	310816104113	Mindtree	TN/80012159/19
12	VIGNESH P	310816104116	People One Technology	01-03-2020
13	VIJAY P	310816104117	Infosys	HRD/3T/20-21/10005157670
14	VISHALI M	310816104118	Cognizant	14416832
15	YUGAVARSHINI G	310816104120	Ernst & Young Global Delivery	24-03-2020
16	AJAY BALAJI J	310816104301	Infosys	HRD/3T/20-21/10004123702
17	PRATHEEPA M	310816104701	Jeppiaar University- SPORTS STAFF	22-01-2022
18	AISWARYA K	310816104001	Infosys	HRD/3T/20-21/000515637
19	ANANTH S	310816104003	kingston Innovative	12-01-2021
20	ANNAPOORANI A	310816104005	Infosys	HRD/3T/20-21/1000515766
21	ANUBAMA G	310816104007	TCS	TCSL/DT20195419835
22	APARNA K	310816104008	Mindtree	TN/80012170/19
23	ARAVIND P	310816104009	TCS	TCSL/DT20193466135
24	AROKIA LARANCE T	310816104010	Lemontree	02-02-2021
25	ASHWIN M	310816104011	Hackwithinfy	03-04-2020
26	ASHWIN BARATH C K	310816104012	Capgemini	1627530
27	BALAJI S	310816104013	SBL IT Solution	06-01-2021
28	BHAVANI G	310816104014	TCS	TCSL/DT20195417949
29	CHAKRAVARTHY J	310816104016	ATOS Syntel	SBE1989035
30	CHARLIN PRAISON B	310816104017	Ramco system	23-02-2021
31	CHENDUR MURUGAN C	310816104018	IQVIA Technologies	20-04-2021
32	DANISH V	310816104020	Nettyfish, Muthoot Finance	025-CDR/03732/20
33	DEEPAK CHAKARAVARTHY A	310816104021	Sutherland Global	21-07-2020
34	DHARSHANI R	310816104022	Infosys	HRD/3T/20-21/1005157668
35	DHINESH KUMAR R	310816104023	ATOS Ernst and Young	SBE1984019 24-03-2020
36	FEROZ AHMED KHAN M	310816104026	ATOS	SBE1990155
37	GAUTHAM AJAY k	310816104027	TCS	TCSL/DT20184475944
38	GEAC CARDO S	310816104028	HCL Technologies	08-12-2020
39	GIFTSON JEBARAJ S	310816104029	TCS	TCSL/DT20184675874
40	GOKUL S	310816104030	Concentrix	10-06-2021
41	GOMATHI SHIVANI C	310816104032	CSS CORP, Virtusa	2-11-2020
42	GRACE MARTINA A	310816104033	Mindtree	TN/80012172/19
43	GURU PRASATH D	310816104034	Infosys	HRD/3T/20-21/1000515485
44	JAYASURYA G	310816104036	Cognizant	13958892
45	JEROSHA R	310816104038	Amazon	8-08-2020
46	JOEL TITUS KUMAR G	310816104039	ATOS Syntel	ASBE2003014

47	JOSEWIN S	310816104040	TCS	TCSL/DT20195632550
48	KALAISELVAN S	310816104041	ATOS Syntel	ASBE2003767
49	KANMANI B	310816104042	NTT Data Services	3-10-2019
50	KARUN E S	310816104045	TCS	TCSL/DT20195456650
51	KAVIARASAN N	310816104046	Infosys	HRD/3T/20-21/1000515734
52	KAVI PRIYA K	310816104047	DXC Technology	1-06-2020
53	KEERTHANA S	310816104048	Sutherland Global	09-01-2020
54	KEERTHANA V	310816104049	DXC Technology	05-06-2020
55	KEVIN BENSON B	310816104050	Fidelity Investment	08-12-2020
56	KIRUTHIKA V	310816104052	NTT Data Global Delivery	3-10-2019
57	KRISHNABHARATHI K	310816104053	HCL	14844507
58	KRISHNA PRASATH B	310816104055	TCS	TCSL/DT20195260263
59	LAKSHMANA RAJAN S K	310816104056	Mindtree	TN/80012162/19
60	LAKSHMIKANTH R	310816104057	CGI	6-06-2020
61	MAHADEVAN S	310816104060	Infosys	HRD/3T/20-21/1000515745
62	MAHALAKSHMI A	310816104061	TCS	TCSL/DT20195261210
63	MAHALAKSHMI V	310816104062	TCS	TSCL/DT20195261153
64	MANIVANNAN M	310816104065	MINEGATE	23-12-2020
65	MANOJKUMAR C	310816104066	SOLVERINES TECH SOLUTIONS	02-02-2021
66	MOHAMED AZHARUDEEN T	310816104067	CSS Corp	20-04-2020
67	NAGALAKSHMI S	310816104069	TCS	TCSL/DT20195590425
68	NANDA BALAN C	310816104070	Nettyfish	025-CDR/03732/20
69	NARMADHA R	310816104071	Ionixx Technologies	29-06-2020
70	NAVEEN R	310816104072	Infosys	HRD/3T/20-21/1000515657
71	NAVEEN KUMAR N	310816104074	Ionixx Technologies	29-06-2020
72	NIRMAL KUMAR T	310816104075	Indian oil corportion	P/1121/170
73	NITHINA S	310816104076	TCS	TCSL/DT20195600263
74	NITHIN KUMAR A	310816104077	Cognizant	13958602
75	PONKIRUTHIKA R	310816104078	Prodapt	06-07-2020
76	PONPRABHA P	310816104079	Infosys	HRD/3T/20-21/1000515756
77	PRIYADHARSHINI P	310816104080	ATOS Syntel	ASBE2005674
78	RAJADURAI S	310816104081	DXC Technology	1-06-2020
79	RAMESH KRISHNA K	310816104082	Bounteous	21-11-2020
80	RAM SANKAR A S K	310816104083	Ionixx Technologies	29-04-2019
81	RAMYA R	310816104084	Ernst & Young Global Delivery Services	24-03-2020
82	RENUKA S	310816104085	Cognizant	13958801
83	REVANTH T	310816104086	TCS	TCSL/DT20195373004/Chennai
84	REVATHI P	310816104087	Infosys	HRD/3T/20-21/10005157669
85	ROSHNE SUDHAKAR	310816104090	TCS	TCSL/DT20195373004
86	RUBIKA V	310816104091	People One Technology	01-03-2020
87	SABAPATHY SATHEESH P	310816104092	DXC Technology	01-06-2020
88	SAMRITHA S	310816104093	Timeless	27-07-2019
89	SANDHIYA K	310816104094	Ernst & Young Global Delivery Services	04-03-2020
90	SANDYA S	310816104095	TCS	TCSL/DT20195373348
91	SANGEETHA M	310816104096	Infosys	HRD/3T/20-21/1000515705

4.6 Professional Activities (20)   Total Marks 20.00

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

<div align="right">Institute Marks : 5.00</div>

IEEE Madras Section -- Student Branch Activity

ACADEMIC YEAR - 2022

1.Student Branch Code	: 64691
2. Name of the Institution	: Jeppiaar Engineering College
3. Address of the Institution	: Old Mamallapuram Road, Rajiv Gandhi Salai,
	Semmenchery, Chennai, Tamil Nadu – 600119.
4. City/Town of the Institution	: Semmenchery, Chennai
5. Website of the Institution	: https://jeppiaarcollege.org
6. Website address of the SB	: http://ieeesbjec.epizy.com/
7. Year of SB establishment	: 2005
8. A/C No. of the SB & Bank	: 729143907 (Indian Bank)
9. No. of Student Members	: UG Student Members: 64
	Graduate Student Members: 05
10. SB Counsellor Name	: Dr. J Jebastine
11. SB Counsellor Email ID	: eie@jeppiaarcollege.org
12. SB Counsellor Contact Phone	: +91 9566143828
13. SB Chairperson Name	: Johnsy Jeya Rani F
14. SB Chairperson Email ID	: johnsyjeyaranif@ieee.org
15. SB Chairperson Contact Phone	: +91 9443622674
16. SB Advisor Name	: Binu Siva Singh S K
17. SB Advisor Email ID	: binuece2011@gmail.com
18. SB Advisor Contact Phone	: +91 9884554143
19. Principal Name	: Dr. J. Francis Xavier
20. Principal Email ID	: principal@gmail.com

Society Chairperson

Name of AG / SC	Year of starting	No. of members	Chapter Chairperson Name & Email ID
WIE AG	2005	63	Ms. Jeevitha R (yashikajeevi06@gmail.com)
Computer Society	2005	61	Mr. Madhesh P (madhesh2k3@gmail.com)
Communication Society	2005	58	Ms. Jessy Amal Rani F (jessyamalranif@gmail.com)
PES Society	2005	52	Ms. Nivetha S (nivi04rshankar@gmail.com)
Signal processing society	2020	50	Ms. Renuga S (renugasuresh7184533@gmail.com)
Photonics society	2020	54	Ms. Swarna Latha V (0307swarna@gmail.com)

Congress event

SL. NO.	EVENT DATE/S	EVENT TYPE NATIONAL CONFERENCE / INTL. CONFERENCE	TOPIC OF THE EVENT	RESOURCE PERSONS
1.	01-06/22, 04-06-22, 07-06-22	International Congress	IEEE SSIT Student Leadership and Professional Awareness Congress 2022	Mr. Tom Couglin Mr. Robert A Dent Dr. Heather A Love

Technical Events

SL. NO.	EVENT DATE/S	EVENT TYPE WORKSHOP /SEMINAR/ FDP	TOPIC OF THE EVENT	RESOURCE PERSONS
1.	08-01-22	Webinar	Roadmap to Excel in Cybersecurity	Mr. Deebthik Ravi
2	20-01-22 & 21-02-22	Workshop	Web Designing	Mr. Heyram
3	22-01-22	Seminar	A Talk with the designer	Mr. Rejoe Abraham
4	23-01-22	Webinar	Women of wonder	Ms.Pearlena Bharathkumar
5	23-01-22	Seminar	SignoX - Ten Soft Skills for every Engineer	Mr. Aravindhan Anbazhagan
6	23-01-22	Seminar	SignoX - Path to Innovation with Design Thinking	Mr. Ashvanth
7	08-03-22	Webinar	Mangai - The Raised Her – Make your voice heard: Break the Bias and Fight for Better	Dr. Ramalatha Marimuthu
8	12-03-22	Webinar	Mangai - The Raised Her – Women in Technology	Rajalakshmi Srinivasan
9	13-03-22	Webinar	Mangai - The Raised Her – Getting started with Data Science	Dr.S.Gomathi
10	04-06-22	Webinar	SB League - Smart Grid	Mr. Rupesh Kumar Nirala
11	09-07-22	Webinar	Blockchain Technology and Cryptocurrency	Ms. Eva Kaushik
12	12-08-22	Webinar	Explore the reality of Virtual Space	Mr. Eswar RM
13	14-08-22	Seminar	Secrets to be Successful in Career	Mr. Ashwanth B
14	14-08-22	Seminar	IEEE Young Professionals	Mr. Sreekanth Ramaswamy
15	21-08-22	Webinar	Ethical Hacking	Gnana Aravind
16	07-09-22	Webinar	Role of Women in EngiMsring	Ms. Preethy V Warrior
17	05-11-22	Webinar	5G Mobile Communication and Networks	Mr. Ashok Kumar
18	19-11-22	Webinar	Understanding Cyber Threats	Mr. Arunchaleswaran
19	20-11-22	Webinar	Introduction to Git and Github	Ms. Induja Shankar
20	06-12-22	Webinar	Be an Entrepreneur	Mr. Rupinder Singh
21	07-12-22	Webinar	Will AI rule or ruin our future	Dr. Geetha Raju
22	09-12-22	Webinar	Metaverse	Ms.Kundavai

Competition Events

SL. NO.	EVENT DATE/S	EVENT TYPE AWARENESS PGM /COMPETITION /FIELD VISIT/ QUIZ/ DISCUSSION MEETING	TOPIC OF THE EVENT
1	17-01-22	Quiz	Hack the Reel
2	18-01-22	Competition	Product Marketing
3	23&24th -01-22	Competition	Crack the Squid
4	23-01-22	Symposium	SignoX
5	26th to31st -01-22	Quiz	Quizmania 2.O
6	17-03-22	Competition	Mangai - The Raised Her

7	01-05-22	Competition	Project Presentation - Powering a sustainable future
8	14-08-22	Competition	IEEE YESIST'12 Prelims
9	14-08-22	Competition	Code-IT
10	15-08-22	Competition	Chaturanga
11	13 &14-10-22	Symposium	Hack-O-Holics 3.O
12	3&4-12-22	Competition	Mic 1.O

Execom Members of the Madras Section do not visit our SB Physically, but they were resource persons in our Virtual SB Events.

S.NO	DATE	EVENT TYPE	OCCASION / EVENT NAME	CHIEF GUEST FROM IEEE MADRAS SECTION EXECOM
1	23-01-22	Symposium	SignoX	Dr. N. Kumarappan
2	13-10-22	Symposium	Hack-O-Holics 3.0	Dr. K Porkumaran, Priyadharshini S

ACADEMIC YEAR 2021

PART A	
1. Student Branch Code	: 64691
2. Name of the Institution	: Jeppiaar Engineering College
3. Address of the Institution	: Old Mamallapuram Road, Rajiv Gandhi Salai,
	Semmenchery, Chennai, Tamil Nadu – 600119.
4. City/Town of the Institution	: Semmenchery, Chennai
5. Website of the Institution	: https://jeppiaarcollege.org
6. Website address of the SB	: http://ieeesbjec.epizy.com/
7. Year of SB establishment	: 2005
8. A/C No. of the SB & Bank	: 729143907 (Indian Bank)
9. No. of Professional Members	: 10
10. No. of Student Members:	UG Student Members: 30
	Graduate Student Members: 07
11. SB Counsellor Name	: Dr. J Jebastine
12. SB Counsellor Email ID	: enochjeba.ieee@gmail.com
13. SB Counsellor Contact Phone	: +91 9566143828
14. SB Chairperson Name	: Ms.Anusha V
15. SB Chairperson Email ID	: anushaviswanathan55610@ieee.org
16. SB Chairperson Contact Phone	: +91 9962984860
17. SB Advisor Name	: Mr. Binu Siva Singh S K
18.SB Advisor Email ID	: binuece2011@gmail.com
19. SB Advisor Contact Phone	: +91 9884554143

 Society Chairperson

Name of AG / SC	Year of starting	No. of members	Chapter Chairperson Name & Email ID
WIE AG	2005	40	Ms. Kavya K (kavyakalaiselvan@ieee.org)
Computer Society	2005	40	Mr. Gokula Krishnan R (gokulakrishnan@ieee.org)
Communication Society	2005	39	Ms. Nandhini L (nandhinilakshmipathy@ieee.org)
PES Society	2005	40	Mr. Jagadeeswaran K (ncjagadeeswaran@gmail.com)
Signal processing society	2020	39	Ms. Shruthi Ravi (shruthiniveda@gmail.com)
Photonics society	2020	40	Ms. Ramya N (ramyarakesh@ieee.org)

Workshops / Seminars / FDPs

Sl. No.	Event Date/s	Event Type Workshop /Seminar/ FDP	Topic of the Event	Resource Persons
1.	11-01-2021	Seminar	Webinar on How To Enhance Your Public Speaking Skills	Mr. Ashvanth B
2	13-01-2021	Seminar	Webinar on Why Python for Machine Learning	Mr. Satwik Muthappa
3	27-01-2021	Workshop	Hands on Workshop on Web Designing	Mr. Abhinav Sharma
4	25-02-2021	Seminar	Webinar on Signal Processing	Mr. Nitesh Pradhan
5	4-4-2021	Seminar	Future of Robotics and Its Impact	Mr. Mohammad Soleimani Amiri
6	22-04-2021	Seminar	Getting Started with GitHub	Mr. Adil Shehzad
7	23-04-2021	Seminar	IEEE CS Awards	Mr. Aravindhan Anbazhagan
8	24-04-2021	Seminar	Starting Career from A Startup	Mr. Karandeep
9	27-04-2021	Seminar	Program your PLC	Mr. Premoth Aniruth
10	3-05-2021	Seminar	Celebrating Women in Technology	Ms. Chaitali Naik, Ms. Annapurna Pradhan, Ms. Ritika Mahajan, Ms. Priyanka Chaurasia, Ms. Asha Gutlapalli , Dr N. Nithyavathy, Dr. RamalathaMarimuthu.
11	16-05-2021	Seminar	Webinar on How to Improve Documentation Skills	Mr. Mukul Aigalikar
12	17-05-2021	Seminar	Roadmap to Python	Ms. Reshma Barvin
13	18-05-2021	Seminar	Introduction to LS-PICs (Large Scale - Photonics Integrated Circuits)	Ms. Uma Kumari
14	20-05-2021 to 22-05-2021	Workshop	Labview	Mr. sivayogan
15	04-06-2021 to 05-06-2021	Workshop	Cyber Threat Intelligence Workshop	Mr. TonnyGidraph

16	14-06-2021 to 15-06-2021	Workshop	Workshop On Chatbot Using Python	Ms. Reshma
17	12-07-2021	Seminar	why you should join IEEE?	Ms. Priyadharshini.S Mr. Gokula Krishnan R Ms. Nasreen M Mr. Muralidharan D Mr. Ganesh U
18	25-07-2021	Seminar	Webinar on Introduction to Data Base Management System	Ms. Hari Priya
19	26-07-2021	Seminar	Webinar on Terahertz Technology: The Challenges, Opportunities, and Progress of Wireless Communication beyond 5G & 6G	Dr. Shyamal Mondal
20	31-07-2021	Seminar	Webinar on Research Fields in IEEE	Dr. Soma Prathibha
21	01-08-2021	Seminar	Webinar On Resume Building	Mr. Kushal Vijay
22	10-08-2021 to 12-08-2021	Workshop	A Practical Approach to Git and GitHub	Mr. Adil Shehzad
23	24-08-2021 to 25-08-2021	Workshop	Workshop on Mental Health, self-care and Wellbeing	Ms. Dorathy Agnes Ms. RajulNirmalkumar
24	28-08-2021	Seminar	How to get placed in product based company	Mr. Mamta Kumari
25	05-09-2021	Workshop	Workshop On Machine Learning	Ms. Nivedya
26	29-09-2021	Seminar	The Path to Become A Data Analyst in The Modern World	Mr. Andrei Gavrilov
27	06-10-2021	Seminar	Skill up with Pycharm	Ms. Vijaya Shree Raja Sekaran
28	09-10-2021	Seminar	Introduction To Back End Development Php	Mr. Mathesh
29	14-10-2021 to 15-10-2021	Workshop	Workshop On PCB Designing Using Easyeda	Mr. Abhinav
30	17-10-2021	Seminar	Webinar on Developing Industrial Internet of Things	Mr. Saravanan Ganesan
31	18-11-2021	Seminar	Level Up Your Career With Optical Communication	Dr. Uma Kumari
32	29-12-2021	Seminar	Webinar On Data Science and Cyber Security in Cyber-Physical System	Mr. Niranjen Swarup
33	30-12-2021	Seminar	Webinar On Node.Js	Mr. Kevin Mathew

Non-Technical Events/ Awareness programs

Sl. No.	Event Date/s	Event Type Awareness Pgm/ Competition/ Field Visit/ Quiz/ Discussion Meeting	Topic of the Event	Resource Persons
1	02 -01-2021	Field Visit	A day in an orphanage	-
2	09 -01-2021	Competition	PREZENTO	-
3	10-01- 2021	Competition	CAP- (Cover a Page)	-
4	12-01-2021	Competition	Tinker CAD	-
5	13-01-2021	Awareness Program	Women Empowerment	Ms. Indhumathi Gunasekaran
6	18-01-2021	Competition	Contenido	-
7	19-01-2021	Competition	Speechifier	-
8	22-01-2021	Competition	Video Autopsy	-
9	24-01-2021	Competition	Flick-A-Clip	-
10	28-01-2021	Competition	Rec-Mo (Just A Minute)	-
11	28-03-2021	Competition	Presentup	-
12	18-04-2021	Competition	Talk Show - TERTULIANO	-
13	21-04-2021	Competition	Content Competition	-
14	21-04-2021	Competition	Word Chase	-
15	21-04-2021	Competition	Think Bots	-
16	20-04-2021	Competition	Art Graphique – Poster Designing Competition	-
17	23-04-2021	Competition	Picturesi	-
18	23-04-2021	Competition	Fix-the-Bug	-
19	26-04-2021	Competition	Perscripta	-
20	24-04-2021	Competition	Sculpt Enhavo	-
21	28-04-2021	Competition	Presentario	-
22	29-04-2021	Competition	Pictue Puzzle	-
23	18-05-2021 to 20-05-2021	Competition	Monochrome Photography	-
24	30-05-2021	Competition	Techbuzz	-
25	14-08-2021	Competition	Memes Madness	-
26	22-08-2021	Competition	Posterry	-
27	08-10-2021	Orientation	IEEE Orientation program	-
28	19-10-2021	Competition	Snake and Ladder	-
29	28-12-2021	Quiz	Logo Quiz	-
30	31-12-2021	Quiz	Quiz On Women Achievers	-
31	5-10-2021 to 31-12-2021	Competition	Hack-O-Holics 2.O (A National Level Hackathon)	-

Execom Members of the Madras Section do not visit our SB Physically, but they were resource persons in our Virtual SB Events.

S.No	Date	Event Type	Occasion / Event Name	Resource Person from IEEE Madras Section Execom

			Webinar on How To	
1.	11-01-2021	Seminar	Enhance Your Public Speaking Skills	Mr. Ashvanth B

IEEE Awards

S.NO	Awards	Students
1	Richard E Merwin Scholarship (Fall 2021)	Bharathi Ramesh, Ganesh U
2	Richard E Merwin Scholarship (Spring 2021)	Priya Dharshini S
3	Richard E Merwin Scholarship (Spring 2020)	Vignesh M A
4	IEEE Student Ethics Competition Winner 2019	Vignesh M A
5	1st Runner Up - IEEE R10 Undergraduate Student Project Video Contest (2021)	Ganesh U, Priya Dharshini S
6	The Darrel Chong Student Activity Award – Silver Category (2021)	For the event - Hack-O-Holics

ACADEMIC YEAR 2020

PART A	
1. Student Branch Code	: 64691
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	Semmenchery, Chennai, Tamil Nadu – 600119.
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	Graduate Student Members: 07
11. SB Counsellor Name	: Dr. J Jebastine
12. SB Counsellor Email ID	: enochjeba.ieee@gmail.com
13. SB Counsellor Contact Phone	: +91 9566143828
14. SB Chairperson Name	: Ms. **PriyaDharshini**
15. SB Chairperson Email ID	: Priya.ieee.org@gmail.com
16. SB Chairperson Contact Phone	: 91 91760 24386
17. SB Advisor Name	: Mr. Binu Siva Singh S K
18.SB Advisor Email ID	: binuece2011@gmail.com
19. SB Advisor Contact Phone	: +91 9884554143

YEAR	SL.No	Event details	Month of Event	

	1	Manoratra (Content Writing Contest)	April 2020	Hybrid mode
	2	Flickerz (Photography Contest)	April 2020	
	3	Plakatas (Poster Designing Contest)	April 2020	
	4	PY-CATECHIZE (Python Quiz)	April 2020	
	5	IEEE- Benefits and Opportunities	April 2020	
	6	IEEE Brand Ambassador: Benefit to Impact Creation	April 2020	
	7	The Best Tips for Writing a Great Resume	April 2020	
	8	Cyber Security: How Hackers Really Hack	April 2020	
	9	Web Development: The Beginners Guide	April 2020	
	10	Applications of Artificial Neural Networks in Computational Biology	April 2020	
	11	Professional Communication	April 2020	
	12	Introduction to Deep Learning	April 2020	
	13	Career Opportunities as a Data scientist	May 2020	Hybrid mode
	14	Career Opportunities in the Electric Vehicle Domain	May 2020	
	15	Scholarships in IEEE Computer Society	May 2020	
	16	Introduction to Internet of Hacked Things	May 2020	
	17	Cloud Computing	June 2020	
	18	Wireless Power Transmission	June 2020	
JAN - DEC 2020	19	Cloud Development	June 2020	Hybrid mode
	20	Ethical Hacking	June 2020	
	21	Career Opportunities in Artificial Intelligence	June 2020	
	22	Quizmania	June 2020	
	23	Content Writing workshop 1.0	July 2020	
	24	Exploring IEEE	July 2020	
	25	Entrepreneurship as a Career	July 2020	
	26	Women in Engineering -Pathway to Success	July 2020	
	27	Membership Benefits of IEEE PES	July 2020	
	28	Research Opportunities in IEEE	July 2020	
	29	Career Guidance	July 2020	
	30	Quizotism	July 2020	
	31	Go Extreme through IEEE Xtreme	July 2020	
	32	How Devops Is Changing Software Engineering	July 2020	
	33	Article Writing - Technology Evolution	August 2020	
	34	Connexion	August 2020	
	35	Historia Imagine		
	36	Treasure Hunt	August 2020	
	37	Clash and Concour	September 2020	
	38	Tech Sequel	September 2020	
	39	Xtreme Chasers	October 2020	
	40	Hack-o-holics	Oct – Nov 2020	
	1			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IN ASSOCIATION WITH

COMPUTER SOCIETY OF INDIA KANCHEEPURAM CHAPTER

COMPUTER SOCIETY OF INDIA (CSI)

Computer Society of India is the first and largest body of computer professionals in India. It has 74 chapters across India, 551 student branches, 1000 Institutional members and more than 1,50,000 members. CSI Jeppiaar Engineering College Student Branch was formed on **December 5th 2006** and was inaugurated on the same day. At present there are around 76 members. The Computer Society of India is a non-profit professional meet to exchange views and information, learn and share ideas. Our department students in association with Computer Society of India regularly organizes workshops, seminar conventions, and technical talks.

