

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Computer Science & Engg.

Part A : Institutional Information

1 Name and Address of the Institution

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING,
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING NIZARA EDUCATIONAL CAMPUS,AVADI I.A.F.,MUTHAPUDUPET,CHENNAI-55

2 Name and Address of Affiliating University

Anna University, Sardar Patel Road, Guindy, Chenna

3 Year of establishment of the Institution:

2000

4 Type of the Institution:

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

5 Ownership Status:

<input type="checkbox"/> Central Government	<input checked="" type="checkbox"/> Trust
<input type="checkbox"/> State Government	<input type="checkbox"/> Society
<input type="checkbox"/> Government Aided	<input type="checkbox"/> Section 25 Company
<input checked="" type="checkbox"/> Self financing	<input type="checkbox"/> Any Other(Please Specify)

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

Name of Institutions	Year of Establishment	Programs of Study	Location
AALIM MUHAMMED SALEGH ACADEMY OF ARCHITECTURE	2011	B.Arch	"Nizara Educational Campus", Muthapudupet, I.A.F Avadi, Chennai - 600 055
AALIM MUHAMMED SALEGH POLYTECHNIC COLLEGE	1996	DIPLOMA	"Nizara Educational Campus", Muthapudupet, I.A.F Avadi, Chennai - 600 055

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	2000	2000	40	Yes	120	Not accredited (specify visit dates, year)	25/03/2011	27/03/2011	Yes	4
INFORMATION TECHNOLOGY	UG	2006	2006	60	No	60	Applying first time	--	--	No	4
ELECTRICAL AND ELECTRONICS ENGINEERING	UG	2000	2000	60	Yes	30	Granted accreditation for 3 years for the period (specify period)	2011	2014	0	4

Sanctioned Intake for Last Five Years for the ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year	Sanctioned Intake
2022-23	30
2021-22	60
2020-21	60
2019-20	60
2018-19	60
2017-18	60

ELECTRONICS AND COMMUNICATION ENGINEERING	UG	2000	2000	60	Yes	60	Granted accreditation for 3 years for the period (specify period)	2011	2014	0	4
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Sanctioned Intake for Last Five Years for the ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year	Sanctioned Intake
2022-23	60
2021-22	60
2020-21	60
2019-20	60
2018-19	120
2017-18	120

CIVIL ENGINEERING	UG	2007	2007	40	Yes	30	Not eligible for accreditation	--	--	0	4
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Sanctioned Intake for Last Five Years for the CIVIL ENGINEERING

Academic Year	Sanctioned Intake
2022-23	30
2021-22	60
2020-21	60
2019-20	60
2018-19	60
2017-18	60

MECHANICAL ENGINEERING	UG	2007	2007	60	Yes	60	Applying first time	--	--	0	4
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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						60					
2019-20						120					
2018-19						120					
2017-18						120					

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	Under Graduate	Engineering & Technology	Information Technology
4	Under Graduate	Engineering & Technology	Mechanical Engg.

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)	42	42	47	47	50	50
Faculty in Engineering (Female)	26	26	29	29	24	24
Faculty in Maths, Science & Humanities (Male)	19	19	23	23	21	21
Faculty in Maths, Science & Humanities (FeMale)	17	17	15	15	15	15
Non-teaching staff (Male)	18	18	18	18	18	18
Non-teaching staff (FeMale)	2	2	2	2	2	2

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	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- PG	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- Polytechnic	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MBA	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MCA	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

Engineering and Technology- UG Shift-1

Items	2022-23	2021-22	2020-21
Total no. of Boys	962	890	851
Total no. of Girls	143	112	109
Total	1105	1002	960

11 Vision of the Institution:

The College with Cutting-edge Excellence in Learning, Teaching and Research integrates Academia, Industry and National Progress.

12 Mission of the Institution:

MISSION - 1	To offer Project based learning for all the Subjects beyond the Syllabus
MISSION - 2	To create Multidisciplinary and Interdisciplinary Research Environment among the Students through solving complex Social Technical Problems
MISSION - 3	To motivate Faculty Members and Students to undergo MOOC Courses and Certifications.
MISSION - 4	To collaborate with Academia and Industry for Intellectual ambience to develop intellectual environment holistically and improve Human Capabilities.

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

Head of the Institution	
Name	PROF. DR. S. SATHISH
Designation	PRINCIPAL
Mobile No.	9894260193
Email ID	principal@aalimec.ac.in

 NBA Coordinator, If Designated

Name	Prof. Dr. N. PRABHAKARAN
Designation	Associate Professor/ECE
Mobile No.	9790780124
Email ID	drprabhakaran@aalimec.ac.in

PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	104.26
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	143.23
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	47.40
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
Total		1000	894

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	The College with Cutting-edge Excellence in Learning, Teaching and Research integrates Academia, Industry and National Progress.											
Mission of the institute	MISSION - 1	To offer Project based learning for all the Subjects beyond the Syllabus										
	MISSION - 2	To create Multidisciplinary and Interdisciplinary Research Environment among the Students through solving complex Social Technical Problems										
	MISSION - 3	To motivate Faculty Members and Students to undergo MOOC Courses and Certifications.										
	MISSION - 4	To collaborate with Academia and Industry for Intellectual ambience to develop intellectual environment holistically and improve Human Capabilities.										
Vision of the Department	<p>A. Availability of the Vision & Mission statements of the Department To produce eminent Software Engineers through teaching state-of-art programming paradigms and Emerging Technologies with Professional Ethics. B. Appropriateness/Relevance of the statements 1. Students are motivated to do online certification courses such as NPTEL, Coursera, etc. 2. To achieve our target vision and mission, many students are encouraged to take up multi-disciplinary projects in the final year and they are also encouraged to do internship projects in the industry. 3. To excel in industry level students are trained in Current technologies through Symposiums, Guest lecturers, Seminars, Workshops and many events in Inter and Intra Department level. C. Consistency of the Department Statements with the Institute Statements 1. Department Mission 1 (Keyword: Self-blended learning model) and Mission 3 (Keyword: Continual Learning) are mapped with Institute Mission 1 (Keyword: Project-based Learning). 2. Department Mission 2 (Keyword: Problem-solving, Multidisciplinary), Mission 3 (Keyword: Intellectual Property Rights) and Mission 4 (Keyword: Entrepreneurial aspirants) are mapped with Institute Mission 2 (Keyword: Multidisciplinary, Social technical problems) and Mission 4 (Keyword: Intellectual Ecosystem, Human Capabilities). 3. Department Mission 1 (Keyword: Self-blended Learning Model), mapped with Institute Mission 3 (Keyword: Certification Courses).</p>											
Mission of the Department	<table border="1" style="width: 100%;"> <thead> <tr> <th>Mission No.</th> <th>Mission Statements</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>To up-skill the graduates, Self-blended learning model-based teaching methodologies were adopted.</td> </tr> <tr> <td>M2</td> <td>To develop, High degree of creativity and Problem-solving Skills, Multidisciplinary research activities were focused.</td> </tr> <tr> <td>M3</td> <td>To create knowledge about Intellectual Property Rights, Digital and Cyber Ethics through Continual Learning.</td> </tr> <tr> <td>M4</td> <td>To support, Entrepreneurial aspirants throughout the journey.</td> </tr> </tbody> </table>	Mission No.	Mission Statements	M1	To up-skill the graduates, Self-blended learning model-based teaching methodologies were adopted.	M2	To develop, High degree of creativity and Problem-solving Skills, Multidisciplinary research activities were focused.	M3	To create knowledge about Intellectual Property Rights, Digital and Cyber Ethics through Continual Learning.	M4	To support, Entrepreneurial aspirants throughout the journey.	
Mission No.	Mission Statements											
M1	To up-skill the graduates, Self-blended learning model-based teaching methodologies were adopted.											
M2	To develop, High degree of creativity and Problem-solving Skills, Multidisciplinary research activities were focused.											
M3	To create knowledge about Intellectual Property Rights, Digital and Cyber Ethics through Continual Learning.											
M4	To support, Entrepreneurial aspirants throughout the journey.											

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

Total Marks 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Graduates apply knowledge in varied areas of Higher Education, Research, Design and Development and Industry specific to course work.
PEO2	Graduates excel in Programming and Soft Skills along with Project Management Capabilities.
PEO3	Graduates to deal with contemporary issues through Continual Learning and enhance Career Advancement.
PEO4	Graduates practice Professional Ethics for good working ambience.

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

Total Marks 10.00

A. Adequacy in respect of Publication and Dissemination

The Vision and Mission statements of the Department and PEOs are published and propagated among the Stakeholders as follows

1. **Institute Website:** <https://www.aalimec.ac.in/> (<https://www.aalimec.ac.in/departments/cse/>)

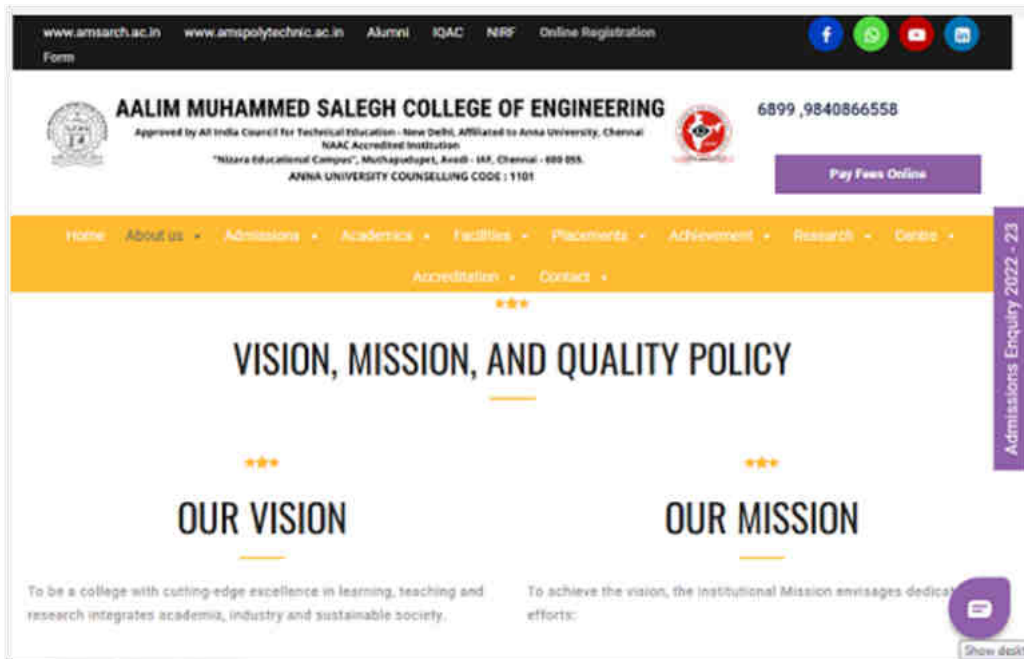


Figure.1.1 Institute Website

2. **Department Web page:** <http://www.aalimec.ac.in/departments/cse/#cse-vision&mission> (<http://www.aalimec.ac.in/departments/cse/#cse-vision&mission>)

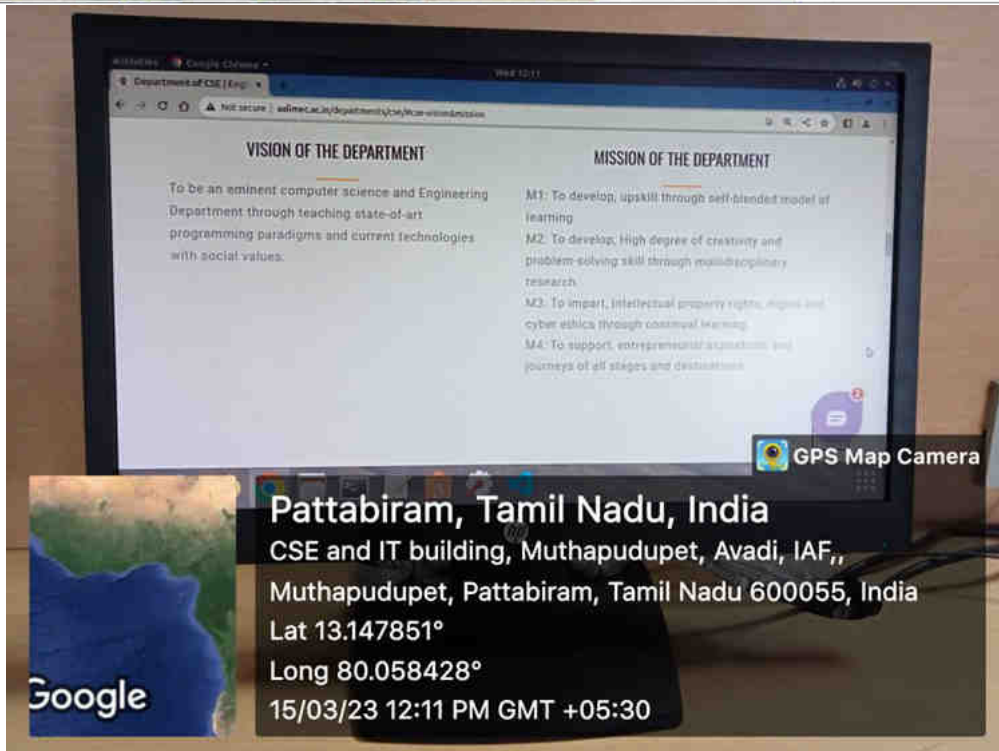
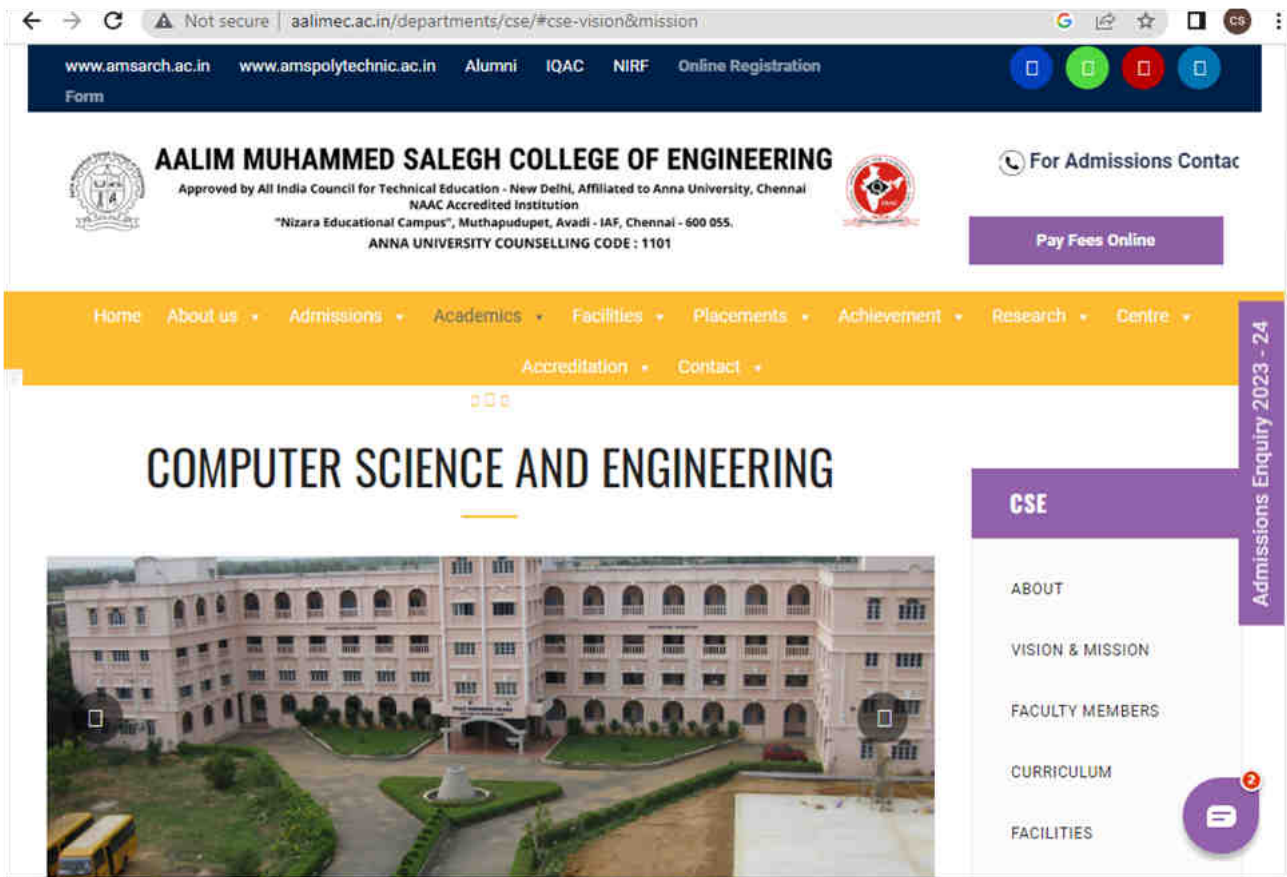


Fig.1.2 Department Web Page

3. Displayed in HOD's room



Figure 1.3 HOD Room

4. Displayed in the Staff room



Figure 1.4 Faculty Room

5. Displayed in corridors

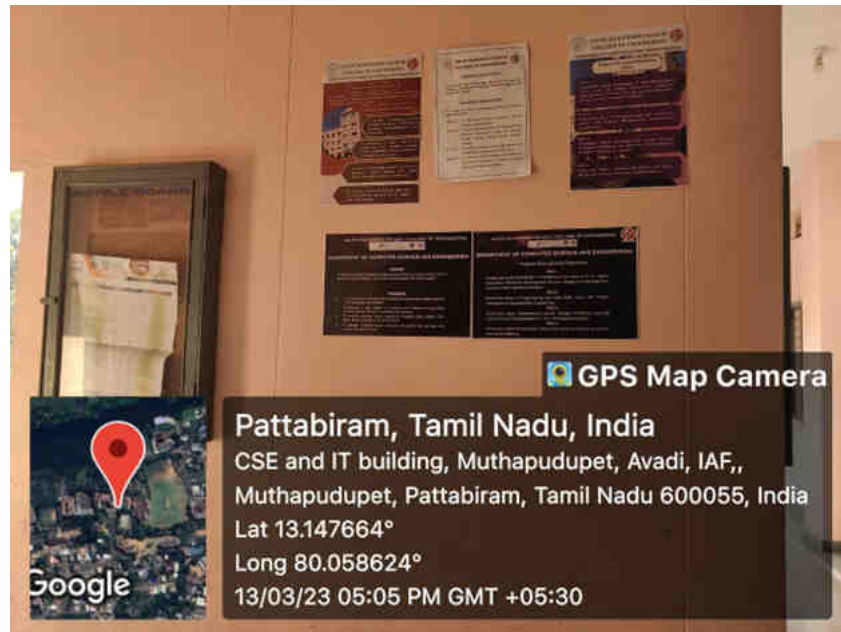


Figure 1.5 Department Corridor

6. First-day of Orientation Program



Fig.1.6 Orientation Program for First Year on 09.11.22 (Displayed in Backdrop)

7. Displayed in Student WhatsApp Groups, Google Classrooms

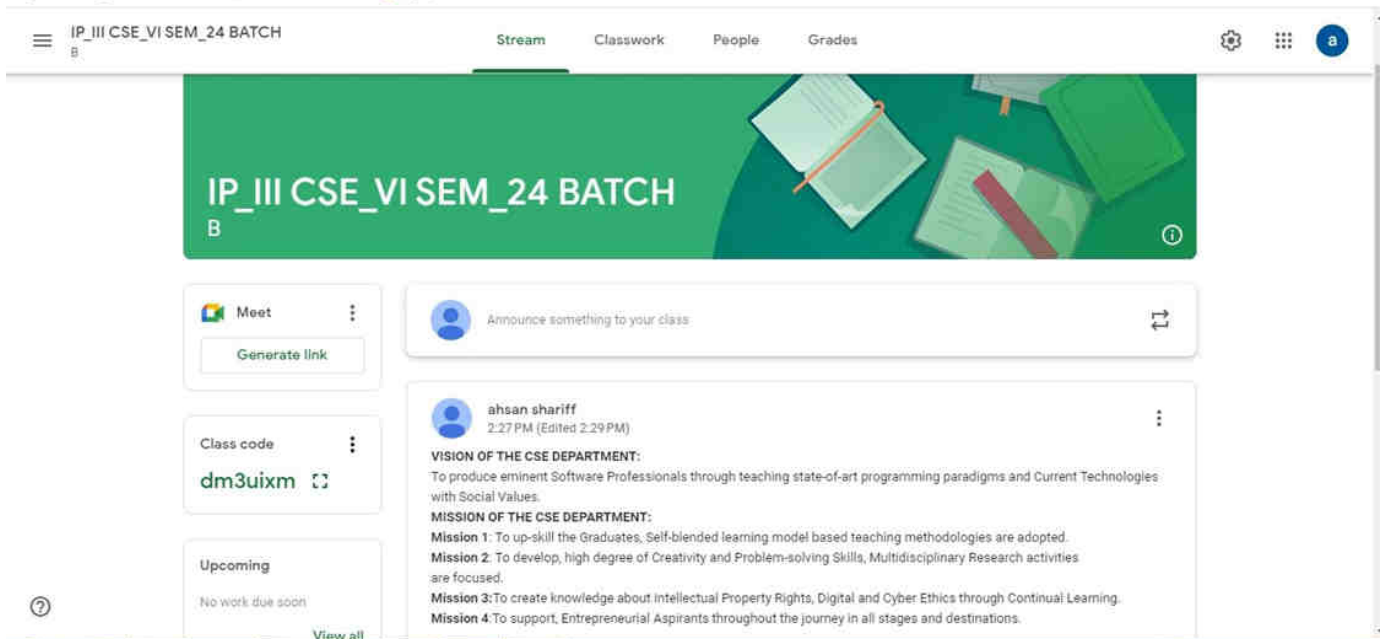
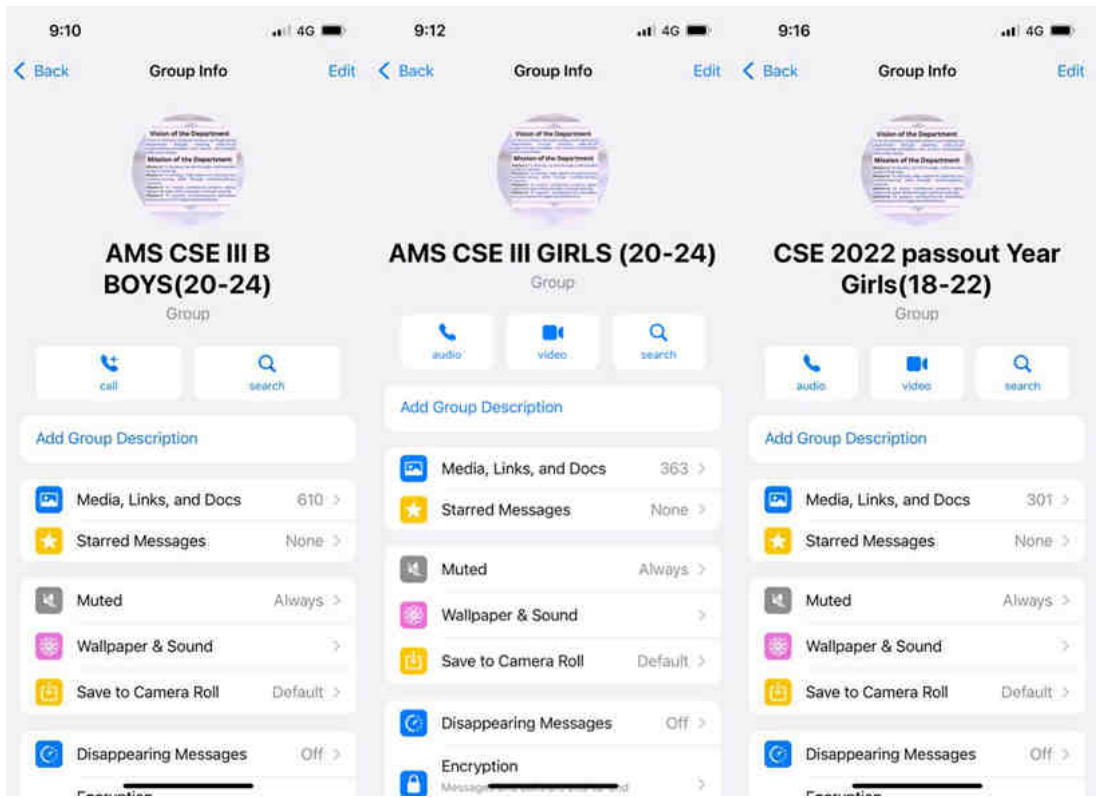


Fig.1.7 Students WhatsApp Group & Google Classroom

8. Displayed in Gmail Signature

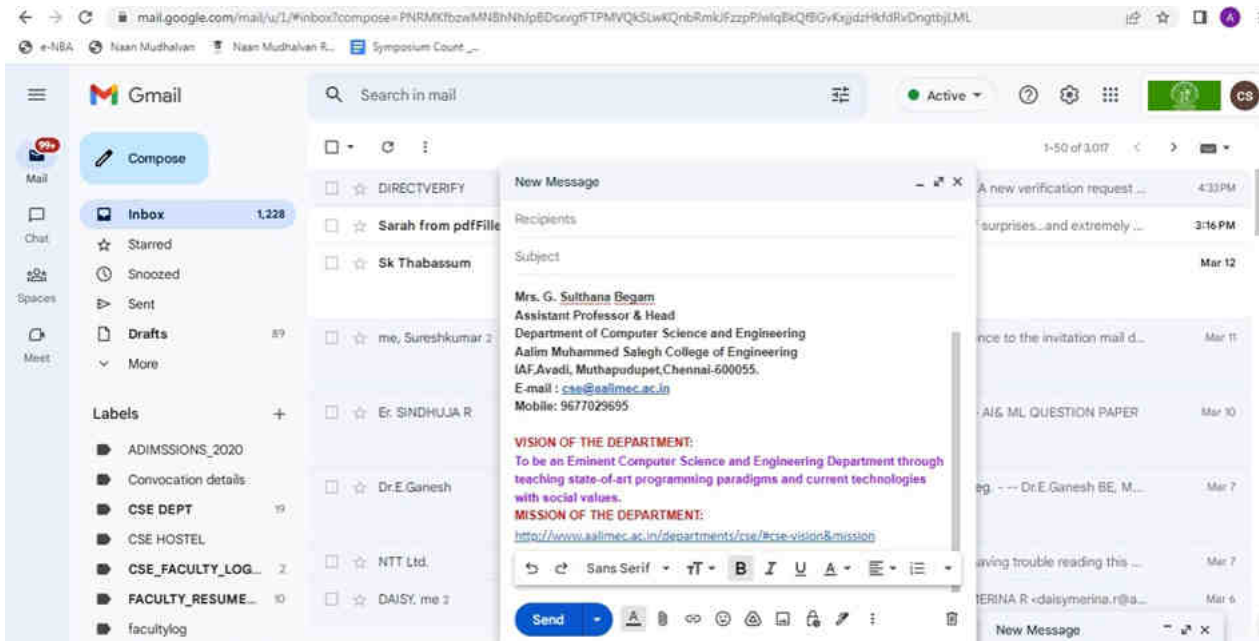


Fig.1.8 Displayed in Gmail Signature (Department mail id)

9. Workshops/ Seminars/ FDPs organized

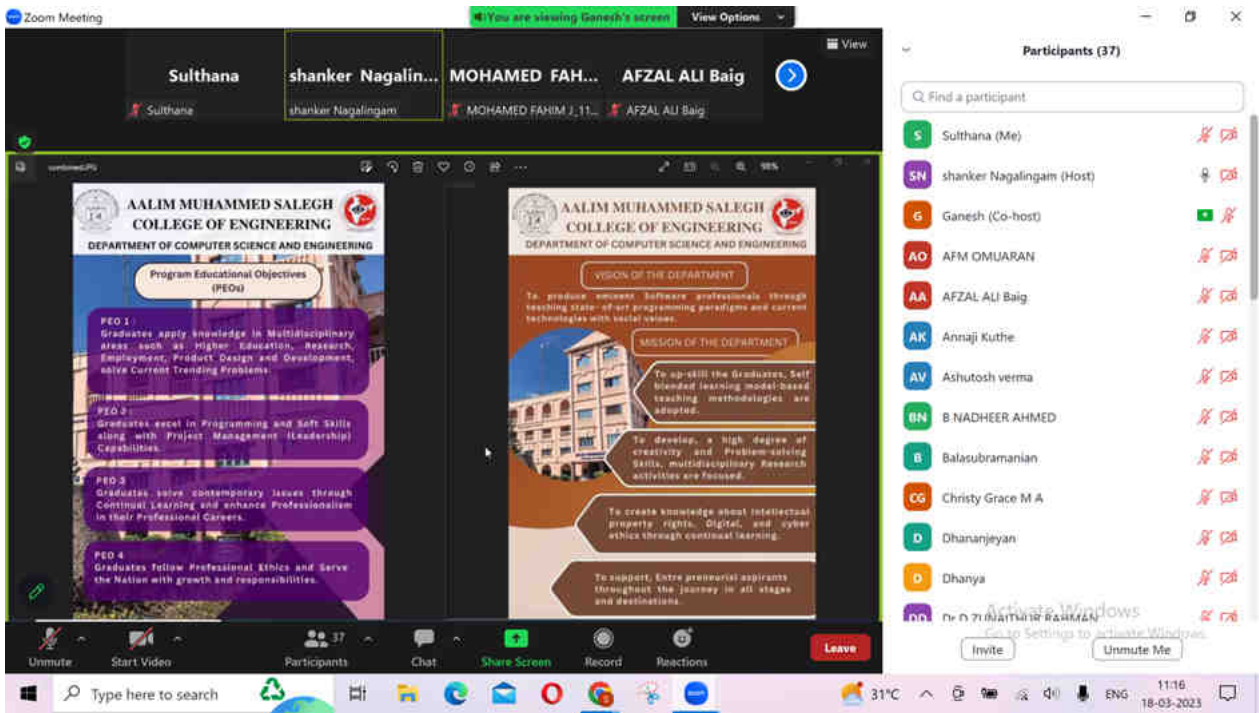


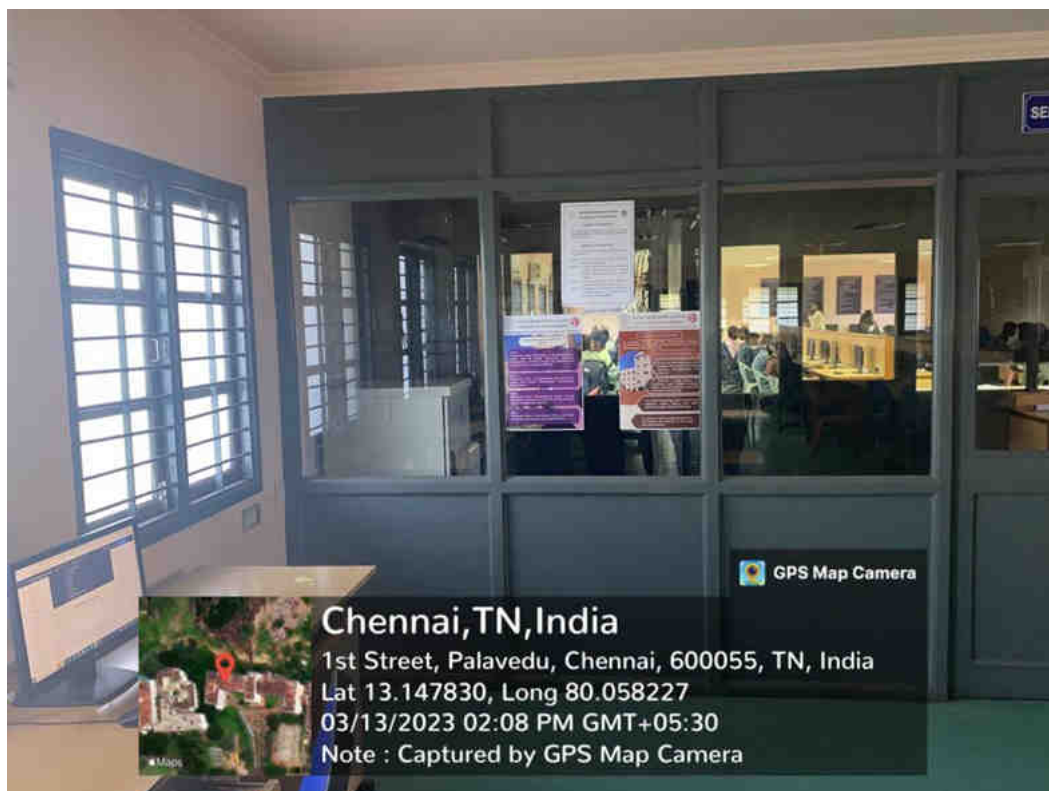
Fig.1.9 Dissemination of Vision , Mission& PEOs in FDP

10. Displayed in Classrooms



Fig.1.10 Class Room

11. Displayed in Laboratory and as screen savers in Laboratory Computers



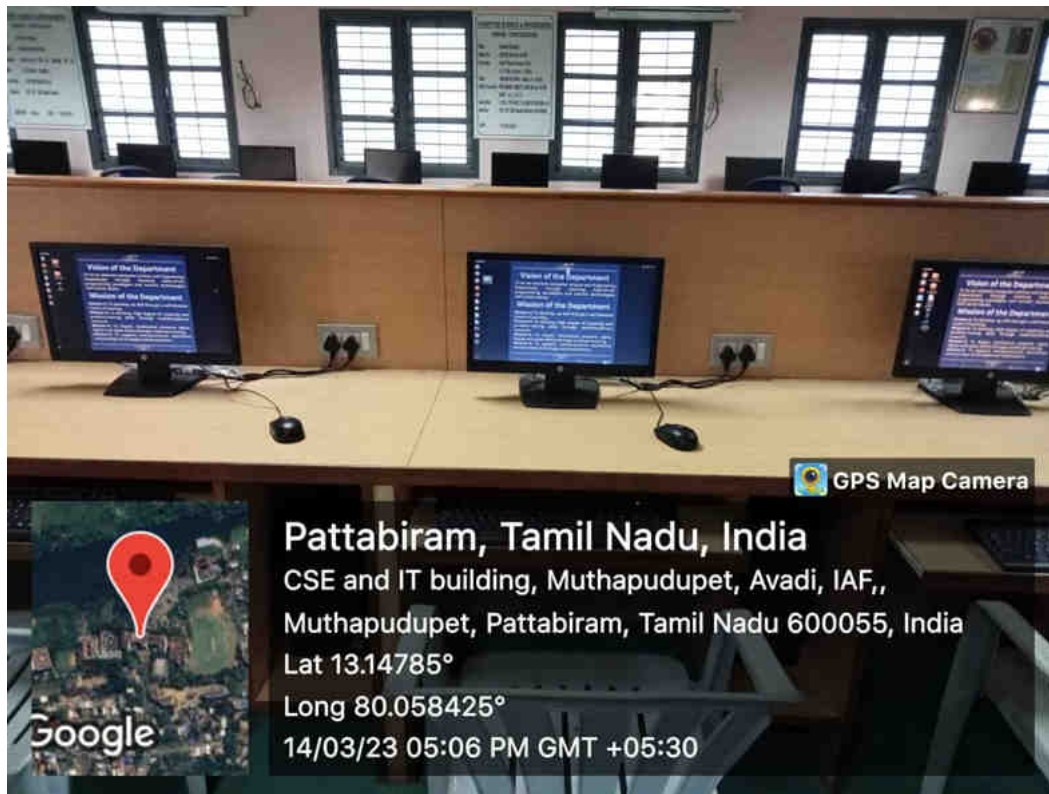


Fig. 1.11 Department Laboratory and as Screen Saver in computer

12. Displayed in Laboratory Manuals & Record

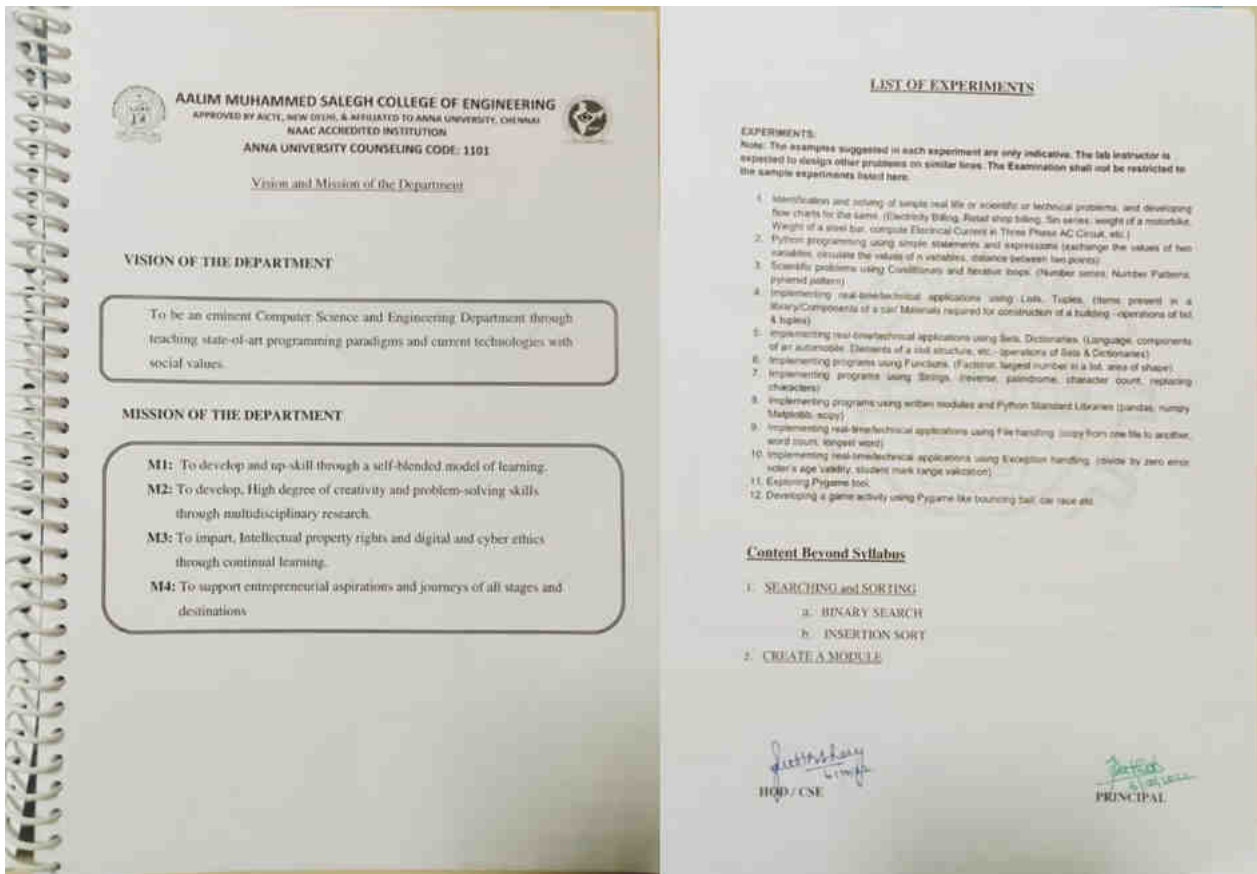


Fig. 1.12 Laboratory Record

13. Displayed in Notice Boards

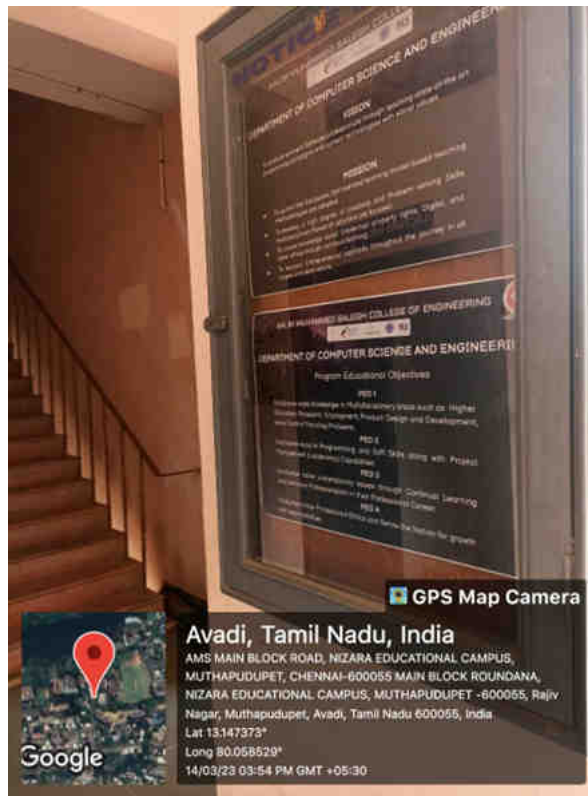


Fig. 1.13 Department Notice Board

14. Included in Course Files

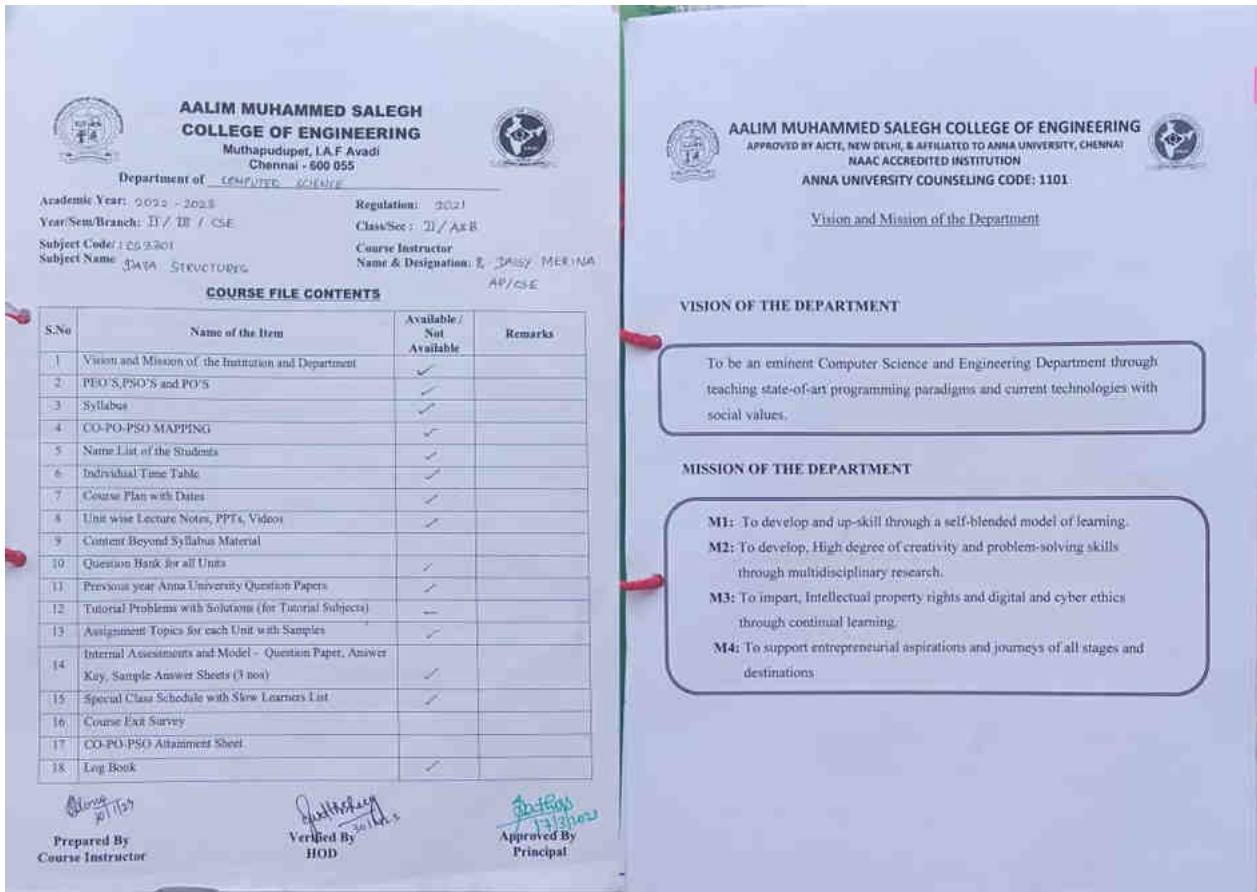


Fig. 1.14 Course File

B. Process of Dissemination among Stakeholders

The Vision, Mission of the institute, Department and PEOs are communicated to Faculty and Students (newcomers) in an introductory meeting. Faculties are aware through discussions in regular meetings and Department Advisory Committee (DAC) meetings. Faculty includes the Vision and Mission of the Institute, Department and PEOs in their course file and communicates the same to the Students. The same is brought to the notice of the Employers, Parents and Alumni through Department Newsletters and discussed in Parent – Teacher Meetings.

DAC Meeting

1. Department Faculty Meeting
2. Workshops/ Seminars/ FDPs organized
3. Orientation Day and other Admission meetings.
4. Parent Teacher Meetings
5. Course Committee Meetings
6. Alumni Meetings-Annual
7. Meetings with Industry Stake Partners
8. Guest Lecturers organized by Department

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

The Vision, Mission, PEOs and PSOs are disseminated to the Stakeholders (internal and external) of the program through Faculty meetings, Orientation day meetings, Alumni meetings, and interaction with Industry persons.

List of Stakeholders of the program:

1. Students
2. Alumni
3. Parents and Society
4. Faculty and Staff Members

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

Total Marks 25.00

The Vision and Mission statements of the department are drafted through a thorough deliberation process involving the stakeholders (Internal and External) of the department. The inputs from the stakeholders were considered in framing the Vision and Mission Statements of the department aligned with the Institutional Vision and Mission Statements.

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

Step 1	In the Initial phase, The Head of the Department, along with the faculty members delineates the Vision and Mission of the department based on Vision and Mission of the Institute, Graduate Attributes and Internal & External Stakeholders suggestions.
Step 2	The prepared Initial draft has been kept for the discussion and approval of the Department Advisory Committee(DAC). Based on the suggestions, the initial draft further updated and submitted to Internal Quality Assurance Cell (IQAC)
Step 3	IQAC gives its suggestions and approves the vision and mission of the department, and if IQAC recommends the corrections in the statement, then the process starts from step 2.
Step 4	The finalized draft is published as mentioned in Section 1.3.

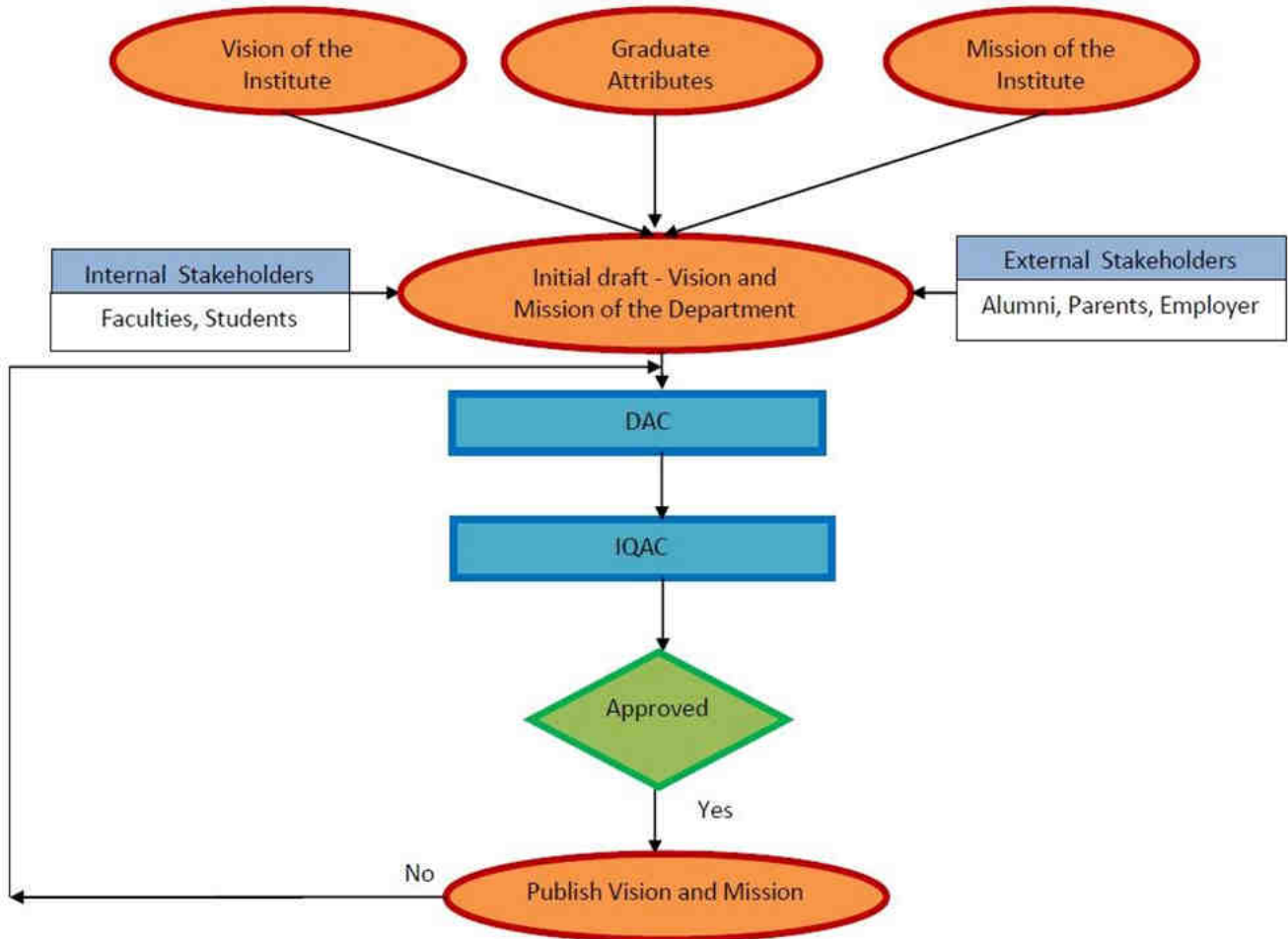


Figure.1.15 Process for defining Vision and Mission of the Department

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

The Program Educational Objectives are framed through a consultation process involving the core members such as students, alumni, industry, faculty and employers. The PEOs are established through the following process steps:

Step 1: In the Initial phase, The Head of the Department, along with the faculty members, frames the Initial draft of the Program Educational Outcomes, which are aligned with the Vision, and Mission Statements of the department and Institution. Also, the views of internal and external Stakeholders are collected through Questionnaire mode and the valuable points are included.