Highlights :

- Conducted National Level Student Convention on March 21st & 22nd 2019(obtained a **grant of Rs.70,000/** from Computer Society of India).
- Conducted Regional Level Student Convention for Region-7 From January 23rd to 24th 2018 (obtained a **grant of Rs.35,000/** from Computer Society of India)
- Conducted State Level Student Convention From October 25th to 26th 2016 (obtained a **grant of Rs.25,000/** from Computer Society of India).
- Organized National Level Annual Tech fest **COGITO 20** on March 05th & 06th 2020.
- **Naveen M(ID**: **01289905)** and **Ragavan P.V (ID**: **01289904)** has published research paper in **CSI Adhyayan –Jan to Mar 2016 Issue** (Quarterly digital magazine for students)**V.Kishore has published a paper A NEW PERSONNEL AUTHENTICATION SYSTEM BASED ON BIOMETRIC FEATURES in CSI Springer** Transactions on ICT.
- National Level Hackathon Event conducted in associateion with Computer Society of India and Start up TN in APRIL **27-04-2023 AND 28-04-2023**

Jeppiaar Engineering College Membership ID: 101270

Student Branch Account No.: 6288998391 - INDIAN BANK, Semmanchery Branch

Students Branch Councellor: Academic Year: 2022 - 23 - Dr. J. Anitha Gnana Selvi

Academic Year: 2021 - 22 - Dr. P. Jesu Jeyarin

Academic Year: 2020 - 21 - Dr. P. Jesu Jeyarin

CSI AWARD

S.No	Name of the Award	Academic Year
1	Best Supporting College	2021 - 22
2	Best Supporting College	2022 - 23
3	Acting Student Branch Counselor Award	2022 - 23

STUDENT MEMBERSHIP DETAILS

BATCH	MEMBERS
2022 - 23	52
2021 - 22	56
2020 - 21	105

FACULTY MEMBERSHIP DETAILS

S.NO	FACULTY NAME	MEMBER NO	Department & Designation Details
1	Dr.ArokiaRenjit	F8000847	CSE / Professor

2	Dr.P.JesuJeyarin	N1056219	CSE / Professor
3	Mr.A.SubashChandar	F8003717	CSE / Assistant Professor
4	Dr. J. Anitha Gnana Selvi	F8000848	CSE / Assistant Professor
5	Dr. K. Jaya Sakthi Velmurugan	F8004525	CSE/Associate Professor
6	Dr. S. Venkatesh	F8004526	CSE/Assistant Professor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IN ASSOCIATION WITH

COMPUTER SOCIETY OF INDIA

KANCHEEPURAM CHAPTER

EVENTS ORGANIZED

ACADEMIC YEAR: 2020-2021

S.NO	DATE	EVENT NAME	ORGANIZED BY
1	31-10-2020	INTERCOLLEGE CODING COMPETION	CSI Coordinator & CSI Students
2	27-8-2020	INDUCTION PROGRAM	CSI Coordinator & CSI Students
3	23-7-2020 & 24-7-2020	QUIZART	CSI Coordinator & CSI Students
4	12-7-2020	IT DOODS CODING COMPETION	CSI Coordinator & CSI Students
5	13-6-2020 & 14-6-2020	MULTIPROGRAMMING QUIZ	CSI Coordinator & CSI Students

ACADEMIC YEAR: 2021-2022

S.NO	DATE	EVENT NAME	ORGANIZED BY/RESOURSE PERSON
1	29-10-2022	GUIDANCE TO CRACK CAT-SEMINAR	COMPUTER SOCIETY OF INDIA/MR.JEGATHESH PRABHU
2	23-03.2022	TECHNICAL QUIZ COMPETION	CSI Coordinator & CSI Students
3	25-4-2022	QUIZART-1	CSI Coordinator & CSI Students
4	2-5-2022	CODEWARS -0	CSI Coordinator & CSI Students

5	25-03-2022	WHY INTERNSHIP-POWER TALK	COMPUTER SOCIETY OF INDIA/MR.NAVEENKUMAR KISSFLOW WORKFLOE BU

ACADEMIC YEAR: 2022-2023

S.NO	DATE	EVENT NAME	ORGANIZED BY/RESOURSE PERSON
1	29-10-2022	ENLIGHTENMENT TO INNOVATIVE PROJECTS IN AI	COMPUTER SOCIETY OF INDIA/MR.SUBRAMANI ARUMUGAM LATENT VIEW ANALYTICS
2	27-04-2023 AND 28-04-2023	HACKATHON 23 NATIONAL LEVELEVENT	CSI Coordinator & CSI Students
3	29-8-2023	CODEWARS-1	CSI Coordinator & CSI Students
4	5-9-2023	QUIZART -2	CSI Coordinator & CSI Students
5	29-8-2022	HACK A CODE	CSI Coordinator & CSI Students

4.6.2 Publication of technical magazines, newsletters, etc. (5)   Institute Marks : 5.00

S. No.	Title of Magazine/Newsletter	Frequency of Publication	Publisher	Chief Editor
1.	Morpheux 23	Annual	Jeppiaar Engineering College	Dr. K Jayasakthi Velmurugan
2	Wizarg 2.0	Annual	Jeppiaar Engineering College	Dr. S Venkatesh
3	Munnudi Kudal 2022	Annual	Jeppiaar Engineering College	Dr J Arokia Renjit

4.6.3 Participationininter-institute events by students of the program of study (10)   Institute Marks : 10.00

Academic Year	No of Events participated Inter -Institute
2022 - 2023	61
2021 - 2022	9
Total	70

Academic Year	No of Publications in International Conference and UGC Journals
2022 - 2023	83
2021 - 2022	91
Total	174

Academic year CAY 2022-2023

S. No	Name of the Student	Title of the Paper/Event name	Seminar/ Workshop/ Symposium/ Conference in which Presented	Venue	Organized By	Date	Position Secured
1.	Sakthi Mahendran K	Hack-A-Tank	Hackathon	SRM Valliammai Engineering College	SRM Valliammai Engineering College	9/09/2023	1st Prize & 10,000 Cash award
2.	Aashik Ali	Insta Minds 2022	Yi Entrepreneurship Event	Jeppiaar University	Dunzo Private Ltd	2022	Winner
3.	Bharat	Insta Minds 2022	Yi Entrepreneurship Event	Jeppiaar University	Dunzo Private Ltd	2022	Winner
4.	Sivabalan	Insta Minds 2022	Yi Entrepreneurship Event	Jeppiaar University	Dunzo Private Ltd	2022	Winner
5.	Prince Raja	Insta Minds 2022	Yi Entrepreneurship Event	Jeppiaar University	Dunzo Private Ltd	2022	Winner
6.	Syed Basha	Adzab	Mechgust'23	Chennai Institute of Technology	Chennai Institute of Technology	2023	Winner
7.	Melwin Jude	Adzab	Mechgust'23	Chennai Institute of Technology	Chennai Institute of Technology	2023	Winner
8.	Melwin Jude	Tune Surfing	Technical Symposium	Chennai Institute of Technology	Chennai Institute of Technology	2023	Second Prize
9.	Madhesh P	STEP 2022-Skillup To Empower Professional Career	Seminar	Sri Sairam Engineering College	IEEE Madras Young Professionals	19th November 2022	Participation
10.	Madhesh P	Hack-O-Holics 3.0	Hackathon	IEEE Student Branch	Jeppiaar Engineering College	13th October 2022	Participation

11.	Navinraj K	Mirage	Symposium	National Institute of Fashion Technology	National Institute of Fashion Technology	24/02/2023	Participation
12.	Sachin Anandharaj	IBC- Blockchain Congress	Symposium	Anna University (NM)	Anna University (NM)	24/03/2023	Participation
13.	Pavithra	Solo adaptune dance	Symposium	Vellore Institute of Technology	Vellore Institute of Technology	30/03/2023	Participation
14.	Madhesh P	Hands on Workshop – Medley Mastery	Work shop	We Ca(o)n Grap It	IEEE association Jeppiaar Engineering college	13-02-2023 to 17-02-2023	Participation
15.	Anovah Sherin	IBC Media's ALT HACK	ALT Hack Chennai	Anna University	IBC Media	24th March to 31st March 2023	Participation
16.	Carmel Riniha T	Smart Digital Hachkathon'22	Hackathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	29th and 30th September 2022	Participation
17.	Dio Pastina Heartlin B	Smart Digital Hachkathon'22	Hackathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	29th and 30th September 2022	Participation
18.	Gokulapriya	Smart Digital Hachkathon'22	Hackathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	29th and 30th September 2022	Participation
19.	Keerthana	Young Indians Future 3.0	Nation Building Activity	Sri Kanyaka Parameswari Arts and Science College	Young Indians	2023	Participation
20.	Keshika	Young Indians Future 3.0	Nation Building Activity	Sri Venkateswara College of Engineering	Young Indians	7/08/2023	Participation
21.	Anovah Sherin H	Young Indians Future 3.0	Nation Building Activity	Sri Kanyaka Parameswari Arts and Science College	Young Indians	2023	Participation
22.	Anovah Sherin H	Insta Minds 2022	Seminar	Jeppiaar University	Yi Entrepreneurship	14/10/2022	Participation
23.	Anovah Sherin H	IBC Continuous Education Program	Technical Training session	IBC Media	IBC Media	28-02-2023	Participation
24.	Jyothi V	Kurukshetra23	Symposium	College of Engineering, Guindy	College of Engineering, Guindy	18/04/2023	Participation
25.	Swarna Latha V Smart	Digital Hackathon	Hacktathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	28/09/2022	Participation
26.	Sachin Anandharaj	Digital Hackathon	Hacktathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	28/09/2022	Participation
27.	Paaul Antony	Digital Hackathon	Hacktathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	28/09/2022	Participation
28.	Yogeshwaran	Digital Hackathon	Hacktathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	28/09/2022	Participation
29.	Nitya Poojaa	Digital Hackathon	Hacktathon	Sathyabama Institute of Science and Technology	Sathyabama Institute of Science and Technology	28/09/2022	Participation

30.	Swarna Latha V	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
31.	Sanjaikumaran P	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
32.	Suganya.A	Kurukshetra23	Symposium	College of engineering, Guindy	College of engineering, Guindy	18/04/2023	Participation
33.	Suganya.A	Kurukshetra23	Symposium	College of engineering, Guindy	College of engineering, Guindy	18/04/2023	Participation
34.	Siva Ranjini. S	Kurukshetra23	Symposium	College of engineering, Guindy	College of engineering, Guindy	18/04/2023	Participation
35.	Swetha Sri.A	Kurukshetra23	Symposium	College of engineering, Guindy	College of engineering, Guindy	18/04/2023	Participation
36.	Iny Glanet	Machine learning	Work shop	Chennai Institute of Technology	Chennai Institute of Technology	23-03-2023	Participation
37.	Madhesh P	CATC-12- CUM - BOAT PULLING CAMP	CAMP	NCC	Navel Tech Unit	23-08-2022 to 30-08-2022	Participation
38.	Vinshi.J	Young Indians Future 3.0	Nation Building Activity	Sri Kanyaka Parameswari Arts and Science College	Young Indians	2023	Participation
39.	Madhesh P	Adaptune	Cultural Fest Rapture	MNM Jain Engineering College	MNM Jain Engineering College	29/04/2023	Participation
40.	Renuga S	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
41.	Shanawas	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
42.	Vigneshwaran	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
43.	Rajarajeshwaran N	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
44.	Vijayalakshmi	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
45.	Umar Farooq A	App Venture	Symposium	Sairam Engineering College	Sairam Engineering College	20/04/2023	Participation
46.	Madhesh P	Solo Dance	Cultural Fest Rapture	MNM Jain Engineering College	MNM Jain Engineering College	29/04/2023	Participation
47.	Harshini.J	Hack-O-Holics 4.0	Event	St.Joseph 's Institute of Technology	St.Joseph 's Institute of Technology	11/09/2023 To 12/09/2023	Participation
48.	Bavesh S	IBC Media's ALT HACK	ALT Hack Chennai	Anna University	IBC Media	24th March to 31st March 2023	Participation

49.	Bavesh S	Young Indians Future 3.0	Nation Building Activity	Sri Kanyaka Parameswari Arts and Science College	Young Indians	2023	Participation
50.	Aashik Ali	Smart India Hackathon'22	Hackathon	All India Level	MHRD	25/08/2023 to 26/08/2023	Participation & Finalist
51.	Bharat	Smart India Hackathon'22	Hackathon	All India Level	MHRD	25/08/2023 to 26/08/2023	Participation & Finalist
52.	Sivabalan	Smart India Hackathon'22	Hackathon	All India Level	MHRD	25/08/2023 to 26/08/2023	Participation & Finalist
53.	Prince Raja	Smart India Hackathon'22	Hackathon	India Level	MHRD	25/08/2023 to 26/08/2023	Participation & Finalist

Sports Activities

S.No	Name of the Student	Event	Venue	Year	Position
1	S.Somesh Vishnu	Badminton	Youth Sports Promotion Association Mathura	5th June 2022 to 8th June 2022	Gold
2	S.Somesh Vishnu	Badminton	SBA Badminton Academy, Kanchipuram	2022	Winner
3	S.Somesh Vishnu	Badminton	Yonex Sunrise All India Rankin Badminton Tournament, Vishakapatnam	Oct 31st to Noc 6th 2022	Participation
4	S.Somesh Vishnu	Badminton	Senior Rankin Badminton Tournament, Bahadurgarh	April 12th to April 18th 2023	Participation
5	S.Somesh Vishnu	Badminton	Memorial All India Senior Ranking Badminton Tournament, Pune	Oct 17th to oct 23th 2022	Participation
6	S.Somesh Vishnu	Badminton	Tamilnadu State Senior Rankin Badminton Tournament, Namakkal	Jul 30th to Angust 4 2023	Participation
7	S.Somesh Vishnu	Badminton	Yonex Sunrise V.V.Natu Memorial All India Rankin Badminton Tournament, Vishakapatnam	Oct 17th 2022 to Oct 23th 2022	Participation
8	S.Somesh Vishnu	Badminton	Tamilnadu State Senior Badminton Championship 2021, Chennai	Aug 6th to Aug 11th 2022	Participation

Academic year CAY m1 2021-2022

S. No	Name of the Student	Title of the Paper / Event name	Seminar/ Workshop/ Symposium/ Conference in which Presented	Venue	Organized By	Date	Position Secured

1.	Muthu Geethalakshmi S	Handwritten Letter Recognition using Artificial Intelligence	Journal Publication	IJRASET	International Journal for Research in Applied Science & Engineering Technology	Volume 10 Issue V May 2022	Published
2.	Nila I	Handwritten Letter Recognition using Artificial Intelligence	Journal Publication	IJRASET	International Journal for Research in Applied Science & Engineering Technology	Volume 10 Issue V May 2022	Published
3.	Santhoshi V	Handwritten Letter Recognition using Artificial Intelligence	Journal Publication	IJRASET	International Journal for Research in Applied Science & Engineering Technology	Volume 10 Issue V May 2022	Published
4.	Madhesh P	Cyber Security	Workshop	KaaShiv InfoTech	KaaShiv InfoTech	12-12-2021	Participation
5.	Madhesh P	Cyber Security	Workshop	Chennai Institute of Information Technology	Takshashila	20-05-2022	Participation
6.	Madhesh P	Cyber Security	Workshop	Madras Institute of Technology	Ernst and Young	22-05-2022	Participation
7.	Madhesh P	CATC- CUM -BOAT PULLING CAMP	CAMP	SRM Institute of Science and Technology	Navel Tech Unit	27-11-2021 to 06-12-2021	Participation
8.	Madhesh P	Naval Technical Attachment Camp	CAMP	INS Valsura, Jamnagar	Navel Tech Unit	31-05-2022 to 09-06-2022	Participation
9.	Bavesh S	Yuva Club	CAMP	Jeppiaar Engineering College	Yuva Club	2021-2022	Participation
10.	Anisha	Yuva Club	CAMP	Jeppiaar Engineering College	Yuva Club	2021-2022	Participation

Sports Activities

S.No	Name of the Student	Event	Venue	Year	Position
1	S.Somesh Vishnu	Badminton	Tamilnadu State Senior Badminton Championship 2021, Chennai	Aug 10th to Aug 15th 2021	Participation
2	S.Somesh Vishnu	Badminton	BAI Series Senior Badminton Tournament 2021,Chennai	Dec 16th to Dec 22nd 2021	Participation

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)   Total Marks 192.00

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Associa Type
Dr. J. AROKIA RENJIT	AHZPA6021D	ME/M. Tech and PhD	03/09/2012	Cloud Computing, Image Processing	8	12	9	Professor	05/09/2012	17/05/2004	Regular
Dr.P.MOHAN KUMAR	ANGPM5547H	ME/M. Tech and PhD	30/04/2013	Image Processing	5	4	3	Professor	06/07/2015	04/04/2005	Regular
Dr.P.JESU JEYARIN	AHBPJ4029Q	ME/M. Tech and PhD	30/04/2013	Wireless Networks	8	7	1	Professor	19/06/2018	01/06/2010	Regular
Dr S.MADHURIKKHA	BTIPS4368B	ME/M. Tech and PhD	08/02/2020	Mobile Adhoc Network	4			Associate Professor	22/09/2021	03/09/2007	Regular
Dr. K.JAYA SAKTHI VEL MURUGAN	BALPK9880L	ME/M. Tech and PhD	04/01/2021	Image Processing, Machine Learning	2			Associate Professor	13/07/2009	02/01/2009	Regular
Dr.D.BEULAH DAVID	AKBPB6798H	ME/M. Tech and PhD	27/09/2019	Image Processing	3			Associate Professor	15/09/2021	15/06/2009	Regular
Dr. S. VENKATESH	DEPPS9935N	ME/M. Tech and PhD	18/09/2020	Image Processing	4			Associate Professor	22/09/2021	03/08/2009	Regular
Dr J.JOSPIN JEYA	AGYPJ2837N	ME/M. Tech and PhD	11/08/2018	Cloud Computing	3			Professor	12/08/2020	01/07/2013	Regular
Dr. LINDA JOSEPH	AIHPL0270C	ME/M. Tech and PhD	09/11/2020	Cloud Security	2			Associate Professor	24/08/2022	03/07/2019	Regular
Dr. J.ANITHA GNANA SELVI	ALPPA5411P	ME/M. Tech and PhD	02/08/2022	Machine Learning	4			Assistant Professor		01/06/2007	Regular
A.SUBASH CHANDAR	ALEPA5071G	M.E/M.Tech	02/07/2007	Computer Science and Engineering	2			Assistant Professor		29/09/2007	Regular
Dr. R.DHANALAKSHMI	BNPPD0088L	ME/M. Tech and PhD	23/08/2022	Data Mining	3			Assistant Professor		03/08/2009	Regular
Mr. T. SARAVANAN	AKEPT6050H	M.E/M.Tech	01/07/2008	Information Technology	1			Assistant Professor		02/01/2009	Regular
Ms. A.Vidhya	ALNPV7738G	M.E/M.Tech	11/07/2012	Computer Science and Engineering	1			Assistant Professor		23/07/2012	Regular
Mr. M.Sasi Kumar	FWCPS3106J	M.E/M.Tech	11/07/2012	Computer Science & Engineering	1			Assistant Professor		16/07/2014	Regular
Ms. M. Divya	EFGPD9278Q	M.E/M.Tech	25/06/2016	Computer Science and Engineering				Assistant Professor		01/07/2016	Regular
Mr. M.Goudhaman	AIPPM1053Q	M.E/M.Tech	10/08/2010	Computer Science and Engineering	2			Assistant Professor		02/01/2017	Regular
Mrs. T. Anuja	BCIPT6674E	M.E/M.Tech	28/05/2016	Computer Science and Engineering	2			Assistant Professor		03/07/2019	Regular
Mrs. D. Jeevitha	APYPJ6856Q	M.E/M.Tech	01/07/2013	Computer Science & Engineering	2			Assistant Professor		03/07/2019	Regular
Mrs. R. Tamilroja	AQBPT3050G	M.E/M.Tech	11/07/2012	Computer Science and Engineering				Assistant Professor		03/07/2019	Regular
Mr. S. Insol Rajasekar	ACAPI0301E	M.E/M.Tech	19/07/2013	Information Technology				Assistant Professor		03/07/2019	Regular

Mrs. M. ARSHIYA MOBEEN	BJMPA8628Q	M.E/M.Tech	01/07/2013	Computer Science and Engineering				Assistant Professor		03/07/2019	Regular
Ms. K.PRIYADHARSHINI	BOWPP7557Q	M.E/M.Tech	01/07/2013	Computer Science and Engineering				Assistant Professor		03/07/2019	Regular
J.SHAKILA	DFGPS5399G	M.E/M.Tech	21/04/2010	Computer Science and Engineering				Assistant Professor		03/07/2018	Regular
Mrs. T. MONISHA	BPVPM1251C	M.E/M.Tech	06/07/2015	Computer Science and Engineering				Assistant Professor		03/07/2019	Regular
Mr. S. ARAVINDH	AYNPA0615L	M.E/M.Tech	30/05/2011	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular
Mr. V. NIRMALKUMAR	BZIPN5769D	M.E/M.Tech	19/06/2018	Computer Science and Engineering	1			Assistant Professor		22/01/2020	Regular
Mrs. M.PARASAKTHI	CUXPP9975L	M.E/M.Tech	18/06/2018	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular
Mr. S.BARGUNAN	EFQPB0214E	M.E/M.Tech	14/09/2018	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular
Ms . R.ANBUVIZHI	BEUPA8885A	M.E/M.Tech	20/06/2016	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular
Ms.ROJA	CIVPR0332P	M.E/M.Tech	19/06/2018	Computer Science and Engineering				Assistant Professor		03/07/2019	Regular
Ms. KAYALVIZHI S	EKMPK3671K	M.E/M.Tech	25/06/2019	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular
Mr . THIYAGARAJAN C	AVYTT0743Q	M.E/M.Tech	06/07/2015	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular
Mr. J.RAHUL	CHWPJ5743A	M.E/M.Tech	16/06/2021	Computer Science and Engineering				Assistant Professor		23/06/2021	Regular
Ms.S.Sundari	DSHPS7325N	M.E/M.Tech	18/06/2014	Embedded Systems				Assistant Professor		22/01/2020	Regular
Mrs.B.Nagasri	BENPN8401E	M.E/M.Tech	18/06/2019	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular
Mrs.M.Girija	ARSPG5004D	M.E/M.Tech	16/07/2014	Computer Science and Engineering				Assistant Professor		12/06/2019	Regular
Mrs.R.Nishanthi	APFPN8706A	M.E/M.Tech	25/06/2014	Computer Science and Engineering				Assistant Professor		12/06/2019	Regular
Mrs.E.Elakkiya	ABFPE3065P	M.E/M.Tech	18/08/2017	Computer Science and Engineering				Assistant Professor		12/06/2019	Regular
Ms.S.Vincy Infana	AVPPV3494D	M.E/M.Tech	25/09/2020	Computer Science and Engineering				Assistant Professor		06/01/2021	Regular
MRS. K.PRIYA KALAIVANI	EGWPK5316R	M.E/M.Tech	24/05/2019	Software Engineering				Assistant Professor		22/01/2020	Regular
MRS. M.MARIA JERALDIN SINDHIA	EDPPM1238G	M.E/M.Tech	28/05/2014	Computer Science and Engineering				Assistant Professor		22/01/2020	Regular

MRS.S.SIVA CHITRA LAKSHMI	EQKPS1223K	M.E/M.Tech	24/05/2012	Information Technology				Assistant Professor		22/01/2020	Regular
Dr. M. Mehfooza	BIZPM3717L	ME/M. Tech and PhD	24/06/2019	Computer Science and Engineering	1			Professor	22/01/2020	22/01/2020	Regular

5.1 Student-Faculty Ratio (20)   Total Marks 20.00

Institute Marks : 20.00

UG

No. of UG Programs in the Department 1

Computer Science and Engineering						
Year of Study	**CAY**		**CAYm1**		**CAYm2**	
	(2022-23)		**(2021-22)**		**(2020-21)**	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	120	8	120	2	120	23
3rd Year	120	0	120	0	120	0
4th Year	120	0	120	0	120	0
Sub-Total	**360**	**8**	**360**	**2**	**360**	**23**
Total	**368**		**362**		**383**	
Grand Total	368		362		383	

PG

No. of PG Programs in the Department 0

Grand Total			

SFR

No. of UG Programs in the Department 1
No. of PG Programs in the Department 0

Description	CAY(2022-23)		CAYm1 (2021-22)		CAYm2 (2020-21)	
Total No. of Students in the Department(S)	368	Sum total of all (UG+PG) students	362	Sum total of all (UG+PG) students	383	Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	44	F1	44	F2	42	F3
Student Faculty Ratio(SFR)	8.36	SFR1=S1/F1	8.23	SFR2=S2/F2	9.12	SFR3=S3/F3
Average SFR	8.57	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(2022-23)	44	0
CAYm1(2021-22)	44	0
CAYm2(2020-21)	42	0

Average SFR for three assessment years :   8.57

Assessment SFR :   20

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(2022-23)	2.00	5.00	4.00	5.00	12.00	34.00
CAYm1(2021-22)	2.00	5.00	4.00	4.00	12.00	35.00
CAYm2(2020-21)	2.00	5.00	4.00	0.00	12.00	37.00
Average Numbers	2.00	5.00	4.00	3.00	12.00	35.33

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

5.3 Faculty Qualification (25)   Total Marks 25.00

Institute Marks : 25.00

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2022-23(CAY)	12	32	18.00	34.44
2021-22(CAYm1)	10	34	18.00	32.78
2020-21(CAYm2)	9	33	19.00	29.21

Average Assessment :   32.14

5.4 Faculty Retention (25)   Total Marks 25.00

Institute Marks : 25.00

Description	2021-22	2022-23
No of Faculty Retained	42	42
Total No of Faculty	42	42
% of Faculty Retained	100	100

Average :   100.00

Assessment Marks :   25.00

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

Institute Marks : 20.00

Center for Innovative Teaching

Active and Collaborative learning

Active Learning: Active learning is an instructional approach that actively engages students in the learning process and encourages them to take responsibility for their own education. Active learning involves activities and techniques that require students to participate, analyze, discuss, and reflect on the course material.

Collaborative Learning: Working in teams on projects fosters collaboration. Students teach specific topics to their peers, reinforcing their understanding while benefiting others.

How to create and manage groups: Students engage in small group discussions to explore concepts, share ideas, and debate different viewpoints. Students work on real-world problems, applying course concepts to find solutions. Analyzing real or hypothetical cases encourages critical thinking and decision-making skills

Fig 5.5.1 Students propagating their ideas

How to evaluate groups

To establish evaluation criteria create a rubric model and share with the students.

Assess the performance of the group

Give regular feedback so group members can gauge their progress both as a group and individually.

Decide what criteria to base final evaluations upon

Discussions

Discussions give students the chance to express their knowledge and ideas, hear different viewpoints, develop their positions on a subject, and learn to evaluate both their own and other peoples positions.

Assessment and Evaluation

Asking good Questions

In addition to assessing students knowledge, questions can show them where they are at in their learning and knowledge.

Determine what you want students to know. Revisit the learning outcomes you may have articulated at the beginning of the course.

Use Blooms Taxonomy (https://teaching.cornell.edu/resource/blooms-taxonomy)to review verbs that could inform test questions, such as *apply, compare, describe*, etc.
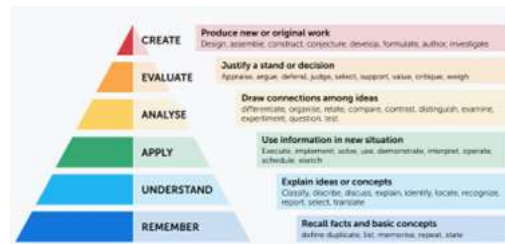
Fig 5.5.2 Bloom's Taxonomy

Examine the different types of questions: fill-in the blank, short answer, multiple choice, matching, essay question, etc. Use multiple question types, as different students may be better or worse at answering various types of questions.

Come up with a few possible questions after each lecture. This may increase the quality of test questions because they are more likely to be more representative of your instruction.

Consider having students create and submit test questions after a class. Review them for possible use.

Assessing prior knowledge

Assessing students' prior knowledge allows an instructor to focus and adapt their teaching plan. For students, it helps them to construct connections between old and new knowledge.

Classroom observation Program

Class observations create an entry point into deep conversations about teaching practices. By providing another set of eyes in the classroom, CTI observers can partner with faculty members to reflect on what is going well and what might further support student success. Observations can be done on their own or to complement other CTI programming such as mid-semester feedback.

Documenting teaching with a teaching portfolio

Documenting teaching is the process of collecting information about teaching (such as course evaluations, teaching reflection notes, mid-semester feedback (https://teaching.cornell.edu/programs/faculty-instructors/mid-semester-feedback-program), and class observation materials (https://teaching.cornell.edu/fall-2020-course-preparation/assessment-evaluation/classroom-observation-program)) and then reflecting upon and reporting on this information for the purpose of instructional development. Documenting teaching can be an effective part of formal processes. Peer review of teaching can be incorporated for promotion or tenure review, and new faculty applicants can be required to submit a teaching portfolio. A teaching portfolio usually includes a teaching statement and a selective collection of teaching materials that document evidence of teaching effectiveness.

Measuring student learning

Methods of measuring student learning are often characterized as summative or formative assessments:

Summative assessments: Tests, quizzes, and other graded course activities that are used to measure student performance. They are cumulative and often reveal what students have learned at the end of a unit or the end of a course. Within a course, summative assessment includes the system for calculating individual student grades.

Formative assessments: Students receive input and guiding feedback on their relative performance to help them improve.

Engaging Students

Problem based learning

Problem-Based Learning (PBL) is a student-centered pedagogical approach that revolves around the exploration and resolution of complex, real-world problems. In PBL, students work collaboratively in small groups to understand the problem, identify what they need to learn to solve it, and then research and apply knowledge from various disciplines to develop a solution.

- Working in teams.
- Managing projects and holding leadership roles.
- Oral and written communication.
- Self-awareness and evaluation of group processes.
- Working independently.
- Critical thinking and analysis.
- Explaining concepts.
- Self-directed learning.
- Applying course content to real-world examples.
- Researching and information literacy.
- Problem solving across disciplines.

Instructor presence and interaction

Fig 5.5.3 Instructor Presence and Interaction

Especially in online and blended learning environments, instructor presence and interaction to facilitate effective learning experiences. When students are comfortable with the instructor, they are more comfortable learning, participating, and sharing in the learning environment.
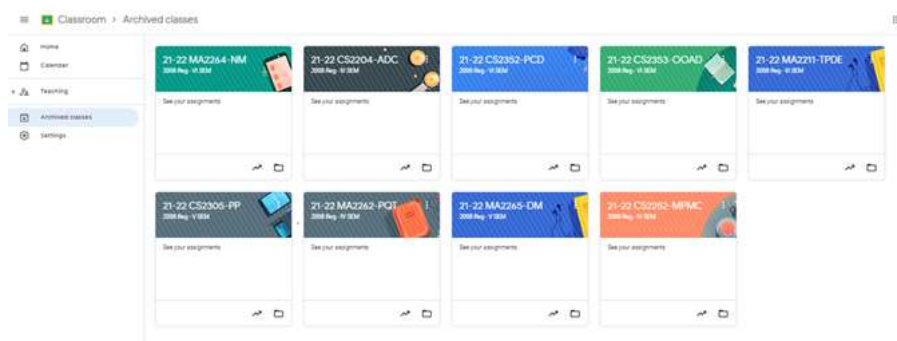
Fig 5.5.4 Online Class - Google Classroom

Increasing student motivation and Participation

Instructors have control over the learning environment, the course materials, teaching strategies, learning activities, and assessments. The way these are designed and aligned influence student motivation, which in turn impacts student learning.

Using effective questions

- Effective questions are meaningful and understandable to students.
- Effective questions challenge students, but are not too difficult.
- Closed-ended questions, such as those requiring a yes/no response, or multiple choice can quickly check comprehension.
- Open-ended questions probe and elicit expanded thinking and processing of information. By discussing the questions in groups, students have the opportunity to learn from a variety of perspectives.

Innovative Assignments

Writing assignments can range from one-minute reflection pieces to exam essays to more involved research papers. The more writing practice and feedback students receive, the more likely they are to develop stronger writing skills.

Doing Case Study – Real time Problems

Case studies are incredibly valuable for students across various disciplines as they offer an in-depth analysis of real-world situations, allowing students to apply their theoretical knowledge to practical scenarios.

Tutorial and Remedial Session

Tutorial sessions are designed to provide additional guidance, support, and clarification to students on specific topics or concepts they find challenging. These sessions are often smaller in size than regular classes, allowing for more personalized attention. Remedial sessions are designed to provide additional support to students who are falling behind academically. Both tutorial and remedial sessions are to support students academic growth.

Industrial Visit

S.NO	Date of Industrial Visit	Year	Company Name and Place
1	17.10.2022	II YEAR- 117	KANCHI MINING PROJECTS, UTHIRAMERUR ROAD, R.N.KANDIGAI ELANAGAR, TAMIL NADU – 603 402
2	17.11.2022	IV YEAR -116	MODERN BAKERS MADRAS Pvt., Ltd, (https://www.coursesuggest.com/professional-courses/sansbound-networking-school/) NO. 2, KIRUPA SANKARI STREET, MADHAVARAM CHENNAI, 600033
3	30.11.2022	II YEAR -125	College of Food & Diary Technology, Annai Velankanni Nagar, Madhavaram Milk Colony, Chennai
4	18.10.2022	III YEAR- A -59	SANSBOUND NETWORKING SCHOOL, West Mambalam, Chennai
5	17.10.2022	III YEAR - B-57	SANSBOUND NETWORKING SCHOOL, West Mambalam, Chennai
6	22.03.2023	II YEAR -116	Retech Lasers, P.No:28, Sundar Nagar Extn, Varadharapuram, Chennai – 48
7	10.05.2023	*III YEAR -116*	CANRONE Software LLP, Kochi, Kerala

Table 5.5.1 – IV Details

Fig 5.5.5 Industrial Visit – Students Interaction

Fig 5.5.6 Industrial Visit – Trainers Presentation

Fig 5.5.7 Entrepreneurship Industrial Visit - College of Food & Diary Technology Chennai

Online Courses

Faculty and students use platforms like Coursera, NPTEL, Udemy, Great learning etc. to take online courses. It allows them to develop knowledge of and a better understanding of current trends, as well as various fields. They have a strong commitment to lifelong learning. Students from different countries can communicate and exchange ideas through online discussion boards.

S.No	Program Specific Criteria	Name of the Faculty	Competency Attained Through
1.	Programming in C	Dr. J. AROKIA RENJIT	NPTEL Online Certification on "Introduction to programming in C".
2	Data Structures/ Data Science	Dr. JOSEPINE JEYA	NPTEL Online Certification on "Introduction to programming in C". NPTEL Online Certification on "Programming, data structures, and algorithms using python". NPTEL Online Certification on Design and Analysis of Algorithms. NPTEL Online Certification on Data Science for Engineers. Attended ATAL FDP on Cloud Technology. Attended ATAL FDP on Cyber Security and Applications. Attended ATAL FDP on Geo Informatics and Web Technologies. Attended ATAL FDP on trends in Software testing. Published a book – Problem solving in python programming
3	Programming in c	Dr. K.JAYA SAKTHI VEL MURUGAN	NPTEL Online Certification on "Introduction to programming in C".
4	Big Data / Software testing	Dr.A. VIDHYA	NPTEL Online Certification on "Software testing". NPTEL Online Certification on Big data Computing. Attended ATAL FDP on Advanced cloud computing technologies and its benefits for engineering college faculties. Attended ATAL FDP on Global warming and impacts of power electronics towards green technology. Published a book – Problem solving in python programming.

5	Python Programming	Dr. S.MADHURIKKHA	Published a book – Problem solving in python programming
6	DEEP LEARNING	Mr. A.SUBASH CHANDAR	NPTEL Online Certification on "DEEP LEARNING". NPTEL Online Certification on "Introduction to programming in C"
7	Python Programming	Dr. S.VENKATESH	Published a book – Problem solving in python programming

Table 5.5.2 – Online Course Details Staff

Fig 5.5.8 NPTEL Certificate Staff

S. No	Student Name	Online Course	Platform
1	Vani Priya P R	SQL Programming Basics	Udemy
2	Vani Priya P R	Python for Absolute Beginners	Udemy
3	Vani Priya P R	Crash Course – Full Stack	Udemy
4	Vani Priya P R	CSS Tutorail, Properties	Great Learning
5	Priyadharshini P	Artificial Intelligence	Udemy
6	Rajalakshmi M	Front End Developer HTML, CSS	Great Learning
7	Karthik Raj	PHP My Sql	Udemy
8	Karthik Raj	Python for beginners	Udemy
9	Jyothi V	Introduction to Business Analysis using Spread Sheets	Coursera
10	Jyothi V	Create our first program from UST	Coursera
11	Jyothi V	Regular Expression in Python	Coursera

12	Jyothi V	Network Security	Great Learnng
13	Aravinth N D	Data Visulisation	Forage
14	Aravinth N D	UI/UX for Beginners	Great Learning
15	Aravinth N D	Video Editing Basics	Great Learning
16	Aravinth N D	Python	EduPrep
17	Aravinth N D	Intro to Graphic Design with Photoshop	Great Learning
18	Aravinth N D	Web Development	MSME
19	Keerthana A	UI/UX for Beginners	Great Learning
20	Srila S	HTML Attributes and Tags	Great Learning
21	Srila S	Front End Developer HTML,	Great Learning
22	Sivaranjani	HTML JavaScript BootStrap	Udemy
23	Vinshi J	Front End Developer HTML,	Great Learning
24	Vinshi J	Python for machine Learning	Great Learning
25	Dio Pastina Heartlin B	Programming in Java	NPTEL
26	Clarrieous Athiraj B	Programming in Java	NPTEL
27	Sangavi B	SQL Programming Basics	Udemy
28	Sangavi B	Python for Absolute Beginners	Udemy
29	Venkateswaran T	Python for Beginners	Great Learning
30	Venkateswaran T	Front End Developer HTML,	Great Learning
31	Venkateswaran T	Android Appliation Development	Great Learning
32	Venkateswaran T	Java Programming	Great Learning
33	Bynaboina Navya	Programming in Java	NPTEL
34	Bynaboina Navya	Problem Solving through programming in C	NPTEL
35	Bynaboina Navya	Python Fundamental for beginners	Great Learning
36	Akshaya N	Java Basic Programa	Great Learnng
37	Akshaya N	Python Fundamental for beginners	Great Learning
38	Carmel Riniha	Design App	Great Learning
39	Carmel Riniha	Data Visulaization using python	Great Learning

Table 5.5.3 – Online Course Details Students

Fig 5.5.9 NPTEL Certificate Student

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		
	2021-22 (CAYm1)	2020-21 (CAYm2)	2019-20 (CAYm3)
Dr. J. AROKIA RENJIT	1.00	2.00	1.00
Dr.P.MOHAN KUMAR	2.00	3.00	4.00
Dr.P.JESU JEYARIN	1.00	2.00	4.00
Dr S.MADHURIKKHA	3.00	5.00	4.00
Dr. K.JAYA SAKTHI VEL MURUGAN	5.00	4.00	5.00
Dr.D.BEULAH DAVID	5.00	5.00	5.00
Dr. S. VENKATESH	4.00	5.00	4.00
Dr J.JOSPIN JEYA	5.00	5.00	4.00
Dr. LINDA JOSEPH	2.00	0.00	0.00
Dr. J.ANITHA GNANA SELVI	5.00	5.00	5.00
A.SUBASH CHANDAR	4.00	5.00	4.00
Dr. R.DHANALAKSHMI	4.00	3.00	5.00
Mr. T. SARAVANAN	5.00	3.00	5.00
Ms. A.Vidhya	5.00	5.00	5.00
Mr. M.Sasi Kumar	4.00	5.00	4.00
Ms. M. Divya	4.00	4.00	4.00
Mr. M.Goudhaman	5.00	5.00	5.00
Mrs. T. Anuja	5.00	4.00	5.00
Mrs. D. Jeevitha	5.00	4.00	3.00
Mrs. R. Tamilroja	4.00	4.00	3.00
Mr. S. Insol Rajasekar	5.00	5.00	4.00
Mrs. M. ARSHIYA MOBEEN	4.00	4.00	5.00
Ms. K.PRIYADHARSHINI	4.00	4.00	5.00
J.SHAKILA	4.00	4.00	5.00
T.MONISHA	4.00	5.00	4.00
Mr. S. ARAVINDH	5.00	4.00	4.00
Mr. V. NIRMALKUMAR	4.00	3.00	4.00
Mrs. M.PARASAKTHI	4.00	3.00	5.00
Mr. S.BARGUNAN	3.00	4.00	3.00
Ms . R.ANBUVIZHI	4.00	3.00	5.00
Ms.ROJA	5.00	5.00	4.00

Ms. KAYALVIZHI S	4.00	5.00	4.00
Mr . THIYAGARAJAN C	5.00	4.00	5.00
Mr. J.RAHUL	2.00	0.00	0.00
Ms.S.Sundari	4.00	3.00	4.00
Mrs.B.Nagasri	4.00	5.00	4.00
Mrs.M.Girija	4.00	5.00	4.00
Mrs.R.Nishanthi	4.00	4.00	4.00
Mrs.E.Elakkiya	2.00	2.00	2.00
Ms.S.Vincy Infana	2.00	0.00	0.00
MRS. K.PRIYA KALAIVANI	5.00	4.00	5.00
MRS. M.MARIA JERALDIN SINDHIA	5.00	5.00	4.00
MRS.S.SIVA CHITRA LAKSHMI	4.00	3.00	3.00
Dr. M. Mehfooza	1.00	1.00	1.00
Sum	171.00	166.00	171.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	18.40	18.10	19.15
Assessment [3*(Sum / 0.5RF)]	55.76	55.03	53.58

Average assessment over 3 years: 54.79

5.7 Research and Development (30)						Total

Ph.D Guided Faculty – Completed 2020-21, 2021-22, 2022-23				
S.No	Faculty Name	Scholar Name	Year of Completion	Faculty	University
1	Dr. J. AROKIA RENJIT	Dr. S. Muruganandam	2022	Information and Communication Engineering	Anna University
2	Dr. J. AROKIA RENJIT	Dr. S. P. Premnath	2022	Information and Communication Engineering	Anna University
3	Dr. J. AROKIA RENJIT	Dr.Bhaskar	2021	Information and Communication Engineering	Anna University
4	Dr. J. AROKIA RENJIT	Dr. I. George Fernandez	2021	Information and Communication Engineering	Anna University
5	Dr. J. AROKIA RENJIT	Dr.L.Selvam	2021	Computer Science and Engineering	Sathyabama University
6	Dr. J. AROKIA RENJIT	Dr. Antony	2021	Information and Communication Engineering	Anna University
7	Dr. J. AROKIA RENJIT	Dr. Michael Mahesh	2021	Information and Communication Engineering	Anna University
8	Dr. J. AROKIA RENJIT	Dr. G. Sumathy	2020	Computer Science and Engineering	Sathyabama University
9	Dr. J. AROKIA RENJIT	Dr. P. Illavarasan	2020	Information and Communication Engineering	Anna University
10	Dr. P. JESUJAYARIN	Dr. Nithisha J	2023	Information and Communication Engineering	Anna University
11	Dr.P.MOHAN KUMAR	Dr. Shoba L K	2023	Information and Communication Engineering	Anna University
12	Dr.P.MOHAN KUMAR	Dr. E Fenil	2023	Information and Communication Engineering	Anna University
13	Dr.P.MOHAN KUMAR	Dr. Gnana Jeslin	2023	Information and Communication Engineering	Anna University

Table 5.7.1.1 PhD Guided Faculty - Completed

Ph.D Guiding Faculty – On Going 2020-21, 2021-22, 2022-23				
S.No	Faculty Name	Scholar Name	Faculty	University
1.	Dr. J. AROKIA RENJIT	Mr. Sudhagar	Information and Communication Engineering	Anna University
2.	Dr. J. AROKIA RENJIT	Ms. Salma Begam	Information and Communication Engineering	Anna University
3.	Dr. J. AROKIA RENJIT	Mr. Kalimuthan	Information and Communication Engineering	Anna University
4.	Dr. P. JESU JAYARIN	Mr. A Subash Chandar	Information and Communication Engineering	Anna University
5.	Dr. P. JESU JAYARIN	Mr. Sasi Kumar	Information and Communication Engineering	Anna University

S. No	Faculty Name	Faculty	Specialization	University
6.	Dr. P. JESU JAYARIN	Mr. Julian Manezes R	Information and Communication Engineering	Anna University
7.	Dr. P. JESU JAYARIN	Mr. Ranjith S	Information and Communication Engineering	Anna University
8.	Dr. P. JESU JAYARIN	Ms. Hemalatha V	Information and Communication Engineering	Anna University
9.	Dr. P. JESU JAYARIN	Ms. Kavitha V	Information and Communication Engineering	Anna University
10.	Dr. P. JESU JAYARIN	Ms. Anitha C	Information and Communication Engineering	Anna University
11.	Dr.P.MOHAN KUMAR	Ms. Vidhya A	Information and Communication Engineering	Anna University

Table 5.7.1.2 Ph.D Guiding Faculty - On Going

Ph.D Completed Faculty During 2020-21, 2021-22, 2022-23				
S. No	Facluty Name	Specializtion	Year of Completion	University
1.	DR. S.MADHURIKKHA	Computer Science and Engineering	2020	Sathyabama University
2.	Dr. S. VENKATESH	Computer Science and Engineering	2020	Sathyabama University
3.	Dr. K.JAYA SAKTHI VEL MURUGAN	Computer Science and Engineering	2021	Sathyabama University
4.	Dr. J.ANITHA GNANA SELVI	Information and Communication Engineering	2022	Anna university
5.	Dr. R.DHANALAKSHMI	Computer Science and Engineering	2022	Sathyabama University

Table 5.7.1.3 – Ph.D Completed

Faculty Research Scholars – 2022-23			
S. No	Faculty Name	Faculty	University
1	Ms A. Vidhya	Information and Communication Engineering	Anna
2	Mr. A. Subash Chander	Information and Communication Engineering	Anna
3	Mr. M. Sasi Kumar	Information and Communication Engineering	Anna

Table 5.7.1.4 – Faculty Research Scholars

Publications

S. No	Academic Year	SCI/SCOPUS	UGC
1	2022-23	12	5
2	2021-22	17	10
3	2020-21	10	5
	Total	39	20
	Grand Total	59	

Table 5.7.1.5 – Publications

S.No	Name	Publication Type	Title / Publications
			Academic Year 2022-23
1	Dr. J. AROKIA RENJIT	International	A novel approach for image restoration using convolution network-based image denoising technique (https://pubs.aip.org/aip/acp/article-abstract/2527/1/040003/2828401) AIP Publishing
2	Dr.P.MOHAN KUMAR	International	Machine learning and IoT-based smart farming for enhancing the crop yield (https://iopscience.iop.org/article/10.1088/1742-6596/2466/1/012028/meta) Journal of Physics: Conference Series IOP Publishing
3	Dr.P.MOHAN KUMAR	International	ShChain_3D-ResNet: Sharding Blockchain with 3D-Residual Network (3D-ResNet) Deep Learning Model for Classifying DDoS Attack in Software Defined Network Symmetry
4	Dr. K.JAYA SAKTHI VEL MURUGAN	International	Permutation feature importance-based fusion techniques for diabetes prediction (https://link.springer.com/article/10.1007/s00500-023-0804 y) Soft Computing Springer Berlin Heidelberg
5	Dr.D.BEULAH DAVID	International	Machine Learning-Based Management of Hybrid Energy Storage Systems in e-Vehicles (https://www.hindawi.com/journals/jnm/2022/8270718/) Journal of Nanomaterials Hindawi
6	Dr.D.BEULAH DAVID	International	IoT Enabled Sustainable Automated Greenhouse Architecture with Machine Learning Module (https://www.hindawi.com/journals/jnm/2022/1314903/) Journal of Nanomaterials Hindawi
7	Dr. S. VENKATESH	International	An Improved coyote optimization algorithm- based clustering for Extending network lifetime in Wireless Sensor network Journal of Intelligent & Fuzzy Systems(IFS
8	Dr. S. VENKATESH	International	Image Enhancement and Implementation OF CLAHE Algorithm and Bilinear Interpolation Journal of Cybernetics and System
9	Dr. J.ANITHA GNANA SELVI	International	Mask detection and alert system for social distancing"International journal of scientific and engineering research
10	Dr J.JOSPIN JEYA	International	Detecting and preventing cyber bullying comments on social using Deep Learning International Journal of Advance Research, Ideas and Innovations in Technology
11	Dr. R.DHANALAKSHMI	International	Analysis of Special Children Education Using Data Mining Approach International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (https://www.worldscientific.com/worldscinet/ijufks) World Scientific (https://www.google.com/search?sxsrf=ALiCzsaYZ7BEBXqQigVv0dB-LLbAG1-EhA:1652093777710&q=World+Scientific&stick=H4sIAAAAAAAAAOPgE-LSz9U3sCwzrCg2UwKzjYqq0ouStGSzk630k_Lzs_ULUosy81MykxNzrApKk3IyizNSixaxCoTnF-WkKAQnZ6bmIWSmZSbvYGXcxc7EwQAAe_TkMIQAAAA&sa=X&ved=2ahUKEwiN2oX2oNL3AhXcRmwGHY0aBBgQmxMoAXoECE0QA

12	Ms. A.VIDHYA	International	Fusion-based advanced encryption algorithm for enhancing the security of Big Data in Cloud Concurrent Engineering SAGE Publications	
13	Ms. T. ANUJA	International	Review on Detection and Classification of Plant Leaf Diseases Using Deep Learning International Journal of Enhanced Research in Management & Computer Application	
14	Ms. D. JEEVITHA	International	Handwritten letter recognition using artificial intelligence International Journal for Research in Applied Science & Engineering Technology	
15	Ms. D. JEEVITHA	International	Highway Wind Turbines Monitoring Using IOT International Journal for Scientific Research in Engineering and Management	

Table 5.7.1.1 – Publications

Academic Year 2021-22				
S.No	**Name**	**Publication Type**	**Title / Publications**	**Index**
1	Dr. J. AROKIA RENJIT	International	Real-time reliable clustering and secure transmission scheme for QoS development in MANET (https://link.springer.com/article/10.1007/s12083-021-01175-6) Peer-to-Peer Networking and Applications Springer US	Q2 Springer
2	Dr. J. AROKIA RENJIT	International	Image restoration model using Jaya-Bat optimization-enabled noise prediction map (https://ietresearch.onlinelibrary.wiley.com/doi/abs/10.1049/ipr2.12162) IET Image Processing	Q2 Journal
3	Dr. J. AROKIA RENJIT	International	On developing dynamic and efficient cryptosystem for safeguarding healthcare data in public clouds (https://link.springer.com/article/10.1007/s12652-020-02033-8) Journal of Ambient Intelligence and Humanized Computing/ Springer Berlin Heidelberg	Q1 Journal
4	Dr. J. AROKIA RENJIT	International	Evolutionary Fuzzy-based gravitational search algorithm for query optimization in crowdsourcing system to minimize cost and latency Computational Intelligence John Wiley & Sons, Inc	Q2 Journal / SCIE
5	Dr. J. AROKIA RENJIT	International	Cerebral palsy rehabilitation-effectiveness of visual stimulation method by analysing the quantitative assessment of oculomotor abnormalities (https://www.inderscienceonline.com/doi/abs/10.1504/IJBET.2021.113328) International Journal of Biomedical Engineering and Technology Inderscience Publishers (IEL)	WoS/Scopus
6	Dr.P.MOHAN KUMAR	International	RANC-CROP Recommendation Attributed to Soil Nutrients and Stock Analysis Using Machine Learning (https://www.tandfonline.com/doi/abs/10.1080/03772063.2022.2060868) IETE Journal of Research Taylor & Francis	SCIE

7	Dr. P JESU JAYARIN	International	An energy-efficient distributed node clustering routing protocol with mobility pattern support for underwater wireless sensor networks (https://link.springer.com/article/10.1007/s11276-022-03061-2) Wireless Networks	Journal Q2
8	Dr. P JESU JAYARIN	International	A Novel Machine Language-Driven Data Aggregation Approach to Predict Data Redundancy in IoT-Connected Wireless Sensor Networks (https://www.hindawi.com/journals/wcmc/2022/7096561/) Wireless Communications and Mobile Computing Hindawi	SCI
9	Dr. P JESU JAYARIN	International	A Secured Storage and Communication System for Cloud Using ECC, Polynomial Congruence and DSA (https://link.springer.com/article/10.1007/s11277-022-09778-9) Wireless Personal Communications Springer US	Journal Q2 SCI
10	Dr. P JESU JAYARIN	International	Design and Implementation of the Reconfigurable Area and Power-Efficient Steganography for Medical Information's in MIMO-OFDM Channel Coding (https://link.springer.com/article/10.1007/s11277-022-09464-w) Wireless Personal Communications Springer US	Journal Q2 SCI
11	Dr. P JESU JAYARIN	International	An energy-aware multilayer clustering-based butterfly optimization routing for underwater wireless sensor networks (https://link.springer.com/article/10.1007/s11277-021-09042-6) Wireless Personal Communications Springer US	Journal Q2 SCI
12	Dr. P JESU JAYARIN	International	A call reservation scheme for channel allocation using predication approach (CAPA) in wireless networks (https://ijnaa.semnan.ac.ir/article_5676.html) International Journal of Nonlinear Analysis and Applications Semnan University	SCI
13	Dr. S.MADHURIKKHA	International	Voice based Email for Blind Using Speech Recognition International journal of All research Education & Scientific Methods	UGC
14	Dr. S.MADHURIKKHA	International	MEDI - AUTOMIZED SYSTEM APPLICATION International journal of Scientific research in Engineering & Management	UGC
15	Dr. S.MADHURIKKHA	International	ENET – AUTOMATION International journal of All research Education & Scientific	UGC

16	Dr. K.JAYA SAKTHI VEL MURUGAN	International	Skin Disease Prediction and Provision of Medical Advice Using Deep Learning (https://iopscience.iop.org/article/10.1088/1742-6596/1724/1/012048/meta) Journal of Physics: Conference Series IOP Publishing	SCOPUS
17	Dr.D.BEULAH DAVID	International	Brain Tumor Segmentation and Classification based on Deep Learning-Based Inception Networks (http://annalsofrscb.ro/index.php/journal/article/view/2026) Annals of the Romanian Society for Cell Biology	SCI
18	Dr. S. VENKATESH	International	Duplication Checking with Encrypted Data Storage in Cloud International Journal of Science and Engineering Development Research	UGC
19	Dr. S. VENKATESH	International	Sentiment- Analysis –Master International Journal of Scientific Research in Engineering and Management	UGC
20	Dr. R.DHANALAKSHMI	International	Improvement assessment method for special kids by observing the social and behavioural activities using data mining techniques International Journal Of Business intelligence and Data Mining Inderscience Enterprises	Scopus
21	Dr. R.DHANALAKSHMI	International	An esteemed maximum utility pattern mining: special children assessment analysis International Journal Of Progress in Artificial intelligence	Q2 Journal/WoS
22	Dr J.JOSPIN JEYA	International	EO2 Emissions Using Machine Learning" Journal of Applied Science and Computations	UGC
23	Dr J.JOSPIN JEYA	International	Anroid Based Health Care System International Journal Of All Research education and Scientific Methods	UGC
24	Dr. J.ANITHA GNANA SELVI	International	Detecting Glaucoma in retinal images using deep learning approach International Journal of creative research thoughts	UGC
25	Ms. T. ANUJA	International	Efficient Speech Scrambling using Ant Mating Optimization Webology	SCOPUS

Table 5.7.1.2 – Publications

S.No	Name	Publication Type	Title / Publications	Index
			Academic Year 2020-21	
1	Dr. J. AROKIA RENJIT	International	A Hybrid Approach on Human Driver Behavior Prediction and Network Performance Evaluation in VANET Solid State Technology	SCOPUS
2	Dr. J. AROKIA RENJIT	International	Semantic analysis-based relevant data retrieval model using feature selection, summarization and CNN (https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=q9lqDaEAAAAJ&citation_for_view=q9lqDaEAAAAJ:RHpTSmoSYBkC) Soft Computing Springer Berlin Heidelberg	SCOPUS SCIE
3	Dr.P.MOHAN KUMAR	International	Survey on DDoS defense mechanisms (https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.5114) Concurrency and Computation: Practice and Experience	SCIE