Step 2: The prepared Program Educational Outcomes has been kept for the discussion and approval of the Department Advisory Committee(DAC). Based on the suggestions, the PEOs further updated and submitted to Internal Quality Assurance Cell (IQAC).

Step 3: IQAC gives its suggestions and approves the vision and mission of the department, and if IQAC recommends the corrections in the statement, then the process starts from step 2.

Step 4: The finalized draft is published as mentioned in Section 1.3.



Figure 1.16 Process for defining Program Educational Objectives

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

Total Marks 15.00

A. Preparation of Matrix of PEOs and Elements of Mission Statement.

MISSION 1: To upskill the Graduates, Self-blended learning model based teaching methodologies were adopted.

MISSION 2: To develop, High degree of creativity and Problem-solving Skills, Multidisciplinary Research activities were focused.

MISSION 3: To create knowledge about Intellectual Property Rights, Digital and Cyber Ethics through Continual Learning.

MISSION 4: To support, Entrepreneurial Aspirants throughout the academic journey.

Table 1.1: Consistency of PEOs with Mission of the Department

PEOs STATEMENTS	MISSION STATEMENTS			
	MISSION 1	MISSION 2	MISSION 3	MISSION 4
AFTER 3-5 YEARS OF COMPLETION OF THE PROGRAM THE STUDENTS CAN HAVE THE ABILITY TO				
Graduates apply knowledge in varied areas such as Higher Education, Research, Design and Development and Industry specific to course work.	3	3	2	1
Graduates excel in Programming and Soft Skills along with Project Management Capabilities.	3	3	3	1
Graduates to deal with contemporary issues through Continual Learning and enhance Career Advancement.	3	3	2	1
Graduates follow Professional Ethics and for good working ambience.	1	2	3	2

Note: M1, M2, M3 and M4, are distinct elements of the Mission statement.

Correlation levels are

1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High)

B. Consistency / Justification of Co-Relation Parameters of above matrix.

Table 1.2 PEO-Mission Justification

PEO	MISSION	JUSTIFICATION FOR MATRIX
PEO1	M1	Strongly correlates to provide in-depth knowledge on fundamentals of Computer Science and Engineering.
	M2	Strongly correlates with developing, High degree of creativity and problem solving skills through multidisciplinary research.
	M3	Moderate correlates with imparting Intellectual property rights, digital and cyber ethics through continuous learning.
	M4	Slightly correlates to support entrepreneurial aspirations and journeys of all stages and destinations.
PEO2	M1	Strongly correlates with developing soft-skill ideas.
	M2	Strongly correlates with developing problem-solving skills.
	M3	Strongly correlates with developing Continuous learning.
	M4	Slightly correlates the students need to be taught to have good knowledge, high interaction with industries and the external world with moral values and ethics.

PEO3	M1	Strongly correlates students will know the importance of continuous learning.
	M2	Strongly correlates, Continuous learning is achieved through Multidisciplinary research.
	M3	Moderately correlates, Creating moral and ethical values through Continuous learning.
	M4	Slightly correlates to support entrepreneurial aspiration.
PEO4	M1	Slightly correlates to achieve ethical and moral values needs some self-blended learning.
	M2	Moderately correlates to solve a problem related to ethics.
	M3	Strongly correlates with attaining digital and cyber ethics through continuous learning.
	M4	Moderately correlates which possess moral and ethical values in serving the nation with higher responsibilities.

Mathematics:

Absolutely essential for the foundation in science, technology and engineering (PEO 1) Used as an important tool to address engineering design challenges (PEO 2 Necessary for professional development (PEO 3).

Basic Science:

Absolutely essential for foundation (PEO 1)substantially required for PEO 2 & moderately required for PEO 3 and PEO 4.

Engineering Science:

Absolutely essential for foundation, professional development and studies (PEO 1, 2 & 3 and 4).

Humanities:

Substantially required for addressing social challenges (PEO 4) Substantially required for Professionalism and responsibility (PEO 3).

Professional Core (Analytic):

Some courses in the professional core are analytical. These are essential for a sound foundation in engineering (PEO 1).

The courses are required for addressing engineering challenges (PEO 2) and are also essential for graduate professional studies (PEO 3 and PEO 4).

Professional Core (Practice):

There are certain courses in the professional core that relate to engineering practice. Courses including the project using modern tools and discussing the engineering solutions are included in this category. These are strongly related to PEO 2.

Professional Core (Design):

These are design-oriented courses using both science and technology. These are substantially related to PEO 1 and PEO 2.

Programme Electives:

These elective courses are inclined towards a particular area. Students choose the courses in this category to enhance their knowledge in a particular area of interest. Since there are all kinds of courses in this category, but they are not foundation courses, they relate **heavily** to PEO 1, 2, 3 & 4.

Open Electives:

These elective subjects are broad-based courses and generally give the students multidisciplinary knowledge, often related to a different discipline. These are highly related to PEO 2 as a broad-based knowledge is required for addressing social challenges. The elective courses are **moderately related** to PEO 3 and PEO 4.

PEO Statements	M1	M2	M3	M4
Graduates apply knowledge in varied areas of Higher Education, Research, Design and Development and Industry specific to course work.	3	3	2	1
Graduates excel in Programming and Soft Skills along with Project Management Capabilities.	3	3	3	1
Graduates to deal with contemporary issues through Continual Learning and enhance Career Advancement.	3	3	2	1
Graduates practice Professional Ethics for good working ambience.	1	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 Annexure I. Also mention the identified curricular gaps, if any (10)

Institute Marks : 10.00

A. THE PROCESS USED TO IDENTIFY THE EXTENT OF COMPLIANCE WITH THE UNIVERSITY CURRICULUM FOR THE ATTAINMENT OF POs & PSOs IS AS FOLLOWS

Step 1: Surveys were conducted for Internal Stakeholders (Faculty, Students), External Stakeholders (Alumni, Parents, Employer).

1. Internal Stakeholders: **Faculty members** identify curriculum lags if any, in achieving the Program Educational Outcomes. **Incumbent students and Exit students (CAY)** were also invited for input.
2. External Stakeholders: **Alumni** give suggestions according to the industry **need**. Parent’s suggestions are considered. **Employer** of alumni provides observations about professional competency.

Step 2: Gather all information shared by the Stakeholders.

Step 3: Analyse all the information shared by the Stakeholders.

Step 4: Infer all the information from the Stakeholders and mark them as gaps.

Step 5: Propose the actions to resolve the gaps which Stakeholders share.

Step 5.1: If the proposed actions resolve the gaps go to Step 6, if not perform Step 5 again.

Step 6: Gaps are successfully rectified.

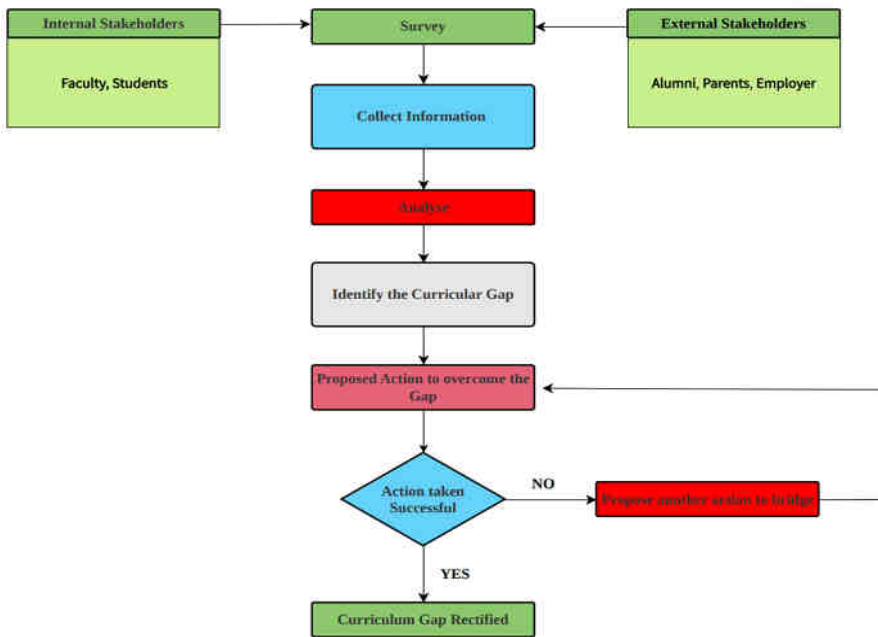


Figure 2.1 The Process used to identify the Curriculum Gaps

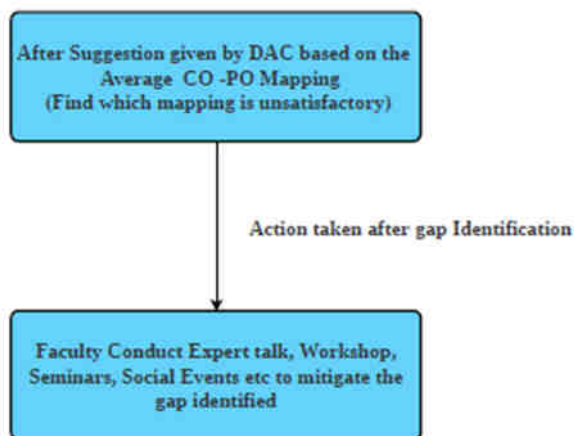


Figure 2.2 Reverse Method to overcome the Gap Identified

Table 2.1 The PO and PSO Articulation Matrix

S.No.	Course Code	Course	MAPPING WITH PROGRAM OUTCOMES (POs)											PSO			
			1	2	3	4	5	6	7	8	9	10	11	12	1	2	
1	C101	Communicative English									1	1	3		1.6	1.33	1.8

2	C102	Engineering Mathematics - I	3	2.2		3		2.2				2.2	3	1	2	
3	C103	Engineering Physics	1.2	1	2	2	1	1	1.6		1.2	1	1.2	1.6	1.8	1
4	C104	Engineering Chemistry	2.25	2				1	1.67		2			2		
5	C105	Problem Solving and Python Programming	3	2.8	3	1	1.25								2.6	1
6	C106	Engineering Graphics	3	3	2	1	2.6	2			1			3	1	1
7	C107	Problem Solving and Python Programming Laboratory	3	3	3	3	3	1	1		2	2	3	3	3	3
8	C108	Physics and Chemistry Laboratory	2	1	1	1	2	1	1.2		1	1	1.5	1	1	2
9	C111	Technical English								1	1.25	3		1.2	1	1
10	C112	Engineering Mathematics – II	2.8	2.8		2.6		1	1.67					2.4	1.5	1.5
11	C113	Physics for Information Science	1.6	1.2	2	1.4	1	1	1		1	1.6	1	2	1.4	1
12	C114	Basic of Electrical, Electronics and Measurement Engineering	1.6	2.4	2.2	2.5	1.75	2	1				1	1.5	1.2	1.4
13	C115	Environmental Science and Engineering	1	1.33	1.33	1.67	2	1.75	1.33	1			1	2.4		3
14	C116	Programming in C														
15	C117	Engineering Practices Laboratory	3	3	3	3	2.2	3	1.8	1	3	3	1	3	2	1.67
16	C118	Programming in C Laboratory	3	3	3	3			1			1	3		3	3
17	C201	Discrete Mathematics	3	3	2	1.6						1.2		3	1.6	1.33
18	C202	Digital Principles and System Design	2.6	2	2.6	1	1.6	0.8				1.8	1.8	1.6	2	2.6
19	C203	Data Structures	3	3	1.4								2	2	3	3
20	C204	Object Oriented Programming	3	2.2	3								1	3	1	3
21	C205	Communication Engineering	3	3	3								2	1	2.6	1.8
22	C206	Data Structures Laboratory	3	2.6	3		2						2.6	3	3	2.2
23	C207	Object Oriented Programming Laboratory	3	3	3		3						3	3	2.8	2.8

24	C208	Digital Systems Laboratory	3	3	2	2	1	0.3					1	1	2	3
25	C209	Interpersonal Skills/Listening & Speaking		1.2	1	1.6	1.2	1	1.2	1.8	3	3	1	2.8	2.8	1.8
26	C211	Probability and Queuing Theory	3	3	3	3								3	3	1.6
27	C212	Computer Architecture	3	3	3	3							1.4	1	3	1.2
28	C213	Database Management Systems	3	2	2.4								1	2.2	3	1
29	C214	Design and Analysis of Algorithms	2.6	3	2.4		2						1.2	1	3	2.8
30	C215	Operating Systems	2.8	2.4	1.5								1	1.4	3	3
31	C216	Software Engineering	3	1.75									1	1	2	3
32	C217	Database Management Systems Laboratory	3	2	2.4								1	2.2	3	1
33	C218	Operating Systems Laboratory	3	2.2	2.5		1.6						1.8	2	2	2.8
34	C219	Advanced Reading and Writing		1.8	1.2	1.6	1.25	1	1.4	1.67	3	3	1	2.6	2.4	1
35	C301	Algebra and Number Theory	3	3	3	2.8	2.4	1.4					1.8	2.4	1	2.2
36	C302	Computer Networks	3	2										2	1.4	1.2
37	C303	Microprocessors and Microcontrollers	2	2	2	1.6	1.6	1	1		1	1.6		1	2	2
38	C304	Theory of Computation	3	3	2.8	3								2	2	1.6
39	C305	Object Oriented Analysis and Design	3	3	2.2	3							2	2.6	2	2.8
40	C306	Geographic Information System	2.6	2.8	2.8	2		2	2	1			2	2.4	1.2	1.6
41	C307	Microprocessors and Microcontrollers Laboratory	2.2	2.8	2	2.6	2.2	1.6	1.6			2.8	1.2	2.8	2.2	2.2
42	C308	Object Oriented Analysis and Design Laboratory	3	2.4	2.4		1.4				2	1.8		2.8	1.6	2.6
43	C309	Networks Laboratory	3	2	2	2	2					3	2	1.8	3	1.6
44	C311	Internet Programming	3	2.2	3								1	3	2	3
45	C312	Artificial Intelligence	3	3	1.8	1	3						1	3	2	2.4

46	C313	Mobile Computing	3	2.2	1.8	2.3	3					2	1.25	1.7	3	
47	C314	Compiler Design	3	2.8	3		3					1.4	2	2	3	
48	C315	Distributed Systems	3	2.8									1	2	1	
49	C316	Data Warehousing and Data Mining	3	3	2.2								1	3	2	
50	C317	Internet Programming Laboratory	3	2.2	3		1					1	3	2	3	
51	C318	Mobile Application Development Laboratory	3	3	3	2	3					2	2	3	3	
52	C319	Mini Project	3	2.6	2.2	1	1.4				1	2.2	3	1.8	2.2	
53	C320	Professional Communication	3	2	1		1		1	1			1.4	2.2	2.2	
54	C401	Principles of Management		3						1.2	0.8		1	1		
55	C402	Cryptography and Network Security	3	2.2								1	1	1.6	1.6	
56	C403	Cloud Computing	3	2	2.5							1	1.25	2.4	2.2	
57	C404	Supply Chain Management	3	1.2		2						2	1.67	2	2	
58	C405	Human Computer Interaction	3	2	2.5					2		3	3	1	3	
59	C406	Software Project Management	3	1	1	2				2	1.33	2.6	3	1	1	
60	C407	Cloud Computing Laboratory	3	2.5	2.2	2.4	2.4					1.2	2	3	2.2	
61	C408	Security Laboratory	3	3	3		2.4					1.2	2	3	2.6	
62	C411	Professional Ethics in Engineering						3	3	3			1			
63	C412	Information Retrieval Techniques	3	1.6	1.6	1							1	2	3	
64	C413	Project Work	3	3	2.3	3	2.5				3	3	2	2	2.8	
Total Correlation Points			159	143	117	73	63	29	23	12	32	40	72	124	124	126
Average contribution in the attainment of POs and PSOs (out of 3)			2.79	2.39	2.3	2.08	1.96	1.45	1.47	1.39	1.76	2	1.61	2.03	2.07	2.1
Average contribution in the attainment of POs and PSOs in terms of Percentage			93	80	77	69	65	48	49	46	59	67	54	68	69	70
Level of contribution in the attainment POs and PSOs			H	H	H	H	H	L	L	L	M	H	M	H	H	H
Note: Contribution of 60% or more is taken as HIGH LEVEL and 50% to 59% contribution is taken as MODERATE LEVEL while less than 50% of attainment level is construed as LOW LEVEL																

B. LIST OF CURRICULAR GAPS FOR ATTAINMENT OF DEFINED POs ANS PSOs

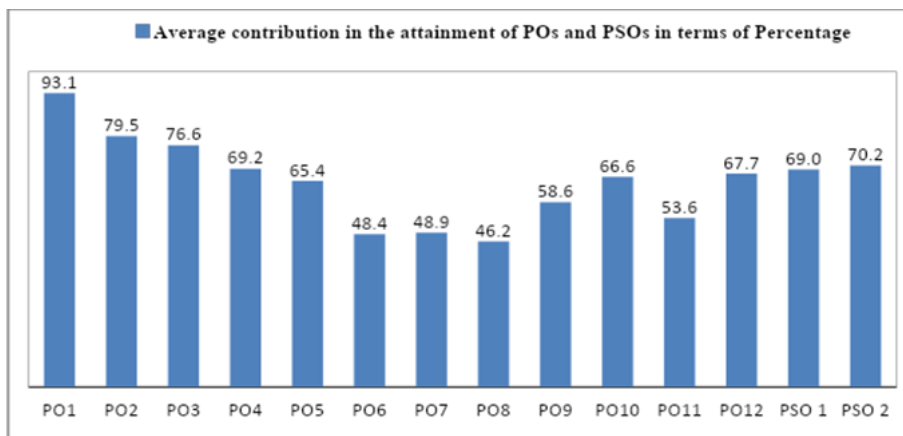


Figure 2.3 R2017 Course Mapping with POs

Table 2.2 Weakly Mapped POs

S.No.	Program Outcomes	Attained Level in Percentage
1.	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.	48.4
2.	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.	48.9
3.	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	46.2

Table 2.3 Subjects Identified by Internal and external Stakeholders

S.No.	Curriculum Gap Identified	Subjects	POs
1.	<p>ALUMNI</p> <ul style="list-style-type: none"> Block Chain technology in security-related areas. Advanced Cyber security and usage of Computer forensics. 	1. Cryptography and Network Security (Semester 7)	PO1 PO2 PO3 PO5 PO7 PO8 PO12
2.	<p>COURSE CO-ORDINATORS</p> <ul style="list-style-type: none"> Google Clouds and Practical aspects of using Cloud application. Data Science and Data Analytics in Industry. Current trends Artificial Intelligence provide better placement opportunities. Machine Learning techniques deep learning applications. 	1. Cloud Computing (Semester 7) 2. Artificial Intelligence (Semester 6) 3. Machine learning techniques (Semester 7)	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO11 PO12

3.	<p><u>INDUSTRY EXPERTS</u></p> <ul style="list-style-type: none"> • Practical aspects of Robotics Automation Internet of Things Hands-on Session. • Practical knowledge of Developing Android Apps. 	<p>1. Microprocessor and Microcontroller (Semester 5)</p> <p>2. Mobile Computing (Semester 6)</p>	<p>PO1</p> <p>PO2</p> <p>PO3</p> <p>PO4</p> <p>PO5</p> <p>PO6</p> <p>PO7</p> <p>PO11</p> <p>PO12</p>
4.	<p><u>SUBJECT EXPERTS</u></p> <ul style="list-style-type: none"> • Writing Journal publications and Technical Writing. • Applying for Intellectual Property Rights. 	<p>1. Technical English (Semester 2)</p> <p>2. Professional Ethics in Engineering (Semester 8)</p>	<p>PO1</p> <p>PO2</p> <p>PO3</p> <p>PO4</p> <p>PO5</p> <p>PO6</p> <p>PO7</p> <p>PO8</p> <p>PO10</p> <p>PO11</p> <p>PO12</p>

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

A. STEPS TAKEN TO GET IDENTIFIED GAPS INCLUDED IN THE CURRICULUM


In addition to the mapping process, the following steps are also taken to identify the gaps in the curriculum:

1. **Course End Survey:** A questionnaire was prepared for each course taught at the end of the semester circulated among students for feedback and treated as indirect assessment for CO attainment.

30/11/2022



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
 AVADI - IAF, CHENNAI-55
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
 Regulation 2017



Course End Survey on POs & PSOs

Academic Year: 2020 - 2021
 Register No: 11012104043

Part-A: PO and PSO attainment for the course:
Theory of Computation

3 - GOOD		2 - AVERAGE			1 - BELOW AVERAGE	
PO	Programme Outcomes (POs)	CO1	CO2	CO3	CO4	CO5
1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	3	3	3	3	3
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	3	3	3	3
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.	3	2	3	3	3
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.			3		3
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 Engineering 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 in 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 in 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.	2	2	3		1
Program Specific Outcomes(PSOs)						
1	Ability to design and program for system applications in engineering and non engineering fields as a team and as individual using cutting edge technologies.	2	2	2	2	2
2	To possess strong theoretical foundation leading to excellence and excitement towards research, to provide elegant solutions to complex problems.	3	1	3		1

Part-B: Relating to Course Outcomes (Kindly note the respective course teacher need to modify this template according to the requirements of the course)

	Strongly Agree (3)	Agree (2)	Disagree (1)
After Completion Of The Automata Fundamentals are You Able To Construct Automata, Regular Expression For Any Pattern?	✓	✓	

After Completion Of The Context Free Grammar And Languages are You Able To Write Context Free Grammar For Any Construct	✓		
After Completion Of The Properties Of Context Free Languages are You Able To Design Turing Machines For Any Language.		✓	
After Completion Of The Properties Of Context Free Languages are You Able To Propose Computation Solutions Using Turing Machines.		✓	
After Completion Of The Undecidability are You Able To Derive Whether A Problem is Decidable Or Not		✓	

Student Sign

[Signature]
 HEAD
 Computer Science & Engineering
 Aalim Muhammed Salegh
 College of Engineering

[Signature]
 PRINCIPAL
 AALIM MUHAMMED SALEGH
 COLLEGE OF ENGINEERING

Figure 2.4 Format of Course End Survey

2. **Graduate Exit Survey:** A questionnaire is prepared by the Department Advisory Committee (DAC) and given to the students at the end of their course to get their feedback on attaining of POs and PSOs. The results are analyzed to see whether the POs and PSOs are strongly or weakly attained.

2021-2022

VALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
AVADI - IAF, CHENNAI-55
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Final Year Students - Exit Feedback on POs & PSOs

Academic Year: 2021-2022
 Register No: 110118104054

PO	Programme Outcomes (POs)	G (3)	A (2)	BA (1)
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 Engineering 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.		✓	
Program Specific Outcomes(PSOs)				
1	Ability to design and program for system applications in engineering and non engineering fields as a team and as individual using cutting edge technologies.	✓		
2	To possess strong theoretical foundation leading to excellence and excitement towards research, to provide elegant solutions to complex problems.	✓		

Shayya
Signature

Justine Key
24/11/22
HEAD
Computer Science & Engineering
Valim Muhammed Salegh
College of Engineering

Justine Key
24/11/22
PRINCIPAL
VALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 2.5 Format of Graduate Exit Survey

The attainment of POs and PSOs for the content beyond the syllabus has been carried over as per the guidelines suggested by DAC. The Head of the Department suggests the methods for disclosing the contents.

B.DELIVERY DETAILS OF CONTENT BEYOND SYLLABUS

The various methods of delivering the content beyond the syllabus are:

1. Guest Lectures and workshops

Table 2.4 List of Guest Lectures, Seminars, Webinars and Workshops

Event	ACADEMIC YEAR			
	2022-2023	2021-2022	2020-2021	2019-2020
Workshop/Guest Lecture/SFDP	3	1	2	7
Webinar/Seminar	6	4	2	1
Total	9	5	4	8

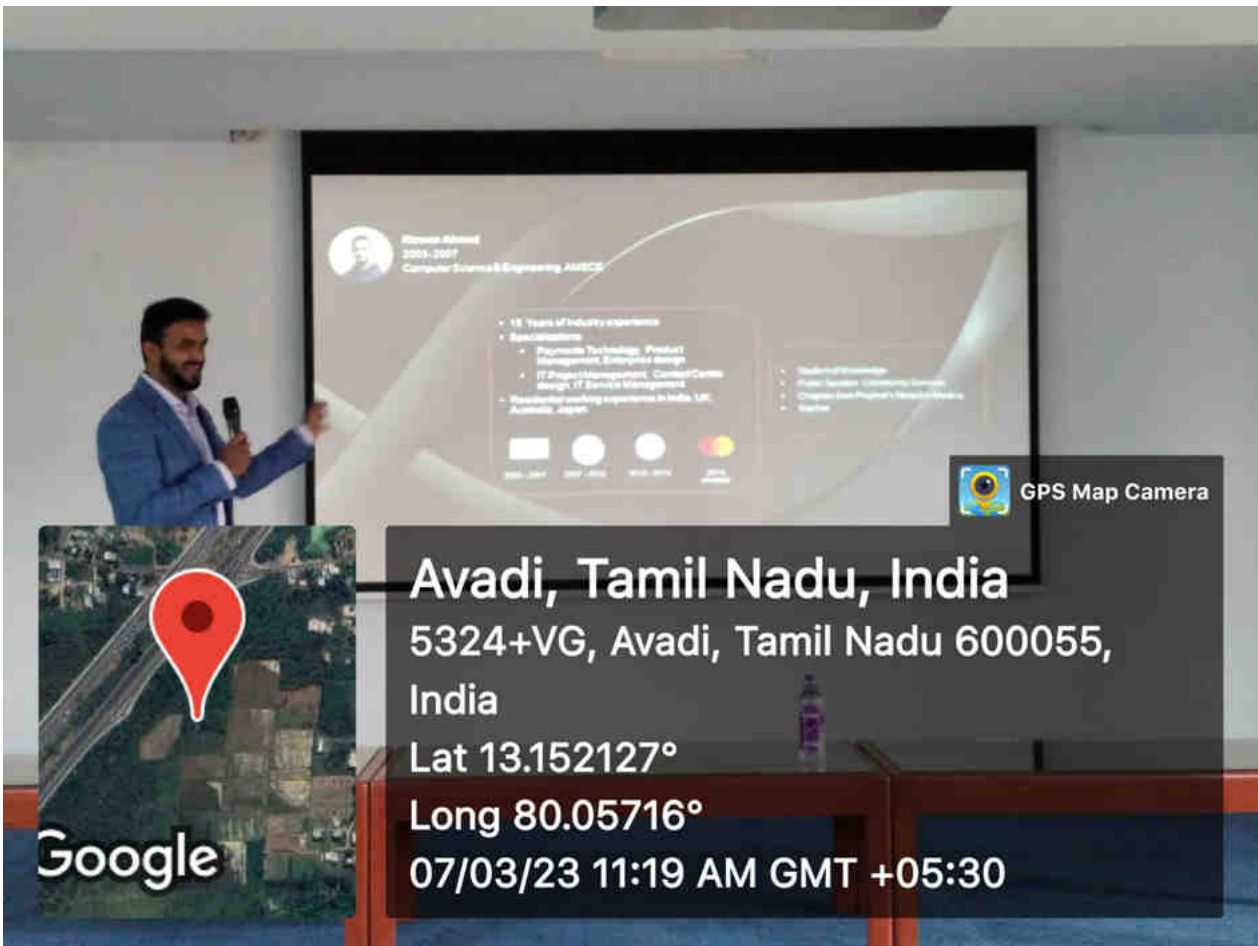


Figure 2.6 Seminar on “Evolution and Future of Payment Technology” by Er. Riyaz Ahmed (Alumnus - CSE), Architect - Technical Solution, M/s Master Card, Australia on 07.03.2023

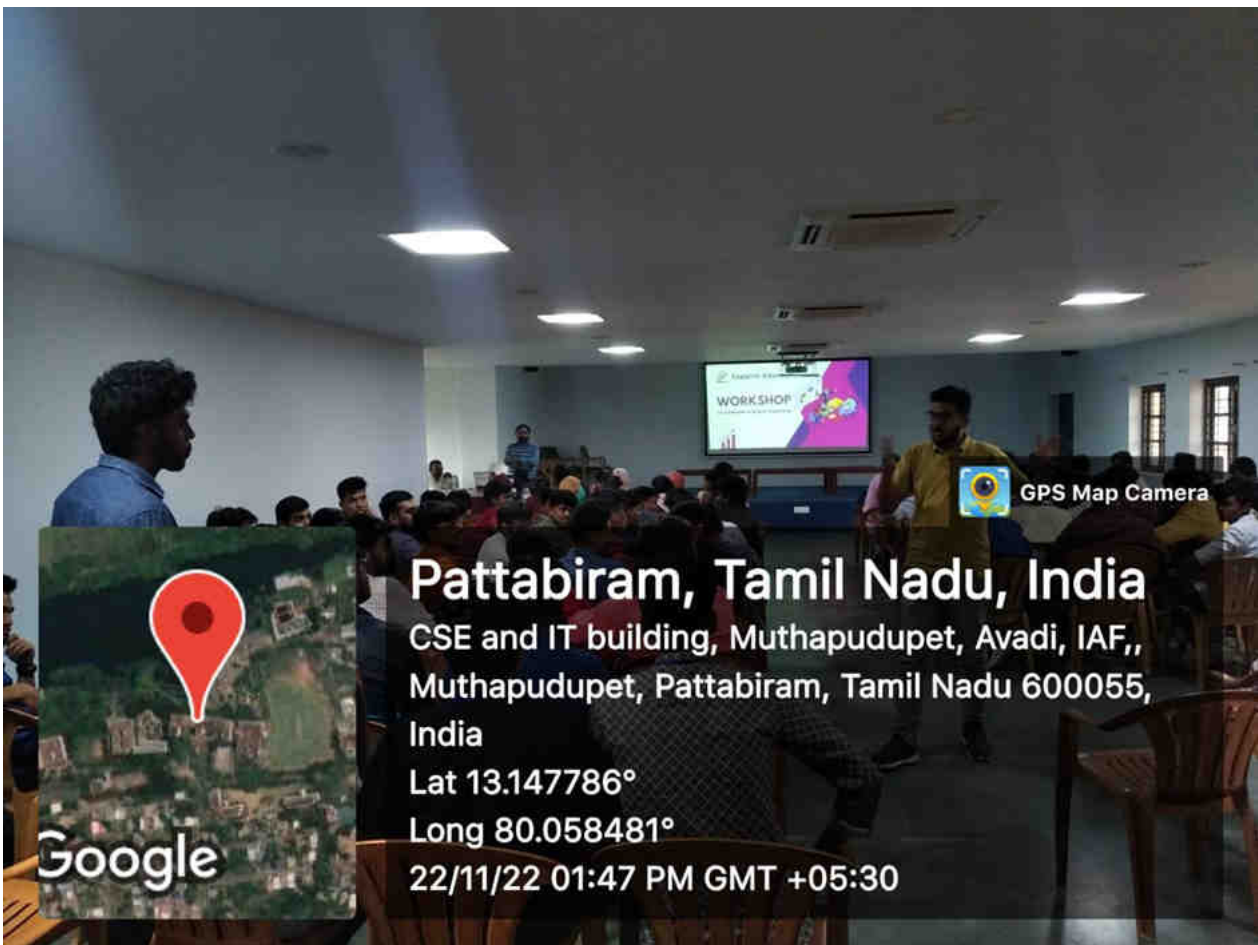


Figure 2.7 Seminar on “Digital Marketing” by Mr Mohammed Ali, Corporate Trainer, M/s Research Advisors - Digital services, Chennai on 22.11.2023



Figure 2.8 Seminar on “Roadmap for Higher Studies in Abroad after Engineering” by Mr H. Abdul Navas, M/s KC Overseas-Osprey Academy, Chennai, on 14.02.2023

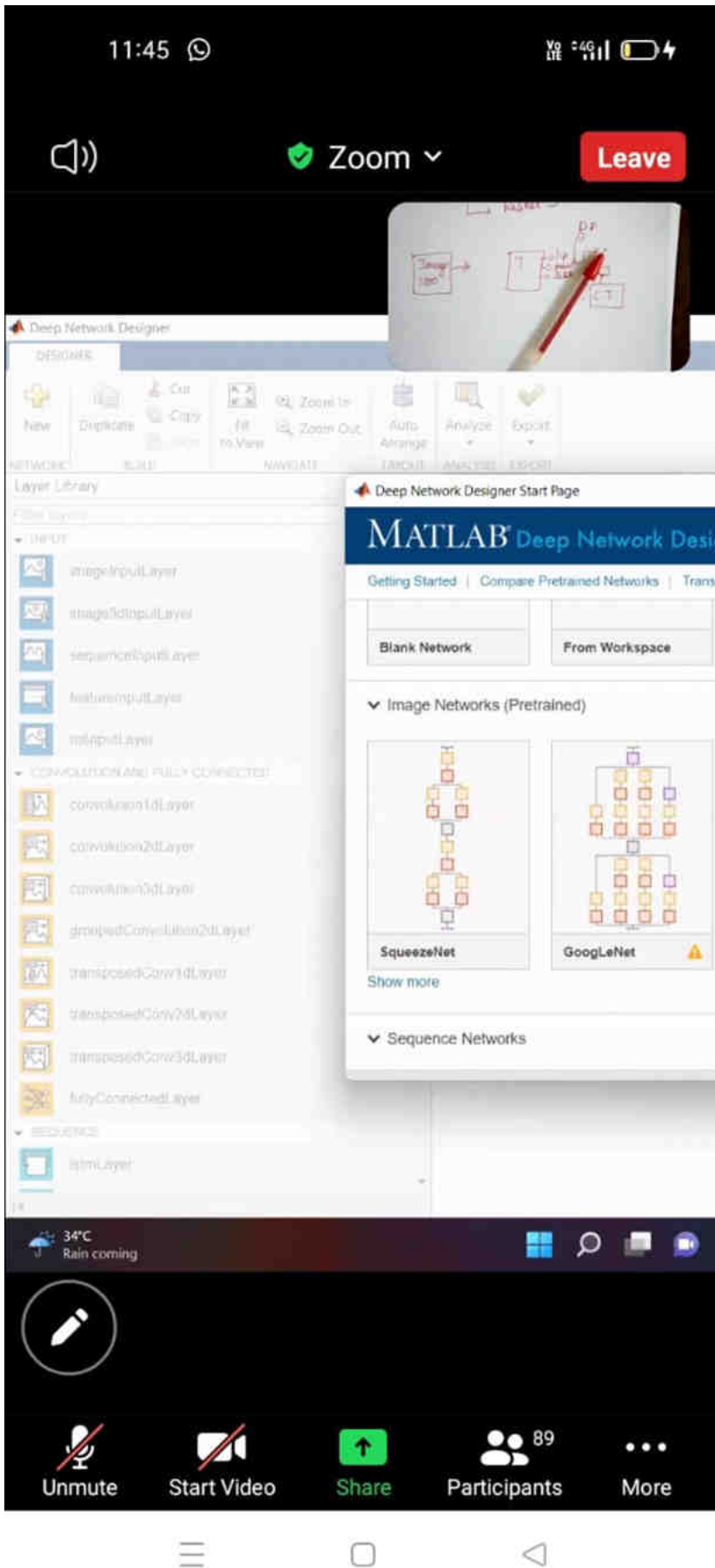


Figure 2.9 Webinar on “Data analytics using MATLAB” by Dr. N. R. Shanker, Professor, Aalim Muhammed Salegh College of Engineering on 15.04.2022

2. Library/ Internet Assignments



Figure 2.10 Library Hour - IInd Year Students (2020 – 2024)

3. Additional Laboratory Experiments

LIST OF EXPERIMENTS

EXPERIMENTS:

Note: The examples suggested in each experiment are only indicative. The lab instructor is expected to design other problems on similar lines. The Examination shall not be restricted to the sample experiments listed here.

1. Identification and solving of simple real life or scientific or technical problems, and developing flow charts for the same. (Electricity Billing, Retail shop billing, Sin series, weight of a motorbike, Weight of a steel bar, compute Electrical Current in Three Phase AC Circuit, etc.)
2. Python programming using simple statements and expressions (exchange the values of two variables, circulate the values of n variables, distance between two points).
3. Scientific problems using Conditionals and Iterative loops. (Number series, Number Patterns, pyramid pattern)
4. Implementing real-time/technical applications using Lists, Tuples. (Items present in a library/Components of a car/ Materials required for construction of a building –operations of list & tuples)
5. Implementing real-time/technical applications using Sets, Dictionaries. (Language, components of an automobile, Elements of a civil structure, etc. - operations of Sets & Dictionaries)
6. Implementing programs using Functions. (Factorial, largest number in a list, area of shape)
7. Implementing programs using Strings. (reverse, palindrome, character count, replacing characters)
8. Implementing programs using written modules and Python Standard Libraries (pandas, numpy, Matplotlib, scipy)
9. Implementing real-time/technical applications using File handling. (copy from one file to another, word count, longest word)
10. Implementing real-time/technical applications using Exception handling. (divide by zero error, voter's age validity, student mark range validation)
11. Exploring Pygame tool.
12. Developing a game activity using Pygame like bouncing ball, car race etc.

Content Beyond Syllabus

1. SEARCHING and SORTING
 - a. BINARY SEARCH
 - b. INSERTION SORT
2. CREATE A MODULE


HOD / CSE


PRINCIPAL

Figure 2.11 List of Experiments I Year Students (2021 – 2025 Batch)

4. Industrial Visits and Internship

Table 2.5 List of Industrial Visits

S.No.	YEAR & SECTION	INDUSTRY VISITED	STUDENTS	DATE
ACADEMIC YEAR - 2022-2023				
1	II A	Regional Meteorological Centre, Nugambakkam, Chennai	II Year - 120	22.09.2022
2	II B			
ACADEMIC YEAR -2021-2022				
1	III A&B	Regional Meteorological Centre, Nugambakkam, Chennai	III Year - 85	30.05.2022
2	III	M/s Mels system & services, Chennai	III Year 1 (Virtual industry visit)	20.12.2021
ACADEMIC YEAR -2019-2020				
1	III A & B	National Atmospheric Research Laboratory (NARL), Tirupati	III Year - 57	07.02.2020
2	II A & B	M/s Image Creative Education, Anna Nagar, Chennai	II Year - 63	05.09.2019



Figure 2.12 Industrial Visit - National Atmospheric Research Laboratory (NARL), Tirupati (A.P) - III Year CSE on 07.02.2020



Figure 2.13 Industrial Visit -Regional Meteorological Centre, Chennai - II Year, CSE on 22.09.2022

5. Internships

Table 2.6 List of Internship Certification

S.No.	INDUSTRY	STUDENTS	INTERNSHIP TITLE	No. of Days
ACADEMIC YEAR - 2021-2022				
1	M/s W3SQUAD Technology Solutions Pvt. Ltd	1	Web Design	30

2	M/s Exposys data Labs	1	Supply Chain Management	30
3	M/s Elbound Systems Pvt. Ltd	15	Embedded System Design	10
4	M/s Elbound Systems Pvt. Ltd	17	Internet of Things	10
5	M/s Full Creative	1	UI / UX Design	30
6	M/s Wipro	2	Java / J2EE	30
7	M/s Sparks Foundation	1	Java / J2EE	30
8	M/s Chase Technologies	20	Python Programming	30
9	M/s Tech4LYF Entrepreneurs	10	Web Design	
Total		68		
ACADEMIC YEAR - 2019-2020				
1	M/s Elbound Systems Pvt. Ltd	22	Embedded System Design	10
2	M/s Elbound Systems Pvt. Ltd	25	Internet of Things	10
3	M/s Glenwood Systems	1	Java / J2EE	11
4	M/s Hoist Technologies	5	Web Site Deployment	
Total		53		



Figure 2.14 Syed Abu Anwar completed Internship on Graduate Rotational Intern at the Sparks Foundation from Nov 2021 to Dec 2021



Figure 2.15 Afroze Fathima M S completed Internship on UI/UX design in FULL Creative from 01-04-2022 to 30-04-2022

6. Online Certificate Courses by Industries

Table 2.7 List of Online Certification

CERTIFICATION	ACADEMIC YEAR			
	2019-2020	2020-2021	2021-2022	2022-2023
ONLINE CERTIFICATION / WEBINAR / WORKSHOP / SOFT SKILLS	7	8	21	28



Figure 2.16 Online Certification to Ahmed Aabidh (III year CSE) on Google UX Design



Figure 2.17 Online Certification to F Syed Afzal III year CSE on Python



Figure 2.18 Online Certification to R Priyadharshini IV year CSE on Data Science Methodology

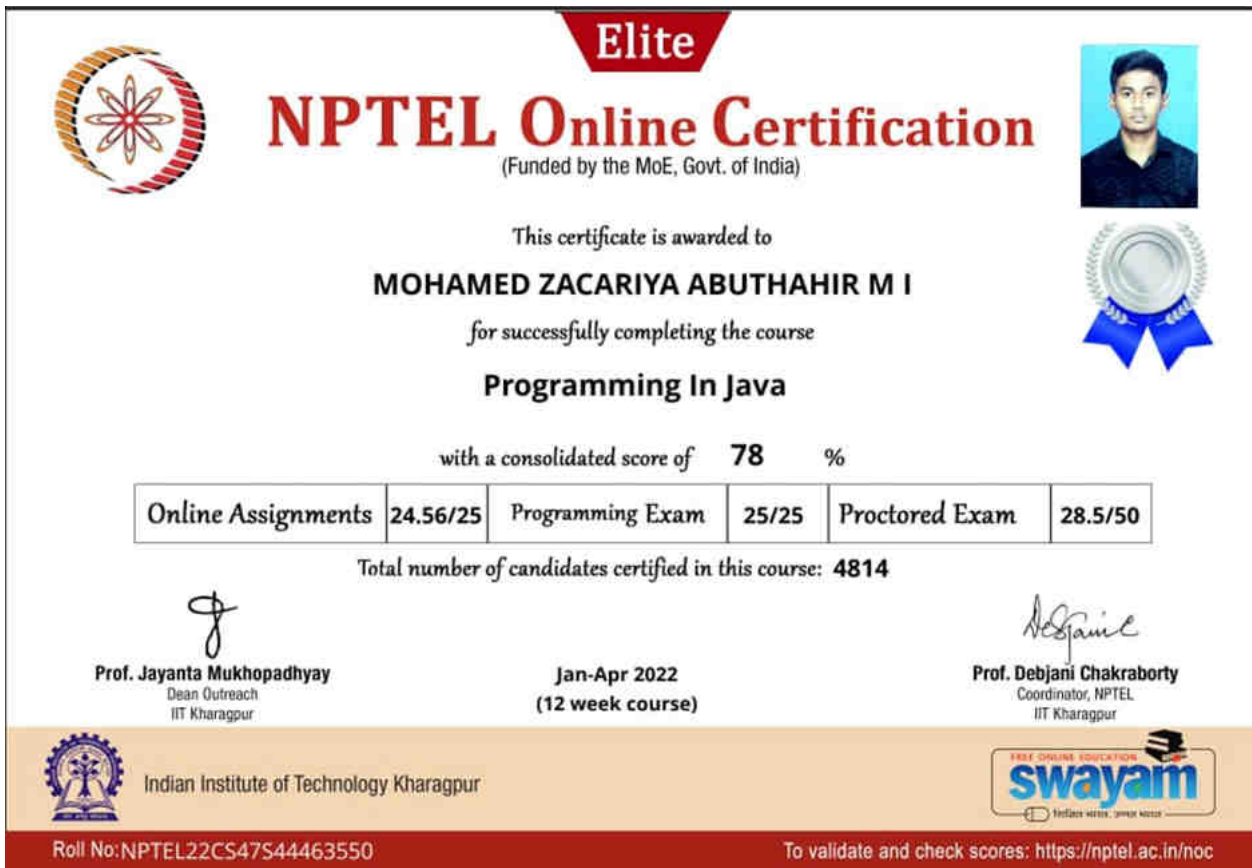


Figure 2.19 Online Certification to T Abdullah IV year CSE on Software Development

7. NPTEL

Table 2.8 List of NPTEL Courses

S.No.	Academic Year	Semester	Subjects	Resource Person	No. of Students	Certified
1.	2021-2022	Odd	Programming in Java	Prof. Debasis Samanta, IIT Kharagpur	17	15
		Even	Programming in Java	Prof. Debasis Samanta, IIT Kharagpur	79	
			Introduction to Database Systems	<u>Prof. P.Sreenivasa Kumar, IIT Madras</u>		
			Python for Data Science	Prof. Ragunathan Rengasamy, IIT Madras		
2.	2020-2021	Odd	Programming in Java	Prof. Debasis Samanta, IIT Kharagpur	48	2
		Even	Python for Data Science	Prof. Ragunathan Rengasamy, IIT Madras	19	
			The Joy of Computing using Python	Prof. Sudarshan Iyengar, IIT Ropar		
3.	2019-2020	Odd	Computer Networks and Internet Protocol	Prof. Soumya Kanti Ghosh, Prof. Sandip Chakraborty IIT Kharagpur	47	2
		Even	Programming in C	Prof. Satyadev Nandakumar, IIT Kanpur	35	



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MOHAMED ZACARIYA ABUTHAHIR M I
for successfully completing the course
Programming In Java
with a consolidated score of **78** %

Online Assignments	24.56/25	Programming Exam	25/25	Proctored Exam	28.5/50
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Total number of candidates certified in this course: **4814**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

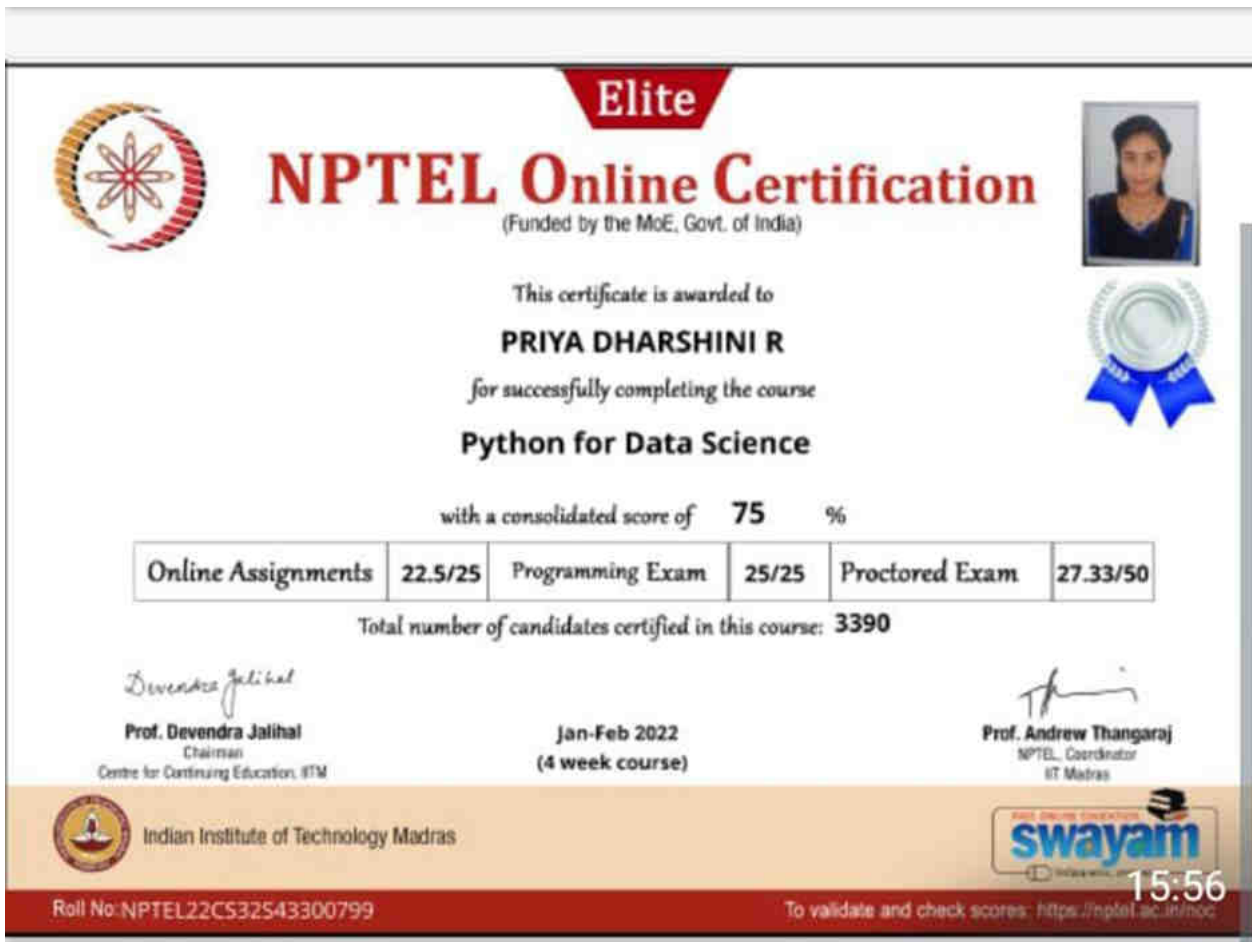
Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL22CS47S44463550

To validate and check scores: <https://npTEL.ac.in/hoc>

Figure 2.20 NPTEL Certification by Mohamed Zacariya Abuthahir M I on “Programming in Java”



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PRIYA DHARSHINI R
for successfully completing the course
Python for Data Science
with a consolidated score of **75** %

Online Assignments	22.5/25	Programming Exam	25/25	Proctored Exam	27.33/50
--------------------	---------	------------------	-------	----------------	----------

Total number of candidates certified in this course: **3390**

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Feb 2022
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL22CS32S43300799

To validate and check scores: <https://npTEL.ac.in/hoc>

Figure 2.21 NPTEL Certification by Priya Dharshini R on “Python for Data Science”

C. MAPPING CONTENT BEYOND SYLLABUS WITH POs AND PSOs

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Data analytics using MATLAB	Webinar	15/04/2022	Dr.N.R.Shanker, Professor, Aalim Muhammed Salegh College of Engineering	90	PO2,PO3,PO4, PO5, PO12 PSO 1, PSO 2
2	Digital Marketing	Guest Lecture	25/02/2022	Mr.S.Senthil Raj, Director S-/Gen Energy and Infra Pvt Ltd	90	PO10, PO12
3	Robotic Process Automation	Webinar	04/01/2022	Er.Syed Ali Fathima Team Lead/Sr.Associate Cognizant Technology Solutions	92	PO2, PO3, PO5, PO9, PO11, PO12, PSO 1, PSO 2
4	Machine Learning and Deep Learning	Webinar	12/10/21	Mr.V.Raguraman, Manager BI, EYEOTA, Singapore	93	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
5	Internet of Things Hands on Session on Arduino, Rasperry PI and Contiki OS	Webinar	12/06/2021	Dr. Abdul Quadir MD Assitant Professor, VIT University, Chennai	91	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
6	Web Design	Internship	01/10/2021	W3SQUAD Technology Solutions Pvt. Ltd	1	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
7	Supply Chain Management	Internship	16/11/2021	Exposys data Labs	1	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
8	Embedded System Design	Internship	13/12/2021	Elbound Systems Pvt. Ltd	15	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
9	Internet of Things	Internship	14/12/2021	Elbound Systems Pvt. Ltd	17	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
10	UI / UX Design	Internship	01/04/2022	Full Creative	1	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
11	Java J2ee	Internship	20/1/2022	Wipro	2	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO 2
12	Graduate rotational Intern	Internship	1/11/2021	Sparks Foundation	1	PO2, PO3, PO4, PO5, PO9, PO11, PO12
13	Python Programming	Internship	01/04/2022	Chase Technologies	20	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO2
14	Programming in Java	NPTEL	1/7/2021	Prof. Debasis Samanta, IIT Kharagpur	17	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO2
15	Compiler Design, UID, CNIP Python for Data Science	NPTEL	1/1/2022	Prof. Rangunathan Rengasamy, IIT Madras	9	PO2, PO3, PO4, PO5, PO9, PO11, PO12 PSO12, PSO 1, PSO2
16	Introduction to Database Systems	NPTEL	1/1/2022	Prof. P.Sreenivasa Kumar, IIT Madras	8	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO2
17	Programming in Java	NPTEL	1/1/2022	Prof. Debasis Samanta, IIT Kharagpur	20	PO2, PO3, PO4, PO5, PO9, PO11, PO12, PSO 1, PSO2

2020-21

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Google Clouds	Webinar	05/02/2021	Mr.M.Ijaz Ahamed, Senior Team Lead, GP Strategies India Pvt Ltd.	90	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
2	Code Logic Generation	Workshop	04/01/2021	CSE Technical Training Team Asst.Prof.P.P.Devi, Asst.Prof.Aarthi	92	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
3	Higher order Thinking Skills Training	Workshop	05/01/2021	CSE Technical Training Team, Asst.Prof.P.P.Devi, Asst.Prof.Aarthi	91	PO2, PO3, PO4, PO5, PO9,PO11, PO12
4	Developing Android Apps with MIT	Webinar	06/11/20	Mr.Remo Jesuraj, Chase Technologies	90	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
5	The Joy of Computing using Python, Python for Data Science	NPTEL	1/1/2021	Prof. Sudarshan Iyengar, IIT Ropar Prof. Rangunathan Rengasamy, IIT Madras	32	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2

2019-20

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Intelligent engineering Optimization using PYOMO	Guest Lecture	05/03/2020	Dr.M.Lordwin Cecil Prabhakar, Associate Professor, VelTech R&D Institute, AVADI	92	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
2	Cyber security	Workshop	28/01/2020	Mr.Vamsidhar & Mr.Zenob Stephen, Cognizant Technical Solutions	90	PO2, PO3, PO4, PO5, PO9,PO11, PO7, PO8, PO12, PSO 1, PSO2
3	Animation by image	Guest Lecture	21/01/2020	Creative Education	93	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
4	The Creative Economy and the Opportunities in Media and Entertainment	Guest Lecture	21/01/2020	Mr. Sathish, Image Creative Education	95	PO6,PO7,PO8
5	Advanced Cyber Security and Computer Forensics	Webinar	03/12/19	Mr.Jeyavel, UX Designer, MPURA Inc.	94	PO2, PO3, PO4, PO5, PO8, PO9,PO11, PO12, PSO 1, PSO2
6	Digital Transformation using devops	Guest Lecture	22/07/2019	Mr.Dinesh kumar, Technical Trainer, NIIT.	92	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
7	Block Chain Technology	Guest Lecture	22/07/2019	Mr.Dinesh kumar, Technical Trainer, NIIT.	90	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
8	Machine Learning	Guest Lecture	19/07/2019	Mr.Vijayaraghavan, Technical Trainer, NIIT.	90	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
9	Internet of Things	Internship	04/12/2019	Elbound Systems Pvt. Ltd	10	PO2, PO3, PO4, PO5, PO9,PO11,PO6, PO7, PO8, PO12, PSO 1, PSO2
10	Embedded System Design	Internship	04/12/2019	Elbound Systems Pvt. Ltd	22	PO2, PO3, PO4, PO5, PO9,PO11, PO12, PSO 1, PSO2
11	Internet of Things	Internship	06/12/2019	Elbound Systems Pvt. Ltd.	15	PO2, PO3, PO4, PO5, PO9,PO11,PO6, PO7, PO8, PO12, PSO 1, PSO2
12	Ethical Hacking, NLP, Tensorflow, Computer Networks and Internet Protocol	NPTEL	1/1/2020	Prof. Soumya Kanti Ghosh, Prof. Sandip Chakraborty, IIT Kharagpur	8	PO2, PO3, PO4, PO5, PO9,PO11,PO6, PO7, PO8, PO12, PSO 1, PSO2
13	Website deployment	Internship	04/12/2019	M/s Hoist Technologies	5	PO2, PO3, PO4, PO5, PO9,PO11,PO6, PO7, PO8, PO12, PSO 1, PSO2

2.2 Teaching - Learning Processes (100)

Total Marks 100.00

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


A. Adherence to Academic Calendar:

The academic calendar for the university is prepared in chronological order by committee members. An Academic calendar is prepared and communicated by the affiliating university to the college at the beginning of every semester.