4	Dr.P.MOHAN KUMAR	International	Machine Learning to Perform Segmentation and 3D Projection of Abnormal Tissues by Endoscopy Images (https://www.ingentaconnect.com/contentone/asp/jctn/2020/00000017/00000005/art00049) Journal of Computational and Theoretical Nanoscience American Scientific Publishers	SCI
5	Dr. P JESU JAYARIN	International	Road Traffic Analysis at Sholinganallur Road Junction (https://www.ingentaconnect.com/contentone/asp/jctn/2020/00000017/00000005/art00047) Journal of Computational and Theoretical Nanoscience	Journal C
6	Dr. P JESU JAYARIN	International	Reconfigurable Design of Low Power Hybrid Crypto Processor using Signcryption for Wireless Networks (https://www.academia.edu/download/63916103/ijatcse22893202020200714-25882-1tfr4d.pdf) International Journal	Journal
7	Dr. S.MADHURIKKHA	International	Creation of Third Vision for Women Safety using Deep Leraning International Journal of Engineering Development and Research	UGC
8	Dr. J.ANITHA GNANA SELVI	International	Android app development on shopping mall" International journal of scientific research in engineering and management	UGC
9	Dr. J.ANITHA GNANA SELVI	International	Detecting disorders in retinal images using machine learning Techniques Journal of Ambient Intelligence and Humanized Computing	SCI
10	Mr. M.GOUDHAMAN	International	Frequency Synchronization Enhancement in Wireless Sensor Network Using Cheetah Chase Algorithm International Journal of Engineering & Technology (UAE)	SCOPUS
11	Mr. M.GOUDHAMAN	International	A Nature-Inspired Metaheuristic Algorithm International Journal of Engineering & Technology (UAE)	SCOPUS
12	Mr. A Subash Chandar	International	Creation of Third Vision for Women Safety using Deep Leraning International Journal of Engineering Development and Research	UGC
13	Mr. A Subash Chandar	International	Android app development on shopping mall" International journal of scientific research in engineering and management	UGC
14	Dr. M. Mehfooza	International	An automated prescriptive domain data preprocessing algorithm to support multilabel-multicriteria classification for Indian coastal dataset, crop dataset, and breast cancer dataset International Journal of Communication Systems	SCOPUS

Table 5.7.1.3 - Publications

5.7.2 Sponsored Research (5)   Institute Marks : 2.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount
Performance Evaluation of Visual Therapy Method for Cerebral Palsy Rehabilitation	2	DST SERB	881000.00
			Total Amount(Z): 881000.00

Cumulative Amount(X + Y + Z) =

5.7.3 Development Activities (10)   Institute Marks : 10.00

5.7.3.1 Product Development

Table 5.7.3.1.1 Patent Details

S.No	Name of the Faculty	Title	IP Reg Number	Date of Patent Applied	Application Level
1	Dr. J. Arokia Renjith	Cloud based Emergency Patient monitoring System	20224101061A	4.3.22	Published
		Autism Disorder Prediction Using Deep Learning Approach	2021103835	11.08.2021	Registered
2	Dr. K. Jayasakthi Velmurugan	Artificial Intelligence Based Smart Raod Cleaning ROBOT	202241057430	07.10.22	Published
		Artificial Intelligence Based approach to Study the impact of various geothermal resources in safegaurding the non-renewable sources of energy	202241039477A	22.07.22	Applied
		QRM-Quick Response Machine as ATM	202141019421	28.04.21	Applied
3	Dr. Anitha Gnanaselvi	Smart water management system using IOT	20214109424	28-04-2021	Applied
4	Dr. S. Madhurikkha	Smart Spectacles with display & Reminder Techniques	2021105809	06.10.2021	Applied
		Deep Learning model for prediction of cancer with stage level varying parameters and analysis of Gene expression	202241008120	16.02.2022	Published
		Design of voice oriented E-Mail using speech recognition for the blind	202141019423	28.04.21	Published
5	Dr. S. Venkatesh	Farmers Friend based on IOT	202141019235	27.0.2021	Applied
6	Mr. A.SubashChandar	Integration of Blockchain in IOT to prevent personal data violation	202141018740	23.04.21	Applied

7	Dr. J. Jospin Jeya	Smart shopping system using smart trolly for visually impaired people	202241007850	15.02.22	Applied
		Android based health care system	202141019233	27.04.21	Applied
8	Ms. A. Vidhya	Road Lane Line Detection using opencv	202141019426	28.04.21	Applied
9	Mr. M. Goudhaman	IOT based food prediction system using edge computing	202141019234	27.04.21	Applied
10	Ms. D Jeevitha	Artificial Intelligence Based Smart Raod Cleaning ROBOT	202241057430	07.10.22	Published
11	Ms. R. Tamilroja	Artificial Intelligence Based Smart Raod Cleaning ROBOT	202241057430	07.10.22	Published

5.7.3.2 Research laboratories

Data Science Research Lab

Laboratory Name: Lab 4

Data science labs play a vital role in advancing the field of data science by conducting cutting-edge research, developing innovative solutions, and training the next generation of data scientists and researchers. A data science lab typically refers to a specialized environment or facility where data scientists and researchers work on various data-related projects. These labs are equipped with advanced technologies, tools, and resources to conduct research, analyze data, and develop data-driven solutions.

Objective

- Develop Innovative Algorithms: Create new algorithms and computational techniques for processing, analyzing, and interpreting complex data sets.
- Explore Emerging Technologies: Research and experiment with emerging technologies such as artificial intelligence, machine learning, deep learning, and natural language processing.
- Machine Learning Models: Develop and optimize machine learning models for classification, regression, clustering, and recommendation systems.
- Artificial Intelligence: Research on artificial intelligence applications, including robotics, computer vision, and natural language processing.

Lab Configuration: The lab constitutes of total 30 desktops with the following configuration

Table 5.7.3.2.1 – Lab Configuration

Hardware Configuration	Intel i7 processor with 2.5 Ghz, 8GB RAM, 500GB Hard Disk
Operating System	Windows10, Ubuntu 16.04
Open Source Tool	Python, R – Language, OpenCV, C, C++, JAVA
Licensed Tools	Oracle 12.1 with analytics
Other Resources	High Speed Internet, Projector, White Board

Outcomes of Research Laboratory

The outcomes of a data science research lab can have a significant impact on the academic community

Scientific Contributions

Secure patents for unique algorithms or applications, providing legal protection for intellectual property.

Table 5.7.3.2.2 – Faculty Contributions

S.No	Name of the Faculty	Title	IP Reg Number	Date of Patent Applied	Application Level

| 1 | Dr. S. Madhurikkha | Deep Learning model for prediction of cancer with stage level varying parameters and analysis of Gene expression | 202241008120 | 16.02.2022 | Published |
| 2 | Dr. A. Vidhya | Road Lane Line Detection using opencv | 202141019426 | 28.04.21 | Applied |

Seminars / Workshops

Table 5.7.3.2.3 – Seminar

S.No	Topic	Date	Durations
1	Business Model in DataScience for Enterpreneurships	09.02.23	1 day

5.7.3.3 Instructional materials

Table 5.7.3.3.1 Instructional Materials

S.No	Teaching Methodology	Instructional Materials
1.	Chalk and Talk	Notes, Online Videos, Powerpoint Presentations, Assignments, CaseStudy, Tutorials, Question Bank, Model Question Paper
2.	Online Classroom	Assignments, Quiz
3.	Lab	Laboratory Manual

Fig 5.7.3.3.1 Instruction Materials Available in Drive

5.7.3.4 Working Models

Project Based Learning: Encourage students to work on collaborative projects that involve real-world problem-solving

Competitions: Organizing Internal Hackathon and coding Competitions. Hackathon where students can develop creative solutions to specific problems within limited timeframe and teamwork. Support students to participate in coding competitions to enhance their problem-solving skills and competitiveness.

Fig 5.7.3.4.1 – Hackathon Event

Fig 5.7.3.4.2 – Coding Competition

5.7.4 Consultancy(from Industry) (5)   Institute Marks : 0.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount
Performance Evaluation of Visual Therapy Method for Cerebral Palsy Rehabilitation	2	DST-SERB	8.81
			Total Amount(Z): 8.81

Cumulative Amount(X + Y + Z) =

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

Institute Marks : 30.00

System for Faculty Appraisal Focus on Quality Using the medium of an innovative, comprehensive and flexible education policy, Jeppiaar Engineering College attempts to chisel out the total quality person through a persistent focus on imparting quality education. Jeppiaar Engineering College relentlessly strives towards an institutionalized quality control process through the following quality focused approach:

Admission Criteria à Curriculum Design à Programme Selection à Curriculum Implementation à Evaluation à Employability. It is performing following tasks on regular basis:

1. Improvement in quality of teaching and research by regular inputs to all concerned based on feedback from students.

2. Providing inputs for best practices in administration for efficient resource utilization and better services to students and staff.

3. Providing inputs for Academic and Administrative Audit and analysis of results for improvement in areas found weak. Students and staff give their feedback and Suggetions.

ASSESSMENT OF THE PERFORMANCE

TEACHING, LEARNING AND EVALUATION RELATED ACTIVITES

Teaching

• Classes taught includes session tutorials, lab and other teaching related activities

• Regular and punctuality to class, remedial teaching, clarifying doubts, counselling and mentoring, additional teaching etc.

• Examination, Evaluation Activities and Administrative Support & Participation in Students' Co-curricular & Extra-curricular

Activities:

Involvement in students related activities/research activities

(a) Administrative responsibilities such as Head/ Class Incharge/ Professional Bodies Coordinators

(b) Examination and evaluation duties assigned by the University or attending the examination paper evaluation.

(c) Student related co-curricular, extension and field based activities such as students clubs, career counselling, study visits, students seminars and other events, cultural, sports, NCC, NSS and community services.

(d) Organising seminars/conferences/workshops, other universities activities.

(e) Evidence of actively involved in guiding Final year projects.

(f) Conducting minor or major research project sponsored by national or international agencies.

(g) At least one single or joint publication in peer reviewed or SCI/ WOS/UGC list of Journals.

(h) Presentation of papers and chairing of sessions

(i) Guiding and carrying out research projects and publishing the research output in national and international journals

Implementation

• The Department follows the self-appraisal method to evaluate teachers regarding research and other activities.

• The Department regularly monitors and collects the annual self-appraisals in the prescribed format from each Faculty member, duly forwarded by the Head of the Departments, Principal.

• Reviewed by the Head and Principal.

• Teachers are individually apprised of their strengths and weaknesses by their respective Heads and encouraged to achieve higher goals.

• The appraisals also help to assess the merit of the faculty members in applying for personal promotions. The faculty submits self- appraisal reports for the academic year which is evaluated by the head of the department.

The contents of the self-appraisal are mentioned below:

- Steps taken to advance technical knowledge
- Research contribution & other publications
- Capacity to guide research UG
- Development work in the Lab/Workshop
- Contributions to the Department/College
- Any other additional information related to their academic excellence.

JEPPIAAR
ENGINEERING COLLEGE

Affix your Passport size photo

ACADEMIC APPRAISAL

ACADEMIC YEAR 2022 – 2023 (ODD SEM & EVEN SEM)

Name of the Faculty		Emp.ID:	
Date of Joining		Exp.	
Designation		Dept.	

SUBJECTS HANDLED (THEORY ONLY)

Sl.No.	Year	Sem	Sub Code	Sub Name	External Assessment Anna University (Pass %)

SUBJECTS HANDLED (Theory only)

Sl.No.	Year	Sem.	Sub Code	Sub Name	IAT-I (Pass %)	IAT-II (Pass %)	IAT-III (Pass %)	Model (Pass %)

NPTEL COURSES COMPLETED

Sl.No.	COURSE Name	Year of completion	GRADE

Publications (Attach manuscript)

Sl.No.	Manuscript name, Journal, Vol, Issue, year	AU Annex / Web / Scopus

Publications (Call for Chapters) – SCOPUS Indexed Book Chapter - ELSEVIER
Chapters – Future of Transportation Logistics and Disaster Management with Drones:
  Opportunities and Challenges
Topic – Implementation of Delivery Drones in Logistics Business Process
Abstract has been selected for further proceedings.

Page 1 of 4

Projects Obtained / Applied (Keep Proof)

Sl.No.	Proposal Title, Funding agency details, Amount, Year

Funded Proposal
Patents Obtained / Applied (Keep Proof)

Sl.No.	Patent Title, Year (Status)

Counselor Assignment Status
Year / Section / Register No.'s (From – To) –

Sl.No.	Particulars	Remarks (Yes / No) If No, explain

Faculty Assignments in Department

Sl.No.	Job allocated	Status (Submitted to HoD/ Not submitted)	HoD Verification and signature
	(Mention works given to you and update status)		

FDP's Attended (submit proof)

Sl.No.	FDP Name	Period	Internal / External

FDP's Organized (submit proof)

Sl.No.	FDP Name	Period	Internal / External

Page 2 of 4

Fig 5.8.1 Faculty Appraisal Form

Seminar's Conducted

Conferences Attended (submit proof)

Sl.No.	FDP Name	Period	Internal / External

Conferences Organized (submit proof)

Sl.No.	FDP Name	Period	Internal / External

Any other contributions made by you to the Dept / College / University / Management (Feel free to mention)

Sl.No.	Particulars	Period (specify)

I affirm that all therefore said information is true.   Verified

Signature with Date of the Faculty   Signature & Seal with Date of the HoD

Office Use		
Recommended for Promotion / Increment	Pay Band (Rs.)	
Not Recommended		

Page 3 of 4

Fig 5.8.2 Faculty Appraisal Form

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

Institute Marks : 10.00

Details of Visiting Faculty and Mode of Interaction

Table 5.9.1 Visiting Faculty

S.No	Name of the Faculty	Designation	Course Name	Company Name	Mode of Interaction	Interaction Hours Per Year
1	Mr. Arul Francis	Data Analyst	Data Analytics Program	Imarticus Learning Pvt. Ltd	Value Added course	54
2	Ms. Sharon Stephen	Data Scientist	Big Data and Hadoop	Imarticus Learning Pvt. Ltd	Value Added course	54

Summary of Value added Course delivered by Mr. Arul Francis, Data Analyst, Imarticus Learning Pvt. Ltd, Chennai.

Table 5.9.2 Modules

S. No	Module Name	Academic Year	No of Students
1	Statistics & Probability	2022-23 ODD	60
2	SQL	2022-23 ODD	120
3	Python Programming	2022-23 ODD	60
4	Machine Learning with Python Part1	2022-23 EVEN	75
5	Machine Learning with Python Part2	2022-23 EVEN	70

Fig 5.9.1 Interaction with adjunct faculty

Summary of Value added Course delivered by Ms. Sharon Stephen, Data Scientist, Imarticus Learning Pvt. Ltd, Chennai.

Table 5.9.3 Modules

S. No	Module Name	Academic Year	No of Students
1	Big Data and Hadoop	2022-23 ODD	70
2	Big Data Analytics with Spark	2022-23 ODD	60
3	Data Visualization Tableau	2022-23 EVEN	60
4	Data Visualization Power BI	2022-23 EVEN	54

Fig 5.9.2 Interaction with adjunct faculty

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	Problem Solving and Python Programming Laboratory	36	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	30	Mr. Senthil Kumar T	Lab Instructor	M.Sc (IT)
2	Data Structures and Algorithms Laboratory	36	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	25	Mr. Manikandan R	Lab Instructor	Diploma in EEE
3	Artificial Intelligence and Data Science Laboratory	36	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	25	Mr. Sasi Jeyandra Raja P	Lab Instructor	B.E (CSE)
4	Cloud Computing Laboratory	36	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	25	Mr. Ajay Ram E	Lab Instructor	B.E (CSE)
5	Research Laboratory	36	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	25	Mr. Gurunathan A K	Lab Instructor	M.Sc (IT)

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	Centre for Data Analytics CoE - Imarticus Learning	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	To acquire the skills and knowledge necessary to apply data science and analytics to solve real-world business problems and make data-driven decisions.	20 hours / week	Data Science , Data Analytics , Artificial Intelligence and Machine Learning	PO1, PO2, PO3, PO4, PO5, PO9, PO10,PO11, PO12 PSO1, PSO2, PSO3
2	Centre of Excellence - VIRTUSA	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	To acquire, implement and communicate best sourcing practices and tools to drive operational excellence in young graduates	20 hours / week	.NET Technology	PO1, PO2, PO3, PO4, PO5, PO9, PO10,PO11, PO12 PSO1, PSO2, PSO3
3	Computer Hardware Laboratory	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor 4 GB RAM 64 bit OS	To provide hands-on experience in hardware-related issues in computers and system assembling.	20 hours / week	System Assembling, Hardware and Software Installation.	PO1, PO2, PO3, PO5 PSO1, PSO2
4	Skill development Laboratory	INTEL CORE i3 3.30GHZ / INTEL Motherboard/ 4 GB RAM/ 500 GB Hard disk	To acquire and apply the knowledge gained in the research areas and new product development practices – including innovation process, idea generation, concept development and optimization.	20 hours / week	NPTEL, online courses, Naan Mudhalvan and Hackathon events.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO12 PSO1, PSO2, PSO3
5	Internet Facility	Ethernet/Wi-Fi	Facility to faculty and students for enhancing self learning.	20 hours / week	More knowledge apart from curriculum, 24*7 accesses to learning resources.	PO5

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

Equipment to run experiments and their maintenance, number of students per experimental setup, size of the laboratories, overall ambience, etc.

- The ambience provides increased student engagement and productivity
- Each laboratory maintains a stock register detailing the overall functioning/maintenance of the lab.

Maintenance of Laboratory Equipments

- Routine equipment check-up is carried out every month.
- Regular maintenance of computers/equipment is carried out when required and also at the end of every semester.
- As per the requirement minor repairs are carried out by the lab technical staff.
- Major repairs are outsourced by following the procedure of the institute.
- Periodic updating of OS and software.
- Security software is installed to limit and block unnecessary activities
- General guidelines to be followed to protect the users is displayed in the laboratories

Overall Ambience

- Department has enough laboratories which are used for all the years on timetable basis to meet the curriculum requirements
- The courses which have practical work will be provided labs every week.
- Conditions of chairs/benches are good. Chairs are provided for individual students in Labs.
- Do's and Don'ts are listed in the laboratory. Every student should sign in the entry register available in the lab with correct system number, in time and out time.
- Laboratories are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum.
- Sufficient laboratory manuals are distributed to students.
- Laboratory classes are conducted as per curriculum.
- Sufficient number of windows is available for ventilation and natural light and every lab has one exit.
- Lighting system is very effective, along with the natural light in every corner of the rooms.
- Each laboratory is equipped with white/black board, computer, Internet, and such other amenities.
- For all faculty members and students to carry research work, the labs are available beyond college working hours

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6.4 Project laboratories (5)

Total Marks 5.00

Institute Marks : 5.00

S. No.	Facility		Utilization	
	Name of the Laboratory	Name of the Important equipment	Weekly utilization status	Beneficiary
1.	Project Laboratory	INTEL CORE i3 – 6100 CPU @3.70 GHZ Processor – 4 GB RAM 64 bit OS	24 Hours per week	**UG:** Pre-final year students – Mini Project Final year students – Project work.

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Problem Solving and Python Programming Laboratory	• General Rules of Conduct, including guidelines for safe laboratory practices, are prominently displayed in the laboratory for all users to follow. • Specific Safety Rules for students, such as protocols for handling chemicals or emergency procedures, are posted for easy reference. • First aid boxes and fire extinguishers are readily accessible at designated locations within the laboratory. • Uninterruptible Power Supplies (UPS) are in place to protect equipment from damage caused by power fluctuations. • Lab equipment undergoes regular servicing to ensure optimal performance and safety. • Maintaining a clean and organized laboratory environment. • Cell phone usage is restricted or prohibited to maintain focus and safety during lab activities. • Sand buckets are provided for immediate use in case of fires or chemical spills. • All computer systems within the laboratory are equipped with up-to-date antivirus software. • Proper grounding and earthing measures have been meticulously implemented to safeguard both equipment and personnel.
2	Data Structures Laboratory	• General Rules of Conduct, including guidelines for safe laboratory practices, are prominently displayed in the laboratory for all users to follow. • Specific Safety Rules for students, such as protocols for handling chemicals or emergency procedures, are posted for easy reference. • First aid boxes and fire extinguishers are readily accessible at designated locations within the laboratory. • Uninterruptible Power Supplies (UPS) are in place to protect equipment from damage caused by power fluctuations. • Lab equipment undergoes regular servicing to ensure optimal performance and safety. • Maintaining a clean and organized laboratory environment. • Cell phone usage is restricted or prohibited to maintain focus and safety during lab activities. • Sand buckets are provided for immediate use in case of fires or chemical spills. • All computer systems within the laboratory are equipped with up-to-date antivirus software. • Proper grounding and earthing measures have been meticulously implemented to safeguard both equipment and personnel.
3	Artificial Intelligence and Data Science Laboratory	• General Rules of Conduct, including guidelines for safe laboratory practices, are prominently displayed in the laboratory for all users to follow. • Specific Safety Rules for students, such as protocols for handling chemicals or emergency procedures, are posted for easy reference. • First aid boxes and fire extinguishers are readily accessible at designated locations within the laboratory. • Uninterruptible Power Supplies (UPS) are in place to protect equipment from damage caused by power fluctuations. • Lab equipment undergoes regular servicing to ensure optimal performance and safety. • Maintaining a clean and organized laboratory environment. • Cell phone usage is restricted or prohibited to maintain focus and safety during lab activities. • Sand buckets are provided for immediate use in case of fires or chemical spills. • All computer systems within the laboratory are equipped with up-to-date antivirus software. • Proper grounding and earthing measures have been meticulously implemented to safeguard both equipment and personnel.

| 4 | Networks Laboratory | • General Rules of Conduct, including guidelines for safe laboratory practices, are prominently displayed in the laboratory for all users to follow. • Specific Safety Rules for students, such as protocols for handling chemicals or emergency procedures, are posted for easy reference. • First aid boxes and fire extinguishers are readily accessible at designated locations within the laboratory. • Uninterruptible Power Supplies (UPS) are in place to protect equipment from damage caused by power fluctuations. • Lab equipment undergoes regular servicing to ensure optimal performance and safety. • Maintaining a clean and organized laboratory environment. • Cell phone usage is restricted or prohibited to maintain focus and safety during lab activities. • Sand buckets are provided for immediate use in case of fires or chemical spills. • All computer systems within the laboratory are equipped with up-to-date antivirus software. • Proper grounding and earthing measures have been meticulously implemented to safeguard both equipment and personnel. |
| 5 | Project Laboratory | • General Rules of Conduct, including guidelines for safe laboratory practices, are prominently displayed in the laboratory for all users to follow. • Specific Safety Rules for students, such as protocols for handling chemicals or emergency procedures, are posted for easy reference. • First aid boxes and fire extinguishers are readily accessible at designated locations within the laboratory. • Uninterruptible Power Supplies (UPS) are in place to protect equipment from damage caused by power fluctuations. • Lab equipment undergoes regular servicing to ensure optimal performance and safety. • Maintaining a clean and organized laboratory environment. • Cell phone usage is restricted or prohibited to maintain focus and safety during lab activities. • Sand buckets are provided for immediate use in case of fires or chemical spills. • All computer systems within the laboratory are equipped with up-to-date antivirus software. • Proper grounding and earthing measures have been meticulously implemented to safeguard both equipment and personnel. |

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- (2021-22)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.89	2.76	• Target missed. • Lack of fundamental concepts of engineering.
Action 1: Class room sessions are conducted for learning fundamental concepts.			
PO 2 : Problem Analysis			
PO 2	2.56	2.76	• Target Achieved • Enhanced ability to analyze the assigned problems
Action 1: Seminars related to latest engineering topics was conducted pertaining to respective subjects for further improvements. Action 2: Advice to practice more number of complex problem by giving Home Assignments.			
PO 3 : Design/development of Solutions			
PO 3	2.7	2.73	• Target Achieved • Ability to design solutions for complex problems.
Action 1: Seminars or Workshops related to engineering problem solving was conducted pertaining to respective subjects for further improvements.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.6	2.74	• Target Achieved • Ability to analyze problems.
Action 1: Guest lectures or hands on session was conducted to improve knowledge to analyse problems.			
PO 5 : Modern Tool Usage			
PO 5	2.78	2.81	• Target Achieved • Ability to use advanced tools.
Action 1: Extra classes was conducted for further improvement. Action 2: Hands-on session can be conducted to learn new tools.			
PO 6 : The Engineer and Society			
PO 6	2.8	2.76	• Target missed. • Ability to apply engineering practices.
Action 1: Industrial visits could be organized for the students to know more about engineering practices.			
PO 7 : Environment and Sustainability			
PO 7	2.81	2.76	• Target missed • Ability to overlook the impact on environmental contexts.
Action 1: Guest lectures could be planned. Action 2: Industrial visits could be planned.			
PO 8 : Ethics			
PO 8	2.5	2.76	• Target Achieved • Enhance knowledge on ethics and responsibilities.
Action 1:For improvement, A technical talk was planned for students to understand the responsibilities.			
PO 9 : Individual and Team Work			
PO 9	2.71	2.73	• Target Achieved • For improvement of multidisciplinary activities.
Action 1: Industrial visits could be organized.			
PO 10 : Communication			
PO 10	2.8	2.8	• Target Achieved • Ability to present and convey the latest engineering trends.
Action 1: Guest lecture could be conducted on recent topics of engineering for further improvements. Action 2: Hands-on sessions could be conducted on recent tools.			
PO 11 : Project Management and Finance			
PO 11	2.81	2.82	• Target Achieved • Ability to understand principles of engineering.
Action 1: Guest lecture could be conducted to understand multidisciplinary activities related to industry.			
PO 12 : Life-long Learning			
PO 12	2.73	2.76	• Target Achieved • Ability to get involved in life-long learning.
Action1:Seminars were conducted to improve knowledge on principles of engineering for further improvements.			

PSOs Attainment Levels and Actions for Improvement- (2021-22)

PSOs	Target Level	Attainment Level	Observations

PSO 1 : To analyze, design and develop computing solutions by applying foundational concepts of Computer Science and Engineering

PSO 1	2.7	2.74	• Target Achieved • Lack of practical implementation

Action 1: Lab sessions conducted for improving programming knowledge

PSO 2 : To apply software engineering principles and practices for developing quality software for scientific and business applications.

PSO 2	2.8	2.75	• Target missed. • Lack of application development knowledge.

Action 1: Application oriented training by industrial experts could be conducted.

PSO 3 : To adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.

PSO 3	2.7	2.72	Target Achieved

Target Achieved

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

Institute Marks : 10.00

Academic audits are conducted as per IQAC standard in order to monitor and evaluate the teaching learning process. The process consists of internal audits and external audits. Audits are conducted for faculty members, Laboratories, and departmental activities. The Academic Audit provides the opportunity for a regular strategic overview of the entirety of learning and teaching activity. It is the primary means by which the University assures itself of the efficacy and robustness of each department's quality management procedures and of continued enhancement of the quality of the student experience. A report of the review will be produced by the department and the College will be asked to respond to the report by producing an action plan to address any issues identified. In our institute we undergo different types of audits. The detail of the audit are shown in Table 7.0

Auditing	Duration	Specific Audit
IQAC	End of each semester	Department's overall activities
Academic External Audit	Once per semester	Effectiveness of Teaching Learning Process
Academic Internal Audit	Once per semester	Ensure Academic accountability

Table 7.0

Function of IQAC:

- Development and application of quality benchmark/parameters for various academic and administrative activities of the Institution.
- Facilitating the creation of a learner centric Environment conducive to quality education and faculty maturation to adopt the required knowledge and Technology for participatory.
- Arrangement for feedback response from students on quality related institutional processes.
- Dissemination of information on various quality parameters of higher education.
- Organization of Inter and Intra Institutional Workshops, Seminars on quality related themes and promotion of quality circles.
- Acting as a nodal agency of the institution for coordinating quality related activities.
- Development of Quality culture in the Institution.

Academic audit

Department level Internal Academic audit:

The department level academic audit will be conducted appointing some senior faculty members as auditors and also utilizing the services of course coordinators, and programme Assessment and Evaluation committee(PAEC).There are three levels in which the department used to perform the academic audit to ensure the quality assurance in the upcoming semester(Class committee meeting). The course handling faculty is also included as a part of the class committee members. Five students (in the combination of two from the toppers and three from the remaining students) from the respective batch are chosen along with the faculty advisors of the students of the respective class. The basic responsibilities of the Class Committees are
● To review periodically the progress of the Batch
● To discuss problems concerning curriculum, syllabi and conduct of the classes, for CGPA.
● To resolve issues related to teaching/learning, addressing the slow learners in regular semesters, value-addition, and other grievances.

The following records of the faculty members are verified during the internal academic audits.

1. Timetable
2. Lesson Plan
3. Course Delivery
4. Course File
5. Log Book
6. Internal Assessment
7. Attendance register
8. Internal question papers and scheme of evaluation
9. Evaluation of laboratory observation, record.
10. Class committee meeting
11. Industrial Visit and Guest Lecture

External Academic Audit:

The audit is done by the external experts from reputed institutions. They would be verifying the following documents and they provide their suggestions to improve their performance in coming semesters.

● Course material Files

● Evaluation Rubrics NBA SAR 2022

● Teaching methodology

● Assessment Methods

● Feedback of End semester examination question paper

INTERNAL QUALITY ASSURANCE CELL (IQAC)

S.No	Composition	Category	Members
1	Member from management	Chairman and Managing Director	Dr. M. Regeena Jeppiaar
2	Chairperson	Head of the Instituition	Dr. Francis Xavier J
3	IQAC Coordinator	Professor and Head - ECE	Dr. J. Jebastine
4	Internal Member	Dean / Academics	Dr. Shaleesha A Stanley
5	Internal Member	Assistant Professot / Mech	Dr. J. Paul Chandra Kumar
6	Internal Member	Assistant Professot / CSE	Dr. J. Anitha Gnana Selvi
7	Internal Member	Placement Officer / CSE	Mr. A. Subash Chandar
8	Internal Member	Associate Professor / S&H	Dr. S. Titus
9	Internal Member	Associate Professor / MBA	Dr. S. Akila
10	Internal Member	Associate Professor / S&H	Dr. F. Regan Maria Sundar Raj
11	Student	ECE 2021 - 2025	Gokul Sarathy R
12	Alumini	Associate Professor, Anna University, Chennai	Dr. S. Esther Florence
13	Member from industry	Assistant Manager, Manjulah Infotech	Ms. Swathy Mani
14	Councillor Semmanchery	Member from local society	A. Murugesan

	Year	Auditing Members
Academic External Audit	2020-2021	Dr.A.Chandrasekar Professor and Head Department of Computer Science and Engineering St Joseph's College of Engineering.Chennai.
	2021-2022	Dr.S. Cloudin Professor and Head Department of Computer Science and Engineering KCG College of Technology.Chennai
	2022-2023	Dr.K.Karnavel, Professor and Head, Department of Artificial Intelligence and Data science, Anand Institute of Higher Technology, Chennai

Academic Internal Audit	2020-2021	Dr.S.Titus Assistant Professor (Department of Science & Humanities) Dr. J. ArokiaRenjit Professor & Head (Department of Computer Science and Engineering)
	2021-2022	Dr.Sivagami Professor & Head (Department of Masters and Business Administration) Dr.J.ArokiaRenjit Professor & Head (Department of Computer Science and Engineering)
	2022-2023	Dr.J.Jebastine Professor & Head (Department of Electronics and Communication Engineering) Dr. J. ArokiaRenjit Professor & Head (Department of Computer Science and Engineering) Dr.M.Merlin Professor & Head (Department of Science & Humanities)

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

Institute Marks : 10.00

PLACEMENT

Human Resource and Development (HRD) cell provide necessary infrastructure for the students to get placement. Also it offers guidance to the students for career planning and personality development by conducting various short term programs .HRD cell invites different companies to recruit our final year students. The placement records for the past three Academic years are given in the Table 7.1

Academic Year	2019-20	2020-21	2021-22
Total no. of student	109	99	130
No. of students placed	91	82	107
Percentage	83	84	82

Table 7.1
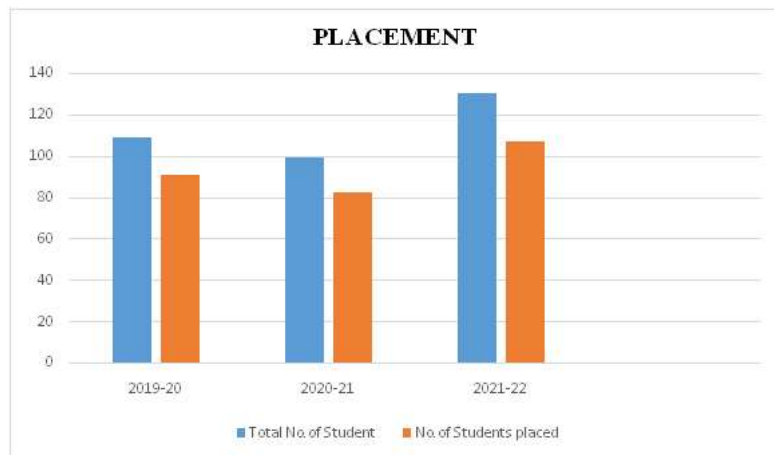
HIGHER STUDIES& ENTREPRENEUR

Advisory Bureau for Higher Education in Jeppiaar Engineering College was initiated for the benefit of the students aspiring for higher education for both Master's and other higher degree programs. TANCET and other competitive exams for the students to enter into PG Program. The higher studies and entrepreneur records for the past three Academic years are given in the Table 7.2.

Academic Year	2019-20	2020-21	2021-22
Total No.of students	109	99	130
No.of students qualified for higher studies	10	13	7
No.of students became Entrepreneur	1	0	0

Table 7.2

7.4 Improvement in the quality of students admitted to the program (10)   Total Marks 10.00
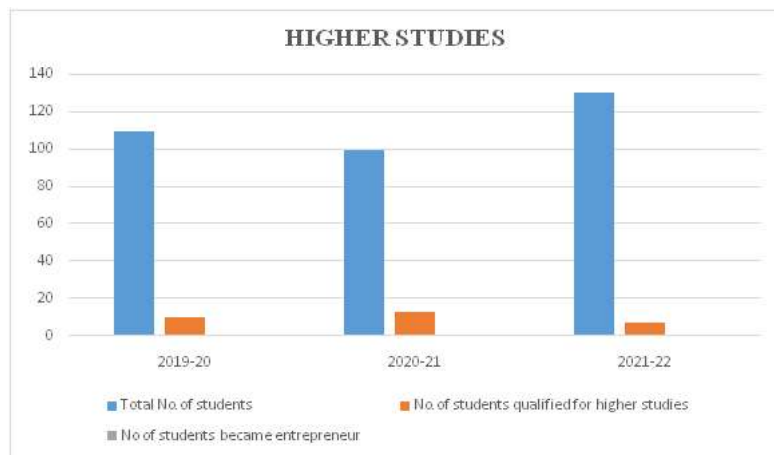
Item		2022-23	2021-22	2020-21
National Level Entrance Examination	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others Anna University	No of students admitted	144	119	116
	Opening Score/Rank	186	189	170
	Closing Score/Rank	82	106	80
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	2	8	0
	Opening Score/Rank	86	92	0
	Closing Score/Rank	77	71	0
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		143	117	138

8 FIRST YEAR ACADEMICS (50)   Total Marks 46.12

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

Institute Marks

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

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving in case Current Associ is 'No')
							CAY	CAYm1	CAYm2			
Dr.F.Regan Ma	ALNPR9462R	M.Sc. and PhD	29/09/2020	PHYSICS	Associate Professor	05/07/2007	100	100	100	Yes	Regular	
Dr.M.Merlin	AHAPM3117F	M.Sc. and PhD	23/03/2005	CHEMISTR	Professor	23/07/2001	100	100	100	Yes	Regular	
Dr.S.Titus	AITPT1930F	M.Sc. and PhD	28/02/2020	CHEMISTRY	Associate Professor	23/07/2001	100	100	100	Yes	Regular	
Dr.U.Anto Mari	BNYPA8510P	M.Sc. and PhD	25/04/2023	CHEMISTRY	Assistant Professor	04/09/2023	100	100	100	Yes	Regular	
Mrs.G.Vetha	APPPV4185F	M.Phil	20/08/2008	CHEMISTRY	Assistant Professor	26/08/2009	100	100	100	Yes	Regular	
Mr.A.Lawrence	AIQPL6387F	M.Phil	15/04/2010	CHEMISTRY	Assistant Professor	20/08/2014	100	100	100	Yes	Regular	
Dr.S.Srinivasar	EYFPS4804D	M.Sc. and PhD	08/04/2021	CHEMISTRY	Assistant Professor	20/07/2022	100	100	100	Yes	Regular	
Dr.G.Jagadees	AJXPJ3542J	M.Sc. and PhD	16/07/2016	PHYSICS	Professor	16/07/2014	100	100	100	Yes	Regular	
Dr.S.R.Thilaga	AJQPT5917J	M.Sc. and PhD	26/08/2015	PHYSICS	Professor	24/06/2015	100	100	100	Yes	Regular	
Mrs.R.Sharon	GRPPS4957C	M.Phil	01/08/2018	PHYSICS	Assistant Professor	24/07/2019	100	100	100	Yes	Regular	
Mrs.K.Subashi	BODPS3996D	M.Phil	02/04/2001	MATHEMATICS	Assistant Professor	26/06/2002	100	100	100	Yes	Regular	
Dr.P.Sivagami	CKAPS7343L	M.Sc. and PhD	14/04/2018	MATHEMATICS	Professor	25/08/2008	100	100	100	Yes	Regular	
Dr.A.Thiripuran	AJPPT6773K	M.Sc. and PhD	05/06/2017	MATHEMATICS	Professor	26/08/2009	100	100	100	Yes	Regular	
Dr.C.Kannadas	DWGPK5244D	M.Sc. and PhD	05/07/2023	MATHEMATICS	Assistant Professor	14/06/2021	100	100	100	Yes	Regular	
Dr.P.Jagadees	AWXPJ0118K	M.Sc. and PhD	21/01/2021	MATHEMATICS	Assistant Professor	14/06/2021	100	100	100	Yes	Regular	
Mr.P.Duraisam	ELLPD0569P	M.Phil	18/08/2018	MATHEMATICS	Assistant Professor	24/07/2019	100	100	100	Yes	Regular	
Dr.J.Arthy	BHLPA8553R	M.Sc. and PhD	20/01/2021	MATHEMATICS	Assistant Professor	24/07/2019	100	100	100	Yes	Regular	
Ms.S.KathirViz	DEPPS9944D	M.Phil	14/08/2006	MATHEMATICS	Assistant Professor	25/07/2019	100	100	100	Yes	Regular	
Ms.J. Rashmi	ARNPR7443Q	M.Phil	14/05/2007	MATHEMATICS	Assistant Professor	21/08/2020	100	100	100	Yes	Regular	
Mrs.L.Sowmiya	DZQPS9585E	M.Phil	10/08/2012	ENGLISH	Assistant Professor	21/06/2017	100	100	100	Yes	Regular	
Mr.R.Balamuru	CJDPB2878K	M.Phil	05/03/2018	ENGLISH	Assistant Professor	17/07/2019	100	100	100	Yes	Regular	
Ms.J.Priyanka	DVJPP1494N	MA	09/05/2019	ENGLISH	Assistant Professor	14/06/2021	100	100	100	Yes	Regular	
Mr.P.Balaganes	CNDPB9276R	MA	12/07/2019	ENGLISH	Assistant Professor	15/07/2021	100	100	100	Yes	Regular	
Mr.I.Samuel Da	GNIPS4216R	M.Phil	01/08/2018	ENGLISH	Assistant Professor	12/06/2019	100	100	100	Yes	Regular	
Dr.J.Paul Chan	AJBPJ7510J	ME/M. Tech and PhD	27/07/2022	GENERAL ENGINEERING	Associate Professor	04/07/2007	100	100	100	Yes	Regular	

Dr.D.Damodha	BNSPD4252R	ME/M. Tech and PhD	29/06/2018	GENERAL ENGINEERING	Associate Professor	04/01/2012	100	100	100	Yes	Regular
Mr.P.Jegan Dha	AQAPJ0261G	M.E/M.Tech	03/06/2013	GENERAL ENGINEERING	Assistant Professor	29/06/2015	100	100	100	Yes	Regular
Mr.P.Manikand	GTLPM8869P	M.Sc. and PhD	10/01/2023	TMAIL	Assistant Professor	19/07/2022	100	100	100	Yes	Regular
Ms.F.Dalphin N	ACXPF3201D	M.E/M.Tech	06/06/2016	GENERAL ENGINEERING	Assistant Professor	06/06/2018	100	100	100	Yes	Regular
Ms.T.Subha Ra	DOIPS9241Q	M.E/M.Tech	07/10/2013	GNERAL ENGINEERING	Assistant Professor	06/07/2018	100	100	100	Yes	Regular
Ms.P.Rajalaksh	AXVPR2940L	M.E/M.Tech	10/04/2010	GENERAL ENGINEEERING	Assistant Professor	22/06/2016	100	100	100	Yes	Regular
Dr.Ganesh visw	AEZPV0868G	ME/M. Tech and PhD	18/10/2022	GENERAL ENGINEERING	Assistant Professor	04/09/2023	100	100	100	Yes	Regular
Dr.A.MUTHUL/	AWEPM1955E	ME/M. Tech and PhD	18/09/2023	BIOTECHNOLOGY	Assistant Professor	12/06/2008	100	100	100	Yes	Regular
Mr.V.Jeyamani	ATLPJ8638D	M.E/M.Tech	21/04/2011	BIOTECHNOLOGY	Assistant Professor	02/01/2012	100	100	100	Yes	Regular

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment= (5*20)/FYSFR(Limited to Max.5)
2020-21(CAYm2)	570	34	17	5.00
2021-22(CAYm1)	540	34	16	5.00
2022-23(CAY)	540	34	16	5.00
Average	0	0	0	0

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

Institute Marks : 3.00

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2020-21	7	15	28	2.00
2021-22	10	17	27	3.00
2022-23	12	17	27	4.00

Average Assessment: 3.00

8.3 First Year Academic Performance (10)   Total Marks 8.12

Institute Marks : 8.12

Academic Performance	2022-23	2021-22	2020-21
Mean of CGPA or mean percentage of all successful students(X)	8.05	8.37	7.93
Total Number of successful students(Y)	117.00	114.00	94.00
Total Number of students appeared in the examination(Z)	117.00	114.00	94.00
API [X*(Y/Z)]	8.05	8.37	7.93

Average API[(AP1+AP2+AP3)/3] : 8.12

Assessment [1.5 * Average API] : 8.12

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

The Course Outcome (CO) Assessment and Data Acquisition process is prescribed in the following paragraphs.

Course Outcome Assessment Process

The CO assessment tools are used to measure the attainment levels of 1st year courses includes-

1. Student's performance in internal assessments such as class test, assignments, continuous evaluation in laboratory through rubrics etc. and
2. Student's performance in semester examination conducted by university.

All the 1st year courses prescribed by the university for the Program under consideration may be divided into two broad categories i) theory courses and ii) laboratory, for the evaluation. The overall percentage distribution of marks for direct assessment methods as per examination scheme prescribed by university is shown in Table 8.4.1.1.

Table 8.4.1.1: Course Outcome (CO) Assessment Evaluation Process			
Course Type	Assessment Type	Evaluation Through	Marks Distribution
Direct Assessment			
Theory	Internal	Class Test	40 %
		Assignment	
	External	University Examination	60 %
Laboratory	Internal	Continuous Evaluation	60 %
	External	University Examination	40 %

Data Acquisition Process for CO Assessment

The data required for the assessment of attainment level of each CO is indicated in above table. The data acquisition frequency and process is presented in *Table 8.4.1.2*.

Table 8.4.1.2.

	ASSESSMENT PROCESS	
S.No	Methods	Description of the Methods
1.	End Semester Examination conducted by Anna University	Semester examination (theory or practical) are the metric to assess whether all the course outcomes are attained or not framed by the course owner. Semester Examination is more focused on attainment of course outcomes and uses a descriptive exam. Anna University conducts the examination at the end of the semester covering all the course outcomes. 60% weightage is given to University Examinations in the evaluation process of course outcome. **Semester End Assessment in Theory** **Part A** - 10 numbers of two marks questions — 10X2 =20 Marks **Part B** - Five sixteen marks questions - All the five questions will be EITHER / OR pattern. — 5X16 =80 Marks **Total — 100 Marks**

2.	Internal Assessment Test	The Internal Assessment marks in a theory paper shall be based on three tests generally conducted after completion of 20 days, 40 days, and 60 days of each semester. 40% weightage for Internal Assessments in the evaluation process of course outcome.

Test	Portion Coverage	Marks	Duration
Assessment test – 1	Unit 1, 2(0.5)	60	2 hours
Assessment test – 2	Unit 3, 4(0.5)	60	2 hours
Model Exam	Unit 1,2,3,4,5	100	3 Hours

Retest is also conducted for every test failures and absentees for the hoping for students to give an opportunity to such students to improve their Internal Assessment Marks. It is a metric to continuously assess the attainment of course outcomes. Marks are considered as basic for the Internal Assessment of the relevant subject.

3.	Tutorial	Tutorial hours are scheduled in the regular Time Table for the analytical courses to practice problems under the guidance of the respective faculty member. These sessions help the students to enhance their analytical skills and knowledge.
4.	Assignments	Assignments are given based on the syllabus and the topics beyond the syllabus to enrich their knowledge by referring books and internet for finding the solutions. Students are encouraged to refer research papers from reputed journals to enhance innovation and learning abilities. Case studies are also given to apply their technical knowledge for specific application.

Laboratory/ Practical Subjects

S.No	Direct Assessment	Description of the Methods
5.	Lab Assessment	In case of practical, the Internal assessment marks shall be based on the laboratory records and one practical test.
6.	Viva-voce	External examination inclusive of practical and viva voce will be conducted by external examiner nominated by Anna University.

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

Institute Marks : 5.00

The attainment of each course outcome is measured through percentage students getting marks above target level for each assessment tool as indicated in (as indicated in *Table 8.4.1.1*). The attainment level for CO assessment is adopted as in *Table 8.4.2*.1.

FOR THE ACADEMIC YEAR 2021-2022

Table *8.4.2*.1. Attainment level of Course Outcome through various assessment tools	
Attainment Level (AL)	Criteria
1	50% of students scoring between 50-59 marks
2	50% of students scoring between 60-69 marks
3	50% of students scoring greater than or equal to 70 marks

FOR THE ACADEMIC YEAR 2020-2021

Table *8.4.2*.1. Attainment level of Course Outcome through various assessment tools	
Attainment Level (AL)	Criteria
1	60% of students scoring between 50-59 marks
2	60% of students scoring between 60-69 marks
3	60% of students scoring greater than or equal to 70 marks

FOR THE ACADEMIC YEAR 2019-2020

Table *8.4.2*.1. Attainment level of Course Outcome through various assessment tools	
Attainment Level (AL)	Criteria
1	50% of students scoring between 50-59 marks
2	50% of students scoring between 60-69 marks
3	50% of students scoring greater than or equal to 70 marks

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

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

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
HS3151	1.6	2.2	1.8	2.2	1.5	3	3	3	1.6	3	3	3
MA3151	3	3	1	1	0	0	0	0	2	0	2	3
PH3151	3	3	1.6	1.2	1.8	1	0	0	0	0	0	1
CY3151	2.8	1.3	1.6	1	0	1.5	1.5	0	0	0	0	1.2
GE3151	2	3	3	3	2	0	0	0	0	2	2	3
GE3171	2	3	3	3	2	0	0	0	0	0	2	2
BS3171	3	2.4	2.6	1	1	0	0	0	0	0	0	0
BS3171	2.6	1.3	1.6	1	1	1.4	1.8	0	0	0	0	1.3
GE3172	3	3	3	3	1	3	3	3	3	3	3	3
HS3251	3	3	3	3	2.75	3	3	3	2.2	3	3	3
MA3251	3	3	1	1	1	0	0	0	0	0	2	3
PH3256	3	1.3	2	1.3	2.3	1	1.3	0	0	0	0	2
BE3251	2	1.8	1	0	0	0	0	1	0	0	0	2
GE3251	3	1	2	0	2	0	0	0	0	3	0	2
CS3251	2	2	2	1	2	1	1	1	2	0	3	2
GE3271	3	2	0	0	1	1	1	0	0	0	0	2
CS3271	2	2	3	2	1	2	0	0	2	1	2	2
GE3272	2.4	2.8	3	3	1.8	3	3	3	3	3	3	3

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.58	2.28	2.13	1.85	1.61	1.9	2.07	2.33	2.26	2.57	2.5	2.26

PSOs Attainment:

Course	PSO1	PSO2	PSO3
HS3151	0	0	0
MA3151	0	0	0
PH3151	0	0	0
CY3151	0	0	0
GE3151	3	3	0
GE3171	3	3	0
BS3171	0	0	0
BS3171	0	0	0
GE3172	0	0	0
HS3251	0	0	0
MA3251	0	0	0
PH3256	0	0	0
BE3254	0	0	1
GE3251	2	2	0
CS3251	2	2	0
GE3271	2	1	1
CS3271	2	2	0
GS3272	0	0	0

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.33	2.17	1
CO Attainment	2.33	2.17	1

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)   Institute Marks : 5.00

POs Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations

PO 1 : Engineering Knowledge

PO 1	1.83	2.58	Target Achieved

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 2 : Problem Analysis

PO 2	1.80	2.28	Target Achieved

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next

PO 3 : Design/development of Solutions

PO 3	2.10	2.13	Target Achieved

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 4 : Conduct Investigations of Complex Problems

PO 4	1.80	1.85	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 5 : Modern Tool Usage

PO 5	1.70	1.61	Attainment is 94% Target level

Students are guided to participate in various online certification courses

PO 6 : The Engineer and Society

PO 6	1.90	1.90	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 7 : Environment and Sustainability

PO 7	1.92	2.07	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 8 : Ethics

PO 8	2.1	2.33	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 9 : Individual and Team Work

PO 9	2.05	2.26	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 10 : Communication

PO 10	1.80	2.57	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 11 : Project Management and Finance

PO 11	2.5	2.5	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PO 12 : Life-long Learning

PO 12	1.80	2.40	Target achieved.

Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.

PSOs Attainment Levels and Actions for Improvement- (2021-22)

PSOs	Target Level	Attainment Level	Observations

PSO 1 : To analyze, design and develop computing solutions by applying foundational concepts of Computer Science and Engineering

PSO 1	2.31	2.33	Target achieved

Target achieved. hence the attainment or the current academic year is fixed as target for the next academic year.

PSO 2 : To apply software engineering principles and practices for developing quality software for scientific and business applications.

PSO 2	2.02	2.17	Target achieved

Target achieved. hence the attainment or the current academic year is fixed as target for the next academic year.

PSO 3 : To adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.

PSO 3	1.1	1	Target achieved

Target achieved. hence the attainment or the current academic year is fixed as target for the next academic year.

9 STUDENT SUPPORT SYSTEMS (50)   Total Marks 50.00

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

PSOs	Target Level	Attainment Level	Observations

Institute Marks : 5.00

Details of Students Mentoring System

- The college has a successful system in place for student mentoring. Starting on the day they enroll in the college, students from all departments are subject to this system. Faculty members are assigned the role of student mentors and given Mentoring Registers to track their success.
- Under the mentoring method, each Mentor is assigned 20–25 students.
- The Student Mentoring System keeps track of a variety of student activities, including academic, co-curricular, extracurricular, and social accomplishments as well as information on parent meetings. The academic progress of each student is regularly evaluated by student mentors (faculty members), and all of their activities are discussed and recorded in the register.
- Any inconsistencies, such as disciplinary problems, health problems, feelings of insecurity, absences, etc., are carefully explored and counseled.
- Every month, a mentoring meeting is held, during which mentors present the documentation of their visits as well as the mentoring forms to the high-level mentoring/counselling committee, which is made up of HODs and the head of the institution. The committee examines each situation carefully and makes suggestions for improvement.
- The committee consults with the parents and the medical counselor as needed.

Efficacy of the Mentoring System

The current mentoring method benefits us in the following ways:

- It strengthens the teaching-learning process by putting the focus on the students.
- Offers unbiased guidance and support to students
- Helps students' solve problems and builds their self-confidence.
- Provides each pupil with individualized attention.
- Enhances students performance on end-of-semester exams and internal evaluation tests.
- Lowers the chance of failure and dropouts while raising academic performance.
- Encourages increasing students attendance rates
- Assists in discovering students interests and generating growth possibilities in pertinent fields.
- Encourages students to take part in a range of extracurricular and co-curricular activities.
- Encourages students to develop decision-making skills that support their objectives, talents, and aspirations and enables them to better manage their careers.
- Fosters a cooperative interaction between academics and students.
- Fosters a supportive workplace.
- Promotes efficient use of college facilities and resources. Facilitates information gathering and distribution.
- Makes for better placement.

UNIVERSITY RANK:

S.NO	NAME	BATCH	CGPA	RANK
1	JAYARAM SINGH R	2017-2021	9.14	15
2	KARPAGAM	2017-2021	9.09	19
3	ADLIN SAJEESHA M J	2018-2022	9.25	16
4	SUBHA VARSHINI P	2020-2022(M.E,CSE)	9.44	1 (GOLD MEDAL)
5	MALAR KODI M	2020-2022(M.E, CSE)	9.31	6

FATHER'S PHOTO   **MOTHER'S PHOTO**

N. C. Babu — Father's Signature
C. Nirmala — Mother's Signature

Residence Address : No. 1502 'B' Type T.N.H.B Colony Velachery Chennai 600042

Parents Contact No. With STD / ISD Code :

Residence :

Mobile : 9840356813, 8122131431

Fax :

Office Address :

Office Phone No. With STD / ISD Code :

Fax :

JEPPIAAR ENGINEERING COLLEGE

ACADEMIC RECORD

Batch : 2016 — 2020 UG (✓) PG ( )

Name : C. MANOJ KUMAR

Branch : C.S.E.   Section : 'B'

Roll No : 16JECS141 / 310816104 066

Permanent Address :
No. 1502 'B' Type T.N.H.B Colony Velachery Chennai

Pincode 600042

JEPPIAAR ENGINEERING COLLEGE
(A Christian Minority Institution)
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.
Off : 2450 2818, 2450 2416 Fax : 2450 2820, 2450 2817

IMPORTANT INSTRUCTIONS

1. This book is a cumulative record of the student's academic performance in B.E. / B.Tech / M.E. / M.Tech Course.

2. Students are asked to keep this book in good condition until their entire course is over.

3. The Marks Secured by the Student in the unit, mid semester model and university examinations are entered by the counsellor for the respective Year.

4. The Students are required to get their Parent's Signature in this Record on or before the date given by their Counsellor.