Date: 04.03.2022

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY: : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES
March 2022 – June 2022 (Even Semester – Except Semester II)
UG (FT/PT) Degree Programmes



Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	IV,VI,VIII	16.03.2022	16.06.2022**	18.06.2022	28.06.2022
2.	B.E. / B.Tech (Part-Time)	IV,VI				
3.	B.Arch. (Full-Time)	IV,VI,VIII,X				

RE - OPENING DAY FOR THE NEXT SEMESTER: 10.08.2022 (Wednesday)

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
- If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	19.03.2022	Tuesday
2.	26.03.2022	Wednesday
3.	09.04.2022	Thursday
4.	23.04.2022	Friday
5.	30.04.2022	Tuesday
6.	07.05.2022	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	14.05.2022	Tuesday
8.	21.05.2022	Wednesday
9.	28.05.2022	Thursday
10.	04.06.2022	Friday
11.	11.06.2022	Monday

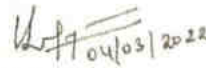
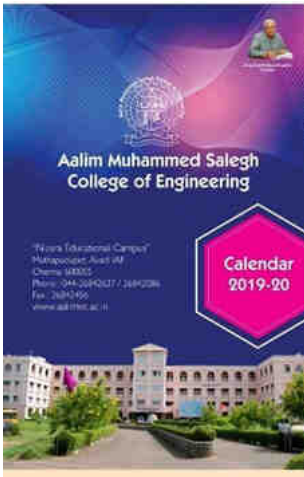

DIRECTOR
ACADEMIC COURSES

Figure 2.22 Scanned copy of University Academic Calendar for the odd semester in the Academic Year (2021-22)

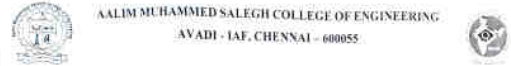
The college prepares the Academic calendar in accordance with the guidelines set by the university and in consultation with the respective departments at the beginning of each academic year. The Academic calendar includes the following details.

1. Commencement of college for the academic year
2. Schedule of Internal Assessment Test
3. Schedule of external examinations
4. List of government holidays as per affiliating university circular
5. Departmental Academic activities schedule
6. College Academic activities
7. Celebration of National Festivals
8. Commencement of End Semester University Examination

The Test schedules are prepared by the institution and appended in the department Academic Calendar. A sample of the department Academic Calendar is seen in the figure below:



SEPTEMBER 2021				
Date	Day	Particulars	2nd Year to 4th Year	1st Year
1	Wed		10	
2	Thu		11	
3	Fri		12	
4	Sat		-	
5	Sun		-	
6	Mon		13	
7	Tue		14	
8	Wed		15	
9	Thu		16	
10	Fri	Vinayakar Chathurthi	-	
11	Sat	Working Day with Monday Timetable	17	
12	Sun		-	
13	Mon		18	
14	Tue		19	
15	Wed		20	
16	Thu	Class Committee Meeting CCM1 - 2 nd year	21	
17	Fri	CCM1 - 3 rd year	22	
18	Sat		-	
19	Sun		-	
20	Mon	CCM1 - 4 th year	23	
21	Tue		24	
22	Wed		25	
23	Thu		26	
24	Fri		27	
25	Sat	Working Day with Friday Timetable	28	
26	Sun		-	
27	Mon	Commencement of Internal Assessment - I for 2 nd , 3 rd & 4 th year	29	
28	Tue		30	
29	Wed		31	
30	Thu		32	



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

14.09.21

CIRCULAR

CCM meeting for III Year A section CSE will be held on 17.09.2021 at 3.00 P.M to 3.30 P.M in HOD Room. The committee members and student representatives are requested to be present for the meeting without fail.

Committee Members:

Sl.No	STAFF NAME	SIGNATURE
1	Mr. K. Khaja Mohaideen	<i>[Signature]</i>
2	Mrs. G.Sulthana Begam	<i>[Signature]</i>
3	Mr. M. Ahsan Shariff	<i>[Signature]</i>

Student Representatives:

Sl. No	STUDENT NAME	SIGNATURE
1	Mohamed Razaq	<i>[Signature]</i>
2	Ahamedullah Javith.A	<i>[Signature]</i>
3	Shabana N	<i>[Signature]</i>
4	Aashika Banu.M	<i>[Signature]</i>

[Signature]
INCHARGE

[Signature]
HOD CSE

Figure 2.23 College Academic Calendar for the Academic Year 19-20

B. Use of various instructional methods and pedagogical initiatives:

The following Instructional methods and pedagogical initiatives are followed by the faculty in content delivery.

Members of faculty in the department prepare written Course notes containing teaching materials and question bank comprising previous question papers. The following facilities are used in teaching learning process

1. Chalk & Board
2. Online videos by the subject experts



Figure 2.24 Online Class – Theory of Computation– II Year – Odd Sem – (2022-2023)

3. Assignment, Quiz & Tutorials

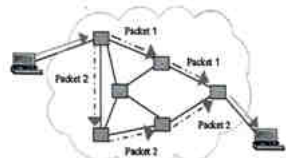
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF CSE
ASSIGNMENT - I

SUB.CODE : CS8591
 SUB.NAME : COMPUTER NETWORKS
 YEAR/SEMESTER : III / 05

1. Explain Circuit switching and packet switching with examples.

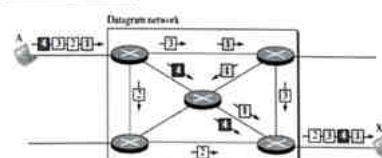
CIRCUIT SWITCHING
Phases in Circuit Switching
 Communication through circuit switching has 3 phases:
 1. *Connection Setup / Establishment*
 2. *Data transfer*

PACKET SWITCHING
 The packet switching is a switching technique in which the message is sent in one go, but it is divided into smaller pieces, and they are sent individually.



APPROACHES OF PACKET SWITCHING
 1. *Datagram Packet switching* 2. *Virtual Circuit Switching*

Datagram Packet switching



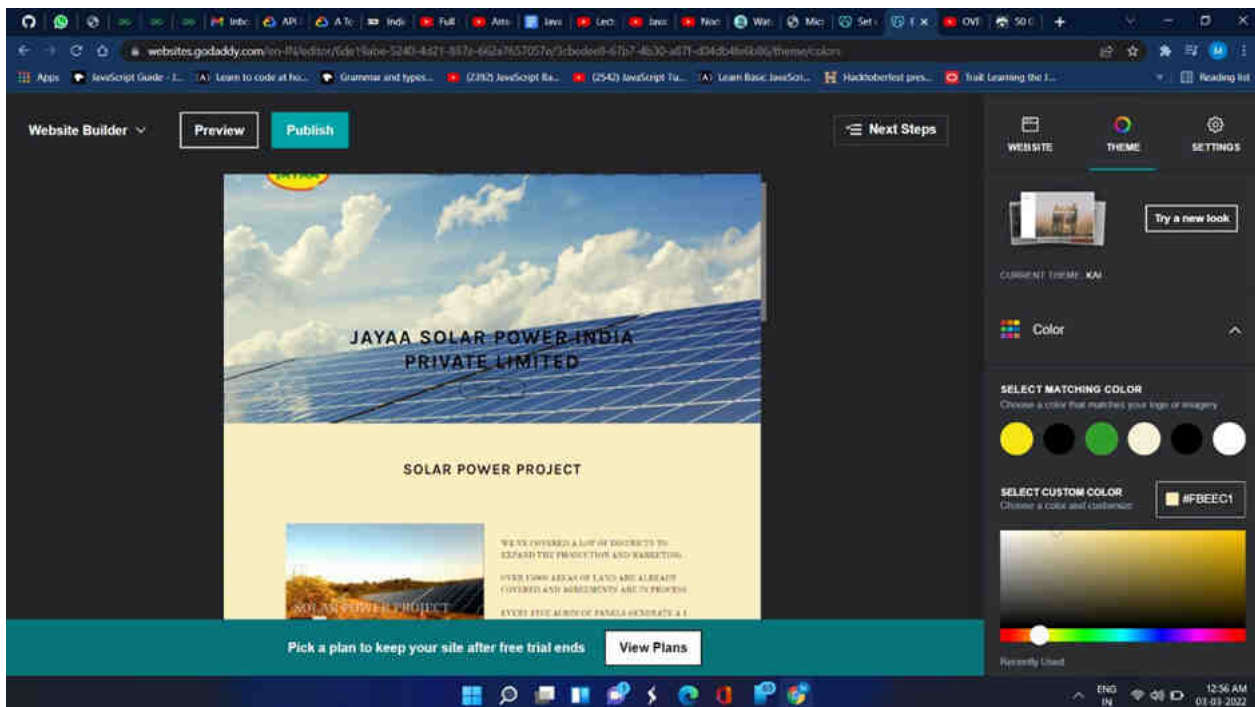
COMPARISON - CIRCUIT SWITCHING AND PACKET SWITCHING

CIRCUIT SWITCHING	PACKET SWITCHING	
	Virtual Circuit Switching	Datagram Switching
Connection oriented	Connection oriented	Connection less
Ensures in order delivery	Ensures in order delivery	Packets may be delivered out of order
No reordering is required	No reordering is required	Reordering is required
A dedicated path exists for data transfer	A dedicated path exists for data transfer	No dedicated path exists for data transfer
All the packets take the same path	All the packets take the same path	All the packets may not take the same path
Resources are allocated before data transfer	Resources are allocated on demand using 1st packet	No resources are allocated
Stream oriented	Packet oriented	Packet oriented
Fixed bandwidth	Dynamic Bandwidth	Dynamic bandwidth
Reliable	Reliable	Unreliable
No overheads	Less overheads	Higher overheads
Implemented at physical layer	Implemented at data link layer	Implemented at network layer
Inefficient in terms of resource utilization	Provides better efficiency than circuit switched systems	Provides better efficiency than message switched systems
Example- Telephone systems	Examples- X.25, Frame relay	Example- Internet

Sathish Rajan
 PRINCIPAL
 AALIM MUHAMMAD SALEGH COLLEGE OF ENGINEERING

Figure 2.25 Assignment 1 – Computer Networks CS891 – III Year – (2022-2023)

4. Demonstration (Physical models/Laboratory)



The screenshot shows the Godaddy Website Builder interface. The main preview area displays a website for 'JAYAA SOLAR POWER INDIA PRIVATE LIMITED' with a 'SOLAR POWER PROJECT' section. The right-hand panel shows theme and color settings, including a 'SELECT MATCHING COLOR' section with several color swatches and a 'SELECT CUSTOM COLOR' section with a color picker and the hex code #FBEEC1.

Figure 2.26 Demonstration of Web Site Deployment using godaddy Tool

5. Collaborative Learning (Group discussions, Mini Projects)

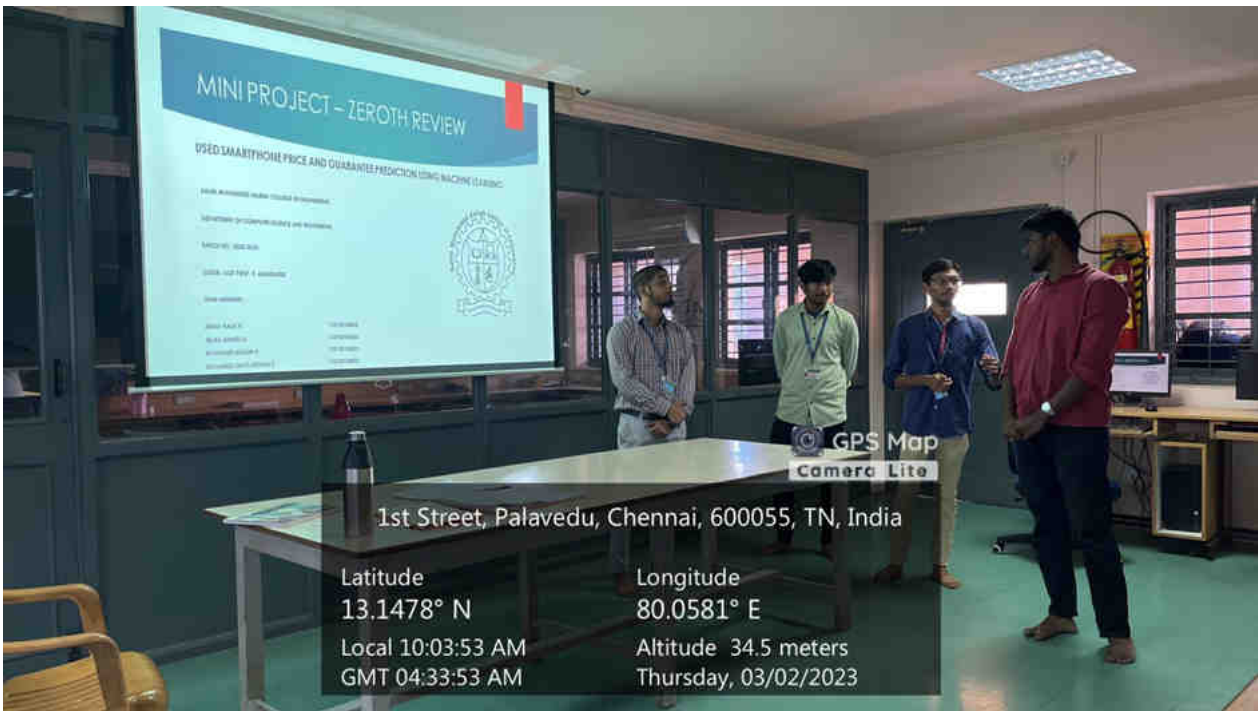


Figure 2.27 Mini Project Discussion – III Year – (2022-2023)

6. Google Classrooms

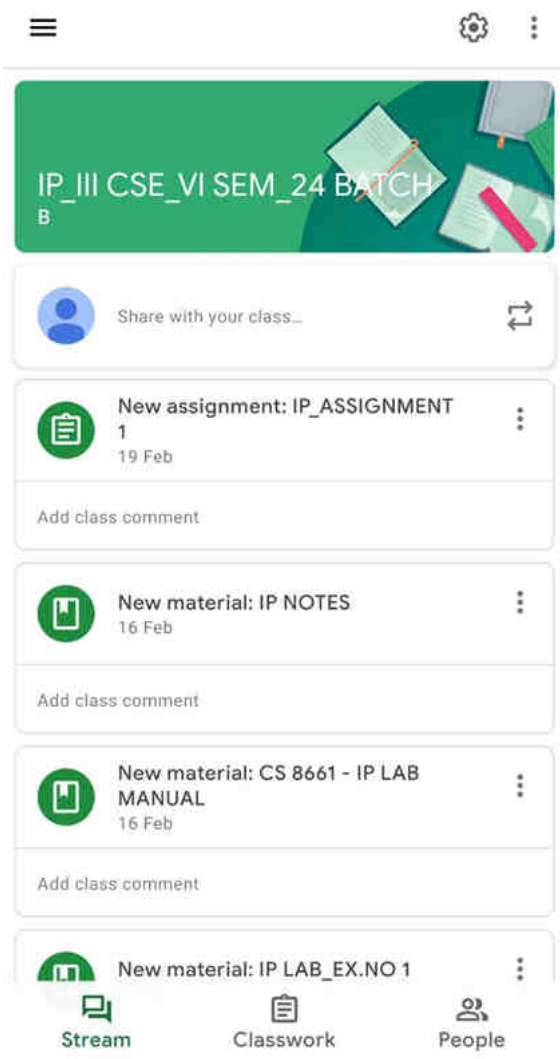


Figure 2.28 Google Classroom for III Year -Academic Year 19-20

7. YouTube Channel for Video Lectures

The screenshot shows the YouTube Studio interface for a channel named 'Programming Languages Lectures o...'. The 'Videos' tab is selected, displaying a list of four videos. Each video entry includes a thumbnail, title, topic, visibility status, restrictions, publication date, view count, and comment count.

Video	Visibility	Restrictions	Date	Views	Comments
Binary Search using Recursion in C Topic: Binary Search using Recursion PROGRAMMING IN C CS 8251 Unit 3 L...	Public	None	May 16, 2020 Published	1,269	0
Sine Series using Recursion Topic: Sine Series using Recursion in C PROGRAMMING IN C CS 8251 Unit 3 L...	Public	None	May 14, 2020 Published	1,605	5
Recursion in C Topic: Recursion in C Programming in C CS 8251 Unit 3 Lecture by...	Public	None	May 13, 2020 Published	36	0
Scientific Calculator Program in C	Public	None	May 12, 2020	1,652	0

Figure 2.29 YouTube Channel for online Lecture of Programming Languages

8. NPTEL lectures

Table 2.9 List of NPTEL Certification

S.No.	Academic Year	Semester	Subjects	No. of candidates enrolled	No. of candidates Certified	Total No. of candidates certified in Academic year
1.	2021-2022	Odd	Programming in Java	17	9	15
		Even	Programming in Java Introduction to Database Systems Python for Data Science	79	6	
2.	2020-2021	Odd	Programming in Java	48	0	2
		Even	Python for Data Science The Joy of Computing using Python	19	2	
3.	2019-2020	Odd	Computer Networks and Internet Protocol	47	1	2
		Even	Programming in C	35	1	

9. Seminars by Students

Table 2.10 Seminar Presentation by Students during SSTP class

Academic Year	Class	Semester	No. of students Participated
2021-2022	II/A	ODD	62
	II/B		
2020-2021	II/A	ODD	42
	II/B	EVEN	20
2019-2020	I/A	ODD	40
	I/B	EVEN	62



Figure 2.30 Seminar by Yasmin Parveen (II Year) –III Semester (2022-2023)

10. Technical Events, Professional Society Activities

Table 2.11 List of Guest Lectures, Seminar, Webinar and Workshops

Event	ACADEMIC YEAR			
	2022-2023	2021-2022	2020-2021	2019-2020
Workshop/ Guest Lecture / SFDP	3	1	2	7
Webinar / Seminar	6	4	2	1
Total	9	5	4	8

11. Industrial Visits

Table 2.12 List of Industrial Visits

S.No.	YEAR & SECTION	INDUSTRY VISITED	STUDENTS	DATE
ACADEMIC YEAR - 2022-2023				
1	II A	Regional Meteorological Centre, Nugambakkam, Chennai	II Year - 120	22.09.2022
2	II B			
ACADEMIC YEAR -2021-2022				
1	III A&B	Regional Meteorological Centre, Nugambakkam, Chennai	III Year - 85	30.05.2022
2	III	M/s Mels system & services, Chennai	III Year 1 (Virtual industry visit)	20.12.2021
ACADEMIC YEAR -2019-2020				
1	III A & B	National Atmospheric Research Laboratory (NARL), Tirupati	III Year - 57	07.02.2020
2	II A & B	M/s Image Creative Education, Anna Nagar, Chennai	II Year - 63	05.09.2019

12. Internships

Table 2.13 List of Internship Certification

S.No.	INDUSTRY	STUDENTS	INTERNSHIP TITLE	No. of Days
ACADEMIC YEAR - 2021-2022				
1	M/s W3SQUAD Technology Solutions Pvt. Ltd	1	Web Design	30
2	M/s Exposys data Labs	1	Supply Chain Management	30
3	M/s Elbound Systems Pvt. Ltd	15	Embedded System Design	10
4	M/s Elbound Systems Pvt. Ltd	17	Internet of Things	10
5	M/s Full Creative	1	UI / UX Design	30
6	M/s Wipro	2	Java / J2EE	30
7	M/s Sparks Foundation	1	Java / J2EE	30
8	M/s Chase Technologies	20	Python Programming	30
9	M/s Tech4LYF Entrepreneurs	10	Web Design	10
Total		68		
ACADEMIC YEAR - 2019-2020				
1	M/s Elbound Systems Pvt. Ltd	22	Embedded System Design	10
2	M/s Elbound Systems Pvt. Ltd	25	Internet of Things	10
3	M/s Glenwood Systems	1	Java / J2EE	11
4	M/s Hoist Technologies	5	Web Deployment	10
Total		53		

C. Methodologies to support Weak Learners and encourage Bright students:

1. The strengths and weaknesses of the students were identified and remedial course work classes conducted to improve comprehension level of the students.
 1. Students who secure < 50% marks in the internal assessment test.
 2. Students having more than 2 arrears in University semester examinations



**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Academic Year :2021-2022/Even Sem

Time :4.00pm to 5.00pm

Date :11-04-2022

EVENING COACHING CLASS TIME TABLE

Year/Sem	II/IV	III/VI
Day	Subject Code &name	Subject code & name
Monday	MA8402/Probability and Queuing Theory	CS8651 /Internet Programming
Tuesday	CS8491/Computer Architecture	CS8691/Artificial Intelligence
Wednesday	CS8492/Database Management Systems	CS8602/Compiler Design
Thursday	CS8451/Design and Analysis of Algorithms	CS8603/Distributed Systems
Friday	CS8493/Operating Systems	CS8075/Data warehousing and Data mining

M.D.
Exam Cell Coordinator

HOD/CSE

HEAD
Computer Science & Engineering
Aalim Muhammed Salegh
College of Engineering

Principal

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 2.31 Evening Special Class Time Table beyond Scheduled Time Table

2. Important materials such as Question Bank, Textbooks, Notes/lecture materials and NPTEL links were shared with them.
3. Previous year question papers were provided as Assignments

Table 2.14 Achievement of Slow Learner Abdul Vaqueel. K (2018- 2022 Batch)

S.No.	Name	Reg. No	No. of Backlogs	Campus Achievement
1	Abdul Vaqueel. K	110118104007	4	Got Placed in M/s Qspider and M/s Sutherland Global Services

D.TO ENCOURAGE BRIGHT STUDENTS TO ENHANCE THEIR COMPREHENSION LEVEL AND TECHNICAL SKILLS FOLLOWING MODES ARE IMPLEMENTED:

The bright students are Identified on following criterions:

- Consistent performance in All Internal Assessment Tests. (i.e. had >70% marks) · Nil arrears in University Semester Examinations.
- Active participation in all academic Events conducted by the department viz Seminars, Webinars, Workshops and Symposium.

In observance of the above criterions, the following steps are taken to encourage the bright students.

1. Special academic assignments with special analytical skills were imparted.
2. Students are encouraged to participate in Eng. Conclave wherein they will get privilege to meet industry intellectuals, which leads to enhancement of professional ethics and skills.



Figure 2.32 Workshop Grand IoT Fest-Karyoun Innovations Pvt Limited-Innovative Project Contest on 05.11.22 & 06.11.22 – I Prize

3. The Bright students are encouraged to present the technical papers in seminars, conferences and publish their papers in journals.

A Random Forest Fraud Transaction Detection System using Data Mining Techniques

S. BAKIYALAKSHMI

Assistant Professor, CSE DEPARTMENT
 Asim Muhammad Salegh College of Engineering
 bakiyalakshmi.s@adimce.ac.in

R. PRIYADHARSHINI

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Abstract—Every day, news of financial statement fraud is adversely affecting the economy worldwide. Considering the influence of the loss incurred due to fraud, effective measures and methods should be employed for prevention and detection of financial statement fraud. I integrate academic writing identified with fake monetary revealing with double purpose: (1) to more likely comprehend the nature and degree of the current writing on monetary misrepresentation, and (2) to feature regions where there is need for future examination. I survey distributions in bookkeeping and related disciplines including criminal science, morals, finance, authoritative conduct acknowledged for distribution. The implementation of data mining techniques for fraud detection follows the traditional information flow of data mining, which begins with feature selection followed by representation, data collection and management, pre-processing, data mining, post-processing, and performance evaluation.

Keywords—Fraud detection, Data mining, Online Transaction

INTRODUCTION

With the Internet technology into all aspects of people's lives, whether in the field of trade or finance, the degree of informatization and virtualization is deepening. In recent years, with the rapid expansion of the frequency and scale of online transactions, more and more people use the Internet to shop. At the same time, the amount of online transactions is also increasing. All these are fertile soil for the breeding of transaction fraud. Fraud criminals often use various channels to steal user information and transfer a large amount of money in the shortest time, causing a lot of property losses to users and banks. Transaction fraud is often an abnormal event hidden in many daily transactions in the financial field. In order to avoid huge labor costs, it is a trend to detect abnormal trading behaviour by means of machine learning and data mining. The core detection algorithms of the system are mainly based on classification [1-5]. In order to face a large amount of data, data mining related processing methods are introduced into transaction fraud task [6-11]. In this paper, we establish a fraud detection system based on the classification model of random forest and the data processing related to feature engineering.

A. RELATED WORK

Data mining is a process of exploring information hidden in a large amount of data through algorithms. Through the cleaning, correction, extraction, selection, and summary of a large number of data features, the hidden knowledge behind the data is obtained. For our problem, it is to extract the difference information between the behaviour patterns of real users and fraud behaviour patterns in the data, so as to help the subsequent classification model better achieve the purpose of detecting fraudulent transactions. In [3], Fang et al. Proposed a framework for fraud detection based on CNN to capture the inherent patterns of fraud learned from the marked data. Wang [5] proposed a data mining algorithm based on UCI public dataset. The research of work [8] mainly focuses on the most important feature engineering part of data mining. Researchers extend the transaction aggregation strategy and propose to create a new set of features by using von Mises distribution on the basis of analyzing the periodic behaviour of transaction time.



Figure 1. Fraud Detection using Random forest Algorithm

However, these methods have some defects. In reference [1], due to the limited amount of data, it is difficult to establish a robust and accurate fraud detection system for practical scenarios. Besides, most of these techniques are absence of manual grouping. Manual characterization can compensate for the lack of programmed grouping and further stay away from the danger of misrepresentation.

B. Our Contribution

Referring to the hood-based fraud transaction model [9], this paper proposes a semi-automatic fraud transaction detection system based on random forest (as shown in Figure 1). Among them, the automation part is a fraud transaction risk detection model based on random forest.



A Review Paper on Artificial Intelligence in Healthcare

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Date of Acceptance: 13-10-2022

ABSTRACT

In recent years, artificial intelligence (AI) has advanced fast in terms of software algorithms, hardware implementations, and applications in a wide range of fields. Several forms of AI are already being used by payors and providers of care, as well as life sciences firms. Diagnosis and treatment recommendations, patient involvement, adherence, and administrative operations are the most common types of applications. Even though the goal of this study is to maintain track of current scientific achievements, comprehend the availability of technology, appreciate the tremendous potential of AI in biomedicine, and

inspire researchers in related disciplines. New advances and breakthroughs continue to push the boundaries and scope of AI applications and are expected to grow rapidly shortly. This review summarizes the latest developments in AI applications in health care. Ethical issues in the application of AI to healthcare are also discussed.

KEYWORDS

Artificial intelligence; Digital health; Natural language processing; Machine learning; Deep learning; Robotic process automation; Precision medicine; Healthcare applications

I. Introduction

Artificial intelligence (AI) has gone beyond the realm of science fiction. It is regarded as the most revolutionary technology of the twenty-first century and beyond, having enormous societal and economic possibilities. Artificial intelligence and related technologies are becoming more and more common in business and society and are beginning to be used in healthcare. Many elements of patient care, as well as administrative operations within providers, payors, and pharmaceutical organizations, have the potential to be transformed by these technologies [1], [2].

Several research studies have already found that AI can perform as well as or better than humans in crucial healthcare activities such as illness diagnosis. Algorithms are already surpassing doctors in detecting dangerous tumors and advising researchers on how to build cohorts for expensive clinical trials. However, for a variety of reasons, we believe that it will be many years before AI replace humans in medical process domains. In this review, we describe both the potential that AI offers to automate aspects of care and some of the barriers to the rapid implementation of AI in healthcare.



Figure 1

The growing availability of multi-modal data (genomic, economic, demographic, clinical, and phenotypic) combined with technological advancements in mobile, internet of things (IoT), computing power, and data security herald a moment of convergence between healthcare and technology that will fundamentally transform healthcare delivery models through AI-augmented healthcare systems.

In medical industries, AI is not applied to replace human interactions, but to provide decision

Mohamed Fahim I – II Year (2021-2025) IJEMH, October 2022, Vol. 3, Issue 5

Figure 2.33 Students Paper Publication

4. They are also encouraged to become university rank holders and to write competitive exams for pursuing higher studies.



A

Online Admission Fee Transaction Status	
Status	SUCCESS
Alloted Campus	
Course	M. Tech. (Computer Science)
Application Number	MC10005347
Registration Number	
Fee Payment ID	A210507028-NMI
Transaction Date	2021-10-25 15:50:18.000
Bank Reference Number	129815883646
Transaction Reference Number	WUR20307378109
Amount	Rs. 7700.00 (Rs. Seven Thousand, Seven Hundreds Only)
Name of the Student	MD NADEEM NOORI
Date of Birth	02-Mar-1999
Father's Name	MD NAUSHAD ALAM
Mother's Name	AZMAT ARA
Email	mdnadeemnoori@gmail.com
Mobile	9150273015

CIT MANU

B

Figure 2.34 Higher Studies Detail A. Raziya Begam, M.E (CSE) – AnnaUniversity B. Md Nadeem Noori M.Tech(CSE) Maulana Azad Natinal Urdu University

5. Students are counselled and encouraged to enrol members of Engineering professional societies to inculcate the self-learning process and lifelong learning.



Figure 2.35 IAENG Membership – Mohamed Farhaan- III Year – (2019-2023)

6. Encouraging them to do internships (through Intern Shala, T&P Cell, and Department references).



Figure 2.36 Internship Certificate – Mohamed Fahim J – II Year – (2021-2025)



internshala.com
+91 9897786308

Scholense Educare Pvt. Ltd.,
B-610, Urtech Business Zone,
Nirvana Country, South City 2,
Gurgaon, India - 122018

Date - 11/07/2022

TO WHOM IT MAY CONCERN

This is to certify that SHABANA N, a student of AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, was an outstanding performer of Internshala's Campus Ambassador Program - Internshala Student Partner (ISP) 29 edition during the period of May 2022 to June 2022.

During this period, SHABANA promoted Internshala and its products successfully and showed genuine sincerity and willingness to learn while taking on new assignments and challenges.

At Internshala, we consider ISPs, our biggest strength when it comes to educating college students across the world about the power of internships and online trainings. We believe SHABANA would be a great addition to any organization, adding value to fellow colleagues by participating in discussions, and providing an unique perspective on a wide variety of issues.

We appreciate the efforts put in and wish SHABANA all the best for future endeavors.

Kind Regards,

CEO - Internshala

Contact at: isp-hiring@internshala.com

Figure 2.37 Internship Certificate – Shabana – IV Year – (2019-2023)

7. Books (National/Foreign author) are shared with them apart from Textbook, Question Bank, Notes, etc.
8. NPTEL/other videos related to the topic are shared with them.
9. Mini projects are practiced to attain better understanding of the course work.

E. Conduct of Experiments:

All laboratories are adequately equipped with hardware, software and computer peripherals. Students observation and record books are verified and corrected.

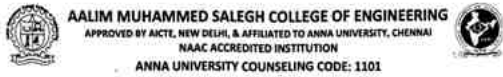
1. The Laboratories are conducted for 4 hours per session.
2. Each session, the faculty member explain the programming concepts of the experiment.
3. Each student is made to write the algorithm/flowchart, program in their manual/observation, and analyse the results.
4. The students documented the executed experiment with aim, procedure, and result in the record book the following week.
5. Viva voce was conducted after every laboratory session for a better understanding of the experiment.

F. Continuous assessment in the laboratory:

Comfortable Learning ambience is facilitated with spacious classrooms well ventilated with light and air.

1. All lab manuals are prepared well before the commencement of the semester as prescribed by the University.

LIST OF EXPERIMENTS



ALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
 APPROVED BY AICTE, NEW DELHI, & AFFILIATED TO ANNA UNIVERSITY, CHENNAI
 NAAC ACCREDITED INSTITUTION
 ANNA UNIVERSITY COUNSELING CODE: 1101

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REGULATION - 2021
GE3171 PROBLEM SOLVING AND PYTHON
PROGRAMMING LABORATORY
 1st Year - 1st Semester

EXPERIMENTS:
 Note: The examples suggested in each experiment are only indicative. The lab instructor is expected to design other problems on similar lines. The Examination shall not be restricted to the sample experiments listed here.

1. Identification and solving of simple real life or scientific or technical problems, and developing flow charts for the same. (Electricity Billing, Retail shop billing, Sin series, weight of a motorbike, Weight of a steel bar, compute Electrical Current in Three Phase AC Circuit, etc.)
2. Python programming using simple statements and expressions (exchange the values of two variables, circulate the values of n variables, distance between two points).
3. Scientific problems using Conditionals and iterative loops. (Number series, Number Patterns, pyramic pattern)
4. Implementing real-time/technical applications using Lists, Tuples. (Items present in a library/Components of a car/ Materials required for construction of a building -operations of list & tuples)
5. Implementing real-time/technical applications using Sets, Dictionaries. (Language, components of an automobile, Elements of a civil structure, etc. - operations of Sets & Dictionaries)
6. Implementing programs using Functions. (Factorial, largest number in a list, area of shape)
7. Implementing programs using Strings. (reverse, palindrome, character count, replacing characters)
8. Implementing programs using written modules and Python Standard Libraries (pandas, numpy, Matplotlib, scipy)
9. Implementing real-time/technical applications using File handling. (copy from one file to another, word count, longest word)
10. Implementing real-time/technical applications using Exception handling. (divide by zero error, voter's age validity, student mark range validation)
11. Exploring Pygame tool.
12. Developing a game activity using Pygame like bouncing ball, car race etc.

Content Beyond Syllabus

1. **SEARCHING and SORTING**
 - a. BINARY SEARCH
 - b. INSERTION SORT
2. **CREATE A MODULE**

Prepared by
 HOD / CSE

HOD / CSE

Principal

HOD / CSE

Principal

Figure 2.38 GE3171 – Problem Solving and Python Programming (2021 – 2026 Batch)

2. Each laboratory course has a set of Programs to execute. The student has to design and develop algorithms, program and implement them. The results are then verified by the Course Instructor to ensure the correctness of the program.
3. In addition to the regular curriculum experiments, one or two additional experiments beyond syllabus are also conducted.
4. Continuous assessment of the laboratory work is done every week as per the rubrics designed by the faculty handling the laboratory classes. This assessment is used to determine the internal marks scored by the individual students out of 10.
5. Laboratory manuals are maintained by the department and distributed to the students.
6. The students are divided into two batches and separated to undergo laboratory training.
7. The assessment is done on the basis of student's attendance, involvement in performing, understanding the experiment and on time submission of laboratory records.
8. The Laboratory courses are evaluated by the regulations set by the University. (Internal: 20 Marks & External: 80 Marks).
9. The External marks are evaluated by the External examiner by conducting a University Practical Examination at the end of the semester.

Sl. No.	Roll No. / Register No.	Name	24/11/21				3/12/21				
			DA	ENR	CNC	RC	DA	ENR	CNC	RC	
1	21EE01	ABDUL RAHMAN.N	P	C	9	8	C	10			
2	21EE02	ABDUL RAHMAN.P.S	P	C	10	7	C	10			
3	21EE03	ABDUL KAN.A	P	C	10	P	C	10			
4	21EE04	ABDUL SALMAN	P	C	10	A	C	10			
5	21EE05	DHANISH KUNAR	P	C	10	P	C	10			
6	21EE06	MARWAN BASHEER	P	C	10	A	C	10			
7	21EE07	MOHAMED ASHRAF.H	P	C	9	P	C	10			
8	21EE08	MOHAMED ASITH KHAN	P	C	9	P	C	10			
9	21EE09	MOHAMED JASIR	P	C	10	P	C	10			
10	21EE10	MOHAMED MARSOOK.M	P	C	10	P	C	10			
11	21EE11	MOHAMED NOVELL	P	C	10	P	C	10			
12	21EE12	MOHAMMED FAHIM.M	A	C	10	P	C	10			
13	21EE13	NAMACHIVAYAM.M	P	C	10	P	C	10			
14	21EE14	RAJESH.A	P	C	10	P	C	10			
15	21EE15	RUPESH.R	P	C	10	P	C	10			
16	21EE16	SARATHISH KUNAR.R	P	C	10	P	C	10			
17	21EE17	SYED SUHAN.N	P	C	10	P	C	10			
18	21EE18	YASAR ABRAFATH	P	C	10	P	C	10			
19	21EE19	MOHAMMED.T.A	P	C	10	P	C	10			
20	21EE20	MD. UNAR AHMED.M	P	C	10	P	C	10			

Figure 2.39 Laboratory Evaluation Sheet

G. Student feedback of teaching learning process:

1. Student feedback about the course delivery methods are taken once in the semester.
2. Frequent meetings are organized twice in a semester with the class representatives by Principal.

- Class Committee Meetings are organized thrice in a semester.
- The collected feedbacks from students are analyzed by the HOD and the Principal.

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF CSE
STUDENTS FEEDBACK EVALUATION REPORT 2021-2022
EVEN SEMESTER 2021-2022

CLASS: II YEAR / IV SEMESTER				SECTION: A
S.NO	SUBJECT CODE	SUBJECT NAME	FACULTY NAME	EVALUATION
1	MA8402	PROBABILITY & QUEUEING THEORY	Asst. Prof. J MOHAMED ABITHAYAR	4.41
2	CS8491	COMPUTER ARCHITECTURE	Asst. Prof. J SHYMLA	3.89
3	CS8492	DATABASE MANAGEMENT SYSTEMS	Asst. Prof. P.P. DEVI	4.16
4	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS	Asst. Prof. AFSHIA NASRIN	4.24
5	CS8493	OPERATING SYSTEMS	Asst. Prof. GRACE PRASANNA	4.08
6	CS8494	SOFTWARE ENGINEERING	Asst. Prof. S.N. MOHAMED IRFAN	4.2

CLASS: IV YEAR / VII SEMESTER				SECTION: A
S.NO	SUBJECT CODE	SUBJECT NAME	FACULTY NAME	EVALUATION
1	GE8076	PROFESSIONAL ETHICS IN ENGINEERING	Asst. Prof. A MOHAMED MYDEEN	4.88
2	CS8080	INFORMATION RETRIEVAL TECHNIQUES	Asst. Prof. KHAJA MOHAIDEEN	4.01

CLASS: II YEAR / IV SEMESTER				SECTION: B
S.NO	SUBJECT CODE	SUBJECT NAME	FACULTY NAME	EVALUATION
1	MA8402	PROBABILITY & QUEUEING THEORY	Asst. Prof. J MOHAMED ABITHAYAR	4.05
2	CS8491	COMPUTER ARCHITECTURE	Asst. Prof. J SHYMLA	3.9
3	CS8492	DATABASE MANAGEMENT SYSTEMS	Asst. Prof. SUBATHRA	4.29
4	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS	Asst. Prof. AFSHIA NASRIN	4.23
5	CS8493	OPERATING SYSTEMS	Asst. Prof. AMARSHREE	4.19
6	CS8494	SOFTWARE ENGINEERING	Asst. Prof. S.N. MOHAMED IRFAN	4.56

CLASS: IV YEAR / VII SEMESTER				SECTION: B
ROLL NO	SUBJECT CODE	SUBJECT NAME	FACULTY NAME	EVALUATION
1	GE8076	PROFESSIONAL ETHICS IN ENGINEERING	Asst. Prof. A MOHAMED MYDEEN	4.8
2	CS8080	INFORMATION RETRIEVAL TECHNIQUES	Asst. Prof. KHAJA MOHAIDEEN	4.86

Handwritten notes:
 Asst. Prof. J SHYMLA feedback evaluation is less than 4. She was advised to undergo a training program in every University department.
 Asst. Prof. J SHYMLA
 HOD/CS
 Asst. Prof. A MOHAMED MYDEEN
 PRINCIPAL
 Asst. Prof. KHAJA MOHAIDEEN
 PRINCIPAL
 AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING



Figure 2.40 Student Feedback Evaluation Report- (2021-2022)- Even Semester

- After the feedback analysis, suggestions are shared with the respective teachers to improve their course delivery skills by participating or attending special FDPs or Workshops and in various other courses.
- A scanned copy of the feedback form is shown in Figure 2.41.

17/NOV/2021



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
 "Nizars Educational Campus" Muthapudupet
 IAF-Avadi, Chennai - 600 055.



STUDENTS FEEDBACK FORM

EVALUATING THE TEACHING PROCESS

(To be filled by Students)

Name of the Student & Reg.No (optional): S.K. Adnan Sami

Academic Year: 2nd [2021-22]
 Semester/Sec: III - B

Department: CSE

This Feedback is being sought from you as a part of the continual improvement program in vogue in every Department. Please give your fair and unbiased response. You may rank the Teacher on a scale of 1-5 in each box as your feedback score for each parameter.

(5 - Excellent 4 - Very Good 3 - Good 2 - Satisfactory 1 - Poor)

S. No.	Subject Code	MA8251	CS8235	CS8291	CS8292	EC8295
	Name of the Faculty Member					
Please read the lines below as "The Teacher."						
1	Comes to the class on time	5	5	5	5	5
2	Comes well prepared for the class	3	4	4	3	4
3	Engages classes regularly and maintains discipline.	3	4	3	3	3
4	Speaks clearly and audibly, writes and draws legibly	3	4	4	3	4
5	Covers all the topics on time.	3	4	3	3	3
6	Offers timely assistance and counseling to the Students.	3	4	4	3	4
7	Asks questions to promote interaction and reflective thinking.	3	3	3	3	3
8	Explains clearly and effectively the concepts/principles with appropriate examples.	3	4	4	3	4
9	Encourages, compliments, praises the originality and creativity displayed by the Students.	3	3	4	3	4
10	Is understanding and unbiased in dealing with the Students.	3	4	4	3	3

Remarks (if any):

33 38 38 32 37

[Signature]
 17/11/21

HEAD
 Computer Science & Engineering
 Aalim Muhammed Salegh
 College of Engineering

[Signature]
 17/11/21

PRINCIPAL
 AALIM MUHAMMED SALEGH
 COLLEGE OF ENGINEERING


Figure 2.41 Teacher Evaluation Feedback Form

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:

1. As per Anna university academic regulations, in each theory course, two Midterm Examinations and one model examination are to be conducted as per academic calendar. The first term test will be covering CO1 and half of CO2. Second midterm will consist of the remaining half of CO2 and CO3. Model Exam will consist of CO1, CO2, CO3, CO4 and CO5. Depending on the performance of the students for each exam, retest will be conducted.
2. Faculty members are advised to use Blooms taxonomy to prepare the question papers in such a way to cover the prescribed syllabus and ensure the relevant course outcomes.
3. The question paper for the Midterm Examination is of 90 minutes duration and consists of 5 two marks descriptive type questions, 3 descriptive type questions out of two questions having 13 Marks and one question of 14 marks.
4. The question paper for the Model Examination is of 180 minutes duration and consists of 10 two marks descriptive type questions, 6 questions out of which the student has to answer any five questions having 13 Marks each and one descriptive type question having 15 mark respectively.