5. This book is to be surrendered at the end of their final Semester [UG (VIII) and PG (IV/VII)] to the office.

SEMESTER - I

Sl. No.	Sub Code	Sub Name	UNIT-I Date From To	UNIT-II Date From To	UNIT-III Date From To	MODEL Date From To	UNIVERSITY Date From To
1	HS6151	English-I	60	58	68	62	E
2	MA6151	Maths-I	52	50	50	50	E
3	PH6151	Physics-I	66	65	56	50	B
4	CY6151	Chemistry-I	80	93	AB	61	B
5	GE6151	CP	60	85	55	66	C
6	GE6152	EG	52	65	52	15	C
7	GE6161	CP-LAB					B
8	GE6162	EP-LAB					B
9	GE6163	PHY-CHE LAB					C
	TOTAL MARKS		400	410	272	316	176
	PERCENTAGE (CGPA)		66.67	68.3	45.83	51.67	6.77
	RANK		31	86	—	—	—
	NO. OF SUB FAILED		—	—	1	1	—
	ATTENDANCE %						
	COUNSELLOR SIGN						
	HOD SIGN						

Mentoring style: All-around development

The following four advancements are the main focus of the method for all-around student development:

a) Academic advancement

a) Co-curricular development

d) Development in extracurricular activities

d) Professional growth

a) Academic advancement

- Following each Internal Assessment Test and each set of end-of-semester exam results, all students will get mentoring from their designated mentors. As a result, the mentors can keep track of how each student is doing.
- The students' receive monthly mentorship based on their academic success. Good performers are urged to assist the slow learners whenever feasible, promoting peer collaboration and active learning among the students while also encouraging the good performers to perform even better.

- Toppers are driven to maintain high GPAs throughout each semester and achieve university rankings.
- Slow learners are urged to attend coaching sessions in order to comprehend the courses better.
- Class winners and deserving students receive scholarships and awards.
- College Toppers are recognized based on academic achievements.
- Additionally, the Best Outgoing Student Award is given to encourage the students.

Efficacy:

Through this effective mentoring system

- The students performance on the internal evaluation tests has increased, and the better performers are inspired to perform well in the next exams.
- Due to peer learning, slow learners have also demonstrated improvement in test performance. They have a drive to improve on the next exams.
- Attending coaching seminars has helped slow learners improve their performance on internal tests.

b) Co-curricular development

- The involvement of students in extracurricular activities is periodically observed. The mentors choose appropriate events and inform the students about them.
- Students are encouraged to take part in a variety of activities in order to improve their technical and soft abilities.
- Interdepartmental projects are encouraged for students to complete.
- Students participate in a variety of Value Added Courses based on their interests, as well as symposiums, seminars, conferences, training programs, workshops, and other events at the state and national levels.
- Students from our institute take part in a range of extracurricular activities all throughout India.

Efficacy

- Students have taken an active interest in a number of co-curricular activities both inside and outside of the college. Students have taken part in a variety of activities that the instructor has recommended.
- Students technical and life skills have improved.
- They have become industry-ready thanks to several interdepartmental projects, value-added courses, symposiums, conferences, contests, training programs, and workshops.
- Students have traveled to numerous colleges throughout the nation and in Tamilnadu to compete in tournaments and win prizes.

c) Development in extracurricular activities

- Mentors recognize students potential abilities with the help of the physical education department, extracurricular clubs, NSS, and YRC units, and they encourage them to take part in a variety of extracurricular activities like athletics, NSS, NCC, and other social activities.
- Extracurricular involvement shapes a persons personality and character. Students leave school in good physical and mental shape. Such involvement also helps pupils feel more confident.

Efficacy

- Students have taken part in numerous activities at the state and national levels and have won awards.
- Students have participated in numerous village welfare initiatives, clean-up campaigns, and health and hygiene campaigns.
- The NSS unit has carried out numerous tree planting campaigns.
- Students have participated in several internal and external competitions and earned awards for their photography, acting, elocution, aptitude, and other abilities.

d) Professional growth

- Mentors assist students in achieving their career goals through the Career Guidance Cell, Higher Education Cell, and Entrepreneurship Development Cell.
- Value-added programs, placement training courses, and skill-building courses

Efficacy

- Several students are preparing for the UPSC and GATE exam following graduation.

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

The various Feedback systems is followed as given below

Interactive Feedback

The HOD will hold a direct interactive discussion with the section of students regarding the Academic Activities following each Second Assessment exam.

Important interactive questions include the following:

a. Have all of the lecture notes and question banks for the semesters subjects been sent to you?
b. Did the faculty finish the sections in accordance with the Anna University syllabus?
c. Have all of the assignments been correctly turned in?

Program end Feedback

At the conclusion of each semester, all students will be asked for their opinions on the program and each subject. Corrective action will be done for improvement in next semesters based on student input about the courses. Each courses student feedback is watched, analyzed, and reviewed with the head of department for suggestions on how to make improvements.

Faculty Feedback

At the conclusion of each semester, student input is gathered using a well defined system. Ten criteria are used to gauge student opinion of the faculty, and a Teaching Performance Index (TPI) is created for 100 marks. The alternatives provided in the feedback system for the student to provide their input regarding the problematic topic handling faculty are Excellent, Very Good, Satisfactory, and Poor. The HOD reviews the student feedback and sends a copy of the findings to the Principal. Each faculty member reviews their feedback scores for self-evaluation and ongoing growth. The Faculty Appraisal system takes into account the concern facultys feedback score. Faculty members who received scores of more than 90% are recognized, while those who received ratings of less than 75% receive individualized advice from the department head and are advised to attend faculty development programs in order to improve their performance.

Exit Survey

An effective technique for getting student input is the student exit survey. This allows students to discuss their on-campus experiences and helps gauge how satisfied graduating students are with various program-related features. A core collection of inquiries form the surveys structure and are intended to elicit proposals from the graduates based on the traits of graduates, which center on knowledge, competence, and attitude.

Alumni Survey

Former students are questioned in the alumni survey about their career and continued education, their opinions of the institutional emphasis, and their estimated gains in knowledge and skills. It gauges how satisfied graduates are with every facet of their education. Surveys of alumni are also used to determine how they are adjusting to life after school and to gauge the connection between their college major and present work.

Employer Survey

Employer surveys are an effective technique for obtaining an honest assessment of our graduates from employers. This poll gives the organization a clear sense of what it needs to do for graduates in the following academic years.

Class Committee Meeting

Every class must have a class committee made up of the head of the department, faculty mentors, concerned class teachers, and student representatives. It has the same general objective of enhancing the teaching-learning process as the "Quality Circle," which is more frequently utilized in enterprises.

The functions of the class committee include

- Resolving issues that arise for students in the classroom and in the lab.
- Informing the student representatives of the academic calendar, which includes test dates and the material covered in each test.
- Providing information on the rules governing the weight age utilized for each evaluation to the student representatives.
- Examining the exam results of the classs students and identifying any flaws, if any, with their performance.
- Identifying any weak pupils and asking the relevant teachers to give those poor students some extra assistance, direction, or coaching.

Parent Feedback

After the internal tests, parents are invited to a conversation that is held in the middle of each semester to discuss academic activities and general amenities.

9.3 Feedback on facilities (5)   Total Marks 5.00

Institute Marks : 5.00

Student Feedback Collection Process:

- Every semester, student feedback is personally collected in order to raise the standard of the labs, libraries, dorms, mess, gyms, and sports facilities. Every month, a meeting is held to discuss issues affecting students.
- A suggestion box is also there for seeking student feedback.

Analysis

- The students feedback has been compiled and examined. The in-charges of each section and the principal meet with management to examine the results in the consolidated report and determine the appropriate next steps.

Corrective Measures:

Based on feedback from students,

- To conduct value-added courses and projects, tools such Arduino, Arduino Mega, ArduinoUNO, Zigbee module, etc., have been received.
- In laboratories, the size of the display charts has been raised for greater comprehension.
- Whenever necessary, damaged hardware components are duly replaced and bought.
- Damaged equipment is located and repaired as soon as possible. It is done to calibrate the lab apparatus on a regular basis.

Library

The following corrective measures have so far been implemented in response to student feedback.

- There are now more general, novel, and competitive novels available.
- A student WhatsApp group has been established, where students regularly inform other members about conferences, workshops, the details of E-Books, etc.
- The working hours and opening times of the library have been extended to accommodate longer student use after normal working hours.

Sports:

- A separate sports area has been set aside for the practice of different field events, such as badminton, volleyball, kabadi, cricket, throw ball, and football.
- The size of the playing field has also been expanded, and new sports equipment has been purchased.

Hostel

- The food quality in the boys and girls hostel is ensured by incorporating the recommendations of the hostel welfare committee.
- The building has a softening plant constructed to treat the water for multiple uses.

Mess

- The menu is modified following consultation with the Mess Committee.
- During lunchtime, faculty members are sent to inspect the quality of the meal preparation.
- In the mess hall, there is a register where faculty members and students can leave suggestions. After examining them, the appropriate action is done.

9.4 Self-Learning (5)   Total Marks 5.00

Institute Marks : 5.00

The Total Student Development Program helps students enhance their interpersonal, technical, and business abilities by focusing on all facets of their personalities.

- Encouraging students to use the NPTEL, and library resources.
- Students are encouraged to prepare and present topics of their interest by providing a weekly seminar hour.
- Encouraging students to take part in workshops, seminars, and symposiums.
- Encouraging students to compete in intra- and intercollegiate events.
- Encouraging students to complete small projects and deliver papers at conferences.
- Requiring pupils to respond to technical/aptitude training questions online.
- Mentoring and industry-institution interaction to enhance learning outside of the prescribed curriculum.
- The college has a student web portal that enables students to readily access the course syllabus and readings.
- Digital library facility: To keep students up to date, the college library offers a variety of online publications and technical literature.

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

9.5.1 Placement Cell

For the purpose of assisting students with campus placement, the Institute offers a fully functional Training and Placement Centre (TPC). The training schedule is created to accommodate students demands and improve their employability. All students, beginning in the first year, receive training in communication skills with the assistance of experts in order to fulfill the standards of industry expectations. From the second year on, career focus events are planned to assist students in setting goals so they can have enough time to build their competencies. All second-year students participate in career awareness programs designed to inform them about all career opportunities and the qualities that employers value.

Placement Team

Sl.No	Name of the Staff	Designation
1	Mr.Subash Chandar	Assistant Professor – IT
2	Mr.B.Arun Vijaya Kumar	Assistant Professor – ECE
3	Mr.Insol Rajasekhar	Assistant Professor – CSE
4	Mrs.Anuja	Assistant Professor – IT
5	Mr.Jagandhas	Assistant Professor – Mech
6	Mr.Jeya Manikandan	Assistant Professor – Bio Tech
7	Mr.Haston Amith Kumar	Assistant Professor – Aero
8	Dr.E.Gopi	Assistant Professor – MBA

Facilities and Campus Placement Support

The following facilities and practices are available to promote career guidance in college:

- Pre-placement meetings and training courses in logical thinking, personality development, and aptitude, among other topics.
- Encouraging and supporting students in developing their soft skills through activities including resume writing, group discussions, interview preparation, and simulated interviews with reputable instructors. Posting articles on competitive exams and industrial careers on departmental notice boards.
- Raising pupils understanding of career planning and career mapping
- Offering instruction in life skills. Additionally, students receive instruction in verbal reasoning, logical reasoning, and numeric ability.
- The continuation of placement efforts beyond the allotted time has passed, until every student has been placed. Signing agreements with industries to assist job placement and internships.

9.5.2. Career Guidance

v. The Jeppiaar Engineering Colleges Advisory Bureau for Higher Education was established for the benefit of students aspiring to higher education, including masters and other higher degree programs. Through frequent awareness seminars, professional organizations, and educational advisers from embassies overseas, the Bureau is connected to a team of consultants from India and other countries that are both private and government-related. For competitive exams like the GMAT, GATE, GRE CAT, IELTS, and TOEFL, the Bureau is furnished with a variety of the most recent books, journals, and CD-ROMs.

v. The Jeppiaar Engineering Colleges Advisory Bureau acts as a hub for information about advanced studies and inspires students to pursue careers in those fields. The bureaus operations include instructing students on transcript attestation, career assistance and counseling, coaching sessions led by distinguished professors for competitive exams like the GMAT, GATE, IELTS, and TOEFL, as well as brief courses in a few other languages. Students also get access to audio and visual resources for GRE, TOEFL, IELTS, and GMAT test preparation. Students can access CDs and audio cassettes on vocabulary, listening, writing, and oratory abilities to help them with their communication skills. Every year, magazines on topics like personality development, health, science, and many others are purchased to encourage reading.

v. Additionally, reputable professional organizations like IDP, Study Overseas, Global Education, SI-UK Education Council, and various foreign country collaborators like The United States-India Educational Foundation, Germany Overseas Education Consultants in Chennai, and Canada India Education Council regularly hold awareness seminars to disseminate up-to-date information about the courses offered in their respective universities and proclaim their respective qualifications. Additionally, this Bureau lends a helping hand to underprivileged students by enhancing their communication abilities, completing their training needs, and increasing their proficiency in their chosen fields of study.

9.6 Entrepreneurship Cell (5)   Total Marks 5.00

Institute Marks : 5.00

9.6.1.Entrepreneurship Development Cell (EDC)

EDC was established in 2005 to foster entrepreneurship abilities and produce businesspeople for the advancement of our country. Engineering graduates are given the option to become entrepreneurs through EDC so that they can stop relying solely on employment as their career path and open up more employment prospects for their peers and juniors. Creativity, unconventional thinking for business solutions, and the capacity to accept measured risk are the fundamental qualities needed to be an entrepreneur. Students who exhibit these traits, even without having spent a dime, are welcomed with open arms at EDC in preparation for becoming great entrepreneurs.

Additionally, our Colleges EDC hosts the Jeppiaar Icon Award ceremony each year to recognize and reward exceptional entrepreneurs and alumni from all fields and walks of life. Thus, EDC satisfies students thirst for becoming successful entrepreneurs who would guide the country.

9.6.2 Institute Innovtion Council (IIC)

The Institution Innovation Council (IIC) will be established in our college during the academic year 2018–2019 with approval from the MHRD Innovation Council (MIC). Our college received a 3 star rating in the 150–300 slab for the 2023 NIRF Innovation Ranking.

IIC Committee Members Details

Sl. No.	Portfolio	Faculty In-charge	Frequency of meeting
1.	IIC President	Dr. Paul Chandra Kumar - Mech	
2.	IIC Convener	Mr.G.C.Jagan - ECE	
3.	IIC Faculty In-charges	Dr. Regan Maria Sundarraj - SH	
		Dr. Damodharan - Mech	
		Mr. T.R.Chenthil – ECE	Once in two months
		Mrs. Jeevitha – CSE	
		Dr. Vidhya – IT	
		Mr. Sorna Kumar – Biotech	
		Dr. E.Gopi - MBA	

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

Total Marks 10.00

Institute Marks : 10.00

Co-Curricular and Extra -Curricular Activities

Students participate in co-curricular and extracurricular activities in addition to their academic work. Student associations and student chapters typically carry out this function at the college level as well as various departmental levels. Students can develop their leadership abilities, teamwork skills, and opportunities to explore new interests through co-curricular and extracurricular activities. It is encouraged to participate in technical competitions, such as quizzes, project exhibitions, and competitions for paper presentations. The majority of these initiatives come from students who are interested in creating a vibrant culture on campus and encouraging cooperation.

Co-curricular activities:

There is a student organization or chapter in each department. These associations plan the extracurricular activities each year. The institute also organizes a national level technical student symposium each year.

All departments have department organizations with several committees for the students general growth. These committees usually organize a variety of activities. Students publish a newsletter and a magazine to showcase their creativity. Students continue to use the academic knowledge they have learned in the classroom to develop their unique characteristics by taking part in extracurricular activities.

List of Professional Societies

 v. Institute of Electrical and Electronics Engineers (IEEE)
 v. Computer Soceity of India(CSI)
 v. The Institution of Electronics and Telecommunication Enginners (IETE)
 v. Institute of Engineering and Technology (IET)
vi. Indian Society for Technical Education (ISTE)
 v. Society of Automotive Engineers (SAE)

EXTRA-CURRICULAR ACTIVITIES

NATIONAL SERVICE SCHEME (NSS)

About the Unit

Through community service, the NSS Unit aims to help students develop their personalities. "NOT ME BUT YOU" is NSSs motto. It emphasizes how a persons welfare ultimately depends on the welfare of society as a whole. This captures the core of democratic behavior and supports the demands of selfless service and respect for opposing viewpoints.

Faculty Coordinator: Mr.B.Arun Vijaya Kumar AP / ECE

Major events organised:

1. Seven Days NSS Camp
2. Blood Donation Camps
3. Tree Plantation Drives
4. Organized Yoga Camp
5. Drug Awareness Campaign

Sample Photos

YOUTH RED CROSS (YRC)
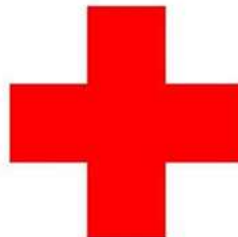
About the Club

The clubs mission is to educate its young members and the public about the functions and duties of the Red Cross. This club promotes health and hygiene awareness. Students are urged to comprehend and accept their civic duties and to act in accordance with them while showing consideration for others. With commitment and devotion, students grow in their feeling of duty and service. Overall, this club supports students in developing better, inclusive friendships with everyone.

Faculty Coordinator: Dr. G.Bala Chandran AP / ECE

Major events organised:

1. International Yoga Day Celebrations
2. Blood Donation Camps
3. Awareness Programmes

Sample Photos

National Cadet Corps

About the Division:

National Cadet Corps (NCC) Naval Wing was started in our college on 17th September 2003 in the presence of Commander B.V.Ramakrishna and is functioning successfully under the excellent guidance of our Founder Chairman Colonel Dr.Jeppiaar M.A, B.L, Ph.D. and energetic Director Dr.Regeena,J.Murali B.Tech.,M.B.A.,Ph.D. Mr.S.K.Sinu Siva Singh is the care taker of our College.

The strength of NCC division is 50 cadets, including 16 Girl Cadets. Every year 20 Parades are conducted, each parade consisting of 6 periods (i.e.) 4 hours. Petty officers from 4(T.N) Naval Tech Unit train and infuse great enthusiasm in our cadets.

ACTIVITIES CONDUCTED:

COASTAL CLEANING:

Every Year our cadets participate in Coastal cleaning activities joining hands with CII- YI and International Coastal Cleanup day event and clean in ECR coastal region.

TREE PLANTATION:

Our Cadets actively participate in Tree plantation program to make our campus and world green.

BLOOD DONATION CAMP:

We also Organise, participate and donated blood during the **'Blood Donation camp'** conducted by the **Youth Red Cross** of our college.

KARGIL DAY:

26 July Kargil Day: Honoured Kargil Jawans who sacrificed their lives for protecting our Country. Wreath was placed by our Director Mrs.Regeena J.Murali and delivers the patriotic speech. Candles were lit by our Director Mrs.Regeena J.Murali followed by Principal, faculties and students participated in this historic event and made successful event every year.

Yuva club

This club gives the students a platform to develop themselves, build a skill set and it also enables them to contribute to the country , however little it may be.

Yuva club of Jeppiaar Engineering College was established in the year 2014 ,and it continues to provide rare opportunities for students to showcase their talents and develop their leadership qualities . Students will work in the following sectors with delegates of various companies:

1. Entrepreneurship sector
2. Membership sector
3. Road safety sector
4. Health sector
5. Special project sector
6. Climate change sector
7. Sports sector
8. Masoom sector
9. Innovation sector
10. Rural initiative sector
11. Organ donation sector

Some of the memorable events conducted in our club includes INSTAMINDS-an inter college design thinking workshop,Care and Share- Orphanage and old age home visit by our students , Reality buzz- a virtual reality games fiesta held as part of Pratiyog 2023,Mathare-a menstrual hygiene awareness session for the girl students of Jeppiaar School, Drug abuse awareness programme held in collaboration with NCC and NSS,Health Fusion -an event to emphasize on the importance of physical and mental health among college students ,and so on.

We are extremely happy to announce that all the students of Jeppiaar Engineering College are members of Yuva club without having to pay any entry fee.

We encourage the students to take part in all the activities conducted in this club and develop themselves as well as the society.

The Rotaract Club

The Rotaract Club of Jeppiaar Engineering College, sponsored by Rotary Club of Madras | Rotary International District 3232 was chartered on 21st July 2015. Since then, it has been an exemplary armada of service, fellowship and growth. Our Rotaract Club is essentially to serve the community and to give back to the society that we are a part of. Following the motto of Rotary International, "Service above Self", our ultimate goal is to make the world a better place, one day at a time.

We foster a safe and prejudice free environment for an inclusive, self-help zone for the personal development of the students into good societal beings and young professionals.

Our students do a set of signature project like VR Challenged, a project to take Virtual Reality to the physically disabled, Metro vil oru Naal, which is essentially a day out with orphaned kids, riding the metro rails of chennai. Most notable is our legacy project "TAMIZHI", a tribute to the tamil culture and our deepfounded heritage. The students find underprivileged traditional dancers and artists who are keeping our tamil artforms alive, give them a forum and conduct, what could reductionistically be labelled as a "Tamil Conference". The students raise funds for this event via ticket sales and donate the proceeds to a good cause. In the Rotary Year 22-23, they donated it to "The Prathyasha Story", a home for children affected with HIV AIDS.

Rotaractors, i.e., The Rotaract Club members also connect with other members across the district (the Chennai geographical area) and quite literally the entire world, through international service where they build networks that would be essential for their careers in the future.

Such is the nature of the Rotaract Club of Jeppiaar Engineering College with its 9 year legacy.

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 :
To build Jeppiaar Engineering College as an institution of academic excellence in technological and management education to become a world class University

Mission :	
M1	To excel in teaching and learning, research and innovation by promoting the principles of scientific analysis and creative thinking
M2	To participate in the production, development and dissemination of knowledge and interact with national and international communities.
M3	To equip students with values, ethics and life skills needed to enrich their lives and enable them to meaningfully contribute to the progress of society
M4	To prepare students for higher studies and lifelong learning, enrich them with the practical and entrepreneurial skills necessary to excel as future professionals and contribute to Nation's economy

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

- The All India Council for Technical Education (AICTE), the Directorate of Technical Education (DOTE), and Anna University are the regulatory agencies that Jeppiaar Engineering College abides by .The Chairman and Managing Director of the Jeppiaar group of organizations serves as the head of the Governing Council (GC), which also includes representatives from prestigious academic institutions, members of the Jeppiaar Educational Trust, nominees from governing and affiliating agencies, and industry specialists. The Governing Council makes policy decisions and creates expansion plans for the institute. The Jeppiaar Educational Trust, Management, and Governing Council are in favor of continuing to upgrade the institutions physical plant, labs, and other teaching tools.
- The Governing Council, Internal Quality Assurance Cell (IQAC), Management Review Committee Board, Program Assessment and Evaluation Committee (PAEC) and Department Advisory Committee (DAC) develop the institutes vision and mission. Periodically, internal and external audits are carried out to provide information on how funds are allocated and used, as well as how instruction is being delivered. The quality goals, practices, and metrics for the colleges ongoing improvement are handled by the Internal Quality Assurance Cell (IQAC) Organization for Standardization. The institute has a good organizational structure and an organogram, and it has delegated responsibility among internal stakeholders. Numerous committees, councils, clubs, teams, and cells have been established, and they operate with clear objectives and roles.
- In order to support both faculty and non-teaching personnel academic excellence and professional growth, welfare measures have been adopted by the Governing Council. By including them in co-curricular and extracurricular categories, as well as extension service programs, youngsters are taught the best social behaviors.

The list of various committees and respective conveners are listed in table 10.1.2.1.

Table 10.1.2.1 List of Committees and Frequency of Meeting

S.No	Name of the Committee	Chairperson / Convener	Functions and Responsibility	Frequency of Meeting
1	Governing Council (GC)	Chairman and Managing Director	Governs the institution and offers assistance for the ongoing improvement of the buildings facilities, labs, and other teaching aids.	Once in a Year
2	Management Review Committee Board	Principal	- Creates a plan for the colleges expansion and development. - Plans for resource mobilization via extra-mural financing and industrial involvement. - Review and monitoring of performance in relation to academic, research, co-curricular, extracurricular, administrative, placement, discipline, and extension activities on a regular basis with appropriate action taken.	Once in a Year
3	Internal Quality Assurance Cell (IQAC)	IQAC Convener	- Setting up quality standards - Internal audits are conducted on a regular basis, followed by recording numerous actions that contribute to quality enhancement. - Spreading knowledge and best practices to all stakeholders; preparing and submitting AQAR to NAAC. - The procedures and techniques used to carry out the internal quality management system. - Review the teaching-learning process Plan-Do-Check-Act cycle.	Twice in a Semester
5	Program Assessment and Evaluation Committee(PAEC)	Program Coordinator	- Reviews to see if the POs, PSOs, and quality objectives are being met. - Evaluates the success of the program and suggests any necessary modifications. - For key management stakeholders, prepares periodic reports or records on program activities, progress, status, or other special reports. - Encourages academics and students to participate in workshops, collaborate on projects, create working models, publish papers, give presentations, and conduct research	Twice in a semester
6	Department Academic Committee (DAC)	Head of the Department	- Follow the programs development. - Analyses of program-related challenges from the present and the future. - Develops and suggests brand-new or updated program objectives.	Once in a Year

8	Research and Development Cell	Professor In-charge	Enhance academic members and students' abilities in research and development, including publications, financed projects, patents, and product creation.	Once in a Month
9	Student Development Cell (SDC)	Professor In-charge	• Through professional societies and associations, organize and give resources for extracurricular activities for students. • Obtaining input from students and launching corrective measures. • Through NSS, YRC, NCC, and clubs, organize and provide resources for extracurricular activities for students.	Once in a Month
10	Hostel Committee	Chief Warden / Deputy Warden	• Hostel accommodations should be made available for the faculty, staff, and students in need. • Uphold the standards of behavior expected in dormitories for educational institutions.	Once in a semester
11	Training and Placement cell	Professor In-charge /Training and Placement Officer	• Plan training and placement opportunities for students. • Offer students career counselling. • Set up both on- and off-campus interviews on campus. • Plan interactions with the Industry Institute.	Once in a Month
12	Class Committee	Chairperson	• The goal is to improve the teaching and learning process. • Analysing the performance of the class students after each test and determining the best strategies to solve difficulties. • Identifying weak students and urging that teachers assist, guide, or coach such students.	Thrice in a semester
13	Student Mentor Meeting	Convener	• Examine and evaluate academic performance. • Encourage and motivate students to thrive in academics, placement, and career development.	Once in a month

The administrative setup is shown in the Figure 10.1.2.1
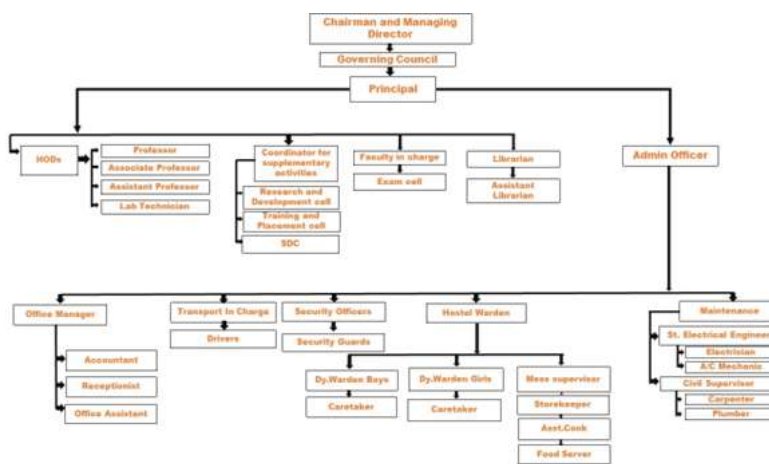
Figure 10.1.2.1 Organization Chart of administrative setup

The members of the governing body are listed in table 10.1.2.2.

Table 10.1.2.2 List of Governing Council Members

Governing Council Members			
SI. No.	Name	Position	Professional Occupation
1	Dr. Regeena Jeppiaar	Chairman	Chairman and Managing Director, Jeppiaar Group of Institutions, Chennai.
2	Dr.Francis Xavier.J	Member Secretary	Principal
3	Dr.Shaleesha A Stanley	Member	Professor, Biotechnology Department.
4	Dr.J.Jebastine	Member	Professor, Electronics and Communication Engineering Department.
5	Dr.R.Jayavel	University Nominee	Professor, Anna University, Chennai.
6	Dr.V.Amalan Stanley	Member	Vice Chair, Scientific and Academic Board, IIBAT, Chennai.
7	Dr.C.Ponnuraja	Member	Scientist E, ICMR-NIRT, Chennai.
8	Dr.S.Vasudevan	Member	Director-Business Development at Institute of Analytics, USA
9	Mr. Sethuraman Krishnamoorthy	Member	Founder and Managing Director, Prag Robotics Pvt Ltd, Chennai.
10	Dr. Adithiya Pothan Raj.V	Member	Lead Architect-Technology, CTS, Chennai.
11	Dr. Arun Kumar	Member	Chief Director, Chettinad Hospitals, Chennai

Figure 10.1.2.2 depicts participation details:

Details about the members of the internal quality assurance cell are shown in Table 10.1.2.3.

INTERNAL QUALITY ASSURANCE CELL (IQAC)			
SI. No.	Composition	Category	Member(s)
1	Member from Management	Chairman & Managing Director	Dr.M. Regeena Jeppiaar
2	Chairperson	Head of the Institution	Dr.Francis Xavier.J
3	IQAC Coordinator	Professor & Head / ECE	Dr.J.Jebastine
4	Internal Member	Dean / Academics	Dr. Shaleesha A Stanley
5	Internal Member	Assistant Professor/ Mech	Dr.J. Paul Chandra Kumar

6	Internal Member	Assistant Professor/CSE	Dr.J.Anitha Gnana Selvi
7	Internal Member	Placement Officer/CSE	Mr.A.Subash Chandar
8	Internal Member	Associate Professor/S&H	Dr.S.Titus
9	Internal Member	Associate Professor/MBA	Dr.S.Akila
10	Internal Member	Associate Professor/S&H	Dr.F.Regan Maria Sundar Raj
11	Student	ECE(2021-2025)	Gokul Sarathy R
12	Alumni	Associate Professor,Anna University,Chennai.	Dr.S.Esther Florence
13	Member from Industry	Assistant Manager,Majulah Infotech	Ms.Swathy Mani
14	Councilor, Semmanchery	Member from Local Society	A Murugesan

Circular details of IQAC Meeting is shown in Figure 10.1.2.3.

JEPPIAAR
ENGINEERING COLLEGE

INTERNAL QUALITY ASSURANCE CELL   27.05.2023

CIRCULAR

The first meeting of IQAC for the AY 2021-22 is convened on 08.06.2023, Wednesday at 10.00 A.M.

Agenda of the Meeting:
- To confirm the minutes of meetings held on 03.01.2022 and 25.03.2022 along with action taken report
- Presentation of NAAC review report
- Review of planned activities of 2022-23
- Plan for the academic year 2023-24
- IQAC Internal Audit
- Enrichment Program for Students & Faculty Members
- Any other Agenda with the permission of the Chair

All the members are requested to make it convenient to attend.

Principal

PRINCIPAL
JEPPIAAR ENGINEERING COLLEGE
JEPPIAAR NAGAR,
RAJIV GANDHI SALAI,
CHENNAI - 600119

Details about the members of the Program Assessment and Evaluation Committee are shown in Table 10.1.2.4.

	Program Assessment and Evaluation Committee(PAEC)		
Sl. No.	Composition	Category	Member(s)
1	Chairperson	Head of the Institution	Dr.Francis Xavier.J
2	Member	Dean / Academics	Dr. Shaleesha A Stanley
3	Member	Professor & Head / ECE	Dr.J.Jebastine
4	Member	Assistant Professor/ Mech	Dr.J. Paul Chandra Kumar
5	Member	Assistant Professor/CSE	Dr.J.Anitha Gnana Selvi
6	Member	Assistant Professor/IT	Mr.A.Subash Chandar
7	Member	Associate Professor/S&H	Dr.S.Titus
8	Member	Associate Professor/MBA	Dr.S.Akila
9	Member	Exam Cell Incharge	Dr.F.Regan Maria Sundar Raj
10	Member	Librarian	Mr.D.Marikolundu

11	Member	NSS officer	Mr.Sinu Siva Singh
12	Member	Physical Director	Mr.Thangavel

10.1.2. B. The published rules, policies and procedures with year of publication.

The faculty and non-teaching staff handbooks contain the institutions well-written and documented service regulations, processes, and promotional policies. The service standards, regulations, and procedures are provided to faculty and non-teaching staff members together with their appointment letters. Day scholars and hostel residents receive different copies of the student handbook, and the information in it is distributed at student gatherings. On the college website, a copy of the handbook that contains the rules, policies, and procedures is accessible.

Below are the main points of the welfare programs offered to faculty members and non-teaching staff members.

For Faculty Members:

- Providing Provident Fund (PF)
- Female faculty members are given a maximum of six months of paid maternity leave, with the first month being paid at full salary and the second at half compensation. Tax deductions are allowed on salary and benefits.
- 12 days of unpaid leave every year in addition to vacation. Every Month 2hours Permission is allowed.
- Promotion and increments are given based on the performance appraisal.
- Cash awards and Certificate of Appreciation for academic excellence Reward for producing 100% results in Teachers Day Celebration.
- Sponsoring the registration fee, boarding expenses and travel expenditure for participation in FDP/Workshop/STTP etc., Sponsoring the online course.
- Sponsoring the registration fee for Patent filing.
- Faculty members seeking a Ph.D. will be granted Special Leave. Incentive for publication of research articles in conferences and publications.
- An honorarium of 2% of the total grant will be paid to the Principal Investigator/Co-Investigator of the funded project, with a maximum of Rs. 2.0 lakh. In the case of Consultancy funding, the Investigator is entitled to an honorarium of 60% of the money collected, with the remaining 40% held by the college.
- Enabling employees to participate in company training programs.
- Opportunities for all faculty members to join relevant Professional Societies.
- Assisting faculty members in delivering/organizing guest lectures, conferences/seminars/workshops/FDPs. Transportation is provided for free.
- Free accommodation and food hostel for residential assistant warden / assistant warden / deputy warden.
- Free medical checkup arranged through NSS, NCC&YRC.
- Wi-Fi internet connectivity.
- Recreational activities.
- Free Transportation and Food.
- Felicitated in college functions for special achievements.

For non-teaching staff members:

- Providing PF and ESI.
- 12 days of unpaid leave every year in addition to vacation. Salary and perquisites are subject to deduction of tax..
- Free Transportation and Food.
- Free medical checkup arranged through NSS, NCC&YRC
- Recreational activities.
- Permission to pursue higher education.
- Free dress materials to all Office Assistants.
- Compliments are given to the non-teaching staff during festival times.

10.1.2. C. Minutes of the meetings and action-taken reports

Table 10.1.2.5 Minutes of meeting and action taken references

Sl. No.	Name of the meeting	Date	Figure No.
1.	Governing Council	05.04.2023	10.1.2.2
2.	Internal quality assurance cell	08.06.2023	10.1.2.3
3	Program Assessment and Evaluation Committee	09.06.2023	10.1.2.4

JEPPIAAR
ENGINEERING COLLEGE

GOVERNING COUNCIL
Minutes of Meeting

Date: 06.04.2023   Time: 11.00 AM

Venue: Conference Hall, JEC

Chairman and Member Present Details:

Sl. No.	Name	Position	Professional Occupation
1	Dr. Regeena Jeppiaar	Chairman	Chairman and Managing Director, Jeppiaar Group of Institutions, Chennai.
2	Dr.Francis Xavier.J	Member Secretary	Principal
3	Dr.Shaleesha A Stanley	Member	Professor, Biotechnology Department.
4	Dr.J.Jebastine	Member	Professor, Electronics and Communication Engineering Department.
5	Dr.R.Jayavel	University Nominee	Professor, Anna University, Chennai.
6	Dr.V.Amalan Stanley	Member	Vice Chair, Scientific and Academic Board, IIBAT, Chennai.
7	Dr.C.Ponnuraja	Member	Scientist E, ICMR-NIRT, Chennai.
8	Dr.S.Vasudevan	Member	Director-Business Development at Institute of Analytics, USA.
9	Mr. Sethuraman Krishnamoorthy	Member	Founder and Managing Director, Prag Robotics Pvt Ltd, Chennai.
10	Dr. Adithya Pothan Raj.V	Member	Lead Architect-Technology, CTS, Chennai.
11	Dr. Arun Kumar	Member	Chief Director, Chettinad Hospitals, Chennai

Members given leave of absence:

1. Dr.R.Jayavel, University Nominee, Professor, Anna University, Chennai.
2. Dr.C.Ponnuraja Member Scientist E, ICMR-NIRT, Chennai.
3. Dr. Adithya Pothan Raj.V Member Lead Architect-Technology, CTS, Chennai.

The Governing Council met on April 6, 2014, at 10 a.m. at the Conference Hall. The Chairman has introduced each member to the other members, greeted everyone, and underlined the significance of the meeting. He informed the members that the Management has supplied the College with enough infrastructure and that the College is off to a promising start. He praised the Faculty members and Principal for their efforts in delivering a fantastic outcome and securing the Top Second place out of 506 Engineering Colleges. He hoped that the Institute would maintain its status and continue to enhance its outcomes.

The Principal formally welcomed the Chairman and all members of the Governing Council before presenting the agenda in detail. The Governing Council studied it item by item and deliberated as shown below. The contents of items changed based on GC Members' suggestions are highlighted and included in the final proceedings.

1.1   To affirm the Institute's mission and vision. Resolution:

Dr. Shaleesha A Stanley informed the Chair that the Institute's goal should include phrases such as quality to represent the importance of NBA certification. Dr.S.Vasudevan, Member, Director-Business Development at Institute of Analytics, USA, advised using phrases such as societal demands.

As a result, the Principal amended the Vision and incorporated it in the approval proceedings.

Mission Resolution:

It was decided that the Mission should be approved as such.

1.2 To approve the 10-year plan and the 5-year plan for short- and long-term goals.

Short-Term Objectives

Resolution:

To boost placement, Dr. Shaleesha A Stanley advised including features on offering corporate-specific training programs. Dr.Francis Xavier.J suggested adding a segment on developing managerial skills.

Long-Term Goals:

Resolution:

To boost placement, Dr. Shaleesha A Stanley advised including features on offering corporate-specific training programs.

Dr.Francis Xavier.J suggested adding a segment on developing managerial skills.

1.2   To approve the Organization Chart

Resolution:

Dr. Regeena Jeppiaar suggested the Principal to change the Organization chart so that positions of similar importance were at the same height. Dr.Shaleesha A Stanley suggested including the jobs of Accounts Officer, Administrative Officer, Head of Corporate Affairs, PRO, and making the ERP Administrator subordinate to the Principal. Dr.J.Jebastine proposed changing the title of Accounts Officer to Finance Officer. Dr. Arun Kumar advised that Assistant Wardens be placed below Deputy Wardens. The Principal emphasized to the members that the Organization Chart depicted shows the current positions, and that if the Institute grows, new positions can be formed and included on the chart.

He stated that existing roles such as Public Relations In Charge and Office Manager cannot be renamed Public Relations Officer and Administrative Officer since the current two employees do not meet the educational and experience requirements for each jobs. He did, however, agree to include such jobs in the organization chart for future growth. The new Organization chart is submitted for approval in the procedure.

1.15   To ratify the appointment of Auditors

Resolution:

It is resolved to approve the same.

1.16   Any other matter with the permission of the Chair

Dr. Shaleesha A. Stanley has proposed, with the Chair's approval, that in order to improve the outcome and placement, a college's adoption plan, which produced the best results, be adopted. The Principal retorted that our Institute has a formal academic framework in place to assist slow learners, provide them the opportunity to advance their knowledge, and ultimately improve the outcome. To improve the outcome, it will be applied more skillfully in the upcoming academic year. A placement officer will be hired during the course of the upcoming year to organize placement in illustrious corporations.

The Principal moved a Vote of Thanks to the Chair and all Members to close the meeting.

Sl. No.	Name	Position	Professional Occupation
1	Dr. Regeena Jeppiaar	Chairman	Chairman and Managing Director, Jeppiaar Group of Institutions, Chennai.
2	Dr.Francis Xavier.J	Member Secretary	Principal
3	Dr.Shaleesha A Stanley	Member	Professor, Biotechnology Department.
4	Dr.J.Jebastine	Member	Professor, Electronics and Communication Engineering Department.
6	Dr.V.Amalan Stanley	Member	Vice Chair, Scientific and Academic Board, IIBAT, Chennai.
8	Dr.S. Vasudevan	Member	Director-Business Development at Institute of Analytics, USA
9	Mr. Sethuraman Krishnamoorthy	Member	Founder and Managing Director, Prag Robotics Pvt Ltd, Chennai.
11	Dr. Arun Kumar	Member	Chief Director, Chettinad Hospitals, Chennai

Principal
PRINCIPAL
JEPPIAAR ENGINEERING COLLEGE
JEPPIAAR NAGAR,
RAJIV GANDHI SALAI,
CHENNAI - 600119

Approved by Chairman

JEPPIAAR
ENGINEERING COLLEGE

INTERNAL QUALITY ASSURANCE CELL
MINUTES OF MEETING

Date & Venue
: 08-06-2023 (10.00 AM to 11.00 PM)
: IQAC Room

Members Present

Dr.M. Regeena Jeppiaar	Member from Management
Dr.Francis Xavier.J	Chairperson
Dr.J.Jebastine	IQAC Coordinator
Dr. Shaleesha A Stanley	Internal Member
Dr.J. Paul Chandra Kumar	Internal Member
Dr.J.Aartha Gnana Selvi	Internal Member
Mr.A.Subash Chander	Internal Member
Dr.S.Tmz	Internal Member
Dr.S.Akila	Internal Member
Dr.F.Regan Maria Sunder Raj	Internal Member
Gokul Sarathy.S	Student
Dr.S.Esther Florence	Alumni
Ms.Sruthy Mani	Member from Industry
A.Murugavan	Councellor, Scrutomachry

The Chairperson Dr.Francis Xavier.J. welcomed the members of IQAC and the agenda of the meeting was taken up.

1. **To confirm the minutes of meeting held 03.01.2022 and 25.03.2022 along withaction taken report.**
Dr.J.Jebastine, IQAC coordinator read the minutes of last meeting held on 03.01.2022 along with action taken report.

2. **Presentation of NAAC DVV report and HEI claims**
Dr. Shaleesha A Stanley, Dean (Academics) presented NAAC review report.

The Chairman and Managing Director appreciated the Core Working Group members, for their efforts in preparing NAAC evidences.

The Chairperson Dr.Francis Xavier.J appreciated the initiatives taken to improve the quality of education by IQAC cell under the guidance of our Chairman and Managing Director.

3. **Review of planned activities of 2022-23.**
Co-ordinator, IQAC presented the planned activities and enlightened the outcomes of AY 2021-22.

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4. **Plan for the academic year 2023-24**
• Tentative Academic schedule to be planned as affiliating University Academic schedule yet to be received for the AY 2023-24.
• Based on the AY 2022-23 EVEN End semester examination time table from affiliating University, special revision/training will be given to students on AY 2022-23 EVEN semester courses during a week before the commencement of Exams.
• Course allotment to faculty based on their competency to be done.
• Time-table to be prepared.
• Organizers of events including seminars and workshops to seek a feedback from participants at the end of the event, so that impact analysis can be done and future events be planned taking into account the suggestions of the participants.
• Faculty members will be encouraged to generate extra-mural funding from granting agencies for conducting faculty development programs/ workshops/ national/ international Conference in the college.
• Further extra-mural funding through submission of research proposals to granting agencies from faculty members will be encouraged.
• To strengthen college's Alumni association, the Chairperson suggested that every department should continue to invite and engage at least 2-4 alumni to interact with the current batch of students.
• ICT workshops to be conducted for teaching and non-teaching staff.
• To strengthen Placement cell, members suggested conducting workshops and career counselling sessions for the students and coordinating with HR departments of various flagship companies and industries to invite them for campus recruitments.
• Innovation and Start-up promotion in campus through Institution Innovation Council (IIC)
• Internal Academic Audit to be conducted at once the college resumes.
• Online Induction Programme to the Freshers – I sem students of AY 2023-24 admission after the admission process are over.

5. **IQAC Internal Audit**
IQAC internal audit will be scheduled based on the Pandemic situation in nearfuture.

6. **Online Enrichment Program for Students & Faculty Members**
• The Chairperson insisted to organize/participate in online Enrichment Program programmes. Also insisted faculty to participate in AICTE-ATAL faculty development programmes.

As a final note, the Chairman and Managing Director asked the class-teachers to conduct online counselling session with the students to manage student's anxiety about their educational/future during this pandemic situation.

Dr.J.Jebastine thanked the members for being present at the meeting and concluded the meeting.

IQAC Coordinator

Principal
PRINCIPAL
JEPPIAAR ENGINEERING COLLEGE
JEPPIAAR NAGAR,
RAJIV GANDHI SALAI,
CHENNAI - 600119

JEPPIAAR
ENGINEERING COLLEGE

Program Assessment and Evaluation Committee
Minutes of Meeting

The Principal (Chairman of the Program Assessment and Evaluation Committee) conducted a meeting with the members of the Management Review Committee at 3.30 pm on 09.06.2023 in principal office and discussed the following items.

Members Present :

Dr.Francis Xavier.J	Head of the Institution
Dr. Shalendra A Stanley	Dean / Academics
Dr.J.Jebastine	Professor & Head / ECE
Dr.J. Paul Chandra Kumar	Assistant Professor/ Mech
Dr.J.Anitha Gnana Selvi	Assistant Professor/CSE
Mr.A.Subash Chandar	Assistant Professor/IT
Dr.S.Titus	Associate Professor/S&H
Dr.S.Akila	Associate Professor/MBA
Dr.F.Regan Maria Sundar Raj	Exam Cell Incharge
Mr.D.Murikolundu	Librarian
Mr.Simi Siva Singh	NSS officer
Mr.Thangavel	Physical Director

Various Points were discussed and the following decisions are taken in the meeting:

1. **Attendance of Student:** It is decided that all those students having less than 75% attendance will not be allowed to appear in Assessment exams and Model exam.
2. **Hostel facility for students having less attendance:** Hostel facility may also be withdrawn from the students having less than 60% attendance.
3. **Reschedule of Model exam :** As reference of university exam timetable the model exam reschedule for 3rd year and 4th year.
4. **Class Test For 1st year Students:** Class test will be conducted for 1st year students.
5. **Parents will be informed by the concerned department about attendance of students having below 75%.**
6. **NBA visit :** In view of Forthcoming NBA Visit Hods have to give requirements in their Labs in end June 2023.

Dean-Academics

10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks : 10.00

A. List the names of the faculty members who have been delegated powers for taking administrative decisions.

- In the shape of several cells and academic organizations, the institution has an integrated structure for quality assurance of both academic and administrative activities. The various committees are managed independently by the relevant academic coordinators. They will oversee the activities and responsibilities of the respective committees and will record action taken reports based on meeting findings on a regular basis. The following are a handful of the significant committees, as well as a list of faculty coordinators/conveners.

- Anti-ragging Committee
- Internal Complaints
- Committee SC-ST Cell
- Discipline Committee

- The Anti-Ragging Committee guarantees the protection of students on college campuses. The Principal chairs the committee, which includes officers, parents, students, and teaching and non-teaching staff members. The anti-ragging squad is formed in accordance with the recently amended Anna University, Chennai affiliation format, which is based on the rules in Appendix 12 of UGC regulations 2013 and clause 4 of AICTE regulations F.No.37-3/Legal/AICTE/2009. Table 10.1.3.1 summarizes the members of the Anti-Ragging committee.

Table 10.1.3.1 Anti-Ragging Committee Members

Sl. No	Name	Category	Profession
1	Dr.Francis Xavier.J	Principal	Principal
2	Mr.Mohamed Nazeer	Member	Police Inspector
3	Ms.Shoba	Member	NGO
4	Mr. Sujith	Member	Student
5	Ms. Sharmila V	Member	Student
6	Mrs.Venkidalakshmi	Member	Student Affairs Exec

The Internal Complaints Committee investigates complaints and concerns of female students and female academic members inside the college. The Principal has the authority to make decisions on complaints presented by the committees Chairperson. It was established in accordance with the Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act of 2013.Table 10.1.3.2 summarizes the members of the Internal Complaints Committee.

Table 10.1.3.2 Internal Complaints Committee Members

S.No	Name	Category	Profession
1	Dr.Francis Xavier.J	Chairperson	Principal
2	Dr.J.Jebastine	Member	Professor and Head, Dept. of Electronics and Communication Engineering.
3	Dr.J.Anitha Gnana Selvi	Member	Assistant Professor/CSE
4	Dr.S.Titus	Member	Associate Professor/S&H

The SC/ST division investigates employee and student complaints and grievances. The committee communicates the scholarship to students and staff and resolves any concerns that may arise. It is laid out in compliance with AICTE/UGC guidelines. The SC-ST cells membership is summarized in Table 10.1.3.3.

SC-ST Cell Members are listed in Table 10.1.3.3

SC-ST Cell (2022-2023)			
Sl. No.	Name	Category	Profession
1.	Mrs. D Jeevitha	Chairperson	Assistant Professor, Department of CSE
2.	Dr.Muthulakshmi	Convener	Assistant Professor, Dept. of Bio-Tech
3.	Mrs.Venkidalakshmi	Member	Accounts

4.	Mr.Shankar	Member	JA
5.	Ms. Madhesh R	Member	II year CSE
6.	Mr. Jothika K	Member	III year CSE
7.	Mr. Tharun Kumar G S	Member	IV year CSE

The Discipline Committee supervises the students professional behavior. Regular meetings are held to ensure that the students professional code is upheld. Monitoring is performed by both teaching and non-teaching faculty members. It is organized in accordance with Anna Universitys guidelines. Table 10.1.3.4 summarizes the members of the discipline committee.

Table 10.1.3.4 Discipline Committee Members

Sl. No.	Name	Category	Profession
Discipline Committee (2022-2023)			
1.	Dr.Francis Xavier.J	Chairman	Principal
2.	Mr.A.Subash Chandar	Member	Asst. Professor , Dept. of Computer Science and Engineering.
3.	Mr. M. Goudhaman	Member	Asst. Professor , Dept. of Computer Science and Engineering.
4.	Mrs. S.Sivagami	Member	Warden (Girls Hostel)
5.	Dr.G.Jagadeesan	Member	Asst. Warden (Boys Hostel)

10.1.3 B. Specify the mechanism and composition of grievance redressal cell:

The Complaints/Grievance Redressal Committee seeks to resolve student complaints or grievances about both academic and extracurricular activities inside the college. Regarding objections brought up by the committee chair, the Principal has the final say in the matter. It is set up in accordance with the AICTE regulations 2012 and the Anna University of Chennais amended affiliation format as published in notification F.No. 37-3/Legal/2012 dated 25.5.2012. Table 10.1.3.5 lists the members of the committee, including the convener, chairperson, faculty members, and assistant wardens. It addresses all forms of complaints and concerns received from students. The breakdown is as follows.

Table 10.1.3.5 Complaints cum Grievance Redressal Committee Members

Sl.No.	Name	Category	Profession
1.	Dr.J.Anitha Gnana Selvi	Chairperson	Assistant Professor/CSE
2.	Dr.S.Titus	Convener	Associate Professor/S&H
3.	Mrs. S.Sivagami	Member	Warden (Girls Hostel)

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

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

The institution has clearly defined policies for delegating financial authority. Department heads and other in-charges of various departments such as libraries, physical education, NSS, extracurricular activities, deputy wardens, and so on. They prepare their departments annual budget, which includes the estimated expenses for expanding the departments infrastructure and labs, providing financial support to faculty members to attend conferences/workshops, paying professional society membership fees, and running various programs such as value-added courses in the college. During budget preparation, the need for any new equipment or software is also taken into account. The budget will be approved by the administrative officer.

The principal and administrative officer have the financial authority to spend Rs. 1.0 lakh per transaction without the approval of the Chairman. A Governing Council led by the Chairman is responsible for deciding the student fee structure as well as compensation revision for faculty members using an effective scaling method. They also make decisions on new laboratory and infrastructure development initiatives.

Through banking transactions, the institution ensures transparency in its financial, academic, and administrative responsibilities. Fee payments, personnel salaries, scholarships, other monetary rewards for students, and vendor payments are all processed through the bank. The Trust oversees the proper operation of the financial and institutional mechanisms. The recognized auditing agency audits the budget and expenditures on a regular basis.

Sl.No.	Positions	Maximum Limit (Rs)	Duration
1.	Principal, Admin Officer	1,00,000	Per transaction
2.	Heads of the Departments	10,000	Per semester
3.	Accountant	10,000	Per semester
4.	Physical Director	5,000	Per semester
5.	NSS, YRC, NCC officer	5,000	Per semester
6.	Lab In-charges	5,000	Per semester
7.	Hostel Deputy Warden	5,000	Per semester
8.	Power House In-charge	5,000	Per semester

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

Institute Marks : 5.00

A. Information on the policies, rules, processes is to be made available on the website:

- The institution has a website and a Facebook page where periodic announcements and statistics are made available to the public and other relevant parties. The website address is https://jeppiaarcollege.org/jeppiaar/ (https://jeppiaarcollege.org/jeppiaar/). The colleges main website disseminates the colleges vision and mission statements, as well as its quality policy. The college website provides information about the Jeppiaar group, admission policies, department information, infrastructure, laboratory facilities, faculty members, placement records, Recruiters, Stakeholders, extracurricular, co-curricular, and research and development activities.The policies, the information on mandatory disclosure and processes are disseminated in the webpage.
- Recent events or programs held at the college, soft copies of weekly publications, information about professional groups, and student achievements and prizes are all available on the website. The public can view Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) on the department web page.The notices for numerous upcoming events and programs are also featured on the home page. Facebook is used to communicate college and departmental events to students, the general public, and alumni. The handbooks, which are distributed to students and faculty members, contain information about college policies, procedures, and processes.
- Circulars about academic and non-academic activities are distributed to students, teaching and non-teaching faculty members on a regular basis. They are also put on the main and department notice boards for general information if necessary. A suggestion box has been installed in the main building and the hostel for students to express their concerns. To facilitate successful communication, the college has established individual e-mail addresses for students and academic members. Newspapers cover a wide range of events.

B. Dissemination of the information about student, faculty and staff:

- Our college website includes a detailed profile of each faculty member. The college website features faculty innovative practices, student innovative projects, co-curricular and extracurricular activities. Banners display the students who were chosen for campus placement and internships. The same information is also shown on the placement notice board and on Facebook. Students accomplishments and accolades are displayed on websites. Students, faculty members, and non-teaching staff met on a regular basis to discuss knowledge. The meeting minutes will be distributed to all stakeholders, including teachers, staff, and students. The daily updates are distributed via email, website, Facebook, and so on.

Students departure information, grade statements, and other emergency information are communicated to their parents using SMS services.