		Max.Marks:100 Time: 180Mins Date: 08.06.2022
PART-A (10*2=20 Marks)		
1. Define: Software Engineering.	(BTL1)(CO1)	
2. List any two agile process models.	(BTL2) (CO1)	
3. Differentiate: Functional and Non-Functional requirements.	(BTL2) (CO1)	
4. State two advantages of using Petri Nets.	(BTL1) (CO2)	
5. How does the Data Flow diagram help in design of software system?	(BTL1) (CO3)	
6. List the levels of testing.	(BTL2) (CO3)	
7. Define: Reverse Engineering.	(BTL1) (CO3)	
8. List two advantages of using COCOMO model.	(BTL2) (CO3)	
9. Compare: Project Risk vs Business Risk.	(BTL2) (CO3)	
10. What is budgeted cost of work scheduled?	(BTL1) (CO3)	
PART-B (5*13=65 Marks)		
11 a. Compare the Waterfall, Prototyping and Spiral model. List the features of each model, advantages and disadvantages and a type of application where the model will be acceptable. (13)	(BTL2) (CO2)	
(Or)		
b. i) Define Agility. List any five principles of agility. (5)		
ii) Explain the phases in Extreme Programming process. (8)	(BTL1) (CO1)	
12 a. Develop the Software requirements document for the following requirement. A Coffee vending machine serves coffee to customers. A customer can choose a type of coffee among a list of options, supply the amount required and get served. Each coffee is prepared by adding units of hot water, coffee powder, milk and sugar. The recipe for each coffee is stored. (13)	(BTL1)(CO1)	
(Or)		
b. List any two techniques used for eliciting requirements. Compare the two techniques and list where each is applicable. (13)	(BTL6) (CO6)	
	(BTL2) (CO3)	

13 a. List and explain any five fundamental software design concepts. (13)	(BTL2) (CO3)
(Or)	
b. i) Define Architecture. (2)	
ii) Explain and compare the following architectural styles: (4)	(BTL1)(CO1)
(1) Call and return architecture (4)	
(2) Object-oriented architecture (4)	
(3) Layered architecture (3)	(BTL1)(CO3)
14 a. i) Compare white box and black box testing. (4)	
ii) Write a procedure for the following: Given three sides of a triangle, return the type of triangle i.e.: equilateral, isosceles and scalene triangle. Draw the Control Flow Graph and calculate cyclomatic complexity to calculate the minimum number of paths. Enumerate the paths to be tested. (9)	(BTL2)(CO5)
(Or)	
b. i) Define: Refactoring. (2)	
ii) List the phases in software reengineering process model and explain each phase. (11)	(BTL1)(CO3)
	(BTL2)(CO3)
15 a. List the features of LOC and FP based estimation models. Compare the two models and list the advantages of one over other. (7+6)	(BTL2)(CO3)
(Or)	
b. i) Define: Risk. (2)	
ii) List the types of risk and give examples for each. (5)	(BTL1)(CO1)
iii) List and explain the phases in risk management. (6)	(BTL2)(CO2)
	(BTL2)(CO2)
PART-C (1*14=14 Marks)	
16. a. Prepare a software requirement specification document for a "Library Management System". (14)	(BTL1)(CO6)
(Or)	
b. Outline the steps in function point analysis with an example. (14)	(BTL5)(CO3)

Figure 2.42 Model Exam Question Paper – CS8494 – SE – II Year - IV Semester- 2021-2022

5. The quality of the question paper is ensured by the Principal and approved by the Head of the Departments.

B. Process to ensure questions map to the specified outcomes/ learning levels:

1. The Department Exam Cell Committee will examine the quality and relevance of the question papers.
2. The Course Committee will ensure the quality of questions, mapping with COs and learning levels as per the revised Anna university regulations (R-17).
3. if there is any discrepancy, Committee will suggest the alterations in the Question Paper.


C. Evidence of cos coverage in midterm examination:

The questions in the question paper are mapped with the course outcomes and it will be evaluated by the Faculty. The sample table is given below.

Table 2.15 Mapping of question papers with COs

Academic Year	2021-22		Semester:	III	
Subject Name	Data structures	Subject Code:	CS8381		
Assessment Type		IAT-I			
Mapping of questions with COs					
Question No.	CO1	CO2	C O3	C O4	CO5
Part A					
1	√				
2	√				
3	√				
4		√			
5		√			
Part B					
1 a	√				
1 b	√				
2 a		√			
2 b		√			
Part C					
3 a	√				
3 b		√			

The mapping of questions with COs and Blooms Taxonomy levels in Midterm Examinations are indicated in the Midterm question paper as shown in the Figure 2.43.

	AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING DEPARTMENT OF CSE INTERNAL ASSESSMENT – II SUB.CODE: CS8493 SUB.NAME: OPERATING SYSTEMS YEAR/SEMESTER: II / 04	Max.Marks:50 Time: 90Mins Date: 21.5.2022
---	---	---

PART-A (5*2=10 Marks)																			
1. Name and draw five different process states with the proper definition? 2. Distinguish between CPU bounded and I/O bounded process? 3. Differentiate preemptive and non-preemptive scheduling? 4. List out the data fields associated with Process Control blocks? 5. Give the queueing diagram representation of Process Scheduling?	(BTL1, CO2) (BTL2, CO2) (BTL2, CO2) (BTL6, CO2) (BTL2, CO2)																		
PART-B (2*13=26 Marks)																			
6 a. Compute average waiting time for the processes using non-preemptive SJF scheduling algorithm and FCFS algorithm (13) <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th>Process</th> <th>Arrival Time</th> <th>Burst Time</th> </tr> </thead> <tbody> <tr><td>P1</td><td>0</td><td>7</td></tr> <tr><td>P2</td><td>2</td><td>4</td></tr> <tr><td>P3</td><td>4</td><td>1</td></tr> <tr><td>P4</td><td>5</td><td>4</td></tr> <tr><td>P5</td><td>3</td><td>4</td></tr> </tbody> </table> (Or) b. Describe the differences among the short - term, medium - term, long - term and scheduling with suitable examples (13) 7 a. Outline a solution using semaphores to solve dining philosopher problem? (13) (Or) b. Explain critical section? Write the algorithm used for test and set to satisfy all critical section requirements? (13)	Process	Arrival Time	Burst Time	P1	0	7	P2	2	4	P3	4	1	P4	5	4	P5	3	4	(BTL4, CO2) (BTL4, CO1) (BTL4, CO1) (BTL4, CO1) (BTL1, CO2) (BTL5, CO2) (BTL2, CO2)
Process	Arrival Time	Burst Time																	
P1	0	7																	
P2	2	4																	
P3	4	1																	
P4	5	4																	
P5	3	4																	

PART-C (1*14=14 Marks)

8. a. Consider the following set of processes with the length of CPU Burst time given in milliseconds (14) (BTL5, CO2)

Process	Priority	Arrival Time	Burst Time
P1	3	0	10
P2	1	1	1
P3	3	2	2
P4	4	1	1
P5	2	2	5

Draw the Gantt chart for the execution of these processes using FCFS, SJF, Preemptive priority scheduling and Round Robin with time quantum of 2ms. Find the average waiting time and average turnaround time using each method?
 (Or)
 b. Consider the following page reference string: 1,2,3,4,5,3,4,1,6,7,8,7,8,9,7,8,9,5,4,4,5,3. How many page faults would occur for the following page replacement algorithms, assuming four frames? Remembering all frames are initially empty (14) (BTL5, CO1)
 (a) LRU replacement
 (b) FIFO replacement



PREPARED BY: 
 HOD - CSE
 PRINCIPAL: 

Figure 2.43 Scanned copy of Internal Exam Question Paper

D. Quality of assignment and its relevance to COs:

1. Assignments are given to the students to reach the outcomes of the courses to promote self-learning.
2. The assignments are used to evaluate the application-oriented knowledge gained by the students in the relevant course.
3. Evaluation of the assignment completed by the students will be done by giving importance to the extent with which the students have used multiple sources for collecting the information for the assignment as well as the presentation of the concept.
4. The evaluations of the assignments are based on the basic concepts, coverage of the courses and the way the student present it.

5. The Head of the Department/ Senior faculty members will also enrich the quality of the assignment questions by proper guidance.

E. Assessment process for CO attainment:

Course Outcome is evaluated based on the performance of students in internal assessments and in the end semester examination of a course (Internal- 40% and External - 60%).

Quality/Relevance of Assessment Process:

Internal Tests:

Internal tests serve to encourage students to keep up with course content covered in class. The questions in internal tests are framed in such a way that it should satisfy Bloom's Taxonomy, wherein each question is mapped to the appropriate course outcome of the respective course, which is evaluated based on the set attainment levels by the department. To ensure the quality of internal tests, the question paper is verified by the HOD and the principle.

Assignments:

Assignments are qualitative performance assessment tools designed to assess student's knowledge of engineering practices, framework and problem solving. Students are assigned course-related work to be completed outside of contact hours, and their submissions are graded on the basis of work quality and originality. A minimum of 2 assignments are given per course and each assignment is evaluated.

End semester Examination:

These end-semester examinations are of 3-hour duration and cover the entire syllabus of the course. It would normally satisfy all course outcomes for a particular course. The CO's are evaluated based on the set of attainment levels.

Evaluations:

After each Continuous Assessment Test, each course handling faculty member evaluates the answer scripts after completion of the examination. They prepare reports to analyse the learning level of the students to attain the COs and Pos.

Course Outcome is evaluated based on the performance of students in internal assessments and in university examination of a course.

1. Internal assessment contributes 40% .
2. University assessment contributes 60% to the total attainment of a CO.
3. In each semester, as specified in the lesson plan, two cycle tests and a model exam are scheduled. .
4. In order to conduct the various tests, the portions will be allocated by the Head of the Institution.

2.2.3 Quality of student projects (25)


Institute Marks : 25.00


A. Identification of projects and allocation methodology to faculty members:


1. Engineering is application of knowledge. The application must be carried out with judgment, to ensure that the resultant system is efficient and beneficial. Projects will be used as a discriminator to decide the quality of an engineering student.
2. The guidelines for successful completion of B.E Projects are to facilitate uniform regulation to be carried out during reviews. The Department will designate one faculty member as the Project Coordinator. Project Coordinator has to make the project related activities, such as conducting reviews and keeping records.

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
Department of Computer Science and Engineering - Project Review Circular for IV year students dated on 21/03/2022

REVIEW NO.	DATE	BATCH	REQUIREMENTS														
ZEROTH	21/03/2022	AMS CSE FYP 2022 01 to AMS CSE FYP 2022 10	1. A PowerPoint (PPT) that describes the following. > Objective of the Project > Problem Statement in existing systems > Proposed System (Block Diagram/flow charts/others) > Sub section identification - module 1, 2, 3, 4(What is to be done in each module should be mentioned) > Maximum 5 slides > 5 Minutes for Presentation and 2 Minutes for queries 2. Make all the corrections in the zeroth review and get the consent of supervisor. 3. The PowerPoint should be shown to internal supervisor. No one will be allowed to attend First review without Supervisor signature in the progress report (Annexure 1)														
	22/03/2022	AMS CSE FYP 2022 11 to AMS CSE FYP 2022 20															
FIRST	04/04/2022	AMS CSE FYP 2022 01 to AMS CSE FYP 2022 10	1. A complete knowledge of the proposed system is expected for this review. PowerPoint(PPT) that describes the following > Final Proposed System > Detailed Literature Review > How Much Percentage of work completed from 22/01/2020 to till date based on Action plan. > Maximum 10 slides > 5 Minutes for Presentation and 2 Minutes for queries 2. Make all the corrections in the first review and get the consent of supervisor 3. The PowerPoint should be shown to internal supervisor. No one will be allowed to attend second review without Supervisor signature in the progress report (Annexure 1)														
	05/04/2022	AMS CSE FYP 2022 11 to AMS CSE FYP 2022 20															
SECOND	18/04/2022	AMS CSE FYP 2022 01 to AMS CSE FYP 2022 10	1. The completion of the project is expected for this review based on proposed system. PowerPoint(PPT) that describes the following > Objective of the Project > Detailed Literature Review > Proposed System(Block Diagram) > Result(Final output screen shots) and discussion > Conclusion and Future work > Maximum 15 slides > 8 Minutes for Presentation and 7 Minutes for demonstration & queries 2. Make all the corrections instructed in the first & second review and get the consent of supervisor 3. No one will be allowed to attend the final review without supervisor signature in the progress report (Annexure 1) 4. Submission of the conference / journal paper														
	19/04/2022	AMS CSE FYP 2022 11 to AMS CSE FYP 2022 20															
FINAL	09/05/2022	AMS CSE FYP 2022 01 to AMS CSE FYP 2022 10	1. The complete demonstration of the project is expected for this review. 2. Submit the Final Project report with HOD and supervisor signature at the time of Model review 3. The Anna University UG project report format download from the following url http://www.annauniv.edu/academic_courses_desc/ugthesis.pdf 4. Submit four (4) copies plus individual student copy of Project reports <table style="margin-left: 20px;"> <tr> <td></td> <td style="text-align: center;">No of Copy</td> </tr> <tr> <td>Particulars</td> <td></td> </tr> <tr> <td>> Anna University</td> <td style="text-align: center;">01</td> </tr> <tr> <td>> General Library</td> <td style="text-align: center;">01</td> </tr> <tr> <td>> Department Library</td> <td style="text-align: center;">01</td> </tr> <tr> <td>> Supervisor</td> <td style="text-align: center;">01</td> </tr> <tr> <td>> Plus student copy(each one)</td> <td style="text-align: center;">-</td> </tr> </table>		No of Copy	Particulars		> Anna University	01	> General Library	01	> Department Library	01	> Supervisor	01	> Plus student copy(each one)	-
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Particulars																	
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> General Library	01																
> Department Library	01																
> Supervisor	01																
> Plus student copy(each one)	-																
	10/05/2022	AMS CSE FYP 2022 11 to AMS CSE FYP 2022 20															


PROJECT INCHARGE


HEAD - CSE


PRINCIPAL

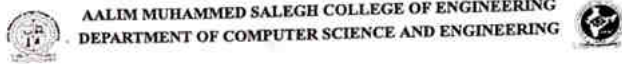
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Figure 2.44 Final Year Project Consolidated Review Schedule

3. The important process to be addressed while pursuing the projects is as follows:
 - o Selection of a project
 - o Planning, executing, and managing a project
 - o Documentation of a project
 - o Assessment of a project

The selection of a project and guide is a crucial step. So, the students were made aware of the product development ideas and Research Avenue of Computer Science and engineering through a “Pre-Project Work” Brainstorming session will be conducted by doctoral faculty member.

4. Students are given a free hand to select areas of project work, team members and a guide.



Faculty Member-Area of Interest

S.No	Faculty Member	Area of Interest
1	Prof. Dr. N.R.Shanker	Image Processing, Signal Processing, Deep Learning, Machine Learning and AR&VR ph. 9444200777
2	Asst. Prof. G.Sulthana Begum	Cloud Computing and Software Defined Networks
3	Asst. Prof Dr. M.Prabhu	Image Processing, Deep Learning, Embedded Systems, Transforms, VLSI Design
4	Asst. Prof Dr. E.Ganesh	Embedded system, Machine Learning, Bio Medical Signal Processing
5	Asst. Prof. M. Ahsan Shariff	Network Security and Cloud Computing
6	Asst. Prof. M. Pasupathi	Wireless Networking
7	Asst. Prof. V. Amarthree	Cyber Security, Machine Learning, Deep Learning, Data Science & Artificial Intelligence
8	Asst. Prof. J.Shamla	Networking and Data Mining
9	Asst. Prof. B. Nadheer Ahmed	Embedded system, Machine Learning, Data Science
10	Asst. Prof. S.N. Mohammed Irfan	Multimedia, NLP, Machine Learning
11	Asst. Prof. D. Gayathri	Network Security, Blockchain
12	Asst. Prof. R. Daisy Merina	Machine Learning, Internet of Things
13	Asst. Prof. P. Dhanya	Cloud Computing and BlockChaining
14	Asst. Prof. R. Sindhuja	Wireless Sensor Networks, AI, ML, DL, Blockchain

Review Committee Members

S.No	Faculty Member
1	Prof. Dr. N.R.Shanker
2	Asst. Prof Dr. M.Prabhu
3	Asst. Prof Dr. E.Ganesh
4	Asst. Prof. G.Sulthana Begum
5	Project Guide

Note:
Students must approach the above faculty member based on your project domain and request them to be as supervisor for your project. A Progress report should be submitted after getting acknowledgement from them.
Each Faculty member should be a supervisor for a maximum of 2 batches.

[Signature]
6/21/23
HEAD
Computer Science & Engineering
Aalim Muhammed Salegh
College of Engineering

[Signature]
6/21/23
Principal
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 2.45 List of Faculties with Area of Specialization

- The student team should approach the desired faculty member and get his approval to provide guidance by explaining the project idea.
- To ensure the quality of the project work, each faculty member is permitted to guide not more than three batches. For the ease of guide selection all the faculty members' qualification, area of interest and research publications will be displayed in the department notice board. After discussions with HOD project coordinator and supervisor, they will finalize the topic for the project work.
- Each project team will consist of not more than four members.

**ANNA UNIVERSITY
CHENNAI - 25**

PROJECT DETAIL

College Code: 1101

College Name: AALIM MUHAMMED SALEEM COLLEGE OF
ENGINEERING

Supervise Name: ASST. PROF. V. AMARSHREE

BATCH NO.	REG NO.	NAME OF THE STUDENTS	PROJECT TITLE	DOMAIN
	110118104006	A. AHMEDDULLAH DAVITA	A SMART IoT DEVICE	INTERNET
	110118104008	A. ANEEN	FOR EMERGENCY	OF
	110118104011	A. ASHRAF ALI	INFORMATION	THINGS
	110118104019	K. HARIHARAN	SERVICE	

[Signature]
HOD/CSE
14/12/2023

[Signature]
PRINCIPAL
14/12/2023
PRINCIPAL
VALIM MUHAMMED SALEEM
COLLEGE OF ENGINEERING

Figure 2.46 Project Title approval form

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

Table 2.16 Mapping of Student Projects with POs and PSOs for academic year 2018– 2022

Batch No.	Register Numbers	Supervisor	Title of the Project	Type of project	POs & PSOs To Which Mapped
1	110118104001	Er Pasupathi M	Neural Networks to Generate Captions for Image	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO2
	110118104005				
	110118104007				
2	110118104002	Er.Subathra U	An Adptive Extraction And Classification Brain Tumor Using Faster R-Convolutional Neural Network	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO3
	110118104003				
	110118104023				
	110118104024				
3	110118104004	Er. Shamlam	Enhanced Password Authentication System and Validation	Application	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO3
	110118104034				
	110118104035				
4	110118104009	Er. Amarshree	Enhancement Of COVID 19 Prediction Using Deep Learning	Deep Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO4
	110118104013				
	110118104016				

5	110118104011	Er. Sulthana Begam	Accident Detection System and Notification Using Computer Vision and ML Techniques	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO4
	110118104014				
	110118104022				
6	110118104006	Er. Sulthana Begum	Alzheimers Prediction Using Supervised Machine Learning Techniques	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO4
	110118104012				
	110118104018				
	110118104025				
7	110118104015	Er. Mohammed Irfan SN	Block Chain based Electronic Voting Machine	Block Chain Technology	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO5
	110118104017				
	110118104026				
8	110118104019	Er. Afshaya Nasrin	A Comprehensive Framework for Optimal Development of Strategic Business Plan Integration	Application	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO5
	110118104021				
	110118104027				
	110118104032				
9	110118104028	Er. Mohammed Irfan SN	Document Management Using Block Chain	Block Chain Technology	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO5
	110118104030				
	110118104031				
	110118104033				
10	110118104036	Er. Grace Prasanna	Text Extraction from Images Using Easvoc and Streamlit	Image Processing	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO5
	110118104037				
	110118104046				
11	110118104038	Er. Grace Prasanna	Block Chain Based Public Integrity Verification for Cloud Storage	Block Chain Technology	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO6
	110118104041				
	110118104048				
	110118104050				
12	110118104039	Er. Ahsan Sharif	Plant Disease Identification and Crop Recommendation using Artificial Intelligence	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO6
	110118104064				
	110118104703				
13	110118104040	Er. Amarshree	Drowsy Driver Alert System using Deep Learning Approach	Deep Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO6
	110118104042				
	110118104044				
14	110118104043	Er. Ahsan Shariff	Enabling Encrypted Emails for Security Services	Network Security	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO7
	110118104047				
	110118104051				
	110118104061				
15	110118104054	Er. Amarshree	Phishing Website Prediction using Machine Learning and Deep Learning Algorithms	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO7
	110118104701				
	110118104704				
16	110118104057	Er. Subathra U	Real Estate Price Prediction using Data Science and Machine Learning	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO7
	110118104058				
	110118104059				

17	110118104052	Er Pasupathi M	Hate Speech Detection of Cyberbully using Natural Language Processing	Natural Language Processing	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO7
	110118104053				
	110118104055				
	110118104062				
18	110118104063	Dr. N.R. Shanker	Using Machine Learning to Understand Customers Behaviour	Machine Learning	PO3,PO5,PO8, PO10,PO11,PO12,PSO1,PSO8
	110118104301				
	110118104702				
	110118104049				

Table 2.17 Mapping of Student Projects with POs and PSOs for academic year 2017 – 2021

Batch No.	Register Numbers	Supervisor	Title of the Project	Type of project	POs & PSOs To Which Mapped
1	110117104002	Dr.N.R.Shanker	An Enhanced Machine Learning Technique for Object Detection and Recognition in Traffic control	Machine Learning	PO3,PO5,PO8,P O10,PO11,PO12, PSO1,PSO2
	110117104004				
	110117104005				
	110117104023				
2	110117104003	Er.J.Mary Jenifer	Dairy Products Delivery Application using Flutter Framework	Application	PO3,PO5,PO8,P O10,PO11,PO12, PSO1,PSO2
	110117104011				
	110117104008				
	110117104016				
3	110117104006	Er.M.Ahsan Shariff	Applying Data Mining Techniques in Cyber Crime	Machine Learning	PO3,PO8,PO10,P O11,PO12, PSO1,PSO2
	110117104021				
	110117104056				
	110117104059				
4	110117104007	Er.M.Aarthy	Secure File Storage in Cloud using Hybrid Cryptography Technique	Cloud Computing	PO3,PO5,PO8,P O10,PO11,PO12, PSO1,PSO2
	110117104032				
	110117104038				
	110117104060				
5	110117104018	Er.M.Aarthy	AI based BOT to Manage and Administer Personal Data as Cloud Service	Cloud Computing	PO3,PO5,PO8,P O10,PO11,PO12, PSO1,PSO2
	110117104055				
6	110117104009	Er.K.Priya	Data Leakage Detection in Cloud Computing	Cloud Computing	PO3,PO4,PO5,P O8,PO10,PO11, PSO1,PSO2
	110117104012				
	110117104046				
7	110117104010	Er.M.Ahsan Shariff	An Enhanced Framework for Detecting Surfing Attack using Voice Recognition	Network Security	PO3,PO4,PO5,P O8,PO10,PO11, PSO1,PSO2
	110117104014				
	110117104029				
8	110117104019	Er.K.Khaja Mohideen	Kalvi-An Enhanced Information Retrival Technique for Education Application	Application	PO3,PO4,PO5,P O8,PO10,PO11, PSO1,PSO2
	110117104020				
	110117104024				

9	110117104025	Er.P.P.Devi	Stock Market Data Analysis and Prediction using Machine Learning	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104026				
	110117104027				
	110117104031				
10	110117104030	Er.G.Sulthana Begum	Online Crop Shop Web Application for Maximising Profit of Farmers	Web Application	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104033				
	110117104037				
	110117104043				
11	110117104034	Er.K.Khaja Mohideen	Machine Learning Approach for Classifying and Mining News	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104036				
	110117104039				
	110117104040				
12	110117104035	Er.J.Mary Jenifer	Implementation of Routing and Load Balancing using AWS Services	Web Service	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104042				
	110117104048				
	110117104058				
13	110117104041	Er.K.Priya	Trustworthy Electronic Voting using Blockchain Technology	Blockchain Technology	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104049				
	110117104050				
	110117104054				
14	110117104045	Dr.N.R.Shanker	Multimodal (RGB-D) Deep Learning Approach for Robust Sign Language Recognition	Deep Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104047				
	110117104051				
	110117104701				
15	110117104052	Er.G.Sulthana Begum	Hosting Serverless Web Application using AWS	Web Application	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104053				
	110117104057				
16	110117104051	Er.P.P.Devi	Detection of Diabetic Retinopathy using Convolutional Neural Network	Deep Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110117104701				
	110117104009				
	110117104021				

Table 2.18 Mapping of Student Projects with POs and PSOs for academic year 2016– 2020

Batch No.	Register Numbers	Supervisor	Title of the Project	Type of project	POs & PSOs To Which Mapped
1	110116104014	Er. K. Priya	Bus Check: Multi Sensor Interface for proactive accident Avoidance using LIFI Vehicle positioning, Foot Board & Overload Monitoring:	Application	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110116104025				
	110116104028				

2	110116104016	Er.NoorulJulaiha	Accidents Avoidance Using Lifi Vehicle Positioning, Foot Board & Over Load Monitoring	Application	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104023				
	110116104034				
3	110116104015	Er.P.P.Devi	P Spec-SQL: Enforce Privacy Control For Distributed Data Analytics Security Computing	Application	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104031				
4	110116104002	Er.M.Aarthi	Diagnosis And Cure Of Plant Diseases Based On Machine Learning	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104014				
	110116104018				
5	110116104026	Er. R.Gayathri	Illusion Pin For ATM	Application	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104027				
6	110116104020	Er. K. Priya	E-Licensing Using Fingerprint Sensor And The Attachment Of Blackbox Using Raspberry Pi	Embedded Systems	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104021				
7	110116104003	Er. Shaik Kader Hussain	Meta Analysis On Prediction Of Cross Product Defect	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104009				
	110116104011				
8	110116104039	Er.NoorulJulaiha	Hierarchical Multi-Clue Fusion for POI popularity with Hetrogeneous Tourist Information	Application	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104041				
	110116104044				
9	110116104032	Er.M.Ahsan Shariff	Emotional analysis in Online Social network(OSN)	Application	PO3,PO4,PO5,PO8,PO10,PO11,PSO1,PSO2
	110116104037				
	110116104302				
10	110116104024	Er.NoorulJulaiha	Popularity Prediction With Heterogeneous Data Using Multicube Modelling For Poi	Application	PO3,PO4,PO5,PO8,PO10,PO11,PSO1,PSO2
	110116104017				
	110116104033				
11	110116104030	Er.P.P.Devi	Online Petrol Bunk Ordering System Using Nearest Location	Application	PO3,PO4,PO5,PO8,PO10,PO11,PSO1,PSO2
	110116104068				
	110116104076				
12	110116104046	Er. Shaik Kader Hussain	Real Time Unusaul Event detection Using IoT	IoT	PO3,PO4,PO5,PO8,PO10,PO11,PSO1,PSO2
	110116104036				
	110116104029				
13	110116104010	Er.K.Khaja Mohideen	Smart Attendance Monitoring System Using Facial Recognition	Image Processing	PO3,PO4,PO5,PO8,PO10,PO11,PSO1,PSO2
	110116104040				
	110116104045				

14	110116104001	Er.M.Aarthy	Human Detection And Forecasting Using Image Processing Technique	Image Processing	PO3,PO4,PO5,PO8,PO10,PO11,PSO1,PSO2
	110116104005				
	110116104022				
	110116104042				
15	110116104035	Er.NoorulJulaiha	Implementation Of Cryptographic Encoding And Surveillance In Cyber Security	Network Security	PO3,PO4,PO5,PO8,PO10,PO11,PSO1,PSO2
	110116104007				
	110116104019				
16	110116104038	Er.NoorulJulaiha	An Inception Of Acquirement Inferior By Perception Augment	Application	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
17	110116104012	Er.NoorulJulaiha	Mechanism To Prevent Medicine From Excess Wastage	Application	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
18	110116104092	Er. K. Priya	Brain Tumor Classification With Reim And Prediction Of Tumor Cells With Machine Learning	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104064				
	110116104061				
19	110116104063	Er.M.Aarthy	Securing Personal Health Records In Cloud Using Multi Authority Attribute Based Encryption	Cloud Computing	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104073				
	110116104078				
20	110116104080	Er. R.Gayathri	E-Voting: Commencing A More Viable Way Of Preventing Fake Votes Through A Secure Network System	Network Security	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104089				
	110116104081				
	110116104074				
21	110116104047	Er. R.Gayathri	Presentation on Hate Speech Detection Analysis On Twitter	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104048				
	110116104087				
22	110116104084	Er. Shaik Kader Hussain	Student Performance Analysis Using Machine Learning Techniques	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104077				
	110116104066				
23	110116104056	Er.M.Ahsan Shariff	Drowsiness Detection Based On Drivers Face Behaviour Using Machine Learning	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104072				
	110116104085				
24	110116104060	Er.P.P.Devi	Detection Of Diabetic Retinopathy Using Convolutional Neural Networks	Deep Learning	PO3,PO5,PO8,PO10,PO11,PO12,PSO1,PSO2
	110116104082				
	110116104050				

25	110116104052	Er.Shaik Kader Hussain	A Drowsy Alerting system using Machine Learning	Machine Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110116104059				
	110116104088				
26	110116104065	Er.Ahsan Shariff	A Framework For Traffic Density Analysis Using Image Processing	Image Processing	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110116104083				
	110116104086				
27	110116104055	Er.P.P.Devi	Augmented Reality For Indoor Navigation Using Scene Analysis By Travel Salesmen Algorithm	Application	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110116104090				
	110116104401				
	110116104006				
28	110116104054	Er. K. Priya	Deep Learning Based Approach Automative Detection Of Bike Riders Without Helmet	Deep Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110116104053				
	110116104051				
29	110116104069	Er.Ahsan Shariff	Skin Disease Prediction Using Deep Learning	Deep Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110116104501				
	110116104067				
30	110116104091	Er.K. Priya	Detection Of Calories From Food Images For Cooking Recipes Using Deep Learning	Deep Learning	PO3,PO5,PO8,PO10,PO11,PO12, PSO1,PSO2
	110116104071				
	110116104075				

C.Continuous monitoring mechanism and evaluation for the projects:

1. The project review circular will be posted by the department and will be communicated to the students for their presentation.

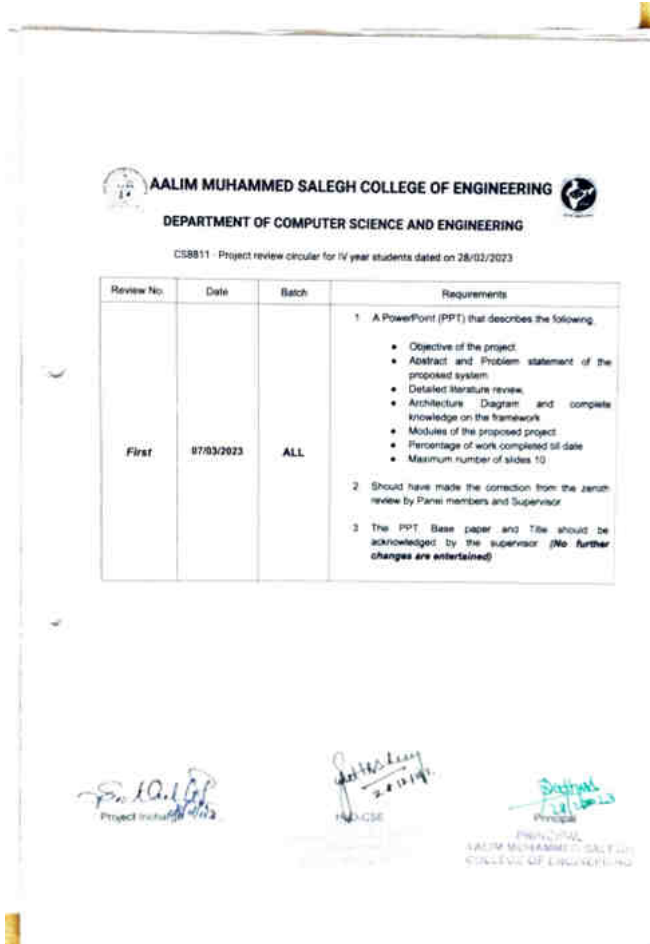


Figure 2.47 Project Review Circular Evaluation Process for Projects

2. During their presentation Abstract, Existing system and proposed work with literature survey will be discussed and further modification will be informed at the same time. It is mandatory to carry out the project note during their work and it should be duly signed by the project supervisor followed by the Project co- coordinator.

3. Project review committee members monitor the progress of their batch through their project plan for completing the project work in time.

Table 2.19 Rubrics for Internal Evaluation

Criteria	<30%	>30 to 65%	>65%
Originality and novelty of the project(10 Marks)	No originality and novelty found (10 Marks)	Continuation of old work with little improvement(5 Marks)	New work with literature backup (10 Marks)
Grasp of project idea (10 Marks)	No awareness about the project work(0 Marks)	Satisfactory level of understanding(5 Marks)	Better understanding with scientific principles and applications (10 Marks)
Quality of presentation slides (10 Marks)	Not adhering with the provided template (0 Marks)	In the standard template but not maintaining the alignment and order. (5 Marks)	Slides are well organized and neat. (10 Marks)
Adherence to the time frame (10 Marks)	Large deviation to the proposed time frame without appropriate explanation (0 Marks)	Deviation of more than 10 days with appropriate justification. (5 Marks)	No deviation or deviation less than 7 days with proper justification(10 Marks)
Results interpretation and conclusion (10 Marks)	In complete results or wrong interpretation.(0 Marks)	Low interpretation with the obtained results. (5 Marks)	Good interpretation with the results. (10 Marks)
Clarity of answers in Viva (10 Marks)	Poor or no response (0 Marks)	Satisfactorily provided answers (5 Marks)	Clear explanation with scientific justification. (10 Marks)

D. Process to assess individual and team performance:

The performance of the individual team member of the project is tested at the time of presentation in opinions by means of considering the subsequent criterions:

1. Presentation skills
2. Communication skills
3. Confidence in the project work
4. Attainment of individual scope of work
5. Overall contribution for the project

The performance of the project team is examined by considering the following criterion. Knowledge of the other member contribution towards the project

1. Coordination in consolidating work
2. Time management
3. Design/Methodology

E. Quality of completed projects:

The Quality of completed projects and best projects are assessed based on the following factors:

1. Paper may be published either in Conference / Journals.

Academic Year 2021-2022			
Arul Balaji S (110118104012)	Alzheimers Prediction Using Supervised Machine Learning Techniques	St. peter's College of Engg &Tech-Paper Presentation in Technical Symposium	10-05-2022
Ganesh R (110118104018)	St. peter's College of Engg &Tech-Paper Presentation	III prize	



Figure 2.48 Paper Presentation – III Prize –Technical Symposium

2. Overcome the real time complications.
3. Meet the industrial standard with low requirements and operational cost.
4. External examiner's review /feedback.
5. Project recognition by awards or project expo.

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

A. Industry Supported Laboratories:**Table 2.2.11 Industry Supported Laboratories**

S.No.	Name of laboratory	Type of industry	Organization Name	Objectives
1.	COMPUTER LAB	Quality Assurance and Control	Chase Technologies	To train students in different technique
2.	CPD CELL	Quality Assurance and Control	TCS Ion	To train students in aptitude and technical process
3.	JIO ROOM	Quality Assurance and Control	JIO Net Fiber	To train students in Non destructive technique



Ravikumar Raju <raviams@gmail.com>

User id

kishorekumar.j@tcs.com <kishorekumar.j@tcs.com>
To: Ravikumar Raju <raviams@gmail.com>
Cc: d.arunkumar1@tcs.com

Fri, Nov 9, 2018 at 4:11 PM

Dear Sir,

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S. No	Course Name	Login Count
1	Certified Enterprise Network Administrator (CENA)	62
2	Android Application Development and Testing	192
3	Programming in C	224
4	Programming in C++	33
5	PHP and MySQL	39
Total		550

Link : <https://learning.tcsionhub.in>

User Name : - raviams@gmail.com
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Regards
Kishorekumar J
SMB Platforms, iON
Tata Consultancy Services Limited
Cell:- 9486447724
Mailto: kishorekumar.j@tcs.com
Website: <http://www.tcs.com>

Experience certainty. IT Services
Business Solutions
Consulting

Handwritten signatures and initials: "P.K.", "CK", and "Ravi Raju"

From: Ravikumar Raju <raviams@gmail.com>
To: Kishorekumar J <kishorekumar.j@tcs.com>
Date: 09/06/2018 05:57 PM
Subject: User id

"External email. Open with Caution"
[Quoted text hidden]

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Figure 2.49: TCSIONHUB Digital Hub License

B. Industry involvement in the program design and partial delivery of courses by industry experts:

The technical talks/ guest lecturers delivered by industry experts shown in the below table:

Table 2.21 List of Technical Talk/ Guest Lectures Arranged for CAY (2021-2022)

S.No.	Title of the Talk	No. of Hours	Resource Person	Target Students
1	Internet of Things Hands on Session on Arduino, Raspberry PI and Contiki OS	1	Dr. Abdul Quadir MD, Assitant Professor, VIT University, Chennai	II & III rd Year / 161
2	Data analytics using MATLAB	2	Dr.N.R.Shanker, Professor, Aalim Muhammed Salegh College of Engineering	II & III rd Year / 161
3	Robotic process automation	1	Er.Syed Ali Fathima, Team Lead/Sr.Associate, Cognizant Technology Solutions	II & III rd Year / 161
4	Machine Learning and Deep Learning	1.5	Mr.V.Raguraman, Manager BI, EYEOTA, Singapore	IV Year / 60
5	Digital Marketing	2	Mr.S.Senthil Raj, S-Gen Energy and Infra Pvt Ltd	IV Year / 60

Table 2.22 List of Technical Talk/ Guest Lectures Arranged for CAY (2020-2021)

S.No.	Title of the Talk	No. of Hours	Resource Person	Target Students
1	Developing Android Apps with MIT	2.5	Mr.Remo Jesuraj, Chase Technologies	IV Year / 55
2	Google Clouds	2.5	Mr.M.Ijaz Ahamed, Senior Team Lead, GP Strategies India Pvt Ltd.	IV Year / 55

Table 2.23 List of Technical Talk/ Guest Lectures Arranged for CAY (2019-2020)

S.No.	Title of the Talk	No. Of Hours	Resource Person	Target Students
1	Machine Learning	2	Mr.Vijayaraghavan, Technical Trainer, NIIT.	IV th Year 87
2	Block chain technology	2	Mr.Dinesh kumar, Technical Trainer, NIIT.	II nd Year 57
3	Digital transformation using devops	2	Mr.Dinesh kumar, Technical Trainer, NIIT	III rd Year 62
4	Advanced cyber security and computer forensics	2.5	Mr.Jeyavel, UX Designer, MPURA Inc.	IV th Year 87
5	The Creative Economy and the Opportunities in Media and Entertainment	2.5	Mr. Sathish, Image Creative Education.	II, III rd Year 119
6	Intelligent engineering Optimization using PYOMO	2.5	Dr.M.Lordwin Cecil Prabhakar, Associate Professor, VeITech R&D Institute, AVADI	IV th Year 87
7	Animation by image	1	Creative Education	II, III rd Year 119

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

Table 2.24 The List of MOUs are shown in the table

S.No.	Name of the Industry with Contact Details	Date of MOU Signed	PURPOSE
ACADEMIC YEAR 2022 - 2023			
1	M/s TECH MAHINDRA FOUNDATION AND THE MAFOI FOUNDATION SMART CENTER	13.06.2022	To provide various skill development programs/ courses in the field of banking, finance and securities industry.
ACADEMIC YEAR 2021 - 2022			
2	M/s VANAASPIRE PVT.LTD	11.02.2022	To promote skill based training, Education, Placement, Industrial visit, Expert Lecture.
3	M/s FELICET INFRA PVT.LTD.	11.02.2022	To promote skill based training, Education, Placement, Industrial visit, Expert Lecture.
4	M/s SAI EDUCATION AND JOB CONSULTANCY PVT.LTD	11.02.2022	To promote skill based training, Education, Placement, Industrial visit, Expert Lecture.
5	M/s INFOCARE ENGINEERING SERVICES PVT.LTD.	11.02.2022	To promote skill based training, Education, Placement, Industrial visit, Expert Lecture.
6	M/s IF SELF TECHSMART SOLUTIONS PVT.LTD.	07.10.2021	To promote skill based training, Education, Placement, Industrial visit, Expert Lecture.
ACADEMIC YEAR 2020 - 2021			
7	NAZARETH ARTS AND SCIENCE	18.01.2021	For skill development, outcome based training, industry ready skill and related services.

ACADEMIC YEAR 2019 - 2020			
8	M/s GIRNARSOFT EDUCATIONAL SERVICES PVT.LTD.	03.01.2020	To provide various educational courses/programs.
9	M/s SEGER OVERSEAS PVT LTD	17.02.2020	To conduct Seminars, promotional events, awareness programs
10	M/s MOSOOK TRAINING ACADEMY & CONSULTANTS PVT.LTD.	12.10.2019	To provide training in IT infrastructures management, software testing, soft skill training,etc.
11	M/s ASPIRING MINDS ASSESSMENT PVT.LTD	17.09.2019	To provide training on employment skills, placement support initiatives.
12	M/s YUNONA TECH SOLUTIONS PVT LTD	24.08.2018	To conduct seminar/field workshop/FDP/In-Plant training, Certified Training Programs for students.
13	M/s ASPIRING MINDSASSESSMENT PVT LTD	20.09.2018	To provide training on employment skills, placement support initiatives.
14	M/s IGROW GLOBAL SOLUTIONS PVT LTD	20.07.2018	To enhance the students skills in technical/general/managerial competencies and mould them suitable to industry needs and current trends.



12-10-19
 14628
 AALIM MUHAMMED SALEGH
 COLLEGE OF ENGINEERING
 TAMIL NADU
 65AB 957102
 S. ANNAYA PERUMAL
 STAMP VENDOR
 No. 156/2A, BHARATHI SALAI,
 ROYAPETTAH, CHENNAI-600 014
 TAMILNADU LG. No: 2773/94

MEMORANDUM OF UNDERSTANDING

This Training Agreement ("Agreement") is made as of Saturday, October 12th, 2019 by and between Mosook Training Academy & Consultants PVT LTD, having its office at 2nd Floor, Sindhur plaza, No:42, Montieth Road, Egmore, Chennai – 600 008, India, (hereinafter referred to as "Mosook") and, Aalim Muhammed Salegh Group of Educational Institutions, Muthapudupet, IAF-Avad, Chennai-600055, TamilNadu campus (hereinafter referred to as "AMS Group").

WHEREAS:

Proprietary confidential

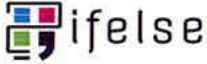


S. Segu Jamaludeen

Page 1 of 6

S. SEGU JAMALUDEEN
 SECRETARY
 AALIM MUHAMMED SALEGH TRUST

Figure 2.50 MOU between Aalim Muhammed Salegh College of Engineering and Masook Training Academy & Consultants PVT Ltd



IFELSE TECHSMART SOLUTIONS PRIVATE LIMITED
CIN: U72900TN2021PTC141576
#16/4, Salai Street, Choolai, Chennai, TN, India 600112.
www.ifelsetech.com | info@ifelsetech.com | +91 98848 99868

Memorandum of Understanding (MoU)
between
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
and
IFELSE TECHSMART SOLUTIONS PRIVATE LIMITED

This Memorandum of Understanding (hereinafter called as the "MoU") is entered into on this the 07th day of October 2021 by and between. **AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, MUTHAPUDUPET, AVADI IAF, CHENNAI, 600055**, the First Party represented herein by its Principal, and **M/s. IFELSE TECHSMART SOLUTIONS PRIVATE LIMITED, [CIN : U72900TN2021PTC141576], #16/4, SALAI STREET, CHOOLAI, CHENNAI, TN, INDIA 600112**, the Second party, and represented herein by its Managing Director **Mr. MOHAMMED AADIL HAMEED**

WHEREAS:

- A) First Party is a Higher Educational Institution named: **AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING,**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education, Placement, Industrial Visit, Expert Lecture.
- D) **M/s. IFELSE TECHSMART SOLUTIONS PRIVATE LIMITED** - the Second Party is engaged in Placement and Training.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:

CLAUSE 1 CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.
- 1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.



Figure 2.51 MOU between Aalim Muhammed Salegh College og Engineering and IFELSE Techsmart Solutions PVT Ltd

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

Institute Marks : 15.00

A. Industrials Visits:

The industrial visits arranged for the students are listed in the table

Table 2.2.16 List of Internships for CAT (2021-2022)

S.No.	CLASS & SECTION	PLACES VISITED	NO OF STUDENTS	DATE
ACADEMIC YEAR - 2022-2023				
1	II A	Regional Meteorological Centre	II Year - 120	22.09.2022
2	II B			
ACADEMIC YEAR -2021-2022				
1	III A & B	Regional Meteorological Centre	III Year - 85	30.05.2022
2	III	Mels system & services	III Year - 1	20.12.2021
ACADEMIC YEAR -2019-2020				
1	III	National Atmospheric Research Laboratory (NARL)	III Year - 57	07.02.2020
2	II	Image Creative Education	II Year - 63	05.09.2019

B. Industrial/Internship/Summer Training For Students**Table 2.2.17 List of Internships for CAT (2019 - 2020)****C. Impact analysis of industry training:**

- a. All these Initiatives related to industry internship/summer training have positively impacted the learning culture of students.
- b. MOUs, employers, alumni and parents who are working in core companies help in identifying the industries for industrial visits and in-plant training.
- c. Assessment will be based on type of industry, objectives, number of students participated, relevant area of training, documented visit report.
- d. Due to such training and placement initiatives, the employability and placement of prospective students is improved. Students have opportunity to interact with the technocrats.
- e. The effectiveness of the industry training is assessed by the students' feedback.
- f. Based on the analysis of student learning level and usefulness of the training, an Initiative/Action taken to sign more MOUs with the industry and tie up with the company for placements are undertaken with the help of Industry Institute Interaction Cell.

Industrial Talk feedback form

D. Student feedback on initiative:

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
INDUSTRIAL VISIT – STUDENTS FEEDBACK

COMPANY NAME: *National Atmospheric Research Lab*
 SCALE OF RATING: 1 – WORST TO 5 - BEST

DATE OF VISIT: *07/02/2020*

1	NAME: <i>Mohammed Azam</i>	REGISTER NO: <i>110118104040</i>	YEAR/SEC: <i>111 / B</i>
	EXPERIENCE AT THE VISIT:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5	STUDENT SIGN
	CO-OPERATION OF INDUSTRIAL VISIT COORDINATOR:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5	
	EDUCATION LEVEL OF THE VISIT:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5	
	FEED BACK: <i>This is very useful & effective visit. Gaind knowledge about working</i>		<i>Mohammed</i>

2	NAME: <i>noor mohamed . vs</i>	REGISTER NO: <i>110118104042</i>	YEAR/SEC: <i>111 / B</i>
	EXPERIENCE AT THE VISIT:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5	STUDENT SIGN
	CO-OPERATION OF INDUSTRIAL VISIT COORDINATOR:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5	
	EDUCATION LEVEL OF THE VISIT:	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5	
	FEED BACK: <i>This is very learning visit.</i>		<i>noor m/ky</i>

Figure 2.2.30 Industrial Visit Feedback Form

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 analyse design and develop computing solutions by applying foundational concepts of Computer Science and Engineering
PSO2	To apply software engineering principles and innovative practices for developing quality software for scientific and business applications 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 04	Course Year :	2019-2020
----------------------	--------------	----------------------	------------------

Course Name	Statements
C2 04.1	Interpret Java programs using Object Oriented Programming principles
C2 04.2	Explain Java programs with the concept's inheritance and interfaces
C2 04.3	Relate Java applications with threads and generics classes
C2 04.4	Develop Java applications with threads and generics classes
C2 04.5	Develop interactive Java programs using swings, Demonstrate simple Graphical user interface

Course Name :	C2 11	Course Year :	2019-2020
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Course Name	Statements
C2 11.1	Analyse and discuss the fundamental concepts of relational database and SQL
C2 11.2	Draw ER model for Relational model mapping to perform database design effectively
C2 11.3	Summarize the properties of transactions and concurrency control mechanisms
C2 11.4	Outline and explain the various storage and optimization techniques
C2 11.5	Compare and contrast various indexing strategies in different database systems and to explain the different advanced database

Course Name :	C3 05	Course Year :	2020-2021
----------------------	--------------	----------------------	------------------

Course Name	Statements
C3 05.1	Examine software design with UML diagrams
C3 05.2	Design software applications using OO Concepts
C3 05.3	Categorize various scenarios based on software requirements
C3 05.4	Convert UML based software design into pattern-based design using design patterns
C3 05.5	Implement the various testing methodologies for OO software

Course Name :	C3 13	Course Year :	2020-2021
----------------------	--------------	----------------------	------------------

Course Name	Statements
C3 13.1	Explain the basics of mobile telecommunication systems
C3 13.2	Illustrate the generations of telecommunication systems in wireless networks
C3 13.3	Determine the functionality of MAC, network layer and Identify a routing protocol for a given Ad hoc network
C3 13.4	Explain the functionality of Transport and Application layers
C3 13.5	Develop a mobile application using android / blackberry / ios / Windows SDK

Course Name :	C4 02	Course Year :	2021-2022
----------------------	--------------	----------------------	------------------

Course Name	Statements
C4 02.1	Explain the fundamentals of network 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	Determine various Security practices and System security standards

Course Name :	C4 13	Course Year :	2021-2022
----------------------	--------------	----------------------	------------------

Course Name	Statements
C4 13.1	Assess the problem by applying acquired knowledge, Plan and build the project team with assigned responsibilities

C4	13.2	Analyse, design, and develop adaptable and reusable solutions of minimal Complexity by using modern tool
C4	13.3	Implement and test solutions to trace against the user requirements
C4	13.4	Correlate all the modules through effective team work after efficient testing.
C4	13.5	Elaborate the Completed task and Compile the project report.