Home Page

https://jeppiaarcollege.org/jeppiaar/ (https://jeppiaarcollege.org/jeppiaar/)

Mandatory Disclosure

https://jeppiaarcollege.org/jeppiaar/# (https://jeppiaarcollege.org/jeppiaar/#)

Admission Policy

https://jeppiaarcollege.org/jeppiaar/academic/ (https://jeppiaarcollege.org/jeppiaar/academic/)

Training and Placement

https://jeppiaarcollege.org/jeppiaar/placements/ (https://jeppiaarcollege.org/jeppiaar/placements/)

Library

https://jeppiaarcollege.org/jeppiaar/library/ (https://jeppiaarcollege.org/jeppiaar/library/)

Research

https://jeppiaarcollege.org/jeppiaar/research-development/
(https://jeppiaarcollege.org/jeppiaar/research-development/)

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

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

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

Table 1 - CFY 2022-23

Total Income 194116090				Actual expenditure(till…): 190703254			Total No. Of Students 1670
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
180940372	0	0	13175718	164269164	26434090	0	114193.57

Table 2 - CFYm1 2021-22

Total Income 117008254				Actual expenditure(till…): 117310935			Total No. Of Students 2103
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
108396306	0	0	8611948	100684133	16626802	0	55782.66

Table 3 - CFYm2 2020-21

Total Income 151539360				Actual expenditure(till…): 146638770			Total No. Of Students 2470
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
140774424	0	0	10764936	125855167	20783603	0	59367.92

Table 4 - CFYm3 2019-20

Total Income 184012080				Actual expenditure(till…): 177953053			Total No. Of Students 3129
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
170940372	0	0	13071708	152717963	25235090	0	56872.18

Items	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till
Infrastructure Built-Up	5524000	5311000	2150000	2049600	2575000	2562000	3125000	3111000
Library	1554000	1491900	930000	923737	1190000	1154672	1300000	1393790
Laboratory equipment	2250000	2149140	1500000	1415904	1780000	1769880	2150000	2149140
Laboratory consumables	18750000	1670250	1150000	1100400	1400000	1375500	1750000	1670250
Teaching and non-teaching staff salary	16000000	1809403	10000000	9552471	12000000	1194058	15000000	1449928
Maintenance and spares	2950000	2839539	1850000	1738990	2200000	2173738	2700000	2639539
R&D	560000	525000	300000	280000	400000	350000	450000	425000
Training and Travel	1450000	1366800	1000000	900480	1150000	1125600	1425000	1366800
	13550000	1320696	9500000	9030468	1150000	1128808	14000000	1370696
Others, specify	0	0	0	0	0	0	0	0
Total	**62588000**	**18483728**	**28380000**	**26992050**	**23845000**	**12834256**	**41900000**	**15576143**

10.2.1 Adequacy of budget allocation (10)

<div style="text-align: right">Institute Marks : 10.00</div>

Since the institution is in a growth phase, college administration has made it a point that funding should not be a barrier to a healthy rate of expansion. A sufficient budget is set aside, and expenditure is closely managed. Under no circumstances should the teaching-learning process be jeopardized due to a lack of funds.

Infrastructure and Major Equipment Purchase

Each department creates a budget at the start of each academic year under the headings of capital goods, recurring items, research and development (R&D), training and travel (Faculty and students), and miscellaneous expenses. The estimated budgets of all departments are aggregated and submitted for approval to the Chairman.

The proposals for infrastructure growth and expansion will be debated in the college academic committee, the IQAC, and the planning and monitoring boards before being formally recommended to the Chairman and Governing Council. The budget will be assigned and spent after GC approval. The costs under this section will be handled by the Jeppiaar Educational Trust, which is the primary contributor to the creation and maintenance of the college infrastructure. From the sanctioned approval, the departments will get their share for the purchase of equipment and other infrastructural development of the respective departments.

As of now, the requested and suggested budgets have been sanctioned and adequately supported by the administration and trust for the colleges development. The facilities have been designed in accordance with the AICTE and Anna Universitys statutory standards. Furthermore, the amenities were designed and supported with the students overall growth in mind.

Employee Cost

This budget covers salaries, wages, and employer contributions to PF and ESI, pre-employment medical charges, employee welfare schemes such as fee concession, benefits, and medical insurance (mediclaim). Since its beginning, the college has maintained a student-staff ratio in accordance with industry standards. The remuneration is paid in accordance with the law. This category received the majority of the funds.

Student Cost

The income also covers the costs associated with pupils. This expense is classified as follows. It does not include the cost of training and placement, which is paid for separately.

Academic Expenses;

The produced cash also covers academic expenses for both faculty and students. The various heads are as follows:

Training and Placement

Training and placement costs are also anticipated solely at the start of the year to provide enough training. It allows pupils to obtain higher placement rates.

Governance/Administration

To cover Anna Universitys statutory expenses, AICTE, the consortium of self-financing engineering institutions, accreditation (NAAC and NBA), and QMS.

Regular Expenses and Maintenance

The Admin Officer develops a projected budget for regular and maintenance expenses at the start of each year, and the consolidated budget proposal is forwarded to the Chairman for approval. The budgeted money is used for monthly expenses and maintenance work. The following titles are included under this budget heading.

Budget preparation and Approval process in JEC

- The department HoDs inform about the circular to department coordinators of various association and activities. The department coordinators prepare budget proposal based on their academic plan and submits for review of HoD in the Department Review Meeting (DRM). The HoD reviews the budget proposal and justifies the requirement with the department coordinators.

- The Physical Education Director of the college prepares a budget proposal considering activities planned for the following academic year. The physical Director consults with team captains of different games and receives their requirement. After reviewing all the requests, the Physical Director prepares the budget proposal and submits it to the MRC for approval.

- The Training and Placement officer develops a budget plan for the academic year, taking into account training and travel expenses for trainers and interviewers, travel expenses for industry visits, hospitality charges, and so on. The budget is submitted to the MRC for approval.

- The College Librarian develops a budget plan based on changes in university regulations, requests from HoDs and faculty members from all departments, and requests from the colleges research coordinator about journal, e-journal, and educational magazine requirements. After gathering all of the prerequisites, the Librarian submits the budget plan to the MRC for approval.

- The colleges Deputy General Manager - Administration Admin Officer creates a budget plan after examining requests from the Deputy wardens of the boys and girls hostels, the transport officer, and the electrical maintenance supervisor. Following the consolidation of all requirements, the Admin Officer submits the budget plan to the MRC for approval.

- Budget requests from all departments, including the Admin Officer, Librarian, and Physical Director, are aggregated and submitted for approval to MRC members. The whole budget plan is discussed in detail during the MRC meeting. Following debate, the budget plan is recommended to the Planning and Monitoring board for approval, with any necessary revisions. If the Committee suggests any adjustments or modifications, the ideas are forwarded to the appropriate department for consideration.

- After considering the complete budget proposal, the Planning and Monitoring Board recommends or forwards it to the Governing Council for approval. The budget proposal that is not supported by the planning and monitoring board is forwarded to the MRC committee for additional consideration.

- The Governing Council approves the budget, which is subsequently sent to all department heads, the administrative officer, the physical director, and the librarian. If the budget proposal is not approved by the Governing Council, it is referred to the Planning and Monitoring Board with the necessary input to make the necessary changes to the proposal.
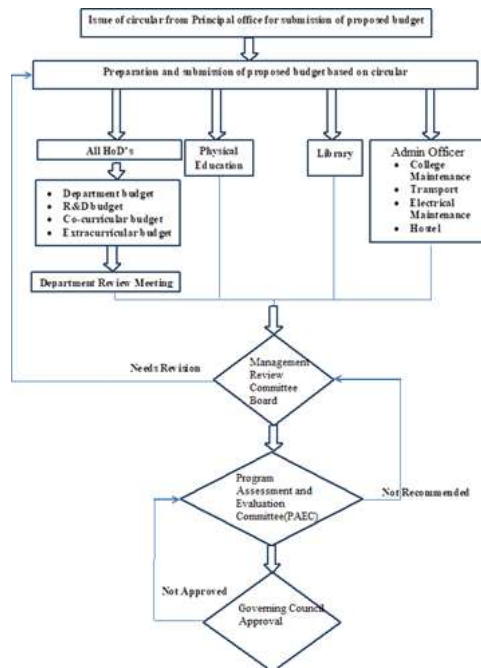
10.2.2 Utilization of allocated funds (15)   Institute Marks : 15.00

The details of expenses utilized under different heads are explained as follows Infrastructure, Library, Laboratory Equipment and other common capital items

The expenditure related to these major items is utilized through Jeppiaar educational Trust under which Jeppiaar engineering college is functioning. The fund is additionally invested by the Trust as part of Social Responsibility for the benefit of students and overall growth of the institutions besides fee collections. Separate audited statements for these expenses are maintained by the Trust. The student fee collection is utilized only for the following expenses

Laboratory consumables

The purchase power below Rs. 1,00,000 per transaction is within the purview of Principal, Vice-principal and DGM(A). Most of the required laboratory consumables are purchased and allocated amount is utilized properly.

Teaching and non-teaching salary

The expenditure related to salary of employee is allocated and utilized based on the yearly requirements. Major portion of the student fee collection is spent towards the employee's salary.

Maintenance and Spares

Sufficient funds are also allocated and utilized for the maintenance of the various items such as electricity, water resource management, sanitary requirements, maintenance and service of laboratory equipment, greenery maintenance, hostel facilities, food etc.,.

R&D

As our college is only a 6 years old institution, our primary focus is on the establishment of teaching-learning process and the required infrastructural facilities. We gradually promote the research and developmental activities in our college and try to improvise R&D map of the college. The utilization with respect to R&D.

Training and Travel

The allocated fund is effectively utilized for both the faculty and students' training and travel activities. The student supportive activities such as value added course, placement training, co-curricular and extra-curricular activities etc., are also utilized from the part of the students' fee collection.

Miscellaneous expenses

The other expenses such as electricity charges, telephone and postage, printing and stationery, audit and accountancy charges, advertisement, interest to bank, student scholarship etc., are utilized under this head.

Other expenses

The expenses related to hostel and transport is mentioned under this head.

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

https://jeppiaarcollege.org/NBA/4.4.1%20Budget%20details%202022%20-%202023.pdf

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 2022-23

7526000		Actual expenditure (till…): 7332176		Total No. Of Students 358
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
3166000	4360000	2750000	4582176	20480.94

Table 2 :: CFYm1 2021-22

6219000		Actual expenditure (till…): 6386500		Total No. Of Students 362
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2919000	3300000	2786000	3600500	17642.27

Table 3 :: CFYm2 2020-21

2225500		Actual expenditure (till…): 2271800		Total No. Of Students 346
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
935500	1290000	649800	1622000	6565.90

Table 4 :: CFYm3 2019-20

2315000		Actual expenditure (till…): 2455000		Total No. Of Students 306
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
780000	1535000	505000	1950000	8022.88

Items	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till
Laboratory equipment	3800000	4000000	2800000	3100000	1200000	1500000	1400000	1800000
Software	400000	382176	380000	350500	50000	42000	35000	30000
Laboratory consumable	160000	200000	120000	150000	40000	80000	100000	120000
Maintenance and spares	25000	12000	22000	18000	15000	12000	10000	9000
R & D	50000	18000	47000	15000	20500	17800	20000	16000
Training and Travel	1490000	1420000	1400000	1397000	400000	300000	350000	200000
	1601000	1300000	1450000	1356000	500000	320000	400000	280000
Total	**7526000**	**7332176**	**6219000**	**6386500**	**2225500**	**2271800**	**2315000**	**2455000**

10.3.1 Adequacy of budget allocation (10)   Institute Marks : 10.00

- The department budget is produced at the start of each academic year under the headings of Capital Goods, Recurring Items, Research and Development (R&D), Training and Travel (Faculty and Students), and Miscellaneous Expenses. Capital items include lab equipment, software, tools, and infrastructure. Lab consumables, maintenance, services, spares, Annual Maintenance Contract (AMC), and licenses are included in the budget for recurring expenses.
- The budget for attending research events (Faculty and Students), organizing research programs (Conferences / Workshops / Seminars / Special lecture / Research Development Programme, purchase of Journals, Magazines, and books / standards / code books / encyclopedia / hand books) is accounted for under the R&D heading. The R&D head also covers seed money for research projects, patent filing, incentives for research achievements, acquiring equipment, and constructing modern R&D laboratories for conducting research operations on campus.

A second heading, Training and Travel, is designated to improve the competency of staff and students. The following activities are sponsored under the Training and Travel category:

- To attend FDP, Short Term Training Programme (STTP) and other training programs. Online Course Fee
- To Conduct Value Added Courses (VAC).
- To Participate in Various National Level Competitions by Students.

The department review meeting discusses budget allocation and adequacy. It is presented to the Principal by the Department Head via the Admin Officer. At the Management Review Committee Board meeting, the proposed budget for each department is discussed.

The Principal recommends the budget to the Chairman for approval.

10.3.2 Utilization of allocated funds (20)   Institute Marks : 20.00

On receiving the Chairman approval, the allocated fund is utilized under the following heads, are done with the support of purchase committee.

- Capital and Consumable Items.
- Annual Maintenance Contract.
- Co-curricular and Extra-curricular Activities.
- Research and Development.
- Training and Travel.
- Miscellaneous Expenses.

Procedure for Using Capital and Consumable Items Funds:

- Finalize the specs for the equipment/consumables to be acquired with the HOD/Department In-Charge/Librarian/Physical Director. The buying committee prepares and maintains a list of approved vendors for the institution based on quality, delivery, and service. The vendors transmit the quotation to the concerned department/in charge through sealed cover or email. Quotations are forwarded to the procurement committee for further processing after they are received (at least from three reputable vendors). The lab in-charge or concerned department prepares a comparative statement based on the quotations. The vendors have been summoned to a meeting with the buying committee to negotiate. If necessary, a final comparable statement is prepared following the negotiation. Terms and limitations are included in the purchase order.
- To ensure timely delivery, the procurement committee follows the vendor. The operational condition of the articles is confirmed by the respective Lab in charges and department heads whenever they are delivered. The specifics of the equipment/items are recorded in the appropriate stock registry. Finally, payment approval has been granted. In the event of a discrepancy, the received items are either returned to the vendors for replacement or rejected by the procurement committee.

Procedure for Using Annual Maintenance Contract Funds:

- The annual maintenance contract information for varied equipment are given to the procurement committee for further decision. The department is responsible for maintaining a list of service providers and monitoring the services supplied.
- At the end of each academic year, the effectiveness of the suppliers is measured based on the quality, delivery, service, and support provided, and the results are submitted to the purchase committee. The lists of approved suppliers are updated based on the input.

Procedure for Using Co-Curricular and Extra-Curricular Activities Funds:

- The annual budget is prepared by the appropriate faculty coordinator based on the suggested annual plan.
- The suggested estimated budget is submitted to The Principal for approval by the respective coordinator via the Administrative Officer and Vice Principal. Following allocation based on appropriate deliberation, it is forwarded to the chairman for approval.
- Following approval, the appropriate coordinator or in-charge uses the funds in a sequential manner in accordance with their annual plan, with the Principals consent. The operations are carried out in accordance with the annual plan and the budget granted.

After the conduct of each activity, the utilization is submitted to the coordinator with the following document:

- Expenditure along with bills.
- Report about the event organized.
- Copy of approval to be enclosed for ready reference.

Procedure for Research and Development Fund Utilization:

- The R&D budget is used to foster R&D culture by constructing modern laboratories and purchasing the necessary materials. The institutes intellectual property is protected by filing a patent. The institute covers the costs of patent filing.
- Under the research promotional expenses heading, the institute pays for research promotional efforts such as publishing articles in journals and presenting papers at conferences. The RIT seed money is used to provide some financial support to research-oriented student projects.

Procedure for Training and Travel Fund Utilization:

- The annual budget is prepared by the Department Head based on the proposed annual plan and faculty performance appraisal recommendations. The suggested estimated budget is presented to The Principal for approval by the Department Head via the Admin Officer. Following allocation based on appropriate consideration, it is forwarded to the Chairman for approval.
- To participate in various programs, the respective faculty should send a permission request letter to the Principal via the respective HOD, along with the following.

    1. Brochure of FDP/Workshop/STTP
    2. Permission letter to use the amount under the Training and Travel expense.

- Following approval, the faculty use the funds to cover registration fees, travel expenses, and boarding charges for FDP/Workshop/STTP as outlined in their annual plan, with the Principals consent. The faculty reports the utilization details to the department with the following documents after attending the FDP/workshop/STTP.

    1. Expenditure along with bills
    2. Participation certificate provided by the organizing institute
    3. Report of FDP/workshop/ STTP attended.

10.4 Library and Internet (20)   Total Marks 20.00

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

Institute Marks : 10.00

DETAILS ABOUT THE LIBRARY

Description	Availability
Carpet Area of Library	24000 Sq.feet
Reading Space	8000 Sq.feet
Number of Seats in Reading Space	195
Average Number of User Transactions Per Day	187
Average Number of Users Per Day	278
Working Days	6 days per week
Weekends and on Holidays (Except National Holidays)	Sunday 1/2 Day
Number of Library Staff	3
Number of Library Staff with a Degree in Library Management	3
Computerization for Search, Indexing, Issue/Return Records	Yes
Library Services on Intranet	Yes
Bar Coding Used	Yes
NPTEL Video Courses	Yes
INDEST or Other Similar Membership Archives	Yes

Table Library Staff Details

S.No	Name	Qualification	Designation
1	Mr.V.MARIKOLUNDU	M.A, MLIS	LIBRARIAN
2	SARASWATHI.R	B.A., MLIS.	ASSISTANT LIBRARIAN
3	DIVYA.D	BSC. MLIS.	LIBRARY ASSISTANT

COMPUTER FACILITIES: 52

INSTITUTIONAL MEMBERSHIPS

1. DELNET

2. ANNA UNIVERSITY LIBRARY

3. NATIONAL DIGITAL LIBRARY OF INDIA

4. NDLI CLUB MEMBER

5. NPTEL COPYING CENTER IIT MADRAS

The library has a rich collection of books on Engineering, Science & Humanities and Besides General collection of books, the Library also has specialized collections that are maintained separately.

At present, the Library has following volumes with titles:

Titles and Volumes

Number of Titles available at present   : 9958

Number of Volumes available at present   : 141459

Details of Number Of Books Available Department Wise

Sl.No	DEPARTMENT	TITLES	VOLUMES
	UG COURSES		
1	B.E.CSE	1248	19539
2	B.E.ECE	1270	20275
3	B.E.MECH	1236	25486
4	B.E.EEE	709	18961
5	B.E.AERO	195	5259
6	B.TECH-[IT]	1213	21822
7	B.TECH-[BIO TECH]	802	9200

8	B.TECH-[AI&DS]	186	2036
9	SCI & HUM	1098	5670
10	GK	153	1143
	PG COURSES		
11	MBA	1626	8502
12	M.E-[CSE]	130	1940
13	M.TECH-[BIO TECH]	92	1626
	Total	**9958**	**141459**

Sl.No	Department	Books	
		Textbook	Reference
1	B.E.CSE	19169	370
2	B.E.ECE	19992	283
3	B.E.MECH	25139	347
4	B.E.EEE	18698	263
5	B.E.AERO	5090	167
6	B.TECH-[IT]	21562	260
7	B.TECH-[BIO TECH]	9127	073
8	B.TECH-[AI&DS]	2013	025
9	SCI & HUM	5483	187
10	GK	-	1143
	PG COURSES		
11	MBA	8333	169
12	M.E-[CSE]	1922	018
13	M.TECH-[BIO TECH]	1609	017
	TOTAL	**138137**	**3322**

Department Wise Textbooks & Reference Books Details

New Titles and Volumes added during the last three assessment years

Description	CAY 2023-24	CAY 2022-23	CAY 2021-22
Number of New Titles added	101	176	164
Number of New Volumes added	1830	3757	5024

Institutional Membership

The college is an Institutional Membership DELNET, Anna University Library, National Digital Library of India, NDLI Club Member, NPTEL IITM, to facilitate the staff and students to borrow books, journals and video programmes that are not available in the institution.

National Digital Library

Web Address : https://ndl.iitkgp.ac.in (https://ndl.iitkgp.ac.in/)

DELNET-

Developing library Network (International Library Network) – avail any book, Xerox or soft copy of any journal article through ILL (Inter Library Loan)

Website: www.delnet.nic.in (http://www.delnet.nic.in/)

Web Address: http://Chennai.useonsulate.gov/resources.html

Anna University Library Web Address: https//annauniv.edu/Library/

05 cards borrow one books, magazines and CD, against each card

Links

E-journals / Books

- DELNET. http://delnet.in/index.htm

Recommended Websites

- NPTEL http://nptel.ac.in/ (http://nptel.ac.in/)
- JSOR https://www.jstor.org/
- *MIT Open Course Ware:*http://ocw.mit.edu/index.htm (http://ocw.mit.edu/index.htm)
- *Harvard* online *courses:* http://www.extension.harvard.edu/open-learning-initiative (http://www.extension.harvard.edu/open-learning-initiative)
- Electronics for You http://electronicsforu.com/newelectronics/default.asp (http://electronicsforu.com/newelectronics/default.asp)

Useful Links to access Online Journals

- Directory of Open Access Journals: http://www.doaj.org/ (http://www.doaj.org/)
- Indian Academy of Sciences (IAS) – 11 free Indian online journals http://www.ias.ac.in (http://www.ias.ac.in/)
- NISCAIR Full Text Journals http://nopr.niscair.res.in/ (http://nopr.niscair.res.in/)
- BENTHAM 175 Open Access Journals http://www.bentham.org/open/a-z.htm (http://www.bentham.org/open/a-z.htm)
- Journal of the Indian Institute of Science http://journal.library.iisc.ernet.in/ (http://journal.library.iisc.ernet.in/) https://link.springer.com/journal/41745
- IETE Journals (Institution of Electronics and Telecommunication Engineers) http://www.ietejournals.or (http://www.ietejournals.or/) https://www.tandfonline.com/loi/tijr20
- (Electronic Journal of University Malaya (EJUM) http://ejum.fsktm.um.edu.my/
- National Institute of Science Communication (NISCOM) http: //www.niscair.res.in
- Springer: https://www.springeropen.com/ (https://www.springeropen.com/)
- Elsevier https: //www.elsevier.com/about/open-science
- Sage Open: http://journals.sagepub.com/home/sgo (http://journals.sagepub.com/home/sgo)
- High Wire Open 320 Journals: http://highwire.stanford.edu/lists/freeart.dtl (http://highwire.stanford.edu/lists/freeart.dtl)
- Hindawi open 200 Journals: https: //www.hindawi.com/journals
- The European Association for Signal Processing EURASIP) Journals: https://www.eurasip.org
- Institute of Physics electronic journals (IOP) 60 e-journals: http://iopscience.iop.org/journalList (http://iopscience.iop.org/journalList)
- Lebanese American University 600 free e-journals: http://libraries.lau.edu.lb/research/databases/ (http://libraries.lau.edu.lb/research/databases/)
- Royal Society Journals: https://royalsociety.org/journals/ (https://royalsociety.org/journals/)
- Sciencedomain International: http://www.sciencedomain.org/ (http://www.sciencedomain.org/)
- ARPN Journal of Science and Technology: http://www.ejournalofscience.org/ (http://www.ejournalofscience.org/)
- IETE Journals (Institution of Electronics and Telecommunication Engineers) http://www.ietejournals.or (http://www.ietejournals.or/) https://www.tandfonline.com/loi/tijr20
- (Electronic Journal of University Malaya (EJUM) http://ejum.fsktm.um.edu.my/
- National Institute of Science Communication (NISCOM) http: //www.niscair.res.in
- Springer: https://www.springeropen.com/ (https://www.springeropen.com/)
- Elsevier https: //www.elsevier.com/about/open-science
- Sage Open: http://journals.sagepub.com/home/sgo (http://journals.sagepub.com/home/sgo)
- High Wire Open 320 Journals: http://highwire.stanford.edu/lists/freeart.dtl (http://highwire.stanford.edu/lists/freeart.dtl)
- Hindawi open 200 Journals: https: //www.hindawi.com/journals
- The European Association for Signal Processing EURASIP) Journals: https://www.eurasip.org
- Institute of Physics electronic journals (IOP) 60 e-journals: http://iopscience.iop.org/journalList (http://iopscience.iop.org/journalList)
- Lebanese American University 600 free e-journals: http://libraries.lau.edu.lb/research/databases/ (http://libraries.lau.edu.lb/research/databases/)
- Royal Society Journals: https://royalsociety.org/journals/ (https://royalsociety.org/journals/)
- Sciencedomain International: http://www.sciencedomain.org/ (http://www.sciencedomain.org/)
- ARPN Journal of Science and Technology: http://www.ejournalofscience.org/ (http://www.ejournalofscience.org/)

Magazine

- The central library is subscribing national and international journals/magazines.

- The issues of the particular volumes are bound together and stacked in the Back volumes section for reference.

- Back volumes are available in the central library.

- Journals/magazines (current issues and back volumes) cannot be borrowed.

Arrangement of Print Resources

- Books are arranged according to subject based on Dewey Decimal Classification (DDC) Scheme.

- Rack guides are provided for book racks

- Periodicals subscribed/received by the library are arranged alphabetically for each programme in current periodical section.

- Back volumes of periodicals are arranged according to alphabetical order of subject in Back volume section.

- UG and PG Project reports are available in the library for reference.

A rich reference collection for referencing within the library is available in the Reference Section.

Non Book Materials CD, Audio Cassette, Video Cassette, Etc...

The following non-book materials are also available in Jeppiaar College Library

S.No	Category	Nos
1.	Educational CDs	1152

Our library provides a sizable collection of Compact Discs and Audio/Videos related to Engineering College and other related courses. All the speeches of top professionals delivered have been archived in the CD ROM format to enable the students and other users to imbibe the thoughts and values adopted by such eminent personalities.

Book Stack Section

This section contains printed books in all areas relevant to the Engineering Education and course curriculum. The books may be borrowed as per the specified circulation policy. Department wise the Books are arranged according to the **Dewey Decimal Classification (DDC)** order.

Circulation Section:

- Circulation section includes issue, return and renewal by the users using their Identity card.
- The Bar coding technology is adapted to each users Identity card and also with library software to speed up the circulation process.
- Students can borrow 7 books at a time and must retain them within a period of 15 days, before the due date.
- Faculty members can borrow 10 books at a time as they might require more books to refer for delivering excellent lectures.

Library Membership

- Membership is automatically conferred to all the faculty members, research scholars or a student on his / her joining the College and remains valid for his full tenure.
- All students are eligible to check out materials for home use, or for use in the library.
- To borrow books from the library you have to activate your membership in the library circulation counter

Loan Periods/ Account Limits

- Category of members, period of loan and number of books are as follows you should take the book you wish to borrow to the Issue Desk. The book will be issued to you and the date it is due for return will be stamped on the date slip inside.
- Enter the details of the book in the register kept in the counter.

Overdue Charges

- Books in loan section are issued as per rules.
- An overdue notice is sent via e-mail when an item is not returned.
- Fines will accumulate each day including Holidays until the item is returned to the library
- An overdue charge of Rs.1/- per day for first five days and thereafter Rs 2/- per day will be charged if the book is not returned.

Renewal

- Most library books, unless reserved for another patron, may be renewed for 2 additional loan periods.
- For renewal a user has to bring books to the Circulation Counter and renew the borrowed books in his/her library account.

Digital Section

The Library boasts an in-house Digital Library, allowing access to all online and digital resources available in the Library.

- E-Journals
- E-Books
- DELNET
- NPTEL
- National Digital Library
- Open Access Journals

10.4.2 Internet (10)   Institute Marks : 10.00

Name of the Internet provider	Hathway pvt ltd
Available band width	100 Mbps
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	100 Mbps
Security arrangements	Cyberoam Firewall

Annexure I
(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	To analyze, design and develop computing solutions by applying foundational concepts of Computer Science and Engineering
PSO2	To apply software engineering principles and practices for developing quality software for scientific and business applications.
PSO3	To adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.

Declaration

The head of the institution needs to make a declaration as per the format given -
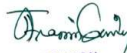
- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute
Name : Dr. J Francis Xavier
Designation : Principal
Signature :

PRINCIPAL
JEPPIAAR ENGINEERING COLLEGE
JEPPIAAR NAGAR,
RAJIV GANDHI SALAI,
CHENNAI - 600119

Seal of The Institution :

Place : Chennai
Date : 06-10-2023 10:30:11