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

Institute Marks : 5.00

1 . course name : C204

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	3	-	-	-	-	-	-	-	-	1	3
C204.2	3	1	-	-	-	-	-	-	-	-	1	3
C204.3	3	1	-	-	-	-	-	-	-	-	1	3
C204.4	3	3	3	-	-	-	-	-	-	-	1	3
C204.5	3	3	3	-	-	-	-	-	-	-	1	3
Average	3.00	2.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.00

2 . course name : C211

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3	-	-	-	-	-	-	-	-	-	1	1
C211.2	3	3	3	-	-	-	-	-	-	-	1	2
C211.3	3	-	-	-	-	-	-	-	-	-	1	1
C211.4	3	-	-	-	-	-	-	-	-	-	1	1
C211.5	3	3	-	-	-	-	-	-	-	-	1	1
Average	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.20

3 . course name : C305

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	3	3	-	-	-	-	-	-	-	2	3
C305.2	3	3	3	-	-	-	-	-	-	-	2	3
C305.3	3	3	1	3	-	-	-	-	-	-	2	2
C305.4	3	3	3	-	-	-	-	-	-	-	2	3
C305.5	3	3	1	3	-	-	-	-	-	-	2	2
Average	3.00	3.00	2.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.60

4 . course name : C313

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	1	1	-	-	-	-	-	-	-	-	-
C313.2	3	2	1	-	-	-	-	-	-	-	-	1
C313.3	3	2	2	2	-	-	-	-	-	-	-	1
C313.4	3	3	2	2	-	-	-	-	-	-	-	1
C313.5	3	3	3	3	3	-	-	-	-	-	2	2
Average	3.00	2.20	1.80	2.33	3.00	0.00	0.00	0.00	0.00	0.00	2.00	1.25

5 . course name : C402

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	1	-	-	-	-	-	-	-	-	-	-
C402.2	3	3	3	-	-	-	-	-	-	-	1	1
C402.3	3	3	3	-	-	-	-	-	-	-	1	1
C402.4	3	3	3	-	-	-	-	-	-	-	1	1
C402.5	3	1	-	-	-	-	-	-	-	-	-	1
Average	3.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00

6 . course name : C413

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	1 ▾
C413.2	3 ▾	3 ▾	2 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	2 ▾	2 ▾
C413.3	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	2 ▾	3 ▾
C413.4	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	2 ▾	3 ▾
C413.5	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾	2 ▾	1 ▾
Average	3.00	3.00	2.33	3.00	2.50	0.00	0.00	0.00	3.00	3.00	2.00	2.00

1 . Course Name : C204

Course	PSO1	PSO2
C204.1	1 ▾	3 ▾
C204.2	1 ▾	3 ▾
C204.3	1 ▾	3 ▾
C204.4	1 ▾	3 ▾
C204.5	1 ▾	3 ▾
Average	1.00	3.00

2 . Course Name : C211

Course	PSO1	PSO2
C211.1	3 ▾	2 ▾
C211.2	3 ▾	2 ▾
C211.3	3 ▾	2 ▾
C211.4	3 ▾	2 ▾
C211.5	3 ▾	2 ▾
Average	3.00	2.00

3 . Course Name : C305

Course	PSO1	PSO2
C305.1	2 ▾	2 ▾
C305.2	2 ▾	3 ▾
C305.3	2 ▾	3 ▾
C305.4	2 ▾	3 ▾
C305.5	2 ▾	3 ▾
Average	2.00	2.80

4 . Course Name : C313

Course	PSO1	PSO2
C313.1	- ▾	- ▾
C313.2	1 ▾	- ▾
C313.3	1 ▾	- ▾
C313.4	- ▾	- ▾
C313.5	3 ▾	3 ▾
Average	1.67	3.00

5 . Course Name : C402

Course	PSO1	PSO2
C402.1	1 ▾	1 ▾
C402.2	2 ▾	2 ▾
C402.3	2 ▾	2 ▾
C402.4	2 ▾	2 ▾
C402.5	1 ▾	1 ▾
Average	1.60	1.60

6 . Course Name : C413

Course	PSO1	PSO2
--------	------	------

C413.1	2	▼	2	▼
C413.2	2	▼	3	▼
C413.3	2	▼	3	▼
C413.4	2	▼	3	▼
C413.5	2	▼	3	▼
Average	2.00		2.80	

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	1	1	3	0	1.6
C102	3	2.2	0	3	0	2.2	0	0	0	0	2.2	3
C103	1.2	1	2	2	1	1	1.6	0	1.2	1	1.2	1.6
C104	2.25	2	0	0	0	1	1.67	0	2	0	0	2
C105	3	2.8	3	1	1.25	0	0	0	0	0	0	0
C106	3	3	2	1	2.6	2	0	0	1	0	0	3
C107	3	3	3	3	3	1	1	0	2	2	3	3
C108	2	1	1	1	2	1	1.2	0	1	1	1.5	1
C111	0	0	0	0	0	0	0	1	1.25	3	0	1.2
C112	2.8	2.8	0	2.6	0	1	1.67	0	0	0	0	2.4
C113	1.6	1.2	2	1.4	1	1	1	0	1	1.6	1	2
C114	1.6	2.4	2.2	2.5	1.75	2	1	0	0	0	1	1.5
C115	1	1.33	1.33	1.67	2	1.75	1.33	1	0	0	1	2.4
C116	2.75	2.80	2.50	0	1.25	0	0	0	0	1	0	1.80
C117	3	3	3	3	2.2	3	1.8	1	3	3	1	3
C118	3	3	3	3	0	0	1	0	0	1	3	0
C201	3	3	2	1.6	0	0	0	0	0	1.2	0	3
C202	2.6	2	2.6	1	1.6	0.8	0	0	0	1.8	1.8	1.6
C203	3	3	1.4	0	0	0	0	0	0	0	2	2
C204	2	2.2	3	0	0	0	0	0	0	0	1	3
C205	3	3	3	0	0	0	0	0	0	0	2	1
C206	3	2.6	3	0	2	0	0	0	0	0	2.6	3
C207	3	3	3	0	3	0	0	0	0	0	3	3
C208	3	3	2	2	1	0.3	0	0	0	0	1	1
C209	0	1.2	1	1.6	1.2	1	1.2	1.8	3	3	1	2.8
C211	3	3	3	3	0	0	0	0	0	0	0	3
C212	3	3	3	3	0	0	0	0	0	0	1.4	1
C213	3	2	2.4	0	0	0	0	0	0	0	1	2.2
C214	2.6	3	2.4	0	2	0	0	0	0	0	1.2	1
C215	2.8	2.4	1.5	0	0	0	0	0	0	0	1	1.4
C216	3	1.75	0	0	0	0	0	0	0	0	1	1
C217	3	2	2.4	0	0	0	0	0	0	0	1	2.2
C218	3	2.2	2.5	0	1.6	0	0	0	0	0	1.8	2
C219	0	1.8	1.2	1.6	1.25	1	1.4	1.67	3	3	1	2.6
C301	3	3	3	2.8	2.4	1.4	0	0	0	0	1.8	2.4
C302	3	2	0	0	0	0	0	0	0	0	0	2
C303	2	2	2	1.6	1.6	1	1	0	1	1.6	0	1
C304	3	3	2.8	3	0	0	0	0	0	0	0	2

C305	3	3	2.2	3	0	0	0	0	0	0	2	2.6
C306	2.6	2.8	2.8	2	0	2	2	1	0	0	2	2.4
C307	2.2	2.8	2	2.6	2.2	1.6	1.6	0	0	2.8	1.2	2.8
C308	3	2.4	2.4	0	1.4	0	0	0	2	1.8	0	2.8
C309	3	2	2	2	2	0	0	0	0	3	2	1.8
C311	3	2.2	3	0	0	0	0	0	0	0	1	3
C312	3	3	1.8	1	3	0	0	0	0	0	1	3
C313	3	2.2	1.8	2.3	3	0	0	0	0	0	2	1.25
C314	3	2.8	3	0	3	0	0	0	0	0	1.4	2
C315	3	2.8	0	0	0	0	0	0	0	0	0	1
C316	3	3	2.2	0	0	0	0	0	0	0	0	1
C317	3	2.2	3	0	1	0	0	0	0	0	1	3
C318	3	3	3	2	3	0	0	0	0	0	2	2
C319	3	2.6	2.2	1	1.4	0	0	0	0	1	2.2	3
C320	3	2	1	0	1	0	0	1	1	0	0	1.4
C401	0	3	0	0	0	0	0	0	1.2	0.8	0	1
C402	3	2.2	0	0	0	0	0	0	0	0	1	1
C403	3	2	2.5	0	0	0	0	0	0	0	1	1.25
C404	3	1.2	0	2	0	0	0	0	0	0	2	1.67
C405	3	2	2.5	0	0	0	0	0	2	0	3	3
C406	3	1	1	2	0	0	0	0	2	1.33	2.6	3
C407	3	2.5	2.2	2.4	2.4	0	0	0	0	0	1.2	2
C408	3	3	3	0	2.4	0	0	0	0	0	1.2	2
C411	0	0	0	0	0	3	3	3	0	0	0	1
C412	3	1.6	1.6	1	0	0	0	0	0	0	0	1
C413	3	3	2.3	3	2.5	0	0	0	3	3	2	2

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

Course	PSO1	PSO2
C101	1.33	1.8
C102	1	2
C103	1.8	1
C104	0	0
C105	2.6	1
C106	1	1
C107	3	3
C108	1	2
C111	1	1
C112	1.5	1.5
C113	1.4	1
C114	1.2	1.4
C115	0	3
C116	2.60	1
C117	2	1.67
C118	3	3
C201	1.6	1.33
C202	2	2.6
C203	3	3

C204	1	3
C205	2.6	1.8
C206	3	2.2
C207	2.8	2.8
C208	2	3
C209	2.8	1.8
C211	3	1.6
C212	3	1.2
C213	3	1
C214	3	2.8
C215	3	3
C216	2	3
C217	3	1
C218	2	2.8
C219	2.4	1
C301	1	2.2
C302	1.4	1.2
C303	2	2
C304	2	1.6
C305	2	2.8
C306	1.2	1.6
C307	2.2	2.2
C308	1.6	2.6
C309	3	1.6
C311	2	3
C312	2	2.4
C313	1.7	3
C314	2	3
C315	2	1
C316	3	2
C317	2	3
C318	3	3
C319	1.8	2.2
C320	2.2	2.2
C401	1	0
C402	1.6	1.6
C403	2.4	2.2
C404	2	2
C405	1	3
C406	1	1
C407	3	2.2
C408	3	2.6
C411	0	0
C412	2	3
C413	2	2.8

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

A. List of Assessment Methods**1. Direct Assessment****Table 3.1 Theory Courses - Metrics Considered For Calculating Direct Attainment**

<u>Assessment Process</u>	<u>Evaluation</u>
Internal Assessment	<ul style="list-style-type: none"> The Department will conduct two Internal Assessments and One Model exam, scheduled in accordance with the College calendar of events. The teaching of at least 1.5 to 2 units would be completed before each Internal test, for model exam from unit 1 to 5 should be completed. The internal assessment will be conducted for 50 marks for the duration of 1.30 Hrs. Model exam will be conducted for 100 marks for the duration of 3.00 hrs. The faculty In-Charge(s) will prepare the Question papers for the respective Course considering the circular given by the department exam cell and will be submitted to the department exam cell Coordinator well in advance. The assessment process considers the marks scored in two internal Assessments and one model examination.
University Exam	<ul style="list-style-type: none"> Semester End examinations are metrics for assessing whether all the POs are attained or not. The examinations are more focused on the attainment of Course outcomes and program outcomes using a descriptive exam


AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
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NACC Accredited Institution
"Nisara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


CIRCULAR


AMSCE/CSE/CIRCULAR/2022-23 01/03/2023

- Internal Assessment Test 1 (3rd & 4th Year) and Class Test 1 (2nd Year) will be conducted from 07.03.2023 to 15.03.2023
- Faculty Members are requested to submit question papers on or before 04/03/2023
- Syllabus coverage will be 1.5 units (Total 1.5 Units) - 3rd & 4th Year
- Syllabus coverage will be 1 unit (Total 1 Unit) - 2nd Year
- Examination Time: 09.00 AM to 10.30 AM (3rd & 4th Year) & 09.00 AM to 10.00 AM (2nd Year)
- Question pattern:

S. No.	Year	Part A	Part B	Part C	Total Marks
1	II	5X2=10	2X10=30	NIL	30
2	III	5X2=10	2X13=26	1X14=14	50
3	IV	5X2=10	2X13=26	1X14=14	50

- Faculty members have to submit 1 soft copy to Dept. Exam co-coordinator.
Email to - cse@aalimec.ac.in
- Paper correction work must be evaluated within Three days after completion of the Test
- In Part-B, Use Appropriate Marking System (Ex. : 13 or 6+7 or 7+6 or any other combinations subject to maximum of three subdivisions namely i, ii & iii)
- Bloom's Taxonomy Action Verbs should be used.


 Dept. Exam Coordinator





 Head - Computer Science and Engineering

Figure 3.1 Circular Given By Department Exam Cell


 <p>AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING DEPARTMENT OF CSE INTERNAL ASSESSMENT - II SUB.CODE: CS8493 SUB.NAME: OPERATING SYSTEMS YEAR/SEMESTER: II / 04</p>	Max.Marks:50 Time: 90Mins Date: 21.5.2022	<p style="text-align: center;">PART-C (1*14=14 Marks)</p> <p>8. a. Consider the following set of processes with the length of CPU Burst time given in milliseconds (14) (BTLS, CO2)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Process</th> <th>Priority</th> <th>Arrival Time</th> <th>Burst Time</th> </tr> </thead> <tbody> <tr><td>P1</td><td>3</td><td>0</td><td>10</td></tr> <tr><td>P2</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>P3</td><td>3</td><td>2</td><td>2</td></tr> <tr><td>P4</td><td>4</td><td>1</td><td>1</td></tr> <tr><td>P5</td><td>2</td><td>2</td><td>5</td></tr> </tbody> </table> <p>Draw the Gantt chart for the execution of these processes using FCFS, SJF, Preemptive priority scheduling and Round Robin with time quantum of 2ms. Find the average waiting time and average turnaround time using each methods?</p> <p style="text-align: center;">(Or)</p> <p>b. Consider the following page reference string: 1,2,3,4,5,3,4,1,6,7,8,7,8,9,7,8,9,5,4,4,5,3. How many page faults would occur for the following page replacement algorithms, assuming four frames? Remembering all frames are initially empty (14) (BTLS, CO3)</p> <p>(a) LRU replacement (b) FIFO replacement</p> <p style="text-align: center;"> Prepared By: <i>[Signature]</i> HOD / CSE <i>[Signature]</i> 21.5.2022 Principal: <i>[Signature]</i> 21.5.2022 </p>	Process	Priority	Arrival Time	Burst Time	P1	3	0	10	P2	1	1	1	P3	3	2	2	P4	4	1	1	P5	2	2	5
Process	Priority	Arrival Time	Burst Time																							
P1	3	0	10																							
P2	1	1	1																							
P3	3	2	2																							
P4	4	1	1																							
P5	2	2	5																							
PART-A (5*2=10 Marks)																										
1. Name and draw five different process states with the proper definition? (BTLS, CO2) 2. Distinguish between CPU bounded and I/O bounded process? (BTLS, CO2) 3. Differentiate preemptive and non-preemptive scheduling? (BTLS, CO2) 4. List out the data fields associated with Process Control blocks? (BTLS, CO2) 5. Give the queuing diagram representation of Process Scheduling? (BTLS, CO2)																										
PART-B (2*13=26 Marks)																										
6 a. Compute average waiting time for the processes using non-preemptive SJF scheduling algorithm and FCFS algorithm (13) (BTLS, CO1)																										
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Process</th> <th>Arrival Time</th> <th>Burst Time</th> </tr> </thead> <tbody> <tr><td>P1</td><td>0</td><td>7</td></tr> <tr><td>P2</td><td>2</td><td>4</td></tr> <tr><td>P3</td><td>4</td><td>1</td></tr> <tr><td>P4</td><td>5</td><td>4</td></tr> <tr><td>P5</td><td>3</td><td>4</td></tr> </tbody> </table>		Process	Arrival Time	Burst Time	P1	0	7	P2	2	4	P3	4	1	P4	5	4	P5	3	4							
Process	Arrival Time	Burst Time																								
P1	0	7																								
P2	2	4																								
P3	4	1																								
P4	5	4																								
P5	3	4																								
(Or)																										
b. Describe the differences among the short - term, medium - term, long - term and scheduling with suitable examples (13) (BTLS, CO2)																										
7 a. Outline a solution using semaphores to solve dining philosopher problem? (13) (BTLS, CO2)																										
(Or)																										
b. Explain critical section? Write the algorithm used for test and set to satisfy all critical section requirements? (13) (BTLS, CO2)																										

Figure 3.2 Theory Courses - Metrics Considered For Calculating Direct Attainment

Table 3.2 Laboratory Courses - Metrics Considered For Calculating Direct Attainment

Assessment Process	Evaluation
Internal Assessment	<ul style="list-style-type: none"> To evaluate students' practical knowledge with their programming level capabilities, during laboratory hours evaluation is done and recorded. The evaluation of courses done by the laboratory In-Charge(s) based on predefined metrics such as timely completion of Exercise, Observation and Record. Based on the laboratory reports, practical test and the performance of the students, the Internal assessment marks shall be awarded on the following parameters: Observation, Record and Internal Tests - 20 Marks
University Exam	<ul style="list-style-type: none"> Semester End examinations are metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of Course outcomes and program outcomes using a Practical exam

Table 3.3 Project - Metrics Considered For Calculating Direct Attainment

Assessment Process	Evaluation
Reviews Conducted by Project Coordinators and Supervisors	<ul style="list-style-type: none"> Project work is evaluated by conducting reviews periodically, and procedure is followed for evaluation. The average of all the three reviews is calculated and marked as their internal marks Three reviews will be conducted and the students will be reviewed by a panel of Project Coordinator and internal project guide.
External Review	<ul style="list-style-type: none"> Project Viva voce is conducted by the panel of external examiners deputed Controller of examination by the University. External Examiner will examine the students and awarded the marks to the students and submitted to university. The Project Coordinator and internal project guide encourage the students to publish in national/ international Conference and Scopus indexed journal. For project Evaluation assessment process Consider the marks scored in Review 0, Review 1, Review 3 (internal- 20) and External Reviewer (University Review – 80)

Figure 3.3 Project Evaluation Sheet

2. Indirect Attainment

Table 3.4 Scoring - Attainment of Course Outcomes and Program Outcomes Terms of Indirect Attainment

Course Exit Survey
 Based on the course outcomes, a questionnaire is prepared by the respective course instructor at the end of the semester for each course and given to the students to get their opinions about each course and attainment

Figure 3.4 Course Exit Survey

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

Institute Marks : 40.00

A. Verify the attainment levels as per the benchmark set for all Course

i) Direct CO attainment level

Table 3.5. CO attainment levels using Direct Assessments 2018 - 2022

COURSE	DIRECT ATTAINMENT – ATTAINMENT OF COS				
	CO1	CO2	CO3	CO4	CO5
1st year Semester I					
C101	2.37	2.37	2.37	2.37	2.37
C102	1.61	1.61	1.61	1.61	1.57
C103	1.87	1.87	1.87	1.87	1.84
C104	2.03	2.03	2.03	2.03	1.81
C105	2.01	2.01	1.99	1.99	1.82
C106	2.10	2.10	2.10	2.10	2.06
C107	2.40	2.40	2.40	2.40	2.40
C108	2.40	2.40	2.40	2.40	2.40
1st year Semester II					
C109	2.21	2.21	2.24	2.24	2.24
C110	1.77	1.77	2.22	2.22	2.22
C111	1.82	1.82	1.82	1.82	1.82
C112.1	2.00	2.00	1.87	1.87	2.00
C113	1.09	1.09	1.74	1.74	1.54
C114	1.91	1.91	1.91	1.91	1.91
C115	2.40	2.40	2.40	2.40	2.40
C116	2.40	2.40	2.40	2.40	2.40
2nd year Semester III					
C201	1.92	1.92	1.92	1.92	1.92
C202	1.94	1.94	1.94	1.94	1.94
C203	1.84	1.84	1.84	1.84	1.84
C204	1.32	1.32	1.75	1.75	1.82
C205	1.75	1.75	1.75	1.75	1.75
C206	2.4	2.4	2.4	2.4	2.4
C207	2.38	2.38	2.38	2.38	2.38
C208	2.4	2.4	2.4	2.4	2.4
C209	2.4	2.4	2.4	2.4	2.4
Semester IV					
C211	2.05	2.05	2.4	2.4	2.4
C212	1.95	1.95	2.4	2.4	2.4
C213	2.24	2.24	2.4	2.4	2.4
C214	1.95	1.95	2.4	2.4	2.4
C215	1.9	1.9	2.4	2.4	2.4
C216	2.21	2.21	2.37	2.37	2.4
C217	2.4	2.4	2.4	2.4	2.4
C218	2.4	2.4	2.4	2.4	2.4
C219	2.4	2.4	2.4	2.4	2.4
3rd year Semester V					
C301	2.37	2.37	2.4	2.4	2.4
C302	2.4	2.4	2.4	2.4	2.4
C303	2.4	2.4	2.4	2.4	2.4
C304	2.4	2.4	2.4	2.4	2.4
C305	2.38	2.38	2.38	2.38	2.38
C306	2.4	2.4	2.4	2.4	2.4
C307	2.4	2.4	2.4	2.4	2.21
C308	2.4	2.4	2.4	2.4	2.4
C309	2.4	2.4	2.4	2.4	2.4
Semester VI					
C311	2.4	2.4	2.4	2.4	2.4
C312	2.4	2.4	2.4	2.4	2.4
C313	2.4	2.4	2.4	2.4	2.4
C314	2.4	2.4	2.4	2.4	2.4
C315	2.4	2.4	2.4	2.4	2.4
C316	2.4	2.4	2.4	2.4	2.4
C317	2.4	2.4	2.4	2.4	2.4
C318	2.4	2.4	2.4	2.4	2.4
C319	2.4	2.4	2.4	2.4	2.4
C320	2.4	2.4	2.4	2.4	2.4

Table 3.6. CO attainment levels using Indirect Assessments 2018 - 2022

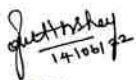
COURSE	INDIRECT ATTAINMENT – ATTAINMENT OF COS				
	CO1	CO2	CO3	CO4	CO5
1st year Semester I					
C101	0.49	0.51	0.52	0.50	0.48
C102	0.52	0.50	0.50	0.50	0.53
C103	0.50	0.52	0.51	0.52	0.50
C104	0.52	0.50	0.48	0.52	0.50
C105	0.48	0.49	0.48	0.49	0.48
C106	0.50	0.49	0.50	0.49	0.49
C107	0.52	0.50	0.51	0.49	0.51
C108	0.50	0.50	0.50	0.49	0.50
1st year Semester II					
C109	0.50	0.50	0.50	0.50	0.49
C110	0.50	0.48	0.50	0.48	0.50
C111	0.49	0.50	0.49	0.50	0.52
C112.1	0.52	0.50	0.50	0.50	0.49
C113	0.49	0.48	0.50	0.51	0.50
C114	0.53	0.49	0.49	0.49	0.50
C115	0.49	0.50	0.49	0.50	0.50
C116	0.54	0.50	0.49	0.52	0.52
2nd year Semester III					
C201	0.528	0.498	0.54	0.48	0.54
C202	0.534	0.492	0.54	0.48	0.54
C203	0.534	0.492	0.54	0.48	0.54
C204	0.534	0.492	0.54	0.48	0.54
C205	0.534	0.492	0.54	0.48	0.54
C206	0.522	0.54	0.486	0.534	0.528
C207	0.498	0.522	0.474	0.51	0.51
C208	0.6	0.54	0.486	0.528	0.528
C209	0.522	0.54	0.486	0.534	0.528
Semester IV					
C211	0.522	0.498	0.528	0.48	0.516
C212	0.534	0.492	0.54	0.48	0.54
C213	0.522	0.51	0.522	0.51	0.51
C214	0.522	0.492	0.522	0.474	0.516
C215	0.534	0.492	0.54	0.48	0.54
C216	0.522	0.516	0.528	0.516	0.516
C217	0.498	0.522	0.474	0.51	0.51
C218	0.498	0.522	0.486	0.528	0.51
C219	0.504	0.516	0.48	0.528	0.51
3rd year Semester V					
C301	0.564	0.54	0.552	0.516	0.558
C302	0.528	0.534	0.552	0.522	0.558
C303	0.546	0.498	0.54	0.486	0.54
C304	0.498	0.486	0.522	0.462	0.492
C305	0.564	0.564	0.576	0.534	0.552
C306	0.51	0.474	0.498	0.462	0.552
C307	0.486	0.522	0.492	0.522	0.516
C308	0.528	0.54	0.516	0.54	0.534
C309	0.516	0.54	0.492	0.528	0.528
Semester VI					
C311	0.546	0.534	0.552	0.528	0.558
C312	0.546	0.552	0.57	0.54	0.564
C313	0.552	0.624	0.546	0.528	0.576
C314	0.534	0.498	0.546	0.516	0.54
C315	0.534	0.528	0.654	0.522	0.552
C316	0.552	0.498	0.552	0.51	0.57
C317	0.546	0.546	0.534	0.546	0.564
C318	0.516	0.534	0.492	0.528	0.528
C319	0.51	0.522	0.486	0.528	0.528
C320	0.498	0.51	0.474	0.51	0.51

Table 3.7. Total Attainment 2018 - 2022


COURSE	TOTAL ATTAINMENT – ATTAINMENT OF COS				
	CO1	CO2	CO3	CO4	CO5
1st year Semester I					
C101	2.86	2.88	2.89	2.88	2.85
C102	2.13	2.11	2.11	2.11	2.10
C103	2.37	2.39	2.38	2.39	2.34
C104	2.54	2.53	2.51	2.55	2.31
C105	2.49	2.49	2.47	2.48	2.30
C106	2.61	2.59	2.60	2.59	2.55
C107	2.92	2.90	2.91	2.89	2.91
C108	2.90	2.90	2.90	2.89	2.90
1st year Semester II					
C109	2.71	2.71	2.73	2.74	2.73
C110	2.28	2.25	2.72	2.70	2.72
C111	2.32	2.33	2.32	2.33	2.34
C112.1	2.52	2.50	2.37	2.37	2.48
C113	1.58	1.57	2.24	2.25	2.04
C114	2.44	2.40	2.40	2.40	2.41
C115	2.89	2.90	2.89	2.90	2.90
C116	2.94	2.90	2.89	2.92	2.92
2nd year Semester III					
C201	2.45	2.42	2.46	2.4	2.46
C202	2.47	2.43	2.48	2.42	2.48
C203	2.38	2.34	2.38	2.32	2.38
C204	1.85	1.81	2.29	2.23	2.36
C205	2.28	2.24	2.29	2.23	2.29
C206	2.92	2.94	2.89	2.93	2.93
C207	2.88	2.9	2.85	2.89	2.89
C208	3	2.94	2.89	2.93	2.93
C209	2.92	2.94	2.89	2.93	2.93
Semester IV					
C211	2.58	2.55	2.93	2.88	2.92
C212	2.49	2.45	2.94	2.88	2.94
C213	2.76	2.75	2.92	2.91	2.91
C214	2.48	2.45	2.92	2.87	2.92
C215	2.43	2.39	2.94	2.88	2.94
C216	2.73	2.73	2.9	2.89	2.92
C217	2.9	2.92	2.87	2.91	2.91
C218	2.9	2.92	2.89	2.93	2.91
C219	2.9	2.92	2.88	2.93	2.91
3rd year Semester V					
C301	2.94	2.91	2.95	2.92	2.96
C302	2.93	2.93	2.95	2.92	2.96
C303	2.95	2.9	2.94	2.89	2.94
C304	2.9	2.89	2.92	2.86	2.89
C305	2.94	2.94	2.96	2.91	2.93
C306	2.91	2.87	2.9	2.86	2.95
C307	2.89	2.92	2.89	2.92	2.73
C308	2.93	2.94	2.92	2.94	2.93
C309	2.92	2.94	2.89	2.93	2.93
Semester VI					
C311	2.95	2.93	2.95	2.93	2.96
C312	2.95	2.95	2.97	2.94	2.96
C313	2.95	3.02	2.95	2.93	2.98
C314	2.93	2.9	2.95	2.92	2.94
C315	2.93	2.93	3.05	2.92	2.95
C316	2.95	2.9	2.95	2.91	2.97
C317	2.95	2.95	2.93	2.95	2.96
C318	2.92	2.93	2.89	2.93	2.93
C319	2.91	2.92	2.89	2.93	2.93
C320	2.9	2.91	2.87	2.91	2.91

Course Code: C204				Subject Code and Name: CS8392 Object Oriented Programming											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3	3	3								1	3	1	3	
CO2	3	1									1	3	1	3	
CO3	3	1									1	3	1	3	
CO4	3	3	3								1	3	1	3	
CO5	3	3	3								1	3	1	3	
AVG	3	2.2	3								1	3	1	3	

CORRELATION		
0	NA	CO1 Interpret Java programs using Object Oriented Programming principles
1	LOW	CO2 Explain Java programs with the concepts inheritance and interfaces
2	MEDIUM	CO3 Relate Java applications with threads and generics classes
3	HIGH	CO4 Develop Java applications with threads and generics classes
		CO5 Develop interactive Java programs using swings, Demonstrate simple Graphical user interface



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Figure 3.5 Course Outcome and Program Outcome Mapping

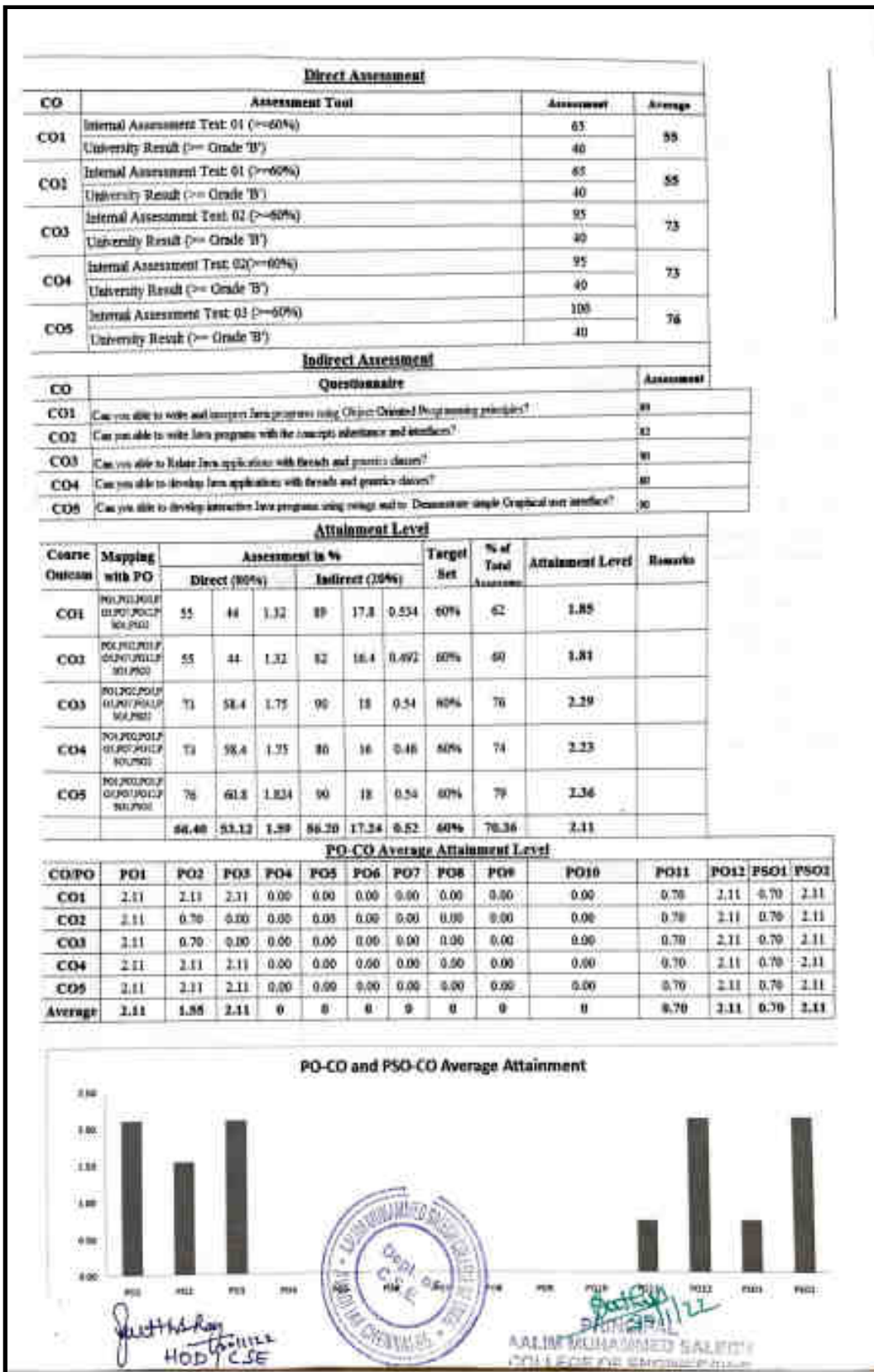


Figure 3.6 Direct and Indirect Attainment Calculation

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

A. List of Assessment tools & Processes:

The assessment of the attainment of POs and PSOs depends upon the direct and indirect attainment tools. Direct assessment of POs and PSOs is calculated based on the student's performance in internal tests as well as the University examination for all Courses.

Performance of the students in different assessments such as internal tests and university exams lead to the attainment of CO.NOs and then turn lead to the attainment of POs & PSOs attainment based on the mappings of CO.NOs to POs and PSOs. Students Performance is directly related to the mapping of CO.NOs to POs and PSOs.

To evaluate the attainment of POs/PSOs, the following tools are used as follows:

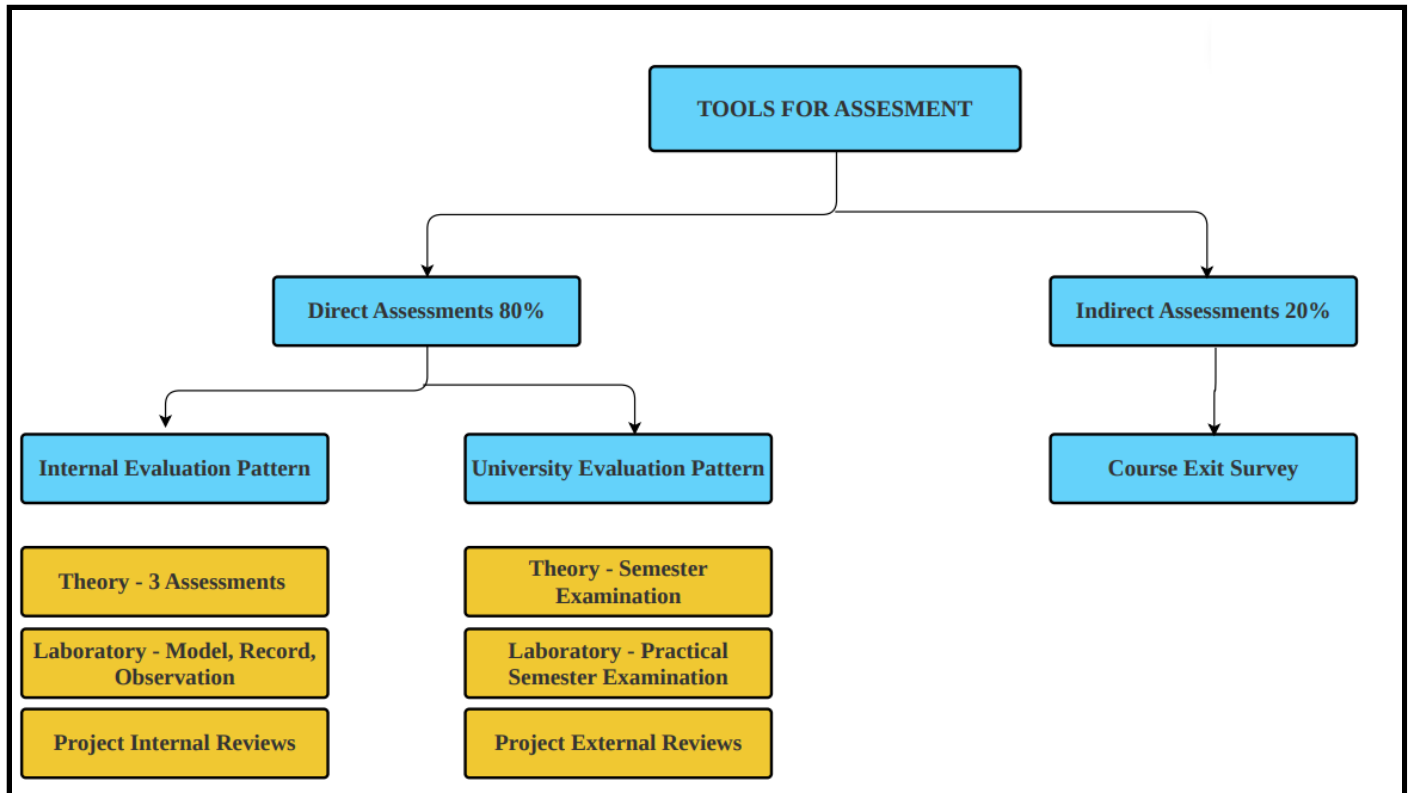


Figure 3.7 Tools Considered for the Attainment of POs/ PSOs

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Mixe Analysis - Course Outcome Attainment Calculator

Course Code: CS24

Year / Sem : III/II

CHEMICAL 600 055

Total No. Students: 62

Subject Code and Name: CS8392 Object Oriented Programming

Table with columns: Row, Reg No, Test Dates, Name of the Students, IT1, IT2, IT3, AZR, COURSE OUTCOME ATTAINMENT (CO1-CO5), Average, and IMPROVE SURVEY FOR CO- IMMEDIATELY AFTER END SEMESTER EXAMINATION (CO1-CO5).

Table with columns: Row, Reg No, Name of the Students, IT1, IT2, IT3, AZR, COURSE OUTCOME ATTAINMENT (CO1-CO5), Average, and IMPROVE SURVEY FOR CO- IMMEDIATELY AFTER END SEMESTER EXAMINATION (CO1-CO5).

Jutha Kalyan
30/11/22
HOD / CSE

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Batool
PRINCIPAL
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Figure 3.8 Attainment of Course Outcomes - Micro Analysis

B. The Quality/Relevance of Assessment Tools/Processes Used:

Based on the assessments, the level of effectiveness is calculated on a regular basis which includes. The IA marks and EA marks include internal theory and Model laboratory examinations, external theory examinations, and laboratory examinations.

1. Course Outcomes are prepared by faculties and will be assessed by Department Academic Committee (DAC)
2. DAC Committee assesses a set of Courses for POs and sets the target level of each PO.
3. Direct assessment tools are used for assessing the PO based on IA.
4. The process of the direct assessment system is established by the Council of members and it is monitored and guided by the DAC Committee.
5. Indirect assessment tools are used for assessing POs through a course end surveys at the end of the program

AAJLM MUHAMMED SALEGH COLLEGE OF ENGINEERING															
CHENNAI - 600 055															
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING															
COURSE YEAR: 2018-23 MACRO ANALYSIS - Pass and Attendance															
Year / Sem : III/II															
Total No. Students: 63															
Sl. No	Reg No.	Test Dates	Subject Code and Name - CSE932 Object Oriented Programming												
			IA1	IA2	IA3	A1	A2	A3	A	AUR	CE01	CE02	CE03	CE04	CE05
1	110118104001	ABDUL AZEED A	34	30	50	3	9	8	9	17	3	3	3	3	3
2	110118104002	ABDUL BASITH M A	71	84	91	8	10	10	9	17	2	2	3	3	2
3	110118104003	ABDUL HAMIED S	33	76	50	5	10	9	8	17	3	3	2	3	3
4	110118104004	ABDUL KALAM M	38	84	10	10	8	8	17	3	3	3	3	2	2
5	110118104005	ABDUL NAWAZ HAMDHAN T	100	100	100	10	9	9	9	17	3	3	3	2	2
6	110118104006	ABDUL TIHAUF A	58	84	91	10	10	8	9	16	3	3	3	2	2
7	110118104007	ABDUL VAGEEL K	91	88	33	9	10	9	9	17	2	3	2	2	2
8	110118104008	AFFROZ FATIHA M S	100	100	100	8	10	9	9	16	2	2	2	2	2
9	110118104009	AKEEB HAMMAD N	100	100	100	10	8	8	9	16	2	3	3	3	2
10	110118104010	AKUL BALAH S	81	84	84	10	9	9	9	16	2	3	3	3	2
11	110118104011	AMATH HAZENA A	91	100	100	9	9	9	10	17	3	3	2	3	2
12	110118104012	ATHIQ ALI N	95	100	100	9	9	10	8	17	3	3	2	3	3
13	110118104013	ATHIQUR RAHMAN B	100	100	100	9	10	10	8	17	2	2	3	2	2
14	110118104014	DEVYAN LAKSHMI V	100	100	100	10	10	8	8	16	2	3	3	2	2
15	110118104015	FALGAN HAMEED P K	80	55	100	9	8	10	8	16	3	3	2	3	2
16	110118104016	GANESH R	75	80	95	10	9	8	10	17	2	2	2	2	2
17	110118104017	GIREESH KUNAR B	81	83	88	8	10	10	8	17	3	3	2	3	3
18	110118104018	JIBAN YUN J	81	80	88	8	8	8	9	16	3	2	2	3	2
19	110118104019	DISHAD KHANA A	100	82	100	6	10	10	9	16	2	2	2	3	3
20	110118104020	HEERU ALI SYAF	25	84	88	8	9	8	9	16	2	2	3	2	2
21	110118104021	KAL ANDHAR FASIL K E	12	81	99	9	10	8	10	17	3	3	3	3	2
22	110118104022	LIVAGATHA ALI KHEEIM M	95	100	100	10	10	9	10	17	2	3	3	3	3
23	110118104023	MURHAMADU AUBADU B	33	74	82	10	8	8	8	16	2	3	3	3	3
24	110118104024	MOKHAMED AMER M A	25	70	81	10	9	8	10	17	2	3	3	3	3
25	110118104025	MOKHAMED EBADU A	48	60	81	10	10	9	10	17	3	3	3	2	2
26	110118104026	MOKHAMED ESHY AQA A B	38	80	81	10	10	8	10	17	2	2	2	2	2
27	110118104027	MOKHAMED MURHUSAY A B	22	10	84	8	8	8	9	17	3	2	3	3	3
28	110118104028	MOKHAMED SAMBER KHAN M	34	32	80	10	9	9	9	17	3	3	3	2	2
29	110118104029	MOKHAMED THALIF HASAN A	89	84	108	9	8	8	9	16	3	3	2	3	3
30	110118104030	MOKHAMED WAJTI F	21	60	80	10	8	8	10	17	3	3	2	2	3
31	110118104031	MOKHAMED ZAYD	58	83	109	9	10	10	9	16	3	3	3	3	2
32	110118104032	MOKHAMED ADINAH A	54	83	88	9	10	8	8	16	3	2	3	2	2
33	110118104033	MOKHAMED JAFFER SATHIQ A S	92	88	109	10	10	10	10	17	3	3	3	3	3
34	110118104034	MOKHAMED SHEHATH E	100	84	88	9	8	9	10	16	3	2	3	3	3
35	110118104035	MOKHAMED ZAYD	21	94	98	10	10	10	10	17	3	3	2	2	2
36	110118104036	MURAD AZAM	100	89	108	9	9	9	9	16	2	2	2	3	3
37	110118104037	MUDDEN SAS V M	26	95	91	10	10	10	8	16	2	3	3	2	3
38	110118104038	NOOR MOHAMMED Y S	82	92	89	10	10	10	9	16	3	3	3	2	2
39	110118104039	PRUD ADARSHING R	100	100	100	8	10	10	8	16	2	2	2	3	3
40	110118104040	RAFI AL HIND	59	55	100	9	10	10	8	16	3	2	2	3	3
41	110118104041	RUBIESH S	79	76	98	9	10	9	9	17	2	3	3	3	2
42	110118104042	SARANA PARVITHY N	100	100	100	10	8	10	10	16	2	2	3	3	3
43	110118104043	SAID ALI M	50	94	95	9	9	10	8	17	2	3	2	3	3
44	110118104044	SAKESH RAJDEEN S M	20	88	81	9	10	9	9	17	2	3	2	2	2
45	110118104045	SAMEER AADIEL	91	88	88	8	10	10	8	17	5	2	3	2	3
46	110118104046	SATHISWARAJ M	101	99	100	9	10	8	9	17	3	2	3	2	3
47	110118104047	SUYAD MOHAMMED FAREEM M Y	28	81	86	9	10	8	8	17	3	2	3	2	3

Sl. No.	Reg No.	Name	IA1	IA2	IA3	A1	A2	A3	A	AUR	CE01	CE02	CE03	CE04	CE05
34	110118104048	TANUJA K	100	100	100	-	-	-	-	-	-	-	-	-	-
35	110118104049	UMAR ALI AJAMED K M	100	96	88	8	10	9	9	16	2	2	3	2	3
36	110118104050	YASAR AKRAFATH A	75	81	89	8	8	8	8	10	3	3	2	3	3
37	110118104051	YITHWANTH KIDMAR B	73	86	84	8	10	8	8	16	3	2	3	2	3
38	110118104052	ABDUL SAMTAL M	81	88	100	8	10	8	9	17	3	3	2	3	3
39	110118104053	AFFAN FATIHA S	91	86	100	8	10	8	9	16	3	3	2	3	3
40	110118104054	SYOD MOHAMMED SHAKIL	100	91	88	9	8	9	9	17	3	2	3	2	3
41	110118104055	ANZQUEER RAHMAN C	70	88	101	8	10	10	8	16	3	3	2	3	2
42	110118104056	MURHADRIG S	80	76	103	9	9	9	8	16	3	3	2	3	3

No of students Appeared	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
No of students Pass / Assignment Mark	40	59	62	565	577	588	500	25	165	153	169	148	167		
No of students below the target	22	3	0	-	-	-	37	-	-	-	-	-	-	-	-
Percentage of Pass / Scored / Outcome	65	95	100	91	93	90	90	40	89	82	90	80	90		

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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	0.98	0.98	2.95	0	1.57
C102	2.05	1.5	0	2.05	0	1.5	0	0	0	0	1.5	2.05
C103	0.93	0.78	1.56	1.56	0.78	0.78	1.24	0	0.93	0.78	0.93	1.24
C104	1.86	1.65	0	0	0	0.83	1.38	0	1.65	0	0	1.65
C105	2.45	2.29	2.45	0.82	1.02	0	0	0	0	0	0	0
C106	2.62	2.62	1.74	0.87	2.27	1.74	0	0	0.87	0	0	2.62
C107	2	1	1	1	2	1	1.2	0	1	1	1.5	1
C108	3	3	3	3	3	1	1	0	2	2	3	0
C109	0	0	0	0	0	0	0	0.93	1.16	2.78	0	1.11
C110	2.38	2.38	0	2.21	0	0.85	1.42	0	0	0	0	2.04
C111	1.22	0.91	1.52	1.06	0.76	0.76	0.76	0	0	0	0	1.52

C112.1	0.81	1.08	1.08	1.35	1.62	1.42	1.08	0.81	0	0	0.81	1.94
C113	0.96	1.44	1.32	1.5	1.05	1.2	0.6	0	0	0	0.6	0.9
C114	2.19	2.23	1.99	0	1	0	0	0	0	0	0	1.43
C115	3	3	3	3	2.2	3	1.8	1	3	3	1	3
C116	3	3	3	3	0	0	1	0	0	1	3	0
C201	1.92	1.92	1.28	1.02	0	0	0	0	0	0.77	0	1.92
C202	1.68	1.29	1.68	0.65	1.03	0.52	0	0	0	1.16	1.16	1.03
C203	1.84	1.84	0.86	0	0	0	0	0	0	0	1.23	1.23
C204	1.59	1.17	1.59	0	0	0	0	0	0	0	0.53	1.59
C205	1.75	1.75	1.75	0	0	0	0	0	0	0	1.16	0.58
C206	2.4	2.08	2.4	0	1.6	0	0	0	0	0	2.08	2.4
C207	2.38	2.38	2.38	0	2.38	0	0	0	0	0	2.38	2.38
C208	2.4	1.6	0.8	0	1.6	0	0	0	0	0	2.08	2.4
C209	0	0.96	0.8	1.28	0.96	0.8	0.96	1.44	2.4	2.4	0.8	2.24
C211	2.26	2.26	2.26	2.26	0	0	0	0	0	0	0	2.26
C212	2.2	0	2.22	2.22	0	0	0	0	0	0	1.04	0.74
C213	2.34	2.34	2.34	0	0	0	0	0	0	0	0.78	0.93
C214	1.93	2.22	1.78	0	1.48	0	0	0	0	0	0.89	0.74
C215	2.05	1.76	1.1	0	0	0	0	0	0	0	0.73	1.03
C216	2.13	1.35	0	0	0	0	0	0	0	0	0.77	0.77
C217	2.4	1.6	1.92	0	0	0	0	0	0	0	0.8	1.76
C218	2.4	1.76	2	0	1.28	0	0	0	0	0	1.44	1.6
C219	0	1.4	0.96	1.28	1	0.8	1.12	1.33	2.4	2.4	0.8	2.08
C301	2.39	2.39	2.39	2.23	1.19	1.11	0	0	0	0	1.43	1.91
C302	2.4	1.6	0	0	0	0	0	0	0	0	0	1.6
C303	1.76	0.96	0.8	0	0	0	0	0	0	0	0	0
C304	2.4	2.4	2.24	2.4	0	0	0	0	0	0	1.6	1.6
C305	2.38	2.38	1.75	2.38	0	0	0	0	0	0	1.59	2.06
C306	2.08	2.24	2.24	1.6	0	1.6	1.6	0.8	0	0	1.6	1.92
C307	1.73	2.21	1.58	2.0	1.7	1.2	1.2	0	0	2.21	0.95	2.21
C308	2.4	2.08	2.4	0	1.6	0	0	0	0	0	2.08	2.4
C309	2.4	1.6	1.6	1.6	1.6	0	0	0	0	2.4	1.6	1.44
C311	2.4	1.76	2.4	0	0	0	0	0	0	0	0.8	2.4
C312	2.4	2.4	1.44	0.8	2.4	0	0	0	0	0	0.8	2.4
C313	2.4	1.76	1.44	1.87	2.4	0	0	0	0	0	1.6	1
C314	2.4	2.24	2.4	0	2.4	0	0	0	0	0	1.12	1.6
C315	2.4	2.24	0	0	0	0	0	0	0	0	0	0.8
C316	2.4	2.4	1.76	0	0	0	0	0	0	0	0	0.8
C317	2.4	1.76	2.4	0	0.8	0	0	0	0	0	0.8	2.4
C318	2.4	2.4	2.4	1.6	2.4	0	0	0	0	0	1.6	1.6
C319	2.4	2.08	2.4	0	1.6	0	0	0	0	0	2.08	2.4
C320	2.4	2.08	2.4	0	1.6	0	0	0	0	0	2.08	2.4
C401	0	2.4	0	0	0	0	0	0	0.96	0.64	0	0.8
C402	2.4	1.76	2.4	0	0	0	0	0	0	0	0.8	0.8
C403	2.4	1.6	2	0	0	0	0	0	0	0	0.8	1
C404	2.4	0.96	0	1.6	0	0	0	0	0	0	0.32	0.8
C405	2.4	1.6	2	0	0	0	0	0	0.64	0	2.4	2.4
C406	2.4	0.8	0.8	1.6	0	0	0	0	1.6	1.06	2.08	2.4
C407	2.4	2	1.76	0	1.92	0	0	0	0	0	0.96	1.6
C408	2.4	2.4	2.4	0	1.92	0	0	0	0	0	0.96	1.6

C411	0	0	0	0	0	2.32	2.32	2.32	0	0	0	0.77
C412	2.28	1.21	1.21	0.76	0	0	0	0	0	0	0	0.76
C413	2.4	2.4	1.87	2.4	2	0	0	0	2.4	2.4	1.6	1.6

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	1.85	1.58	1.55	1.43	1.37	1.04	1.04	0.98	1.29	1.50	1.11	1.36
Direct Attainment	2.20	1.88	1.85	1.71	1.64	1.25	1.25	1.20	1.57	1.81	1.33	1.62
InDirect Attainment	0.47	0.39	0.37	0.32	0.29	0.20	0.18	0.096	0.192	0.237	0.247	0.340

PSO Attainment

Course	PSO1	PSO2
C101	1.31	1.77
C102	0	0
C103	1.4	0.78
C104	0	0
C105	2.13	.82
C106	.87	.87
C107	1	2
C108	3	3
C109	0.93	0.93
C110	1.27	1.27
C111	1.06	0.76
C112.1	0	2.43
C113	0.72	0.84
C114	2.07	0.8
C115	2	1.67
C116	3	3
C201	1.02	0.85
C202	1.29	1.68
C203	1.84	1.84
C204	0.53	1.59
C205	1.51	1.05
C206	2.4	1.76
C207	2.22	2.22
C208	2.4	1.76
C209	2.24	1.44
C211	2.26	1.21
C212	2.22	0.89
C213	2.34	1.56
C214	2.22	2.07
C215	2.2	2.2
C216	1.54	2.31
C217	2.4	0.8
C218	1.6	2.24
C219	1.92	0.8
C301	0.8	1.75
C302	1.12	0.96
C303	1.6	1.6
C304	1.6	1.6

C305	1.59	2.22
C306	0.96	1.28
C307	1.73	1.73
C308	2.4	1.76
C309	2.4	1.28
C311	1.6	2.4
C312	1.6	1.92
C313	1.33	2.4
C314	1.6	2.4
C315	1.6	0.8
C316	2.4	1.6
C317	1.6	2.4
C318	2.4	2.4
C319	2.4	1.76
C320	2.4	1.76
C401	0.8	0
C402	1.28	1.28
C403	1.92	1.76
C404	1.6	1.6
C405	0.8	2.4
C406	0.8	0.8
C407	2.4	1.76
C408	2.4	2.08
C411	0	0
C412	1.52	2.28
C413	1.6	2.24

PSO Attainment Level

Course	PSO1	PSO2
CO Attainment	1.45	1.40
Direct Attainment	1.72	1.66
InDirect Attainment	0.35	0.35

4 STUDENTS' PERFORMANCE (150)

Total Marks 104.26

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)	120	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)	110	104	63	85	58	58	88
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	19	17	2	5	2	4
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	110	123	80	87	63	60	92

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)	110	0	0	0	0
2021-22 (CAYm1)	123	29	0	0	0
2020-21 (CAYm2)	80	60	23	0	0
2019-20 (CAYm3)	87	16	17	16	0
2018-19 (LYG)	63	8	5	5	5
2017-18 (LYGm1)	60	8	4	2	2
2016-17 (LYGm2)	92	14	7	4	3

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)	110	0	0	0	0
2021-22 (CAYm1)	123	104	0	0	0
2020-21 (CAYm2)	80	63	80	0	0
2019-20 (CAYm3)	87	85	87	85	0
2018-19 (LYG)	63	58	63	56	56
2017-18 (LYGm1)	60	58	60	51	51
2016-17 (LYGm2)	92	88	92	65	60

4.1 Enrolment Ratio (20)

Total Marks 16.00

Institute Marks : 16.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2022-23 (CAY)	120	110	91.67
2021-22 (CAYm1)	120	104	86.67
2020-21 (CAYm2)	120	63	52.50

Average [(ER1 + ER2 + ER3) / 3] : 76.95

Assessment : 16.00

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

Total Marks 13.20

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

Institute Marks : 1.25

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	63.00	60.00	92.00
Y Number of students who have graduated without backlogs in the stipulated period	5.00	2.00	3.00
Success Index [SI = Y / X]	0.08	0.03	0.03

Average SI [(SI1 + SI2 + SI3) / 3] : 0.05

Assessment [25 * Average SI] : 1.25

4.2.2 Success rate in stipulated period (15)

Institute Marks : 11.95

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	63.00	60.00	92.00
Y Number of students who have graduated in the stipulated period	56.00	51.00	60.00
Success Index [SI = Y / X]	0.89	0.85	0.65

Average SI [(SI1 + SI2 + SI3) / 3] : 0.80

Assessment [15 * Average SI] : 11.95

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 9.72

Institute Marks : 9.72

Academic Performance	CAYm3 (2019-20)	LYG (2018-19)	LYGm1 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.00	7.23	7.27
Total number of successful students(Y)	85.00	56.00	51.00
Total number of students appeared in the examination(Z)	87.00	63.00	60.00
API [X*(Y/Z)]:	6.84	6.43	6.18

Average API [(AP1 + AP2 + AP3)/3] : 6.48

Assessment [1.5 * AverageAPI] : 9.72

4.4 Academic Performance in Second Year (15)

Total Marks 11.21

Institute Marks : 11.21

Academic Performance	CAYm2 (2020-21)	CAYm3 (2019-20)	LYG (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	8.53	7.34	6.55
Total number of successful students (Y)	80.00	87.00	63.00
Total number of students appeared in the examination (Z)	80.00	87.00	63.00
API [X * (Y/Z)]	8.53	7.34	6.55

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

Assessment [1.5 * AverageAPI] : 11.21

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 34.13

Institute Marks : 34.13

Item	LYG (2018-19)	LYGm1 (2017-18)	LYGm2 (2016-17)
Total No of Final Year Students(N)	56.00	51.00	65.00
No of students placed in the companies or government sector(X)	45.00	33.00	64.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	0.00	5.00	1.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	1.00	0.00
x + y + z =	45.00	39.00	65.00
Placement Index [(X+Y+Z)/N] :	0.80	0.76	1.00

Average Placement [(P1 + P2 + P3)/3] : 0.85

Assessment [40 * Average Placement] : 34.13

Program Name :

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ABDUL AZEEZ A	110118104001	M/s.Bosch	AMSCE/CSE/PL/22-01
2	ABDUL BASITH M A	110118104002	M/s. MARI APPS	AMSCE/CSE/PL/22-02
3	ABDUL HAMEED	110118104003	M/s.CREATIVE TECHNOLOGIES	AMSCE/CSE/PL/22-03
4	ABDUL KALAM M	110118104004	M/s.VINTEK SOLUTIONS	AMSCE/CSE/PL/22-04
5	ABDUL NAWAZ HAMDHAN T	110118104005	M/s. TATA CONSULTANCY SERVICES	AMSCE/CSE/PL/22-05
6	ABDUL THAWAF A	110118104006	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-06
7	ABDUL VAQEEL K	110118104007	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-07
8	AFROZE FATHIMA M S	1101181804009	M/s FULL CREATIVE	AMSCE/CSE/PL/22-09
9	AREEB HAMMAD N	110118104011	M/s. WIPRO LTD	AMSCE/CSE/PL/22-11
10	ARULBALAJI S	110118104012	M/s. CSS CORP	AMSCE/CSE/PL/22-12
11	ASMATH HAZEENA A	110118104013	M/s. MPHASIS	AMSCE/CSE/PL/22-13
12	ATHIQ ALI N	110118104014	M/s. TATA CONSULTANCY SERVICES	AMSCE/CSE/PL/22-14
13	ATHIQR RAHMAN H	110118104015	M/s. CSS CORP	AMSCE/CSE/PL/22-15
14	DIVYA LAKSHMI V	110118104016	M/s. WIPRO LTD	AMSCE/CSE/PL/22-16
15	FAIZAN HAMID P K	110118104017	M/s. IFELSE TECH SMART SOLUTIONS PVT	AMSCE/CSE/PL/22-17
16	GANESH R	110118104018	M/s.CREATIVE TECHNOLOGIES	AMSCE/CSE/PL/22-18
17	HIMAYUN J	110118104021	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-21
18	IRSHAD KHAN A	110118104022	M/s. TATA CONSULTANCY SERVICES	AMSCE/CSE/PL/22-22
19	KALANDHAR FASIL KK	110118104024	M/s. TATA ELXI	AMSCE/CSE/PL/22-24
20	MOHAMED ABRAR M	110118104026	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-26
21	MOHAMMED ISTHIYAAQ A R	110118104030	M/s.CREATIVE TECHNOLOGIES	AMSCE/CSE/PL/22-30
22	MOHAMED WAJITH I	110118104034	M/s. GLENWOOD SYSTEMS LLC	AMSCE/CSE/PL/22-34
23	MOHAMMAD RAFI M	110118104035	M/s. AVASOFT	AMSCE/CSE/PL/22-35
24	MOHAMMED ADNAN A	110118104036	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-36
25	MOHAMMED JAFFER SATHIQ AS	110118104037	M/s. IOPEX TECHNOLOGIES	AMSCE/CSE/PL/22-37
26	MOHAMMED SHUJATH K	110118104038	M/s. MSC TECHNOLOGY	AMSCE/CSE/PL/22-38
27	MOHAMMED ZAYD M	110118104039	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-39
28	MOHD AZAM	110118104040	M/s. TATA CONSULTANCY SERVICES	AMSCE/CSE/PL/22-40
29	MYDEEN IJAS VM	110118104041	M/s. WIPRO LTD	AMSCE/CSE/PL/22-41
30	NOOR MOHAMED V S	110118104042	M/s. QSPIDER	AMSCE/CSE/PL/22-26
31	PRIYADHARSHINI R	110118104043	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-43
32	RAISAL HIND J	110118104044	M/s. AVASOFT	AMSCE/CSE/PL/22-44
33	RUBESH S	110118104046	M/s. NTT DATA	AMSCE/CSE/PL/22-46
34	SAHANA PARVEEN N	110118104047	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/CSE/PL/22-47
35	SAMEER AADEIL U S	110118104050	M/s. MSC TECHNOLOGY	AMSCE/CSE/PL/22-50
36	SATHISWARRI M	110118104051	M/s. CATERPILLAR	AMSCE/CSE/PL/22-51
37	SHAZIYA BEGUM D	110118104054	M/s. WIPRO LTD	AMSCE/CSE/PL/22-54
38	SYED ABU ANWAR N	110118104058	M/s. CSS CORP	AMSCE/CSE/PL/22-58
39	SYED AQUIB SIDDIQ	110118104059	M.s IFELSE TECH SMART SOLUTIONS PVT	AMSCE/CSE/PL/22-59
40	THENDRAL G	110118104061	M/s. AVASOFT	AMSCE/CSE/PL/22-61
41	UMAR ALI AHAMED K M	110118104062	M/s. CAPEGEMINI	AMSCE/CSE/PL/22-62
42	YASAR ARAFATH A	110118104063	M/s. WIPRO LTD	AMSCE/CSE/PL/22-63
43	AFRAH FATHIMA S	110118104701	M/s. WIPRO LTD	AMSCE/CSE/PL/22-701
44	ANEEQUR RAHMAN C	110118104703	M/s. AVASOFT	AMSCE/CSE/PL/22-703
45	SUBHASHINI S	110118104704	M/s. CREATIVE TECHNOLOGIES	AMSCE/CSE/PL/22-704

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Afreen Fathima A	110117104003	M/s. Mc Amdois Tech Solutions Pvt Ltd	AMSCE/CSE/PL/17-3
2	Ahamed Riyaz	110117104004	M/s. ALPHA DATA	AMSCE/CSE/PL/17-4
3	Akif Abdul Azeem	110117104006	M/s. Hexaware	AMSCE/CSE/PL/17-6
4	Ali Askar	110117104007	M/s. Q Spider	AMSCE/CSE/PL/17-7
5	Amjath Ashifa M	110117104008	M/s. Sutherland Global services	AMSCE/CSE/PL/17-8
6	Cader Sahib Rimas M.Z	110117104009	M/s. HCL Technologies	AMSCE/CSE/PL/17-9
7	Chokkapu Ganesh	110117104010	M/s.TVS Sundram Fasteners Limited	AMSCE/CSE/PL/17-10
8	Divya M	110117104011	M/s. Sutherland Global services	AMSCE/CSE/PL/17-11
9	Hasan Abdul Kadar	110117104014	M/s. Wipro	AMSCE/CSE/PL/17-14
10	Mir Mudassir Ali	110117104021	M/s. Exnovations digital services LLP	AMSCE/CSE/PL/17-21
11	Mohammed Ejla A	110117104023	M/s. Aziwa Infosystems	AMSCE/CSE/PL/17-23
12	Mohammed Harish	110117104024	M/s. Sabeel Technologies	AMSCE/CSE/PL/17-24
13	Mohamed Imran M	110117104025	M/s. IMSI STAFFING Pvt Ltd	AMSCE/CSE/PL/17-25
14	Mohamed Junaid M	110117104026	M/s.TVS Sundram Fasteners Limited	AMSCE/CSE/PL/17-26
15	Mohamed Matheen S	110117104027	M/s. Sutherland Global Services	AMSCE/CSE/PL/17-27
16	Mohamed Thanveer M	110117104031	M/s. L-Cube Innovative Solutions	AMSCE/CSE/PL/17-31
17	Mohamed Yameen Z	110117104032	M/s.TVS Sundram Fasteners Limited	AMSCE/CSE/PL/17-32
18	Mohammed Falil	110117104034	M/s. Enterprise Minds	AMSCE/CSE/PL/17-34
19	Mohammed Mustafa Afrudeen S	110117104037	M/s. SITEL India Private Limited	AMSCE/CSE/PL/17-37
20	Mohammed Thahseen N	110117104039	M/s. Gislen Software	AMSCE/CSE/PL/17-39
21	Noor E Arshiya C	110117104045	M/s.TVS Sundram Fasteners Limited	AMSCE/CSE/PL/17-45
22	Noor Muhammed M G	110117104046	M/s. Fis Global Business Solutions India (P) Ltd	AMSCE/CSE/PL/17-46
23	Rasika Mankar	110117104047	M/s. Sutherland Global Services	AMSCE/CSE/PL/17-47
24	Riyaz Ali F	110117104049	M/s. Cognizant	AMSCE/CSE/PL/17-49
25	Safinsiraj A	110117104050	M/s.TVS Sundram Fasteners Limited	AMSCE/CSE/PL/17-50
26	Samra Fathima S	110117104051	M/s. Q Spider	AMSCE/CSE/PL/17-51
27	Sandhiya G	110117104052	M/s. Sconce Solutions (India) Pvt. Ltd	AMSCE/CSE/PL/17-52
28	Sandhya V	110117104053	M/s. Sutherland Global Services	AMSCE/CSE/PL/17-53
29	Sirishma N	110117104055	M/s. AVASOFT	AMSCE/CSE/PL/17-55
30	Suman Raj	110117104056	M/s. Tata Consultancy Services	AMSCE/CSE/PL/17-56
31	Swathi N	110117104057	M/s. Infosys	AMSCE/CSE/PL/17-57
32	Tajamul Arafath V P	110117104059	M/s.TVS Sundram Fasteners Limited	AMSCE/CSE/PL/17-59
33	Fakiha Rubab.S	110117104701	M/s. Credopay	AMSCE/CSE/PL/17-701
34	Mohammed Nadhim S	110117104502	M/s. Access healthcare	AMSCE/CSE/PL/17-502
35	Muzaffar	110117104043	M/s. Inteliign	AMSCE/CSE/PL/17-43

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Aayasha Khan	110116104002	M/s. CSS Corp Pvt Ltd	AMSCE/CSE/PL/16-02
2	Abdul Aathil A M	110116104003	M/s. Mc Amdois Tech Solutions Pvt Ltd	AMSCE/CSE/PL/16-03
3	Abdul Kalam F	110116104005	M/s. Thecode	AMSCE/CSE/PL/16-05
4	Abdul Rahim K	110116104006	M/s. Hoist Technologies	AMSCE/CSE/PL/16-06
5	Aditya Banarjee	110116104007	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-07
6	Ahamed Abdullah S B	110116104009	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-09
7	Arsathkhan N	110116104010	M/s. Corent Technology Pvt Ltd	AMSCE/CSE/PL/16-10
8	Arun K	110116104011	M/s. Vizoroz Technologies	AMSCE/CSE/PL/16-11
9	Benisha B	110116104014	M/s. TVS Sundaram Fasterns Limited	AMSCE/CSE/PL/16-14
10	Daisy Vinoliya A	110116104015	M/s. Chase Technologies	AMSCE/CSE/PL/16-15
11	Deepak D	110116104017	M/s. Tech4LYF Entrepreneurs	AMSCE/CSE/PL/16-17
12	Dhanasree B	110116104018	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-18
13	Faizanul Haq Ansari	110116104019	M/s. Glenwood Systems (P) Ltd	AMSCE/CSE/PL/16-19
14	Farhath Bathool .K.M	110116104020	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-20
15	Fathima H	110116104021	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-21
16	Gajalakshmi	110116104023	M/s. Chase Technologies	AMSCE/CSE/PL/16-23
17	Gokulnath G A	110116104024	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-24
18	Hemavathy M	110116104025	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-25
19	Hirosha K P	110116104026	M/s. TVS Sundaram Fasterns Limited	AMSCE/CSE/PL/16-26
20	Jasmine Sulthana M	110116104028	M/s. CSS Corp Pvt Ltd	AMSCE/CSE/PL/16-28
21	Kalandhar Maideen M	110116104029	M/s. Customer Centria	AMSCE/CSE/PL/16-29
22	Kansul Arif S	110116104030	M/s. Tata Consultancy Services	AMSCE/CSE/PL/16-30
23	Khaleel Muhammed Ibrahim K	110116104032	M/s. CSS Corp Pvt Ltd	AMSCE/CSE/PL/16-32
24	Kothar Ansari T K	110116104033	M/s. Tech4LYF Entrepreneurs	AMSCE/CSE/PL/16-33
25	Mahalakshmi M	110116104034	M/s. Flex	AMSCE/CSE/PL/16-34
26	Mohd Nadeem Noori	110116104035	M/s. Ebms Solutions Pvt Ltd	AMSCE/CSE/PL/16-35
27	Mohamad Razack	110116104037	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-37
28	Mohamed Abdul Kadhar M	110116104038	M/s. Tech4LYF Entrepreneurs	AMSCE/CSE/PL/16-38
29	Mohammed Asif M	110116104040	M/s. Chase Technologies	AMSCE/CSE/PL/16-40
30	Mohammed Faizal M	110116104041	M/s. Tata Consultancy Services	AMSCE/CSE/PL/16-41
31	Mohammed Fazil S	110116104042	M/s. Chase Technologies	AMSCE/CSE/PL/16-42
32	Mohammed Imran A	110116104044	M/s. Hoist Technologies	AMSCE/CSE/PL/16-44
33	Mohammed Imran M	110116104045	M/s. Tech4LYF Entrepreneurs	AMSCE/CSE/PL/16-45
34	Mohammed Jasim J	110116104046	M/s. Cornerstohn Solutions	AMSCE/CSE/PL/16-46
35	Mohamed Rawan A	110116104047	M/s. Chase Technologies	AMSCE/CSE/PL/16-47
36	Mohamed Rizwan M	110116104048	M/s. CONTUS Tech	AMSCE/CSE/PL/16-48
37	Mohamed Umar Ali K	110116104050	M/s. Tech Mahindra	AMSCE/CSE/PL/16-50
38	Mohamed Wajid N	110116104051	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-51
39	Mohammed Abrar Kareem A	110116104052	M/s. Accenture	AMSCE/CSE/PL/16-52
40	Mohammed Ali G	110116104053	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-53
41	Mohammed Azarudheen	110116104054	M/s. Ebms Solutions Pvt Ltd	AMSCE/CSE/PL/16-54
42	Mohammed Faheem R	110116104055	M/s. CSS Corp Pvt Ltd	AMSCE/CSE/PL/16-55
43	Mohammed Fuzail Rayyan	110116104056	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-56
44	Mohammed Sarjun S	110116104059	M/s. Buzzworks Business Services Pvt.Ltd	AMSCE/CSE/PL/16-59
45	Mohammed Sharafath	110116104060	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-60
46	Mubina M	110116104061	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-61
47	Naushin S K	110116104064	M/s. Infosys Limited	AMSCE/CSE/PL/16-64
48	Naveen Kumar A	110116104065	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-65
49	Navin Kumar C S	110116104066	M/s. Chase Technologies	AMSCE/CSE/PL/16-66

50	Nizar Ahmed M	110116104068	M/s. Hoist Technologies	AMSCE/CSE/PL/16-68
51	Noorul Riyaz S	110116104069	M/s. Tech4LYF Entrepreneurs	AMSCE/CSE/PL/16-69
52	Pasith Ahmed K	110116104071	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-71
53	Pon Naveen Pandian K	110116104072	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-72
54	Pooja S	110116104073	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-73
55	Poojalakshmi S	110116104074	M/s. UNISYNC IT Services Pvt Ltd	AMSCE/CSE/PL/16-74
56	Praveen Kumar S	110116104075	M/s. Tech4LYF Entrepreneurs	AMSCE/CSE/PL/16-75
57	Rafath Sarosh Khan	110116104076	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-76
58	Raziya Begam S	110116104078	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-78
59	Sama Tehreen	110116104080	M/s. H5 Asia Pacific	AMSCE/CSE/PL/16-80
60	Shaik Noordeen I	110116104082	M/s. Chase Technologies	AMSCE/CSE/PL/16-82
61	Shaik Soheb	110116104083	M/s. Tata Consultancy Services	AMSCE/CSE/PL/16-83
62	Sheik Mohamed Ibrahim T	110116104086	M/s. Sutherland Global Services	AMSCE/CSE/PL/16-86
63	Yasmin Kathija T	110116104092	M/s. Hoist Technologies	AMSCE/CSE/PL/16-92
64	Aravindan M	110116104301	M/s. ERICSSON	AMSCE/CSE/PL/16-301
65	Mohammed Sajjad Anvar M	110116104302	M/s. Glenwood Systems (P) Ltd	AMSCE/CSE/PL/16-302
66	Preethi M	110116104303	M/s. Hoist Technologies	AMSCE/CSE/PL/16-303

4.6 Professional Activities (20)

Total Marks 20.00

Table 4.1 List of Professional Societies.

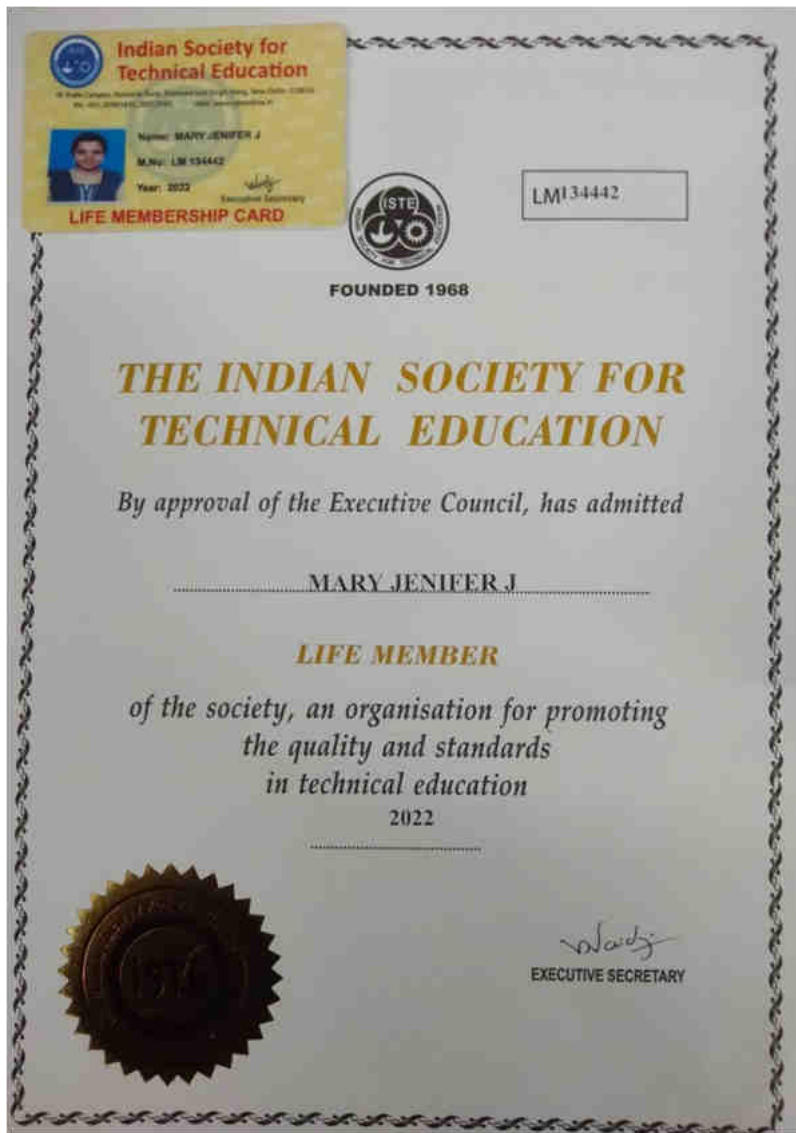
Name of the Professional Society	Year	Membership
ISTE Inst. Mem.Id : IM 3039	2022-2023	For Faculty Members and Students
	2021- 2022	
IAENG (Individual Membership)	2022-2023	For Faculty Members and Students
	2021 - 2022	
PALS (IT)	2019-2020	Institutional Membership
ICT	2019-2020	

Table 4.2 Indian Society for Technical Education (ISTE) Membership - Staff Details

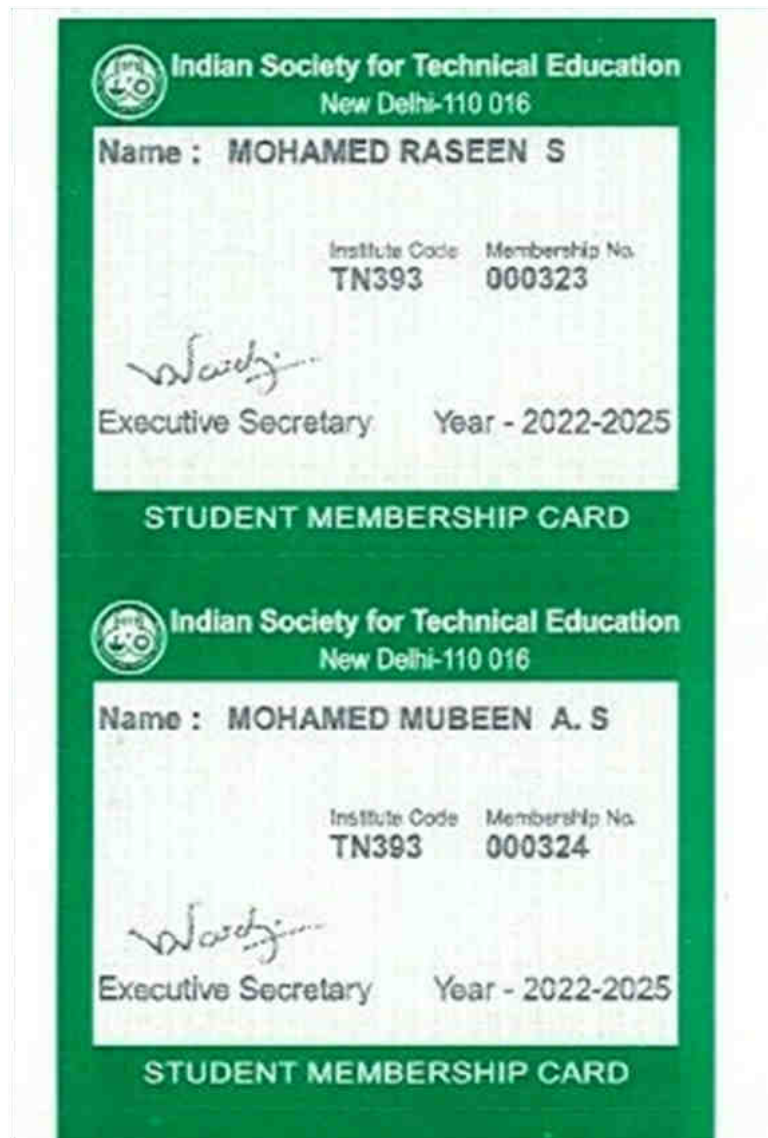
S.NO	NAME OF THE FACULTY MEMBER	DESIGNATION	MEMBERSHIP ID	DURATION
1	Dr.N.R.Shanker	Professor	LM-134430	Life Time
2	G.Sulthana Begam	Professor	LM-134457	Life Time
3	Dr.M.Prabu	Assistant Professor	LM-136436	Life Time
4	Dr.E.Ganesh	Assistant Professor	LM-136457	Life Time
5	M.Ahsan Shariff	Assistant Professor	LM-134391	Life Time
6	S.Bakiyalakshmi	Assistant Professor	LM-134388	Life Time
7	Afshia Nasrin	Assistant Professor	LM-134439	Life Time
8	V.Amarshree	Assistant Professor	LM-134438	Life Time
9	U.Subathra	Assistant Professor	LM-134437	Life Time
10	N.Madhuram	Assistant Professor	LM-134440	Life Time
11	J.Shamla	Assistant Professor	LM-134448	Life Time
12	J.Mary Jenifer	Assistant Professor	LM-134442	Life Time
13	D.Gayathri	Assistant Professor	LM-136502	Life Time
14	R.Daisy Merina	Assistant Professor	LM-136442	Life Time
15	R.Sindhuja	Assistant Professor	LM-136453	Life Time
16	P.Dhanya	Assistant Professor	LM-136443	Life Time



(a) ISTE Institution Registrartion Certificate



(b) ISTE Faculty Membership Certificate



(c) ISTE Student Membership Card

Figure 4.1 Professional body - ISTE details

Table 4.3 International Association Of Engineers (IAENG) Membership -Staff Details

S.No	Name of the Faculty Member	Designation	IAENG Membership ID
1.	Er.G. Sulthana Begam	Assistant Professor	304201
2.	Dr.M. Prabu	Assistant Professor	165212
3.	Dr.E. Ganesh	Assistant Professor	316902
4.	Er.Ahsan Shariff	Assistant Professor	183309
5.	Er. S. Bakiyalakshmi	Assistant Professor	304582
6.	Er. V. Amarshree	Assistant Professor	304581
7.	Er. U. Subathra	Assistant Professor	254297
8.	Er. J. Shamla	Assistant Professor	304615
9.	Er. R. Daisy Merina	Assistant Professor	330431
10.	Er. Mohammed Irfan SN	Assistant Professor	330297
11.	Er. P. Dhanya	Assistant Professor	330299
12.	Er. R. Sindhuja	Assistant Professor	325062
13.	Er.D.Gayathri	Assistant Professor	331980

IAENG INTERNATIONAL ASSOCIATION OF ENGINEERS

Date: 23 February 2022

To Whom It May Concern:

Official Letter for the IAENG Membership

Member Name: SHEIK DAWOOD IBRAHIM

Member Number: 305252

IAENG is a non-profit international association for the engineers and the computer scientists. IAENG has been found by a group of engineers and computer scientists from over thirty different countries. Our goals are to promote the co-operation between the professionals in various fields of the engineering and to cultivate an environment for the advance and development of the technology. Our objectives include:

- Promoting the interactions between the engineers;
- Advancing the application of engineering techniques from the academics to the industry;
- Facilitating the exchange of information and ideas among the engineers and scientists freely.

This letter is to certify that the above person is an IAENG member. For the information about IAENG Membership, please visit our website <http://www.iaeng.org/membership.html>

If you have any question, you are very welcome to contact us at any time.

Best regards,



Joan Mok
Assistant Secretary
International Association of Engineers (IAENG)
<http://www.iaeng.org>
Email: member@iaeng.org



WEBSITE: <http://www.iaeng.org> • EMAIL: info@iaeng.org • IAENG SECRETARIAT ADDRESS: Unit L 1/F, 37-39 Hung To Road, Hong Kong

Figure 4.2 ISTE Faculty Membership Certificate



Figure 4.3 PALS (IIT) Institution Membership Certificate



Figure 4.4 ICT Institution Membership Certificate

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

Institute Marks : 5.00

Table 4.4 Publication of Newsletters for past 3 years

S.No	Year	Name of the Newsletter	Name of the Editors	Name of the Students	No. of Issues	Hardcopy/Softcopy
1	CAY (2020 – 21)	AMSCE CSE Voice	Mrs. K. Priya, Mrs.Devi.P	Nawaz Hamdan, Priyadarshini. R	2	e-copy
2	CAY (2019 – 20)	AMSCE CSE Voice	Mrs. Noorul Julaiha Mrs. Bharathy. S	Sirishma Aaskar, Dinesh P	2	Hardcopy
3	CAY (2018 – 19)	AMSCE CSE Voice	Mr. Syed Zubair Ahmed Hussainy	Sirishma.N, Ashwini. H	2	Hardcopy



Figure 4.5 News Letter Samples

4.6.3 Participation in inter-institute events by students of the program of study (10)

Institute Marks : 10.00

A Random Forest Fraud Transaction Detection System using Data Mining Techniques

S. BAKIYALAKSHMI

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Adim Muhammed Salegh College of Engineering
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Abstract—Every day, news of financial statement fraud is adversely affecting the economy worldwide. Considering the influence of the loss incurred due to fraud, effective measures and methods should be employed for prevention and detection of financial statement fraud. I integrate scholarly writing identified with fake monetary revealing with double purpose: (1) to more likely comprehend the nature and degree of the current writing as monetary accounting misrepresentations, and (2) to feature regions where there is need for future examination. I survey distributions in bookkeeping and related disciplines including criminal science, morals, finance, authoritative conduct acknowledging for distribution. The implementation of data mining techniques for fraud detection follows the traditional information flow of data mining, which begins with feature selection followed by representation, data collection and management, pre-processing, data mining, post-processing, and performance evaluation.

Keywords—Fraud detection, Data mining, Online Transaction

A RELATED WORK
Data mining is a process of exploring information hidden in a large amount of data through algorithms. Through the cleaning, correction, extraction, selection, and summary of a large number of data features, the hidden knowledge behind the data is obtained. For our problem, it is to extract the difference information between the behaviour patterns of real users and fraud behaviour patterns in the data, so as to help the subsequent classification model better achieve the purpose of detecting fraudulent transactions. In [3], Fang et al. Proposed a heuristic work for fraud detection based on CNN to capture the inherent patterns of fraud learned from the marked data. Wang [5] proposed a data mining algorithm based on UCI public dataset. The research of work [8] mainly focuses on the most important feature engineering part of data mining. Researchers extend the transaction aggregation strategy and propose to create a new set of features by using von Mises distribution on the basis of analyzing the periodic behaviour of transaction time.



Figure 1. Fraud Detection using Random Forest Algorithm

INTRODUCTION

With the Internet technology into all aspects of people's lives, whether in the field of trade or finance, the degree of informatization and virtualization is deepening. In recent years, with the rapid expansion of the frequency and scale of online transactions, more and more people use the Internet to shop. At the same time, the amount of online transactions is also increasing. All these are fertile soil for the breeding of transaction fraud. Fraud criminals often use various channels to steal user information and transfer a large amount of money in the shortest time, causing a lot of property losses to users and banks. Transaction fraud is often an abnormal event hidden in many daily transactions in the financial field. In order to avoid huge labor costs, it is a trend to detect abnormal trading behaviour by means of machine learning and data mining. The core detection algorithms of the system are mainly based on classification [1-5]. In order to face a large amount of data, data mining related processing methods are introduced into transaction fraud task [6-11]. In this paper, we establish a fraud detection system based on the classification model of random forest and the data processing related to feature engineering.

However, these methods have some defects. In reference [5], due to the limited amount of data, it is difficult to establish a robust and accurate fraud detection system for practical scenarios. Besides, most of these techniques are absence of manual grouping. Manual characterization can compensate for the lack of programmed grouping and further stay away from the danger of misrepresentation.

B Our Contribution

Referring to the boost-based fraud transaction model [9], this paper proposes a semi-automatic fraud transaction detection system based on random forest (as shown in Figure 1). Among them, the automation part is a fraud transaction risk detection model based on random forest.

(a) R. Priyadarshin – IV Year (2018-2022) JETIR November 2021, Volume 8, Issue 11

A Review Paper on Artificial Intelligence in Healthcare

Mohamed Fahim J

Department of Computer Science and Engineering, Adim Muhammed Salegh College of Engineering, Chennai 600055, India

Date of Submission: 01-10-2022

Date of Acceptance: 13-10-2022

ABSTRACT

In recent years, artificial intelligence (AI) has advanced fast in terms of software algorithms, hardware implementation, and applications in a wide range of fields. Several forms of AI are already being used by payors and providers of care, as well as life sciences firms. Diagnosis and treatment recommendations, patient involvement, adherence, and administrative operations are the most common types of applications. Even though the goal of this study is to maintain track of current scientific achievements, comprehend the availability of technology, appreciate the tremendous potential of AI in biomedicine, and

inspire researchers in related disciplines. New advances and breakthrough continue to push the boundaries and scope of AI applications and are expected to grow rapidly shortly. This review summarizes the latest developments in AI applications in health care. Ethical issues in the application of AI to healthcare are also discussed.

KEYWORDS

Artificial intelligence; Digital health; Natural language processing; Machine learning; Deep learning; Robotic process automation; Precision medicine; Healthcare applications

I. Introduction

Artificial intelligence (AI) has gone beyond the realm of science fiction. It is regarded as the most revolutionary technology of the twenty-first century and beyond, having enormous societal and economic possibilities. Artificial intelligence and related technologies are becoming more and more common in business and society and are beginning to be used in healthcare. Many elements of patient care, as well as administrative operations within providers, payers, and pharmaceutical organizations, have the potential to be transformed by these technologies [1], [2].

Several research studies have already found that AI can perform as well as or better than humans in crucial healthcare activities such as illness diagnosis. Algorithms are already surpassing doctors in detecting dangerous tumors and advising researchers on how to build cohorts for expensive clinical trials. However, for a variety of reasons, we believe that it will be many years before AI replaces humans in medical process domains. In this review, we describe both the potential that AI offers to automate aspects of care and some of the barriers to the rapid implementation of AI in healthcare.



Figure 1

The growing availability of multi-modal data (genomics, economic, demographic, clinical, and phenotypic) combined with technological advancements in mobile, internet of things (IoT), computing power, and data security herald a moment of convergence between healthcare and technology that will fundamentally transform healthcare delivery models through AI-augmented healthcare systems.

In medical industries, AI is not applied to replace human interactions, but to provide decision

(b) Mohamed Fahim I – II Year (2021-2025) IJEMH, October 2022, Vol. 3, Issue 5

Figure 4.6 Student Publication - Samples

Table 4.5 List of events within inter-institute for (2021-2022)

S.No	Name of the Event	Event	Date	Resource Person and Designation	Targeted Students	No. Of Students	Relevance to POs
1.	Internet of Things Hands on Session on Arduino, Raspberry PI and Contiki OS	Guest Lecture	12-06-2021	Dr. Abdul Quadir MD Assitant Professor, VIT University, Chennai	II & III Year	227	PO5, PO10, PO11, PO12
2.	Technical Expertise – Robotic Process Automation	Guest Lecture	04-01-2022	Er. Syed Ali Fathima Team Lead, Cognizant	II & III Year	147	PO3, PO5, PO9, PO11
3.	Data Analytics using MATLAB	Webinar	15-04-2022	Dr. N.R Shanker Professor Aalim Muhamed Salegh College of Engineering	II & III Year	100	PO5, PO9, PO10, PO11, PO12

Table 4.6 List of events within institute for (2020-2021)


S.No	Name of the Event	Event	Date	Resource Person and Designation	Targeted Students	No. Of Students	Relevance to POs
1.	Code logic generation	Guest Lecture	04-01-2021	CSE – Technical Training Team	II&III year	227	PO2, PO3
2.	Higher order thinking skills	Guest Lecture	05-01-2021	CSE – Technical Training Team	II&III year	227	PO2, PO3

Table 4.7 List of events within institute for (2019-2020)

S.No	Name of the Event	Event	Date	Resource Person and Designation	No. Of Students	Relevance to Pos
1.	Machine learning	Guest Lecture	19-07-19	Mr.Vijayaraghavan	60	PO8, PO5, PO11
2.	Digital transformation using devops	Guest Lecture	22-07-19	Mr.DineshKumar	85	PO8, PO5, PO11

Table 4.8 List of Students certified in NPTEL course for (2021-2022)


S.No	Name of the student	Topic	Date
1	MeeranNasif	Programming in Java	Jul-oct 2021
2	Aiman Rabiya	Programming in Java	Jul-oct 2021
3	Balaji S	Programming in Java	Jul-oct 2021
4	Mohammed Thousif	Programming in Java	Jul-oct 2021
5	Hazeem Ahmad	Programming in Java	Jul-oct 2021
6	Thameemullah	Programming in Java	Jul-oct 2021
7	Athiya Zainab	Programming in Java	Jul-oct 2021
8	Sofiya Rani N	Programming in Java	Jul-oct 2021
9	Shaik Kallutla Adnan Sami	Programming in Java	Jul-oct 2021
10	Asika Banu	Programming in Java	Jan-Apr 2022
11	Mohamed Fahim	Programming in Java	Jan-Apr 2022
12	Mohamed Zacariya Abuthahir	Programming in Java	Jan-Apr 2022
13	Shaik Thabassum Fathima	Introduction to database systems	Jan-Apr 2022
14	Priya Dharshini . R	Python for data science	Jan-Apr 2022
15	Mohammed Zain . P	Python for data science	Jan-Apr 2022



Elite

NPTEL Online Certification


(Funded by the Ministry of HRD, Govt. of India)




This certificate is awarded to
SHAIK KALLUTLA ADNAN SAMI
 for successfully completing the course
Programming in Java
 with a consolidated score of **72** %


Online Assignments	24.47/25	Programming Exam	25/25	Proctored Exam	22.41/50
--------------------	----------	------------------	-------	----------------	----------


Total number of candidates certified in this course: 2632


Prof. G P Raja Sekhar
 Dean, Continuing Education
 IIT Kharagpur

Jul-Oct 2021
(12 week course)

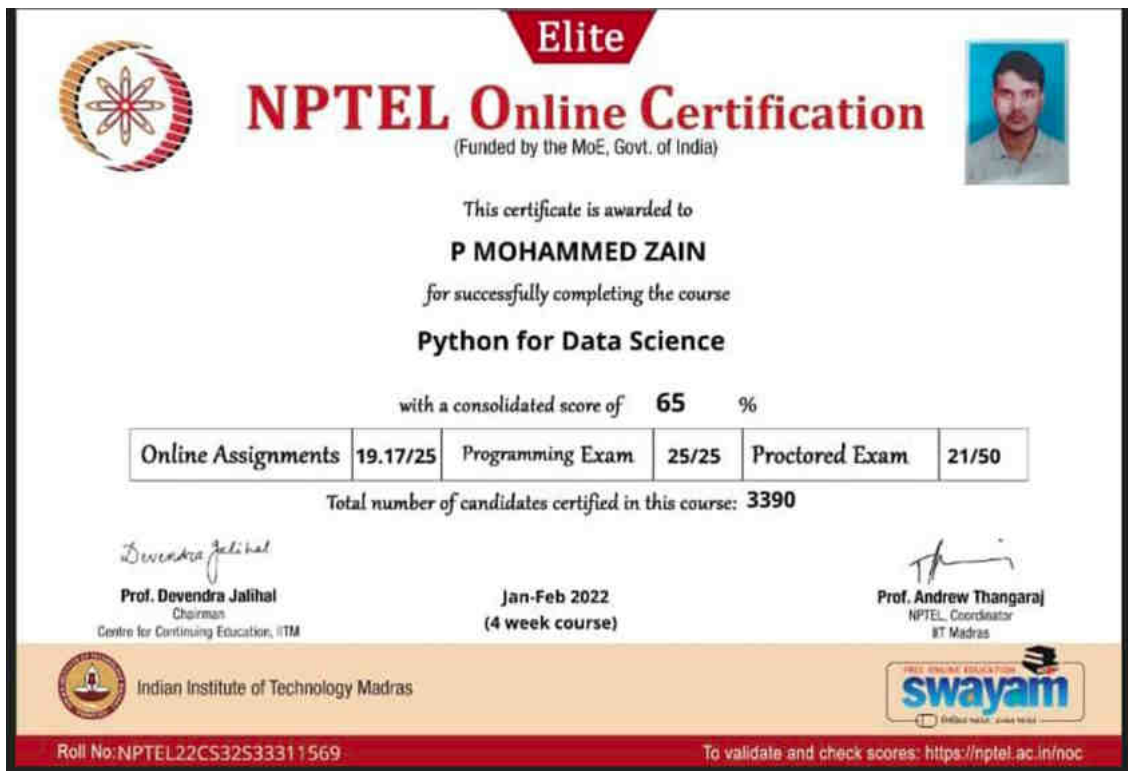

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur


 Indian Institute of Technology Kharagpur



Roll No: NPTEL21CSS6523340536
To validate and check scores: <https://nptel.ac.in/noc>

(a) Shaik Kallutla Adnan Sami successfully completed the course Programming in Java Elite Certification



(b) P Mohammed Zain successfully completed the course Python for Data Science Elite Certification

Figure 4.7 NPTEL Sample Certificates

Table 4.9 List of Students certified in NPTEL course for (2020-2021)

S.No	Name of the student	Topic	Date
1	Syed Abu Anwar	Python for Data Science	Jan – Feb 2021
2	Mohd Azam	The Joy of Computing using Python	Jan – Feb 2021

Table 4.10 List of Students certified in NPTEL course for (2019-2020)

S.No	Name of the student	Topic	Date
1	Dinesh P	Computer Networks and Internet Protocol	Jan-Apr 2020
2	Divya Lakshmi V	Programming in java	July-Oct 2020

Table 4.11 List of prizes / Awards by students in the events for CAY(2022-23)

S.No	Student Name	Event	Place	Prize	Date
1	Kamaleshwaran S	Code Debugging	SIMATS School of Engineering	I	19-09-2022
2	Yasmin Parveen S	Technical Quiz	S.A.Engineering College	II	14-09-2022
3	Yasmin Parveen S	Paper Presentation	S.A.Engineering College	I	14-09-2022
4	Mohammad Zain	Paper Presentation	S.A.Engineering College	I	14-09-2022
5	Sakthivel R	Technical Quiz	S.A.Engineering College	I	14-09-2022
6	Mohammed Akram R	Code Debugging	S.A.Engineering College	II	14-09-2022



Figure 4.8 Certificates sample-1 for List of prizes / Awards by students in the events for CAY(2022-23)

S.A. ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

(Accredited by NBA, NAAC with 'A' Grade & ISO 9001: 2015 Certified Institution)

Approved by AICTE

Poonamallee - Avadi Main Road, Thiruverkadu, Chennai - 600 077.

NAKSHATRA '22

NATIONAL LEVEL TECHNICAL SYMPOSIUM



This is to certify that Mr. / Ms. MOHAMMAD ZAIN
 of AALIM MUHAMMED SALEGH COLLEGE OF ENGG.
 has won FIRST place in _____
PAPER PRESENTATION event(s)
 organized by the department of INFORMATION TECHNOLOGY
 held at National Level Technical Symposium on 14th September 2022.

Dr. S. RAMACHANDRAN

PRINCIPAL

Thiru. D. SABARINATH

DIRECTOR

Thiru. S. AMARNAATH

CORRESPONDENT



Figure 4.9 Certificates sample-2 for List of prizes / Awards by students in the events for CAY(2022-23)

Table 4.12 List of prizes / Awards by students in the events for CAY (2021-22)

S.No	Student Name	Event	Place	Prize	Date
1	Mohamed Fahim	Paper Presentation	Aalim Muhamed Salegh College of Engineering	III	16-06-2022
2	Sajith Ahmed	FACTOIDS	Chennai Institute of Technology	II	16-05-2022
3	Syed Karishma Afreen	FACTOIDS	Chennai Institute of Technology	II	16-05-2022
4	Ganesh R	Paper Presentation	St. peter's College of Engg &Tech	III	10-05-2022
5	Arul Balaji S	Paper Presentation	St. peter's College of Engg &Tech	III	10-05-2022



Figure 4.10 Certicates sample-1 for List of prizes / Awards by students in the events for CAY(2021-22)



Figure 4.11 Certificates sample-2 for List of prizes / Awards by students in the events for CAY(2021-22)

Table 4.13. List of Prizes/Awards by Students in the Events for CAY (2019-2020)

S.No	Student Name	Event	Place	Prize	Date
1	Sirishma Aaskar N	Technical Event- Tech Freak-Lexicon 2020	Prince Dr.K.Vasudevan College Of Engineering And Technology	I	1-2-2020
2	Sirishma	Paper Presentation	Rmk Engineering College	I	03.09.2019
3	Sirishma	Paper Presentation	Mohammed Sathak A.J College Of Engineering	I	13.09.2019
4	Sirishma	Technical Quiz	Mohammed Sathak A.J College Of Engineering	I	13.09.2019
5	Cader Rimas	Paper Presentation	Mohammed Sathak A.J College Of Engineering	Participation	13.09.2019
6	Mohamed Thanveer	Paper Presentation	Mohammed Sathak A.J College Of Engineering	Participation	13.09.2019
7	Ali Askar	Technical Quiz	Mohammed Sathak A.J College Of Engineering	IV	13.09.2019
8	Noor Mohamed	Technical Quiz	Mohammed Sathak A.J College Of Engineering	IV	13.09.2019



Figure 4.12 Certicates samples for List of prizes / Awards by students in the events for CAY(2019-20)

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 143.23

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	Asst Typ
Dr. N.R. Shanker	BGCPS3634M	ME/M. Tech and PhD	01/11/2013	ICE	25	7	3	Professor	01/07/2020	01/07/2020	Req
G SULTHANA BEGAM	BMYP8780E	M.E/M.Tech	01/07/2006	CSE	0	0	0	Assistant Professor		28/12/2020	Req
DR.E.GANESH	BCEPG2437C	ME/M. Tech and PhD	01/07/2022	ICE	0	0	0	Assistant Professor		07/07/2022	Req
DR M PRABHU	BZFPP8584H	ME/M. Tech and PhD	01/07/2022	ICE	0	0	0	Assistant Professor		15/07/2022	Req
M AHSAN SHARIFF	AUJPA7097A	M.E/M.Tech	10/02/2014	CSE	2	0	0	Assistant Professor		09/12/2019	Req
S.SUBERIYA BEGUM	CYUPS4547L	M.E/M.Tech	02/01/2012	CSE	0	0	0	Assistant Professor		01/07/2010	Req
SHEIK KADAR HUSSAIN	CACPS3987C	M.E/M.Tech	01/11/2013	CSE	0	0	0	Assistant Professor		01/08/2012	Req
KADER SAHIB MARICAR M T M	AMRPM3176G	M.E/M.Tech	03/08/2015	ICE	0	0	0	Assistant Professor		01/08/2022	Req
MARY JENIFER .J	CFFPM6800N	M.E/M.Tech	01/06/2017	CSE	3	0	0	Assistant Professor		09/12/2019	Req
S.AFSHIA NASRIN	AWDPA0248H	M.E/M.Tech	04/01/2016	CSE	0	0	0	Assistant Professor		16/12/2019	Req
M.PASUPATHI	BVCPP1924A	M.E/M.Tech	22/10/2012	CSE	0	0	0	Assistant Professor		21/10/2021	Req
U.SUBATHRA	ALUPU0162E	M.E/M.Tech	16/10/2021	CSE	0	0	0	Assistant Professor		15/11/2021	Req
V.AMARSHREE	BMIPA0101M	M.E/M.Tech	01/11/2013	CSE	0	0	0	Assistant Professor		27/12/2021	Req
M.GRACE PRASANNA	BFAPG9512B	M.E/M.Tech	30/08/2010	CSE	0	0	0	Assistant Professor		27/12/2021	Req
J.SHAMLA	CHVPS6177G	M.E/M.Tech	01/11/2014	CSE	0	0	0	Assistant Professor		28/12/2021	Req
MOHAMMED IRFAN S N	DGMPM3493L	M.E/M.Tech	30/04/2020	INFORMATION TECHNOLOGY IN MULTIMEDIA	0	0	0	Assistant Professor		04/04/2022	Req
R.DAISY MERINA	BESPD6205F	M.E/M.Tech	02/05/2022	CSE	0	0	0	Assistant Professor		27/06/2022	Req
D.GAYATHRI	PQOPG8008F	M.E/M.Tech	01/11/2014	CSE	0	0	0	Assistant Professor		08/07/2022	Req
P.DHANYA	EWXPP2187L	M.E/M.Tech	01/06/2022	CSE	0	0	0	Assistant Professor		01/08/2022	Req
PRIYA K	ATYPP0693H	M.E/M.Tech	01/02/2010	CSE	1	0	0	Assistant Professor		08/12/2003	Req
SARAVANAN .A	ANAPA0946N	M.E/M.Tech	03/12/2007	CSE	0	0	0	Assistant Professor		01/11/2007	Req
GAYATHRI.R	BCFPG1970B	M.E/M.Tech	01/06/2010	CSE	0	0	0	Assistant Professor		04/07/2019	Req
SYED ZUBAIR AHAMED HUSSAIN	DIQPS9028R	M.E/M.Tech	02/01/2012	CSE	0	0	0	Assistant Professor		01/07/2011	Req
MOHAMED IQBAL.M	BEJPM5813D	M.E/M.Tech	01/06/2012	CSE	0	0	0	Assistant Professor		10/12/2012	Req
NOORUL JULAIHIA.A.G	AQJPN2747A	M.E/M.Tech	05/05/2017	CSE	1	0	0	Assistant Professor		03/07/2017	Req
VIMALA.R	CLDPR4392A	M.E/M.Tech	02/06/2015	CSE	0	0	0	Assistant Professor		01/08/2018	Req

RAJ KUMAR K	BBVPR7702P	M.E/M.Tech	01/06/2018	CSE	0	0	0	Assistant Professor		02/07/2018	Req
BHARATHY D	EWBPB7149N	M.E/M.Tech	02/12/2019	CSE	0	0	0	Assistant Professor		23/12/2019	Req
NADHEER AHMED B	AFKPN3853M	M.E/M.Tech	01/11/2006	ICE	0	0	0	Assistant Professor		01/08/2022	Req
S V HARINI	AMSPH4442B	M.E/M.Tech	01/06/2018	CSE	0	0	0	Assistant Professor		01/03/2021	Req
HEMALATHA M	ACBPH9289F	M.E/M.Tech	01/02/2010	CSE	0	0	0	Assistant Professor		03/07/2017	Req
P.P DEVI	BKSPD1872J	M.E/M.Tech	01/03/2013	CSE	2	0	0	Assistant Professor		02/07/2018	Req
PRABHA	BLQPP7282R	M.E/M.Tech	02/11/2009	CSE	0	0	0	Assistant Professor		19/12/2018	Req
AARTHY N	CDJPN6040D	M.E/M.Tech	02/12/2019	CSE	2	0	0	Assistant Professor		16/12/2019	Req
S.BAKIYALAKSHMI	BMOPB4671H	M.E/M.Tech	01/01/2016	CSE	1	0	0	Assistant Professor		21/12/2020	Req
MADHURAM.N	EEUPM8106K	M.E/M.Tech	03/02/2020	NETWORK AND INTERNET ENGINEERING	0	0	0	Assistant Professor		27/12/2021	Req
Dr. SHANKER.R	BRHPS0284D	ME/M. Tech and PhD	03/12/2018	CSE	0	0	0	Associate Professor		16/06/2014	Req

5.1 Student-Faculty Ratio (20)

Total Marks 10.00

Institute Marks : 10.00

UG

No. of UG Programs in the Department

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	19	120	17	120	2
3rd Year	120	17	120	2	120	5
4th Year	120	2	120	5	120	3
Sub-Total	360	38	360	24	360	10
Total	398		384		370	
Grand Total	<input type="text" value="398"/>		<input type="text" value="384"/>		<input type="text" value="370"/>	

PG

No. of PG Programs in the Department

Grand Total	<input type="text"/>	<input type="text"/>	<input type="text"/>
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SFR

No. of UG Programs in the Department

No. of PG Programs in the Department

Description	CAY(2022-23)	CAYm1 (2021-22)	CAYm2 (2020-21)
Total No. of Students in the Department(S)	<input type="text" value="398"/> Sum total of all (UG+PG) students	<input type="text" value="384"/> Sum total of all (UG+PG) students	<input type="text" value="370"/> Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	<input type="text" value="19"/> F1	<input type="text" value="18"/> F2	<input type="text" value="13"/> F3
Student Faculty Ratio(SFR)	<input type="text" value="20.95"/> SFR1=S1/F1	<input type="text" value="21.33"/> SFR2=S2/F2	<input type="text" value="28.46"/> SFR3=S3/F3
Average SFR	<input type="text" value="23.58"/> 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)	19	0
CAYm1(2021-22)	18	0
CAYm2(2020-21)	13	0

Average SFR for three assessment years : 23.58

Assessment SFR : 10

5.2 Faculty Cadre Proportion (25)

Total Marks 13.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2022-23)	2.00	1.00	4.00	0.00	13.00	18.00
CAYm1(2021-22)	2.00	1.00	4.00	0.00	12.00	17.00
CAYm2(2020-21)	2.00	1.00	4.00	0.00	12.00	12.00
Average Numbers	2.00	1.00	4.00	0.00	12.33	15.67

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

5.3 Faculty Qualification (25)

Total Marks 10.23

Institute Marks : 10.23

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F]
2022-23(CAY)	3	16	19.00	12.37
2021-22(CAYm1)	1	17	19.00	10.26
2020-21(CAYm2)	1	12	18.00	8.06

Average Assessment : 10.23

5.4 Faculty Retention (25)

Total Marks 15.00

Institute Marks : 15.00

Description	2021-22	2022-23
No of Faculty Retained	10	7
Total No of Faculty	13	13
% of Faculty Retained	77	54

Average : 65.00

Assessment Marks : 15.00

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

Total Marks 20.00

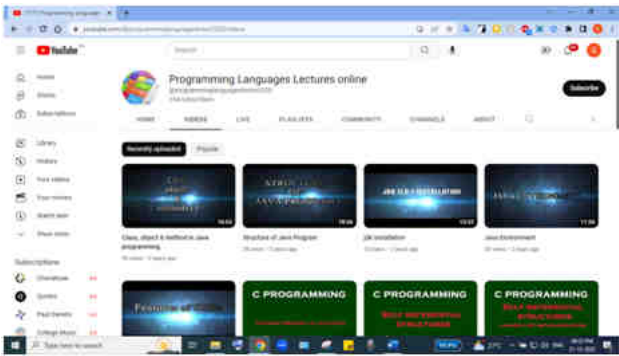
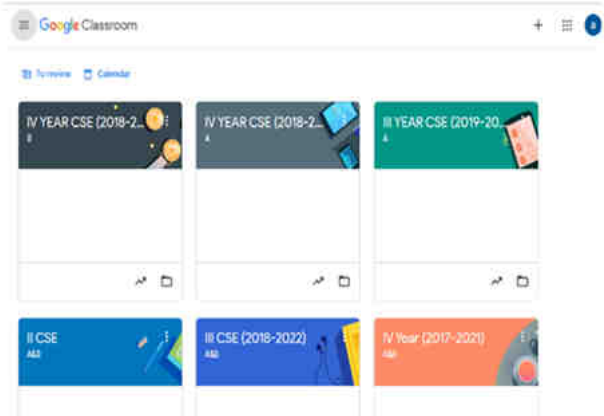
Innovations by Faculty in teaching and learning shall be summarized as per the following description.


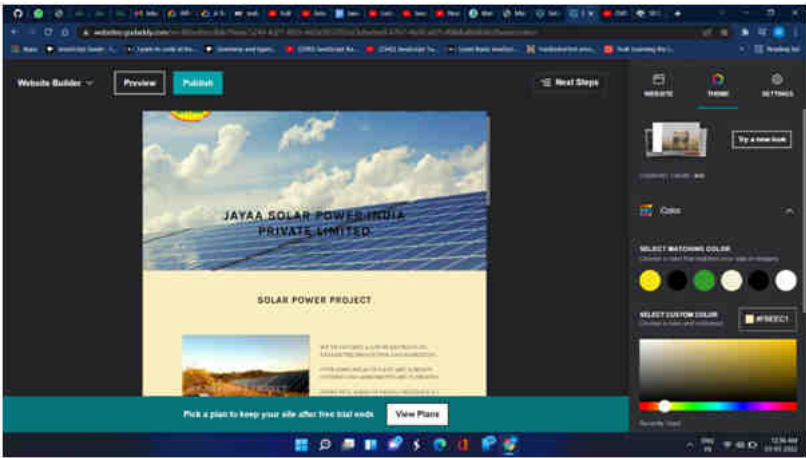
Contributions to teaching and learning are activities that improve student learning. These activities include innovations not limited to the use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive classrooms, leading to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

- The Contents will be made available on the Institute website.
- The work will be made available for peer review and critique.
- The work will be reproducible and enhanced further by other faculty members.

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

- Keeping the reference of the University Academic Calendar and College Academic Calendar the faculty members initially prepare a lesson plan for their subjects at the beginning.
- The Institute has ICT-enabled classrooms with Wi-Fi and a Wired internet facility.
- To enhance the students' knowledge Faculty members, prepare PowerPoint Presentations for their respective courses with relevant video lectures, supported by NPTEL.
- To motivate student participative learning, the Institute practices a methodology known as Peer-to-Peer learning. Under this initiative, students are encouraged or inspired to prepare simple or topics of their own interest, which are displayed and discussed during the Course Instruction.
- Students are encouraged to deliver their content using innovative techniques.
- Students are also stimulated to participate in paper presentations, workshops, conferences and other technical events organized by various institutions nationwide.
- Faculty members are also encouraged to publish papers in reputed journals, which help them to keep themselves updated on the current trends and technologies.
- Faculty members are also encouraged to participate in Faculty Development Programs to know the Recent Trends in their respective subjects so that the knowledge gained from the program will be effectively transferred to the students.
- To make the teaching-learning interactive, the faculty members conduct quiz programs, group discussions, and tutorial sessions.

S.No.	Pedagogical Methods	Activities
1.	Method YOUTUBE VIDEOS	<p>Study material is made available in online mode through website to the students prior to teaching. https://www.youtube.com/@programminglanguageslectur3320/videos</p> 
2.	Method GOOGLE CLASS ROOM	<p>Students are made to join as members of the google classroom. Notes, materials, Assignments, Quiz questions are posted in the app.</p> 

<p>3.</p>	<p>Method SEMINAR ASSIGNMENTS</p>	<p>The students will be given the assignment topics and made them to present seminar in the class room and submit the report in assignment write up.</p> 
<p>4.</p>	<p>Method NPTEL VIDEO CLASS ROOM</p>	<p>The students will be shown NPTEL Video on the lecture topics of the resource persons from IITs, NITs, etc.</p>
<p>5.</p>	<p>Method DEMONSTRATION THROUGH SIMULATION</p>	<p>Demonstration of Web Site Deployment using godaddy.</p> 

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. N.R Shanker	3.00	0.00	5.00
Ms. NoorulJulahiaA.G	0.00	3.00	3.00
Ms. Gayathri R	3.00	0.00	5.00
Ms. Prabha B	0.00	0.00	0.00
Mr.Rajkumar K	0.00	0.00	5.00
Ms. Priya K	0.00	3.00	3.00
Ms. Subariya Begam S	3.00	5.00	0.00
Ms. Afshiya Nasreen	0.00	3.00	5.00
Ms.Bakiyalakshmi S	3.00	0.00	0.00
Ms. Hemalatha M	0.00	5.00	0.00
Mr. Saravanan A	0.00	0.00	3.00
Mr. Shaik Kadhar Hussain	0.00	3.00	3.00
Ms. Vimala R	0.00	0.00	3.00
Ms Devi P P	3.00	3.00	3.00
Mr. Ahsan Sheriff M	5.00	3.00	5.00
Ms. Bharathy D	0.00	3.00	0.00
Ms. Aarthy N	5.00	5.00	0.00
Ms. Mary Jenifer J	5.00	5.00	5.00
Ms. Sultana Begum G	5.00	0.00	0.00
Mr. Mohamed Iqbal M	0.00	0.00	5.00
Mr. Syed Zubair Ahamed Hussain	0.00	0.00	3.00
Ms. Subathra U	3.00	0.00	0.00
Ms. Madhuram N	5.00	0.00	0.00
Ms. Amarshree V	5.00	0.00	0.00
Sum	48.00	41.00	56.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratios per 5.1	19.90	19.20	18.50
Assessment [3*(Sum / 0.5RF)]	14.47	12.81	18.16

Average assessment over 3 years: 15.15

5.7 Research and Development (30)

Total Marks 20.00

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

- Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.
- Ph.D. guided/Ph.D. awarded during the assessment period while working in the institute
- All relevant details shall be mentioned.

A) No. of Quality Publications in referred/ SCI Journals, Citations, Books/ Book chapters:

- Institution R&D is taking care of the publication of quality papers in referred journals.
- It provides the facilities like internet, computing, information regarding international conferences and journal publications.

Table 5.1 Research Publication Details

ACADEMIC YEAR	2019-2020	2020-2021	2021-2022	2022-2023
No. of Journals	4	12	21	1
No. of Conference	Nil	8	1	Nil

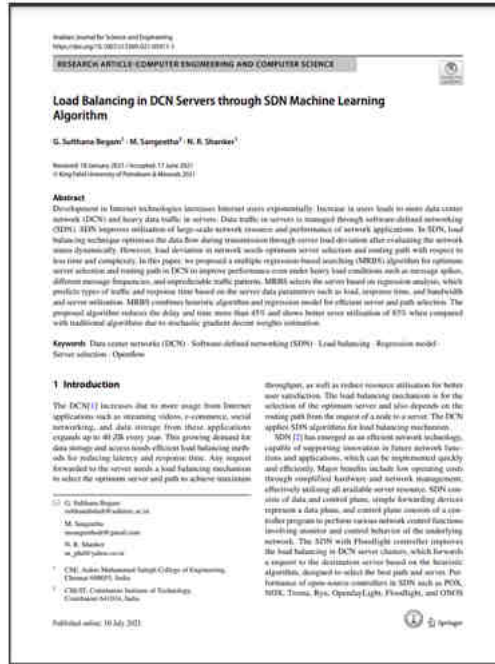


Figure 5.1 G. Sulthana Begam, M. Sangeetha, N.R Shanker, Arabian Journal for and Engineering, Vol.47, no.2, 2021, 1423-1434, 10.1007/s13369-021-05911-1

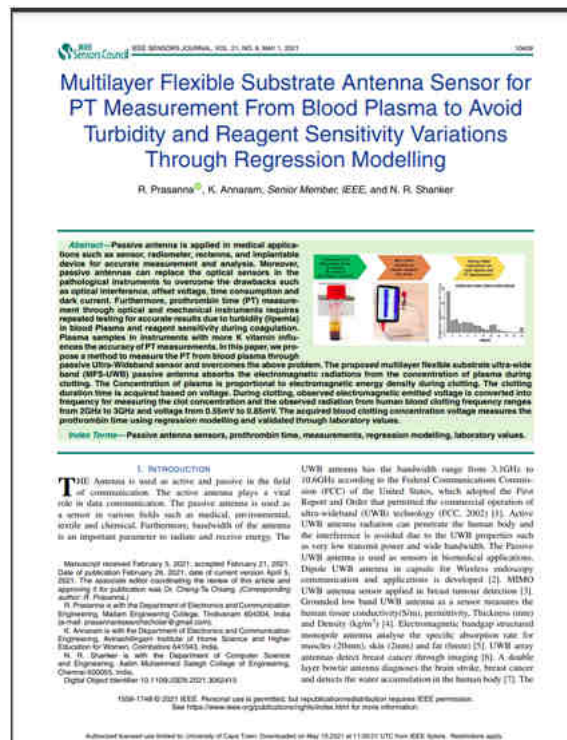


Figure 5.2 R. Prasanna, K. Annaram and N. R. Shanker, IEEE Sensors Journal, vol.21,no.9, 2021, 10409-10419, 10.1109/jsen.2021.3062415

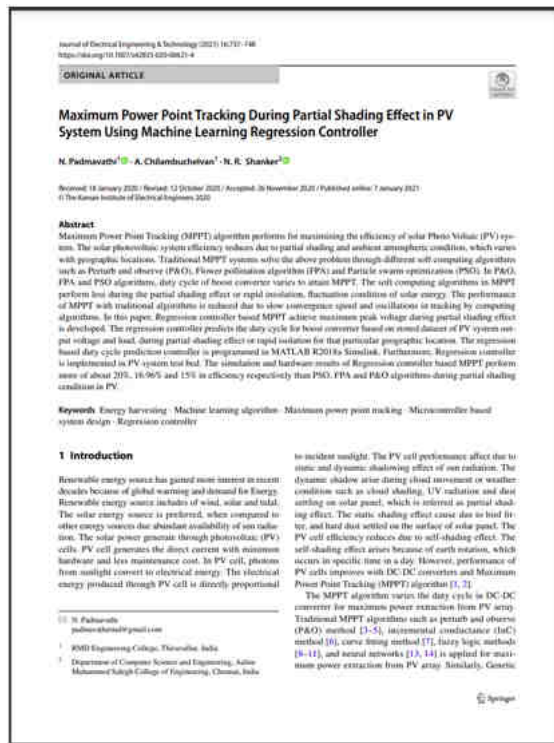


Figure 5.3 Padmavathi,N., Chilambuchelvan,A. & Shanker,N.R, J. Electrical Engineering& Technology, vol.16, 2021, 737–748, 10.1007/s42835-020-00621-4

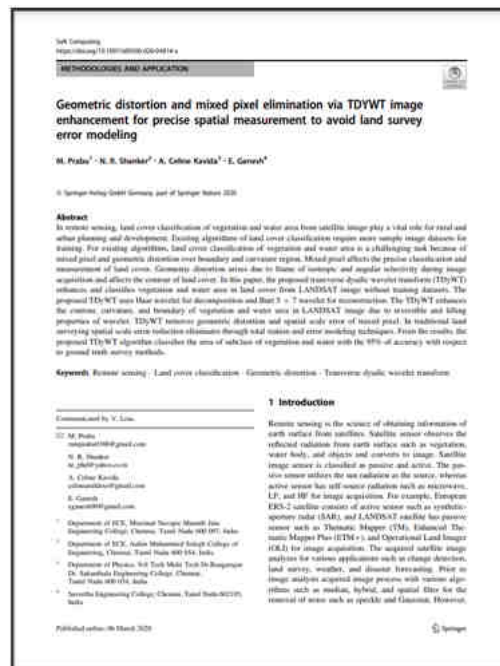


Figure 5.4 Prabu,M., Shanker,N.R., CelineKavida,A., Ganesh,E, SoftComputing, vol.24, 2020, 14687–14705, 10.1007/s00500-020-04814-x

Survey on Automatically Mining Query Facets

T.Yawanikha¹,A.Mahalakshmi²,R.S.Shudapreya³,J.Mary Jennifer⁴,J.K.Kiruthika⁵

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kiruthikamar3@gmail.com⁵

Abstract

Mining query facets extracts the knowledge from search results and summarized to provide useful information. Mining query facets extracts the query facets from the search results and summarized to provide useful information. The Query Facets are the multiple groups of words or phrases which are obtained from the content covered by the given query. Query log is the record of valuable information which provide query facets related to user's search queries on the internet. The query facet searching is an exploratory searching mechanism which refines the search results based on the faceted taxonomy. This paper focus on various techniques involved in mining query facets from the search results. This paper focus on obtaining useful query facets to the user in the search results.

Keywords: Query Facets, Extraction, Summarization

1. Introduction

Data mining is the powerful technology to analyze the data from different places and locations and that information is summarized to provide better information to the user. Data mining analyze the data stored in data warehouse. Data mining is also known as Knowledge Discovery in Databases, which extracts the data from Data warehouse and the data are processed to evaluate patterns and provide useful knowledge to the user in an efficient manner. Data mining mines the data using two learning approaches such as supervised and unsupervised. In supervised learning, relationship is established among dependent variable and explanatory variables. In unsupervised learning, there is no distinction between dependent variable and explanatory variable [28], [29]. Searching query facets on search engine is an exploratory searching mechanism, which iteratively refine the search results based on faceted taxonomy. Faceted search analyze the models and framework to rank the facets based on exploratory searching mechanism. Exploratory based faceted search iteratively refine the search results by facets. Faceted search is also known as faceted browsing which is a subset of faceted taxonomy. Faceted search rank the important terms by using independent facet and correlated facet [30]. Mining extracts the raw data available in the web pages and they are processed to provide useful information to the user in an efficient manner and that satisfies the user needs [31]. The purpose of using web in day to day life is widely increased to access the information from web information retrieval. Query log is the record of useful knowledge which provides query facets related to the user's search queries on the internet. The search engine submit the user's query from different perspectives. A query facet is a set of terms that describe and summarize an important aspect of a query. The query facets are also known as a word or a phrase. A query may have

Figure 5.5 Mary Jennifer, International Journal of Control and Automation, vol.13 no.1, 2020



Figure 5.6 P.P Devi., B. Jaison, Computer Communications, vol.152, 2020, 316 – 322.



Figure 5.7 Suberiya Begum presented paper in International Conference Organized by SPIHER on 06.06.2021



Figure 5.8 Dr. N.R. Shanker presented paper titled “Transformer breather thermal image decomposition for fault diagnosis” in IEEE Conference

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

Table 5.2 Research Scholars Guided by Prof.Dr.N.R.Shanker

Research Guide	Name of Scholar	Area of Research	Topic of the Research	University & Year of Registration	Status
Dr. N.R. Shanker	Dr. PRABU M	DEEP LEARNING	Satellite Image Enhancement using Transforms and deep learning	Anna University	Ph.D Awarded
	Dr. PRABHAKARAN N	DIP	A Study on change detection in water body area through optimization algorithm using low, medium and high-resolution satellite image.	Anna University	Ph.D Awarded
	Dr. GANESH E	MACHINE LEARNING	Earlier detection of Glaucoma from aqueous humor fluid of eye through spintronic sensor and machine learning algorithms	Anna University	Ph.D Awarded
	Ms ARUMBU P	OCEAN ACUSTIC SIGNAL PROCESSING	Unified Flow Controller for solving multi objective Power flow problem	Anna University	Thesis submitted
	Mrs. SRILEKHA M	MACHINE LEARNING	Wireless nanosensor network	Anna University	Thesis submitted
	Ms. CHITRA P	DEEP LEARNING	Air pollutant prediction using Long Short Term memory	Anna University	Synopsis Submitted
	Mrs. LAVANYA R	MACHINE LEARNING	Development of microclimatic HVAC system for nano painted rooms	Anna University	Synopsis Submitted
	Mrs. JERLIN EMILYA R	MACHINE LEARNING	Non-invasive measurement of blood sugar level	Anna University	Confirmation completed

REG.NO	NAME	DEGREE	FACULTY	REG. YEAR	REG. SCS	SUPERVISOR	STATUS
17223997167	Sritekha M.k	Ph.D.	Elec	2017	JUL	Joint Supervisor	Thesis Submitted
17244997310	Lavanya R.	Ph.D.	Ice	2017	JUL	Joint Supervisor	Synopsis Submitted
17244997584	Jertin Emiliya R	Ph.D.	Ice	2017	JUL	Joint Supervisor	Confirmation completed

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Home

Figure 5.9 List of Research Scholars doing Ph.D under the Guidance of Dr. N.R. Shanker

PRINT DATE : 14.03.2023 11:43:01

DETAILS OF RESEARCH SUPERVISOR

Name / Reference No.	Dr. SHANKER N. R / 2340331
Designation	Professor
Nature of Appointment	Regular
Department	Department of Computer Science & Engineering
College/Organization Address	Aalim Muhammed Salegh college of Engineering, I.A.F., AVADI, Chennai-600025, Chennai - 600025
Mobile No.	9444200777
E-mail ID	drrshanker@gmail.com
Area of Specialization	SIGNAL AND IMAGE PROCESSING
Anna University Recognised Research Department/Centre/Institute of Code	0

List of Research Scholars who have completed their Ph.D/M.S.(By Research) under the guidance of Dr.SHANKER N .R

S.No.	Degree	Name of the Scholar	Reg. No.	Title of the Thesis	Viva Date
1.	Ph.D.	Ganesh E	17143991109	EARLIER DETECTION OF GLAUCOMA FROM AQUEOUS HUMOR FLUID OF HUMAN EYE THROUGH SPINTRONIC SENSOR AND MACHINE LEARNING ALGORITHMS	04.07.2022
2.	Ph.D.	Prathu M	1414499754	SATELLITE IMAGE ENHANCEMENT USING TRANSFORMS AND DEEP LEARNING ALGORITHM TO DELINEATE WATERBODY AND VEGETATION REGION FOR PRECISE AREA MEASUREMENT	28.06.2022
3.	Ph.D.	Prabhakaran N	1512419186	A STUDY ON CHANGE DETECTION IN WATER BODY AREAS THROUGH OPTIMIZATION ALGORITHM USING LOW MEDIUM AND HIGH RESOLUTION SATELLITE IMAGES	16.03.2021

Date: 14-03-2023 08:03:01 | Page: 1 / 1

Figure 5.10 List of Research Scholars completed Ph.D under the Guidance of Dr. N.R. Shanker

C) Ph.D Awarded:

Table 5.3 Ph.D awarded while working in the Institute

Year	Name of the Faculty	Research Area	Title
2018	Asso. Prof. R.SHANKAR	SECURITY	Improving scalability of stateless multicasting in ADHOC wireless networks



Figure 5.11 Dr. R. Shankar awarded Ph.D during the assessment period while working in the institute

D) Ph.D Pursuing:

Table 5.4 Ph.D pursuing while working in the Institute

Year of joining	Name of the faculty	Research area / University	Title
2017	ASST.PROF.DEVI.P.P	WIRELESS SENSOR NETWORKS / ANNA UNIVERSITY	Protecting WSN From Node Identity Repllicasusing Superimposed Sdisjunction Code Fingerprint Mechanism
2016	ASST.PROF. PRIYA. K	NATURAL LANGUAGE PROCESSING / ANNA UNIVERSITY	Multilevel sentiment analysis using domain thesaurus
2016	ASST.PROF. HEMALATHA M	HIGH PERFORMANCE COMPUTING / ANNA UNIVERSITY	IPV6 Lookup
2016	ASST.PROF. SULTHANA BEGAM. G	SOFTWARE DEFINED NETWORKING / ANNA UNIVEERSITY	Load Balancing in Software Defined Networking
2020	ASST.PROF. AHSAN SHARIFF.M	NETWORK SECURITY / SAVITHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES	Mitigating Control Plane Attacks Over SDN

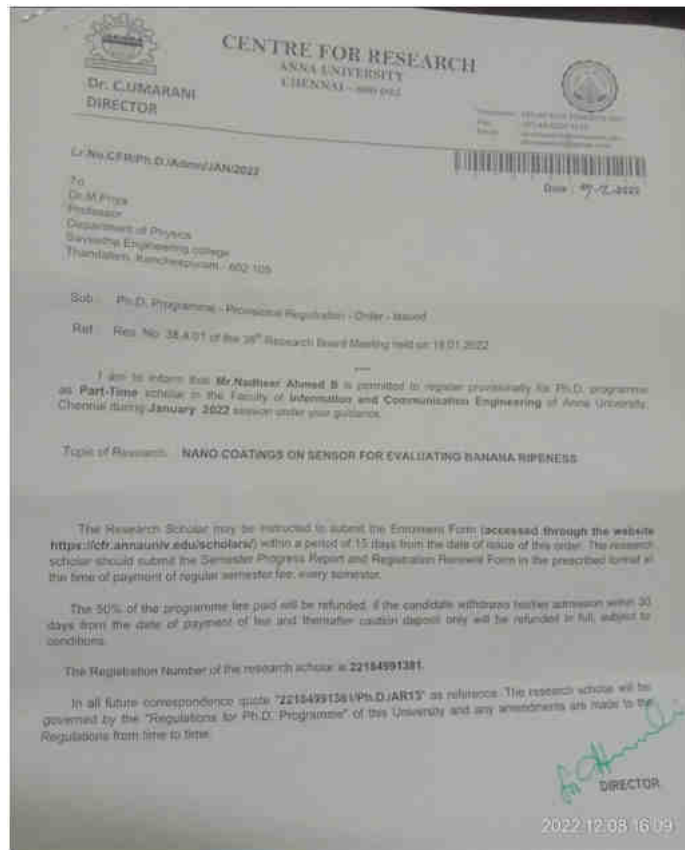


Figure 5.12 ASST.PROF. NADHEER AHMED B, Reg. No. 22184991381/Ph.D/ AR13, Jan 2022, Information and Communication Engineering, Anna University, Chennai

5.7.2 Sponsored Research (5)

Institute Marks : 0.00

2021-22 (CAYm1)

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

2020-21 (CAYm2)

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

2019-20 (CAYm3)

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


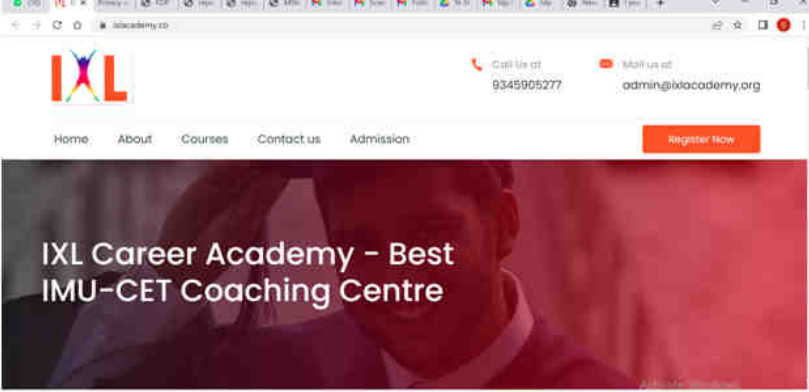
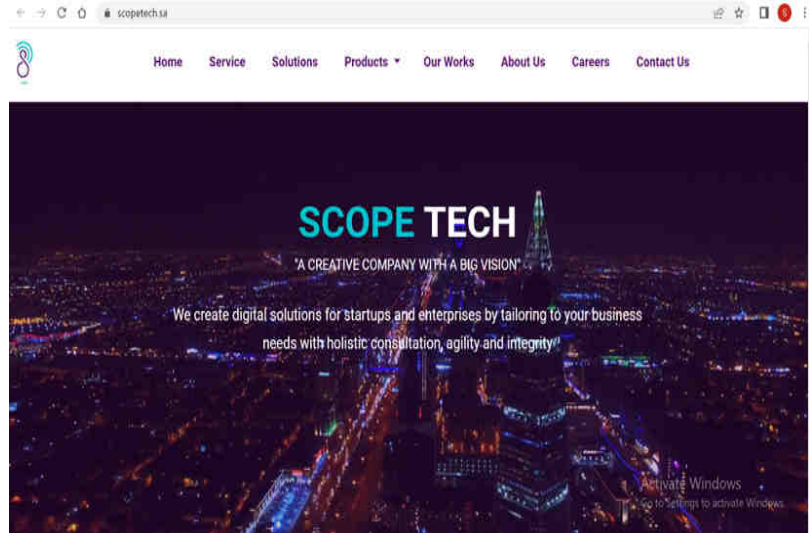
Cumulative Amount(X + Y + Z) = 0.00

5.7.3 Development Activities (10)

Institute Marks : 10.00

A. Product Development:

Table 5.5 List of Projects Developed

Type of Product Development	Duration	Funding Agency / Amount
		
<p>Developed Website for Jaya Financial Services pvt Ltd.</p>		
		
<p>WebSite Developed for ixlacademy, Mylapore in collaboration with Tech4LYF Entrepreneurs</p>		
		
<p>WebSite Developed for SCOPE TECH in collaboration with Tech4LYF Entrepreneurs</p>		

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)

INTELLECTUAL PROPERTY INDIA

Legal Status : Inforce
Due date of next renewal :

Patent Number	: 386927	Date of Patent	: 07/09/2017
Application Number	: 201741031639	Date of Grant	: 20/01/2022
Type of Application	: ORDINARY APPLICATION	Date of Recordal	: 20/01/2022
Parent Application Number	: --	Appropriate Office	: CHENNAI
Grant Title	: A system for identification of magnetism in aqueous humor fluid during static and dynamic in nature		

Sl No	Name of Grantee	Grantee Address
1	Dr.N.R.SHANKER,Ph.D.	AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING NIZARA EDUCATIONAL CAMPUS MUTHAPUDUPET, AVAD1, IAF, CHENNAI, TAMIL NADU INDIA 600055
2	E.GANESH,M.E.	SAVEETHA ENGINEERING COLLEGE SAVEETHA NAGAR, THANDALAM, CHENNAI, TAMIL NADU INDIA 602105
3	Dr.M.PRIYA,Ph.D.	SAVEETHA ENGINEERING COLLEGE SAVEETHA NAGAR, THANDALAM, CHENNAI, TAMIL NADU INDIA 602105

Sl No	Name of Patentee	Address of Patentee
1	Dr.N.R.SHANKER,Ph.D.	AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING NIZARA EDUCATIONAL CAMPUS MUTHAPUDUPET, AVAD1, IAF, CHENNAI, TAMIL NADU INDIA 600055
2	E.GANESH,M.E.	SAVEETHA ENGINEERING COLLEGE SAVEETHA NAGAR, THANDALAM, CHENNAI, TAMIL NADU INDIA 602105
3	Dr.M.PRIYA,Ph.D.	SAVEETHA ENGINEERING COLLEGE SAVEETHA NAGAR, THANDALAM, CHENNAI, TAMIL NADU INDIA 602105

Address of Service : Ideas2IPR, B-115 Chander Nagar, Janak Puri, New Delhi-110058 Ph: 9891016781
Email: mail@ideas2ipr.com

Additional Address of Service : --

Priority Date :

Patent Awarded for “ A system for Identification of magnetism in Aqueous Humar Fluid during Static and Dynamic in nature “ to Dr N. R. Shanker and Dr. E. Ganesh

REAL TIME OPERATING SYSTEM

Tamil

Translated by

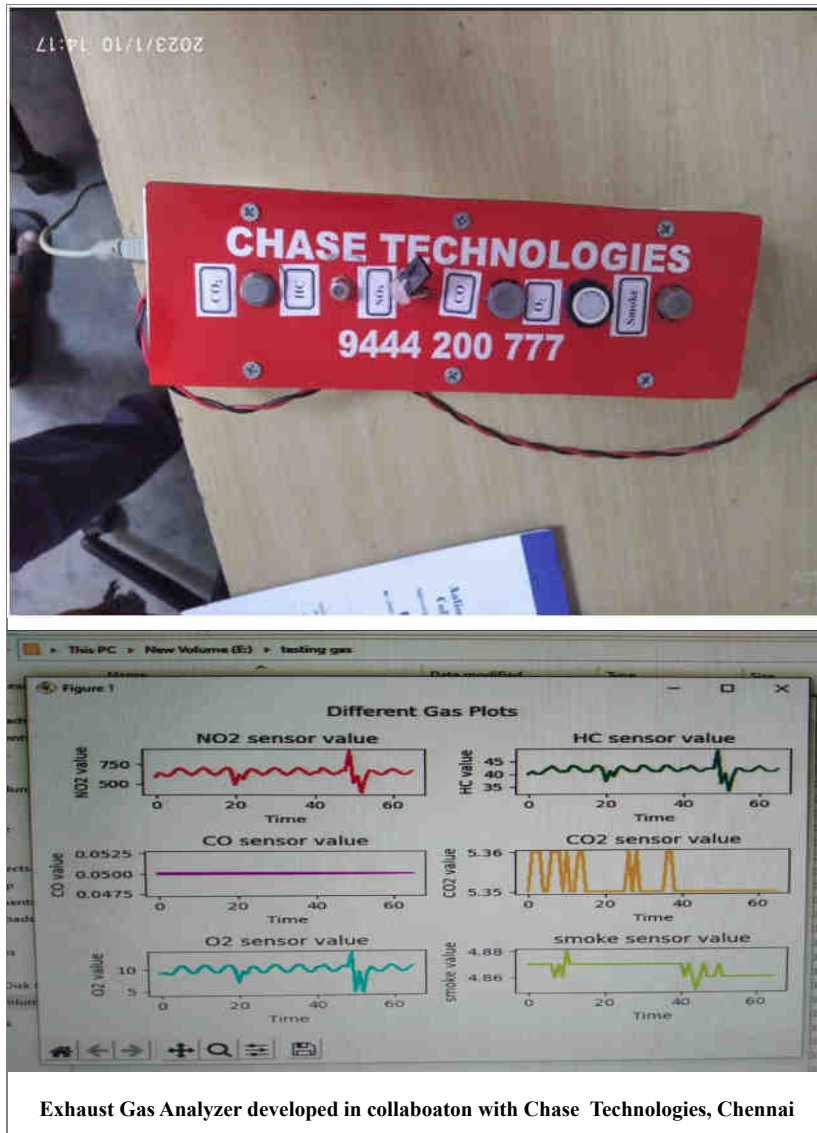
Name	Institute
MIRACLIN JOYCE PAMILA J C	GOVERNMENT COLLEGE OF TECHNOLOGY
M. HEMALATHA	AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Verified by

Name	Institute
DR. PARKAVI A	M S RAMAJAH INSTITUTE OF TECHNOLOGY

swayam.gov.in/NPTEL | nptel.ac.in

NPTEL- Asst. Prof. M. Hemalatha, Translated the materials of Real Time Operating System



B. Research Laboratories:

Table 5.6 List of Research Laboratories

S.NO	Name of the Research Lab	Name of the faculty In charge
1	Image Processing Lab	Dr.Prabu M
2	Computer Vision	Ms.Sulthana Begam
3	IoT Lab	Dr.Ganesh E

C. Instruction Materials:

Table 5.7 List of Instruction Materials

S.No.	DETAILS
1	Smart Class(Multimedia Projector)
2	Lab Manual
3	NPTEL videos
4	Assignments
5	PPT

D. Working models/charts/monographs:

Table 5.8 List of Instruction Materials

S.No.	DETAILS
-------	---------

1	Animations
2	Lab Description Banners
3	Lab Manuals

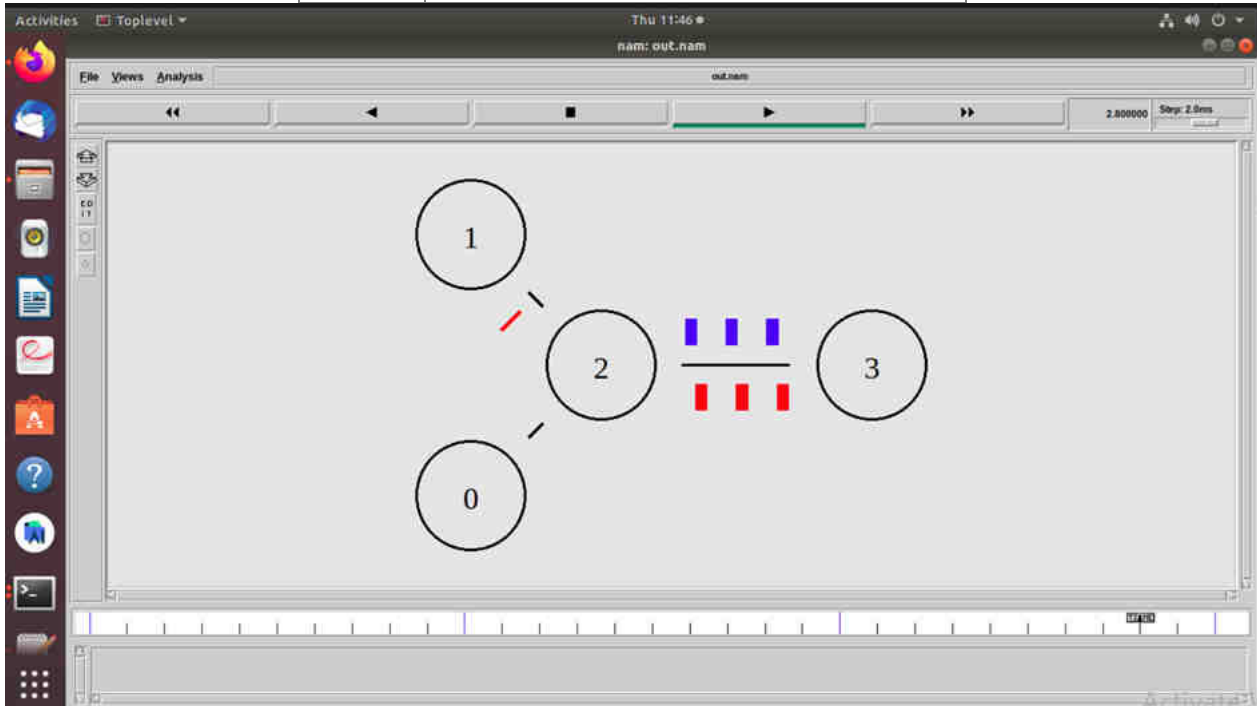


Figure 5.13 NS2 Simulation tool for Networking Concept Demonstration

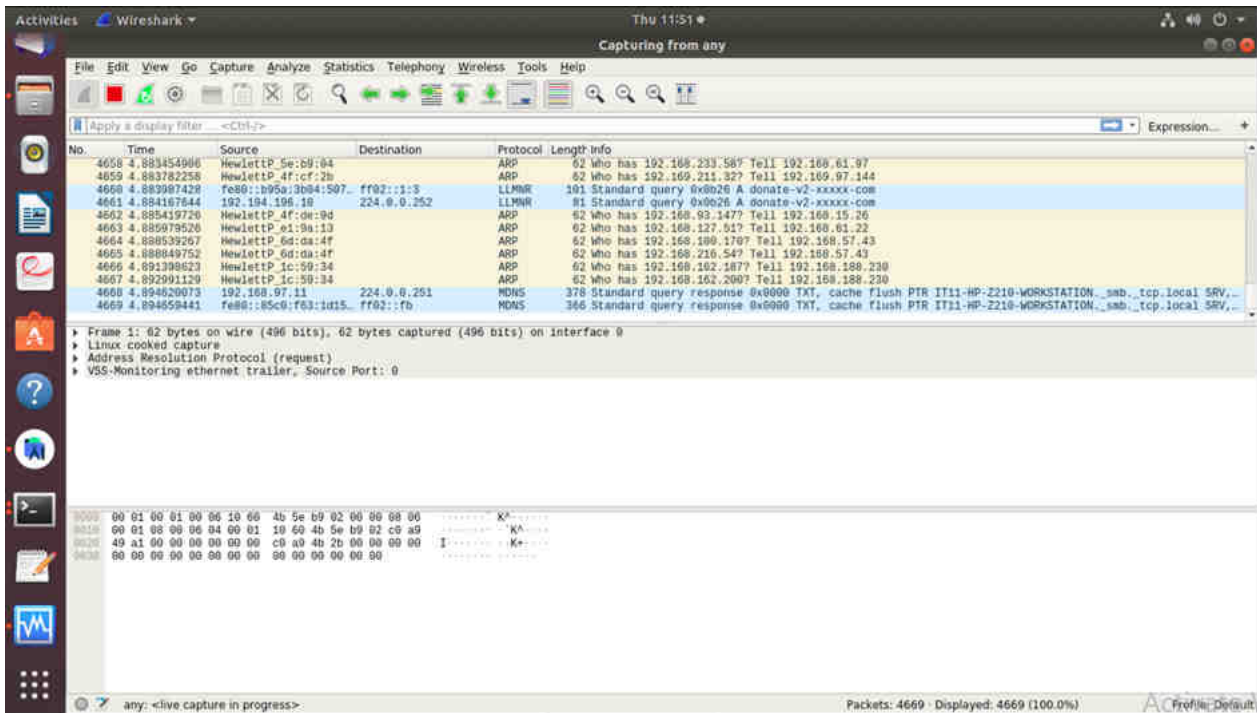


Figure 5.14 Wireshark Simulation tool for Packet Capturing in Networking

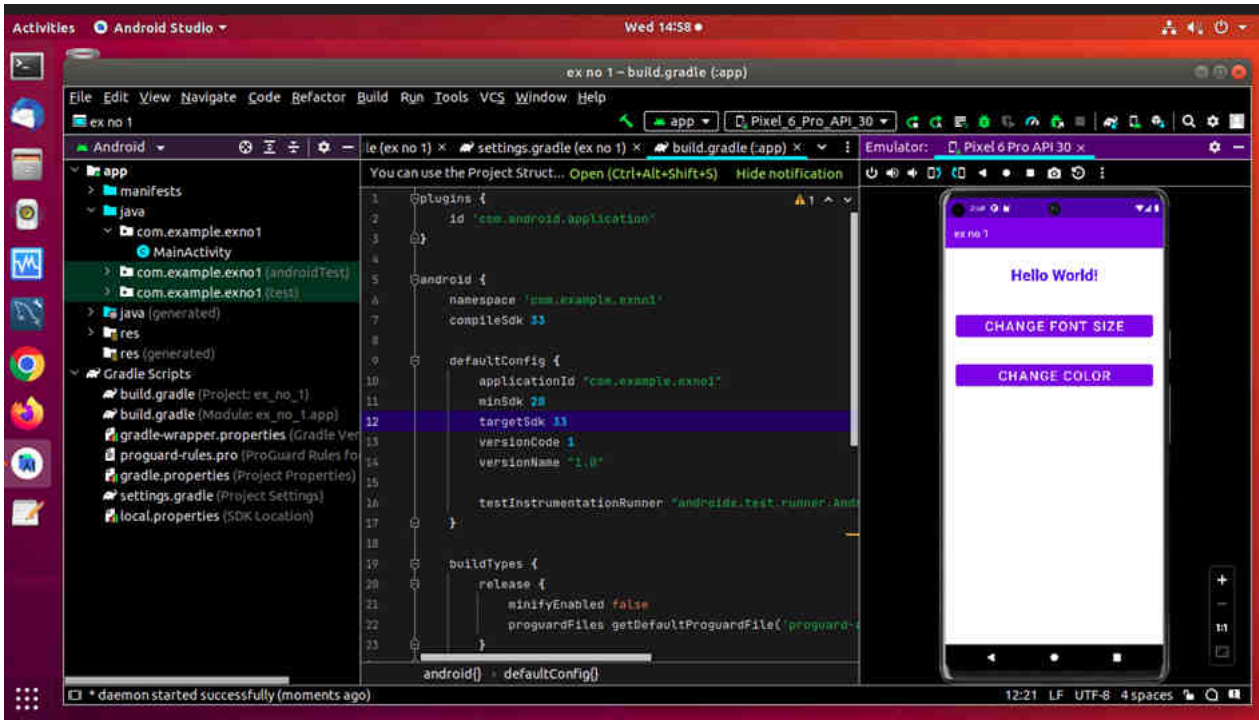


Figure 5.15 Android Studio for Mobile Application Development

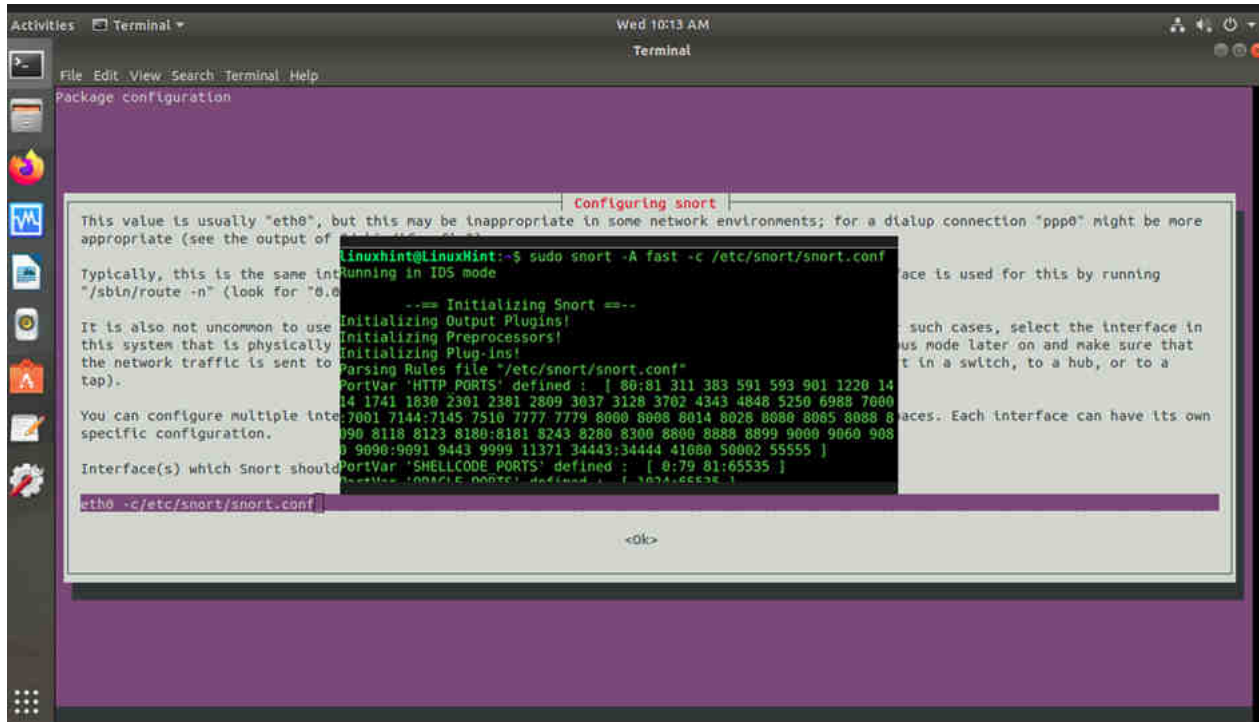


Figure 5.16 Snort Simulation Tool To Detect Intrusions

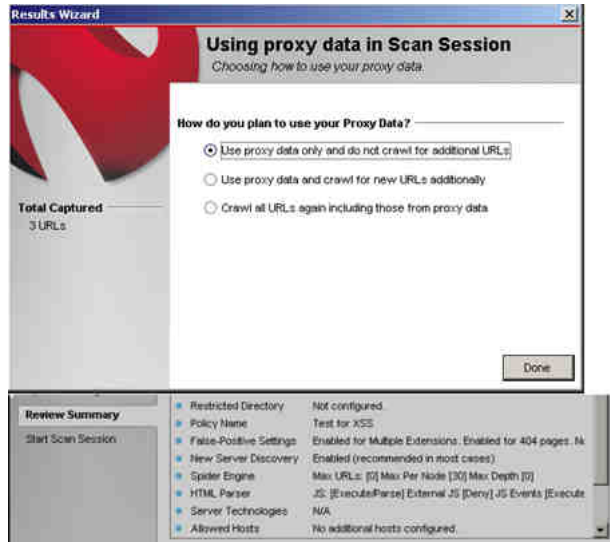


Figure 5.17 N-Stalker for vulnerability Detection

5.7.4 Consultancy(from Industry) (5)

Institute Marks : 0.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount
-	-	-	0.00
			Total Amount(X): 0.00

2020-21 (CAYm2)

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

2019-20 (CAYm3)

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

Cumulative Amount(X + Y + Z) = 0.00

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

Total Marks 30.00

Faculty Performance Appraisal and Development System are advanced to improve the performance of the faculty members in Teaching, Learning and Evaluation Related Activities, Profession Related Contribution & Research and Related Contributions. The performance appraisal of the faculty is evaluated based on the academic performance indicators (APIs) at the end of every academic year. The overall performance is evaluated by way of each college for one hundred points as given below.

Self-Appraisal System:

Every faculty submits self-appraisal document to the department after which it moves to the Principal via the HOD of Department.

The assessment is based on:

- A well-defined system for faculty appraisal for all the assessment years (10)
- Its implementation and effectiveness (20)

A. Well-Defined Performance Appraisal and Development System Instituted for all the Assessment Years:

College uses following appraisal systems in order to make system at high standard.

Self-appraisal system

- Every faculty member submits self-appraisal report to the Department and then it moves to the principal through HOD of Department.

Peer Review System

- Group of faculty members go to classroom and sit with students and observe the class and submit report to the Department and then it moves to the principal through HOD of Department.

Feedback System

- The feedback is quantified. All the parameters mentioned in the feedback form will be analysed.
- Ability of teaching with respect to each item and comprehensive ability of the teachers will be analysed
- The students have to tick one from the multiple answers like Excellent/good/ satisfactory/unsatisfactory
- Each answer carried certain marks and the percentile was calculated. The feedback percentile communicated to the respective faculty members along with their feedback levels to know their strengths and weaknesses.
- HOD submits faculty performance report to the College.

B. Its Implementation and Effectiveness:

- HOD speaks to the concerned faculty to appreciate or suggest necessary improvements in teaching.
- Staff members who get average feedback below 60% are identified.
- Those staff members are given orientation lectures and special inputs by the head of the department

AAILM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Faculty Progress Report for the month of February 2022

*Required

1. Name of the Faculty* Mr. M. AHSAN SHARIFF

2. Department* CSE

3. Faculty Paper Publication/Communication* (YES / NO)
(If yes submit the proof)

4. Number of Theory Classes conducted with Subject Name*
No classes

5. Syllabus Completion Status*
-

6. Names of the Student who have undergone internship
(Student Name with Phone Number)* File to be submitted: -

7. FDP/Workshop attended by the Faculty* (YES / NO) YES NO FDP
(If yes submit the proof) "Microsoft Azure Fundamentals" ①

8. Symposium/Workshop attended by the Student* (YES / NO)
(If yes submit the proof)

9. Fees Collected during the month Feb-2022* Rs. 13,500/-

Advised to prepare
Survey paper on SDN
Computer Science & Engineering
AAILM Muhammed Salegh
College of Engineering

Ahsan Shariff
14/02/2022
COLLEGE OF ENGINEERING

Figure 5.18 Faculty Progress Report – Asst. prof. Ahsan Shariff for the month of February 2022



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Muthapudupet, I.A.F Avadi, Chennai - 600 055
Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai



FACULTY MEMBER'S PERFORMANCE APPRAISAL FORM

(As per AICTE Gazette Notification dated 1st March 2019)

Name	Mn. Saravanan
Present Position	Assistant Professor
Department	Computer Science and Engineering
Academic Year	2019-2020

A. Teaching Process (Max Point 25)

S. No.	Semester	Course Code/ Name	No. of Scheduled Classes (S)	No. of actually held classes (H)	Points earned (H/S)*25	Enclosure No. (Attendance records)
1	8(A)/2019-2020	CSSE01-2019-2020 Psychiatry and Counselling	45	45	25	
2	8(B)/2019-2020	CSSE01-2019-2020 MCAP	45	45	25	
3	6(A)/2019-2020	CS8653-2019-2020 Database Management	45	45	25	
4	5/2019-2020	CS8991/2019-2020 Computer Systems	45	45	25	
Total					25	

B. Students' Feedback (Max Point 25)

S. No.	Semester	Course Code/ Name	Average Student feedback on the scale of 25	Enclosure No.
1	8(A)/2019-2020	CS8601	23.33	
2	8(B)/2019-2020	CS8601	23	
3	6(A)/2019-2020	CS8603	23.17	
4	5/2019-2020	CS8591	22.82	

4	ACR	Extraordinary
Average		

E. Contribution to Society (Max Credit 10)

S.No.	Semester	Activity	Credit Point	Criteria	Enclosure No.
1		Induction Program			
2		Unnat Bharat Abhiyan			
3		Yoga Classes			
4		Blood Donation			

SUMMARY

Summary	Maximum Points	Scored Points
A. Teaching Process	25	25
B. Students' feedback	25	23.08
C. Departmental Activities	20	12
D. Institute Activities	10	4
E. ACR	10	8
F. Contribution to Society	10	0
Total	100	72.08
Total on 10 Point scale	10	7.2

[Signature]
A. SARAVANAN

[Signature]
DY. N. A. SHANKER
HEAD
Computer Science & Engineering
Asst. Professor
College of Engin.

[Signature]
PRINCIPAL
SALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING

Figure 5.19 Performance Appraisal of Asst.Prof .A.Saravanan for the acedamic year 2019-2020

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

Total Marks 10.00

Table 5.9 Visiting / Adjunct / Emeritus Faculty Details

Academic Year	Details of Visiting Faculty	No. of hours	Topics Covered
2020-21	Mrs.Sulthana Begum	60 hours	Object Oriented Programming
2019-20	Mrs.Sulthana Begum	60 hours	Programming in C

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	COMPUTER CENTRE - 1	50	HP Desktop (Intel Core i5 @ 2666MHz), Open Source Software, LCD Projector, Printer, Fire Safety Appliances.	40 Hours	Mr. P.M. Tamilarasan	Lab Instructor	D.C.E.
2	COMPUTER CENTRE - 1	50	HP Desktop (Intel Core i5 @ 2666MHz), Open Source Software, LCD Projector, Printer, Fire Safety Appliances.	40 Hours	Ms. M. Bharathi	Lab Instructor	M.Sc.

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	Machine Learning	Weka and Python.	Feature based Classification, clustering and regression patterns	For implementation of projects in Artificial Intelligence.	Image Processing, Segmentation, Summarization, Sentimental Analysis	PO1, PO2, PO3, PO4, PO5, PO11, PO12, and PSO2.
2	Deep Learning	Deep neural networks using NumPy.	To give solutions in the field of computer vision, Natural Language Processing and Pattern Recognition	For complex learning problems	Automatic speech recognition. Image recognition. Visual art processing and Natural language Processing.	PO1, PO3 PO4, PO5, PO9, PO10, PO11, PO12 and PSO2
3	IOT	Arduino and Raspberry Pi. Arduino IDEs	Programming is embedded on the microcontrollers of latest Arduinos	For the automation of real time industry projects	Home automation, Smart city and Automated water plants.	PO1, PO2, PO3, PO4, PO5, PO11, PO12, and PSO1, PSO2.
4	Cloud Computing	VMware software, Evolving cloud computing platform provided by VMware.	Provides hands on exposure of cloud computing to the students.	For better carrier opportunities and the implementation of projects.	Cloud computing	PO1, PO2, PO3, PO4, PO5, PO11, PO12, and PSO2.

6.3 Laboratories: Maintenance and overall ambiance (10)

Total Marks 10.00

Table 6.1 Maintenance and Overall Ambiance

S.No	Name of the Item	Condition / Details
1	Internet Facility	Bandwidth 500 Mbps
2	Department Library	Program Specific Text Books and Reference Books
3	Digital Library	IEEE Xplore
4	Chairs	Good
5	Desks	Good
6	Air Circulation in Laboratory	Good
7	Lighting	Good
8	Maintenance of Computer Laboratory	Good
9	White Boards	Good
10	Projector	Good

Maintenance:

1. Lab technician checks the working condition of the equipment/systems on a every week and stock verification will be conducted at the end of every academic year.
2. Separate registers are kept for maintenance, utilization and cleaning of individual laboratories.
3. All necessary PC systems and regular software like Microsoft office, Browser, Lab Software, antivirus software etc, are installed and maintained.
4. Regular check up of equipment is carried out every week and stock verification will be conducted at the end of every academic year.
5. All Labs are provided with Intercom Telephone Facilities and Fire Extinguisher.
6. All the labs are equipped with good technical supporting staff available during working hours and beyond.
7. One teaching faculty and a lab instructor are incharge of the overall functioning and maintenance of each lab.
8. Any breakage or necessity of repair will be intimated to the lab incharge by the lab instructor on the same day of the event.
9. Faculty incharge submit the report to the head of the department and forward it to the principal for seeking external support and for information.
10. After principal's approval, the concerned external expert will perform the repair/service work.
11. Lab instructor enters the bill of charges in the relevant repair/maintenance stock register of the concerned laboratory.
12. Faculty incharge forwards the repair/service bill to the campus manager for the financial disbursement.

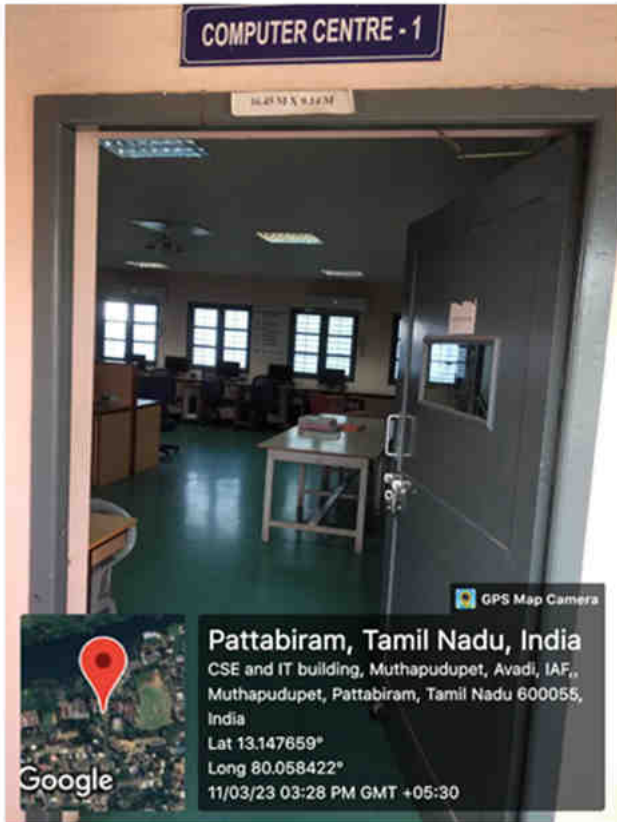


Figure 6.1 Computer Center - 1

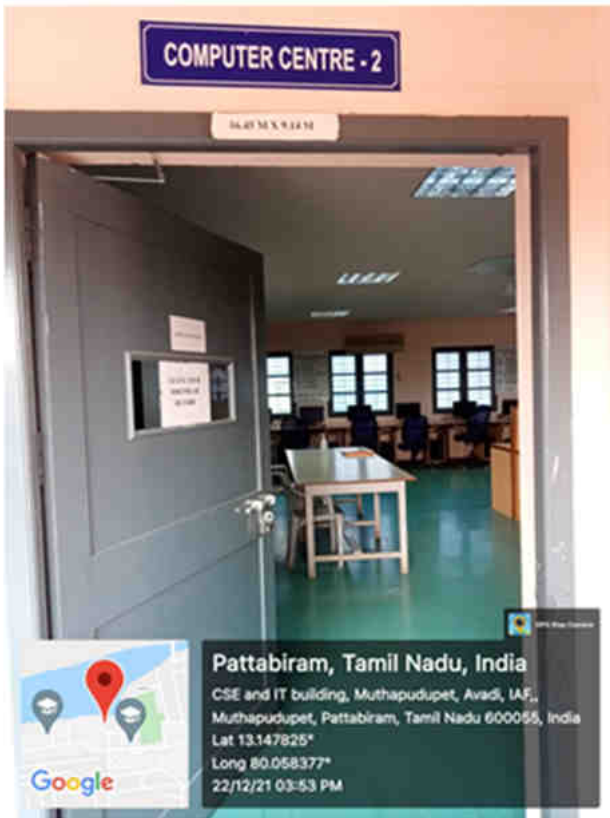


Figure 6.2 Computer Center - 2

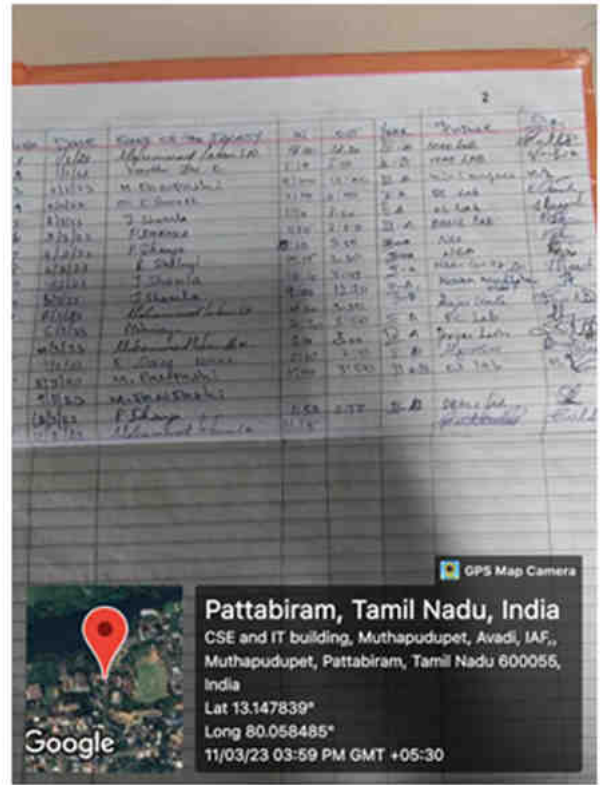


Figure 6.3 Faculty Entry Register



Figure 6.4 Students Login Register

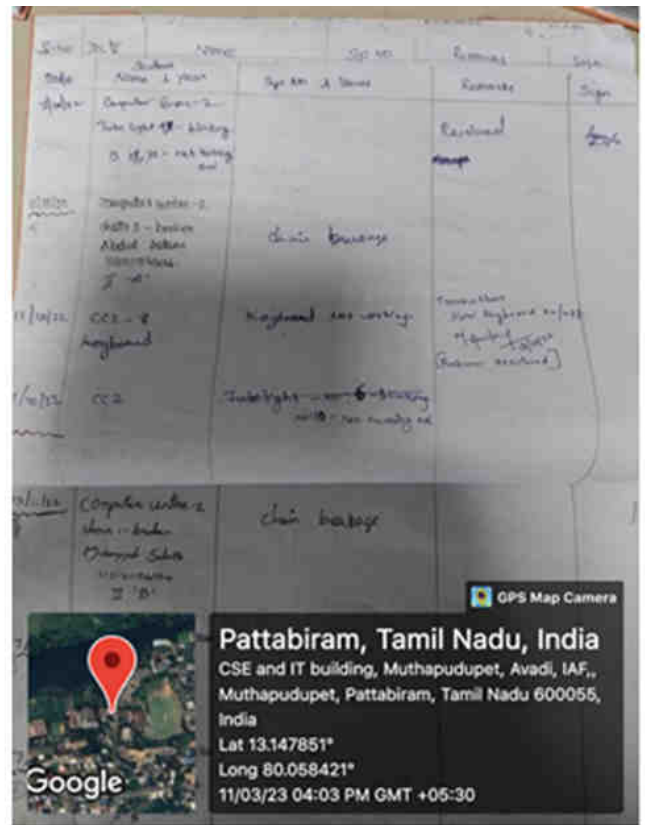


Figure 6.5 Students Complaint Register

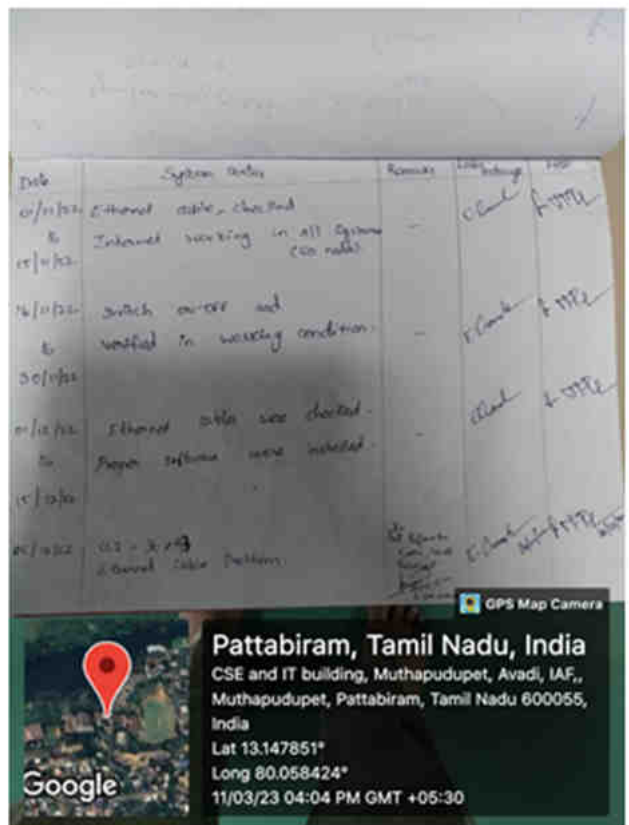


Figure 6.6 System Maintenance Log Register



Figure 6.7 Weekly Lab Cleaning Register

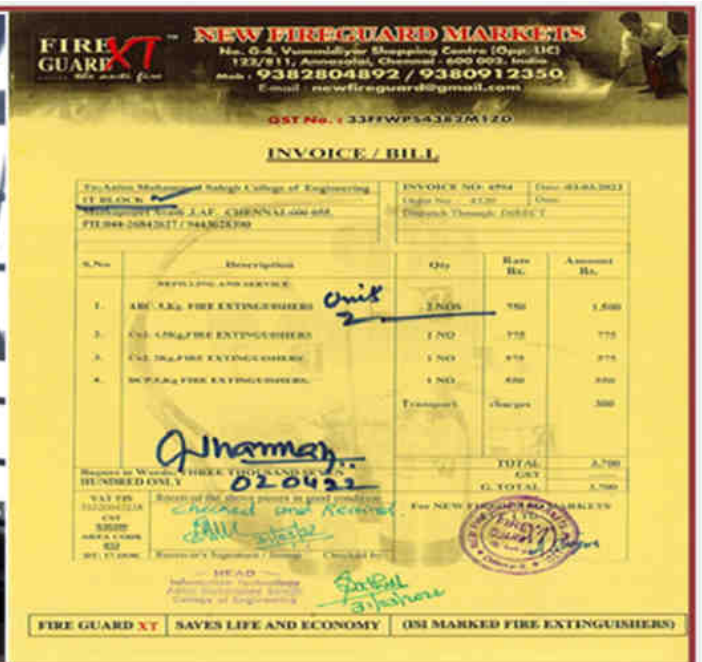


Figure 6.8 Fire Extingisher Maintenance Details

6.4 Project laboratories (5)

Total Marks 5.00

Table 6.2 Project Laboratories

S.No.	Name of the Facilities	Utilization	Utilization in Hours
1	Cognitive Radio	<ul style="list-style-type: none"> • Students • Research Scholars • Faculty Members 	30
2	Computer Vision: (Raspberry Pi, Python, open CV)		
3	Spatial Information Technology (Image Processing)		

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Computer Centre - 1	<p>1. In the laboratory, Green computing guidelines are displayed.</p> <p>2. Technical staff members are trained in fire and safety precautions.</p> <p>3. Functionality of workstation computers are checked on daily basis, monthly basis and semester wise.</p> <p>4. Workstation computers are protected with internet security software.</p> <p>5. Software firewall protection is enabled in the router.</p> <p>6. Separate user account is provided to each student to prevent installation of pirated software.</p> <p>7. VPI / VCI are enabled in the router.</p> <p>8. College domain mail ID is allowed to use as login credentials.</p> <p>9. Laboratories are periodically sanitized.</p> <p>10. Basic vulnerability posters are displayed in the laboratory.</p> <p>11. Near the computer laboratory Fire extinguisher and First aid box are installed.</p> <p>12. Proper earthing by providing ELCB's and sagging of data cables are taken care.</p>
2	Computer Centre - 2	<p>1. In the laboratory, Green computing guidelines are displayed.</p> <p>2. Technical staff members are trained in fire and safety precautions.</p> <p>3. Functionality of workstation computers are checked on daily basis, monthly basis and semester wise.</p> <p>4. Workstation computers are protected with internet security software.</p> <p>5. Software firewall protection is enabled in the router.</p> <p>6. Separate user account is provided to each student to prevent installation of pirated software.</p> <p>7. VPI / VCI are enabled in the router.</p> <p>8. College domain mail ID is allowed to use as login credentials.</p> <p>9. Laboratories are periodically sanitized.</p> <p>10. Basic vulnerability posters are displayed in the laboratory.</p> <p>11. Near the computer laboratory Fire extinguisher and First aid box are installed.</p> <p>12. Proper earthing by providing ELCB's and sagging of data cables are taken care.</p>

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	1.8	1.85	<ul style="list-style-type: none"> Target level has been achieved. Strong foundation of theoretical and practical knowledge of science and mathematics, which the students study during their entire programme, especially in their first year, but improvement in correlating the theoretical concepts with applications is required.
<p>Actions: • Bridge courses were conducted before the semester beginning for 1st year subjects. • Visit industries that are working in core areas of civil engineering. Understand the design & construction processes to boost the technical knowledge. This also helped to understand work ethics followed in industries. • We inspire students to participate in technical events, other events where their basic knowledge should convert to application matching with defined level of their standards. • Extra classes were conducted to improve fundamentals of engineering mathematics, science and engineering fundamentals for weak students.</p>			
PO 2 : Problem Analysis			
PO 2	1.8	1.58	<ul style="list-style-type: none"> Target level has not been achieved. The problem solving and analyzing skills gained through primarily, first and second year courses helps the students to apply the principles in real time applications and understand engineering science Exposure of the students to real world problems is less hence students are not able to visualize and relate to academic subjects. Research exposure to the students is less.
<p>Actions: • Students are encouraged to observe, their homes and surroundings to gain insight into real life engineering problems and think of possible approaches/solutions to these problems. • Incorporation of more numerical problems during their regular lectures. • Access to research journal in library for the students for reading journal papers for latest research</p>			
PO 3 : Design/development of Solutions			
PO 3	1.8	1.55	<ul style="list-style-type: none"> Target level has not been achieved. Projects developed by the student as course/ hobby projects/ major projects (final year) are considering the social and environmental issues. To train the students in innovative prototypes
<p>Actions : • Students are encouraged and motivated to take up project works that include and pertain to public health and safety, and the cultural, societal, and environmental considerations. • Guest lecturers were conducted for the Mathematical Foundation of Computer Science. • Students are inculcated the ability to 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, are included and continuously updated</p>			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.8	1.43	<ul style="list-style-type: none"> Target level has not been achieved. To extend the ability to analyze the problems through relevant software experimentally. Sometimes the studies do not end with valid conclusions. Courses required being included and syllabi updated to include and inculcate the analysis and research skills.
<p>Actions: • Academic workshops are coming into picture to apply more knowledge in terms of conduction of experiments and analysis of results at required level. • Research based Guest Lectures& Video lessons have been arranged.</p>			
PO 5 : Modern Tool Usage			
PO 5	1.8	1.37	<ul style="list-style-type: none"> Target level has not been achieved. It is observed that Up-gradations of tools and resources are necessary to meet the industry standards and research. Usage of additional software, the latest testing tool.
<p>Actions: • Demonstration of new concepts & techniques through software and IT tools. • Students are taught with modern modes and methods of teaching like using LCD Projectors and with interactive and real time lecture webcast/broadcast facilities.</p>			
PO 6 : The Engineer and Society			
PO 6	1.8	1.04	<ul style="list-style-type: none"> Target level has not been achieved. Investigation of problems faced by society needs to be addressed. The students are found to be less active as far as social activities were concerned; also they were unaware about the basic health and safety issues with engineering point of view.
<p>Actions: • To improve competitive skills, research advancements and group discussion, Mock Interview paper contests, Design contests, Project Exhibitions etc ., are being conducted intra and inter-department. • Encouraged students to take part in Swachh Bharat drives, Blood Donation Camps, Village visits, voluntary teaching and mentoring of downtrodden children. • Students are encouraged to teach students, from in and outside campus, especially children who are from economically weaker sections.</p>			
PO 7 : Environment and Sustainability			
PO 7	1.8	1.04	<ul style="list-style-type: none"> Target level has not been achieved Projects related to economic and environmental contexts were planned for the final year. The issues of global and environmental awareness among the student should be improved.
<p>Actions: • The activity like Tree Plantation has organized to encourage the students for understanding the responsibility towards environment. • Energy conservation is practised by the installation of LED Lamps and LED tube light and energy efficient fans. • Sustainable development and professional engineering solutions were conducted.</p>			
PO 8 : Ethics			

PO 8	1.8	0.98	<ul style="list-style-type: none"> Target level has not been achieved. The students are doing better in improving the overall expertise in field of engineering but due to less stress on communications and ethical/ moral knowledge, there is some lagging. Planned Expert lecture on professional ethics and managerial skills.
<p>Actions: • A skill development program on Soft Skills for Engineers is introduced in the curriculum. • Lectures and awareness/ motivational programmes are conducted. Career readiness program, corporate lectures and motivational talks are arranged to overcome the above observations. • To encourage students to Participation in Co-Curricular activities and Games and promote commitment to ethical principles and an understanding of sportsmanship and that participation is more important than winning</p>			
PO 9 : Individual and Team Work			
PO 9	1.8	1.29	<ul style="list-style-type: none"> Target level has not been achieved. The students seem ready for working both as individuals and in a team work Ability to co-ordinate and team management through conduction of projects is lagging
<p>Actions: • Projects pertaining to the latest problems were analyzed with frequent interactions with industrial experts and to distribute the work within the team towards its execution through academic projects. • The laboratory work of the students is conducted by framing student groups so that students learn to work in a team environment. • The final year project work is conducted by first making student groups in which students with different abilities are included. These groups are allotted to faculty members as per the area-preference given by the students. This helps students to learn to work with team members of different capabilities and background.</p>			
PO 10 : Communication			
PO 10	1.8	1.50	<ul style="list-style-type: none"> Target level has not been achieved. The communication, presentation and report writing skills are to be further improved among the students Ability to present and convey the latest engineering trends
<p>Actions: • Projects pertaining to the latest problems were analyzed with frequent interactions with industrial experts and to distribute the work within the team towards its execution of academic projects. • Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes • Students that are seen to be weak in communication skills are encouraged to undergo relevant courses and are also referred to language lab for improving their communication skills. • Regular instructions are communicated to the students about preparing project reports and making presentations.</p>			
PO 11 : Project Management and Finance			
PO 11	1.8	1.11	<ul style="list-style-type: none"> Target level has not been achieved. Planned expert lectures on topics related to project management & finance Few courses of curriculum give knowledge of Management principle and applying managerial principles to his/her work including financial implications and to manage the project in multidisciplinary environments.
<p>Actions: • Specially trained faculties from the Placement Department have been provided to improve students as team members in multidisciplinary environments. • The awareness is created among the student regarding the management principles and managing projects. The relevant courses are revised and upgraded regularly to cater to latest techniques and trends in the area.</p>			
PO 12 : Life-long Learning			
PO 12	1.8	1.36	<ul style="list-style-type: none"> Target level has not been achieved. Need to improve in the number of students clearing competitive examinations
<p>Actions: • To strengthen and to meet the advanced topics beyond syllabi. • The pre final year and final year courses of the program are demonstrating the resource for contemporary issues and lifelong learning. • Existence of chapters of professional bodies/ societies like ICT, PALS,ISTE etc and events under the banner of these societies gives students opportunity to have a life long learning. The students are encouraged to take membership of these societies. • The students are involved in the activities of alumni association and are encouraged to take membership of Association at the time of passing out. • Students are made to recognize the importance of life long learning through pep/ motivational talks and programmes. Using ICT facilities, such as PPTs, live demonstration of topics imparted using video lecture and real time webcast and lecture contents including new technological developmental tools and knowledge of new products, gives students and life long knowledge to be further improved upon.</p>			

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

PSOs	Target Level	Attainment Level	Observations
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PSO 1 : To analyse design and develop computing solutions by applying foundational concepts of Computer Science and Engineering

PSO 1	1.8	1.45	Target level has not been achieved. • Students are lagging in taking Advanced courses to design, develop and implement Computational solutions.
-------	-----	------	---

Actions: • Students are motivated to take up real-life problems during their project work to design, analyze and find a solution which gives exposure to the latest technologies. • Training programmes for use of softwares are conducted for students • Academic workshops and conferences are coming into picture to apply more knowledge in terms of conduction of experiments and analysis as required. • Project works are encouraged that involve the usage of technical resources such as software's towards for solving technical problems.

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

PSO 2	1.8	1.40	Target level has not been achieved. • Students lag to work in a team, No effective communication with both internal and external stack holders to become innovators & business problem solving professionals.
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Actions: • Project works involving technical resources such as software for solving Scientific & Business application problems are encouraged. • Project works are encouraged that involve the usage of modern tools and techniques of Data Collection/ Surveying/ Analysis/ Planning.

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

Total Marks 10.00

Institute Marks : 10.00

The academic audit is held by Academic Auditor every Academic year based on a questionnaire which intends to monitor and enhance the quality of technical education for both teaching faculty and students. This report gives the overall view of the Academic related information and activities carried out during the academic year.

Faculty audit

- The following records of the faculty members are verified during the internal academic audits.
- Calendar of events
- Competency skills
- Individual timetable
- Work load
- Class list
- Lab batch list, lab records
- Lesson plan
- Attendance register
- Model question papers / previous university question papers
- Assignment questions
- Quizquestion papers
- Result analysis
- CAPA (Internal Assessment and external examination)
- Tutorial student list (Coaching class list)
- Lesson plan tutorials
- Attendance (coaching class)
- Additional resources for students (notes, ppt, etc.)

In addition, the following parameters are audited for each department.

Laboratory Audit

- Ensuring appropriate test procedures, equipment, controls, and calibration methods are established.
- Procuring test samples in an efficient and timely manner
- Producing accurate laboratory test results

Based on the review by Academic Auditor, the review comments will be given, and the action taken report by the department will be submitted to IQAC.

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

Total Marks 10.00

Table 7.1 Students Placed & Highest Packages data

Academic Year	Eligible Students	No. of Students Placed	Highest Packages
2021-2022	56	39	4,12,823
2020-2021	51	23	4,65,116
2019-2020	60	34	4,01,986

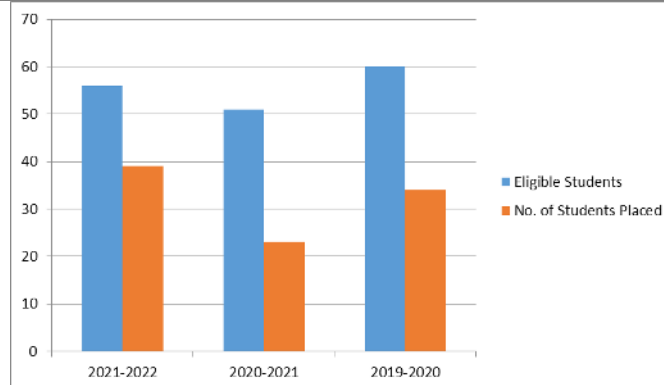


Figure 7.1 Eligible students Vs Placed Students

Table 7.2 Students Placed & higher Studies data

Academic Year	Eligible Students	No. of Students Placed	No. of students went for higher Studies
2021-2022	56	39	Nil
2020-2021	51	23	5
2019-2020	60	34	4

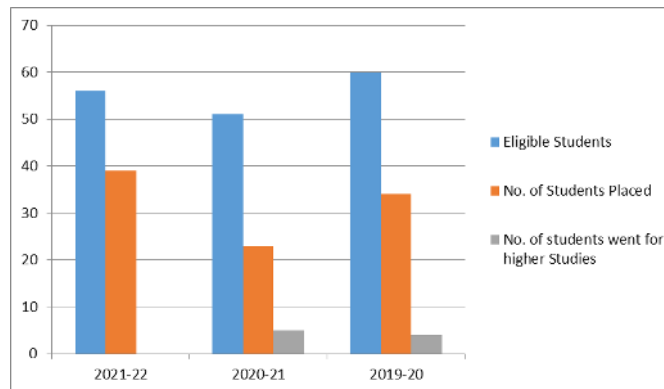


Figure 7.2 Students Placed & Students Joined higher Studies

Table 7.3 Placement data for (2021-22)

S.No	No. of Students Placed	Name of Company
1	4	M/s. TATA CONSULTANCY SERVICES
2	4	M/s. MPHASIS
3	7	M/s. WIPRO LTD
4	3	M/s. CSS CORP
5	5	M/s. AVASOFT
6	11	M/s. SUTHERLAND GLOBAL SERVICES
7	2	M/s. INFOSYS LTD
8	3	M/s. NTT DATA
9	1	M/s. CAPEGEMI

10	1	M/s. HEXAWARE TECHNOLOGIES
11	2	M/s. TATA ELXI
12	3	CREATIVE TECHNOLOGIES
13	2	M.s IFELSE TECH SMART SOLUTIONS PVT
14	1	CATERPILLAR
15	1	ROBERT BOSCH
16	1	M/s. MARI APPS
17	1	VINTEK SOLUTIONS
18	8	M/s. QSPIDER
19	1	M/s FULL CREATIVE
20	1	M/s. GLENWOOD SYSTEMS LLC
21	1	M/s. PROZUS
22	1	M/s. iOPEX TECHNOLOGIES
23	1	M/s. SPERIDIAN TECHNOLOGIES PRIVATE LTD
24	3	M/s. MSC TECHNOLOGY
25	1	M/s. DEDALUS
26	1	M/s. iTrend Solutions

Table 7.4 Placement Details for (2021–22)

PLACEMENT DETAILS - 2022			
S.No	Register Number	Name	Company Name
1	110118104001	ABDUL AZEEZ A	Bosch
2	110118104002	ABDUL BASITH M A	M/s. MARI APPS
3	110118104003	ABDUL HAMEED	MT
4	110118104004	ABDUL KALAM M	VINTEK SOLUTIONS
5	110118104005	ABDUL NAWAZ HAMDHAN T	M/s. TATA CONSULTANCY SERVICES M/s. MPHASIS M/s. INFOSYS LTD
6	110118104006	ABDUL THAWAF A	M/s. SUTHERLAND GLOBAL SERVICES M/s. QSPIDER
7	110118104007	ABDUL VAQEEL K	M/s. QSPIDER M/s. SUTHERLAND GLOBAL SERVICES
8	110118104009	AFROZE FATHIMA M S	M/s FULL CREATIVE
9	110118104011	AREEB HAMMAD N	M/s. WIPRO LTD
10	110118104012	ARULBALAJI S	M/s. CSS CORP M/s. SUTHERLAND GLOBAL SERVICES M/s. QSPIDER M/s. HEXAWARE TECHNOLOGIES
11	110118104013	ASMATH HAZEENA A	M/s. MPHASIS
12	110118104014	ATHIQ ALI N	M/s. TATA CONSULTANCY SERVICES

13	110118104015	ATHIQUR RAHMAN H	M/s. CSS CORP M/s. AVASOFT
14	110118104016	DIVYA LAKSHMI V	M/s. WIPRO LTD
15	110118104017	FAIZAN HAMID P K	M.s IFELSE TECH SMART SOLUTIONS PVT
16	110118104018	GANESH R	CREATIVE TECHNOLOGIES
17	110118104021	HIMAYUN J	M/s. SUTHERLAND GLOBAL SERVICES
18	110118104022	IRSHAD KHAN A	M/s. TATA CONSULTANCY SERVICES
19	110118104024	KALANDHAR FASIL KK	M/s. TATA ELXI
20	110118104026	MOHAMED ABRAR M	M/s. SUTHERLAND GLOBAL SERVICES
21	110118104030	MOHAMMED ISTHIYAAQ A R	CREATIVE TECHNOLOGIES
22	110118104034	MOHAMED WAJITH I	M/s. GLENWOOD SYSTEMS LLC
23	110118104035	MOHAMMAD RAFI M	M/s. AVASOFT
24	110118104036	MOHAMMED ADNAN A	M/s. SUTHERLAND GLOBAL SERVICES M/s. PROZUS
25	110118104037	MOHAMMED JAFFER SATHIQ AS	M/s. iOPEX TECHNOLOGIES M/s. SPERIDIAN TECHNOLOGIES PRIVATE LTD
26	110118104038	MOHAMMED SHUJATH K	M/s. MSC TECHNOLOGY
27	110118104039	MOHAMMED ZAYD M	M/s. SUTHERLAND GLOBAL SERVICES
28	110118104040	MOHD AZAM	M/s. TATA CONSULTANCY SERVICES M/s. MPHASIS M/s. WIPRO LTD
29	110118104041	MYDEEN IJAS VM	M/s. WIPRO LTD M/s. NTT DATA
30	110118104042	NOOR MOHAMED V S	M/s. QSPIDER
31	110118104043	PRIYADHARSHINI R	M/s. SUTHERLAND GLOBAL SERVICES M/s. QSPIDER M/s. MSC TECHNOLOGY
32	110118104044	RAISAL HIND J	M/s. AVASOFT M/s. NTT DATA M/s. QSPIDER M/s. INFOSYS LTD Dedalus
33	110118104046	RUBESH S	M/s. NTT DATA
34	110118104047	SAHANA PARVEEN N	M/s. SUTHERLAND GLOBAL SERVICES
35	110118104050	SAMEER AADEIL U S	M/s. MSC TECHNOLOGY M/s. SUTHERLAND GLOBAL SERVICES M/s. QSPIDER

36	110118104051	SATHISWARRI M	Caterpillar
37	110118104054	SHAZIYA BEGUM D	M/s. WIPRO LTD M/s. TATA ELXI
38	110118104058	SYED ABU ANWAR N	M/s. CSS CORP
39	110118104059	SYED AQUIB SIDDIQ	M.s IFELSE TECH SMART SOLUTIONS PVT
40	110118104061	THENDRAL G	M/s. AVASOFT M/s. SUTHERLAND GLOBAL SERVICES M/s. QSPIDER
41	110118104062	UMAR ALI AHAMED K M	M/s. MPHASIS M/s. CAPEGEMI
42	110118104063	YASAR ARAFATH A	M/s. WIPRO LTD M/s. iTrend Solutions
43	110118104701	AFRAH FATHIMA S	M/s. WIPRO LTD
44	110118104703	ANEEQUR RAHMAN C	M/s. AVASOFT
45	110118104704	SUBHASHINI S	CREATIVE TECHNOLOGIES



*** Personal and Confidential ***
Mr. Abdul Azeez A
 AMSCE, Thiruvallur,
 Candidate ID : T201967

Bosch Global Software Technologies
 Phase 1, Block 1, 123 Industrial Layout,
 Near Road, Karamangala, Bangalore -
 560 090, India. Tel: +91 80 8827 2727
 Fax: +91 80 8827 1424 Cdn
 U72200KA1987F11322194
 www.bosch-softwaretechnologies.com

Our reference: TN/67122/2022

Date: 01-Sep-2022

Dear **Mr. Abdul Azeez A,**

This has reference to your application and the subsequent interviews you had with us. We are pleased to appoint you as **'Associate Software Engineer'** at BGSW in **'Level 50'** as detailed below.

1. Compensation

- a. Your annual CTC (Cost to Company) will be **Rs. 5,00,000/-** (Rupees **Five Lakhs** only) per annum. In addition you will be entitled to benefits as detailed below, **Annexure I**.
- b. Please refer to **Annexure I** to know more details about your compensation package.
- c. The variable portion of your compensation shall depend upon achievement of company goals. This amount is paid as per section 31-A of the Bonus Act in lieu of profit sharing bonus, if applicable to you.

Your remuneration is strictly confidential between you and the Company and has been arrived on the basis of your specific background and professional merit. You are obliged to maintain absolute secrecy of the terms and conditions, failure to do so will invite disciplinary action and may even result in termination of your services.

2. Retirement

You will retire from the services of the company on attaining the age of retirement. The retirement age is 58 years with an option to retire at 55 years, basis mutual discussion and agreement subject to company retirement policy.

Registered office: Robert Bosch Engineering and Business Solutions Private Limited, 123, Industrial Layout, Phase 1, Block 1, Karamangala, Bangalore - 560090, India.
 Managing Director: Mr. Datta Satejane
 © Robert Bosch Engineering and Business Solutions Private Limited reserves all rights even in the event of industrial property. We reserve all rights of deposit such as copying and passing on to third parties.

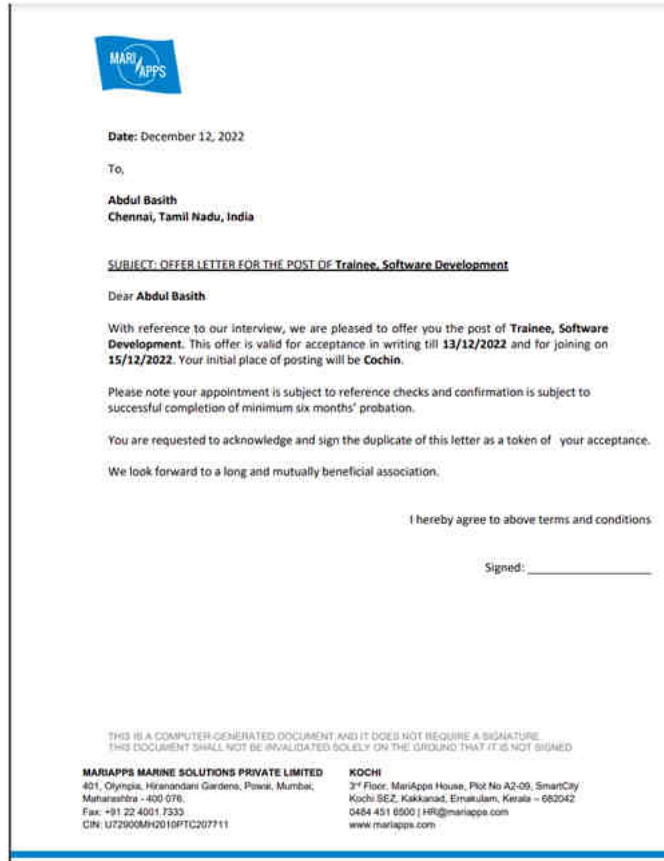


Figure 7.3 Sample appointment orders from Placement (2021–22)

Table 7.5 Placement data for (2020-21)

S.No	No. of Students Placed	Name of Company
1	1	M/s. COGNIZANT TECHNOLOGY SOLUTIONS
2	2	M/s. TATA CONSULTANCY SERVICES
3	2	M/s. INFOSYS LTD
4	7	M/s. SUTHERLAND GLOBAL SERVICES
5	1	M/S. Wipro
6	1	M/s. GLENWOOD SYSTEMS
7	1	M/s. INTELIZIGN
8	2	M/s. AVASOFT
9	6	M/s. Q Spider
10	1	ALPHA DATA
11	1	M/S. Hexaware
12	1	M/S. HCL Technologies
13	6	TVS
14	2	M/s. Mc AMDOIS TECH SOLUTIONS PVT LTD
15	1	M/S. Exnovations digital services LLP
16	1	AziwaInfosystems
17	1	M/S. Sabeel Technologies
18	1	IMSI STAFFING Pvt Ltd
19	1	M/S. L-Cube Innovative Solutions
20	1	M/S. Enterprise Minds
21	1	M/S. SITEL India Private Limited

22	1	Gislen Software
23	1	M/S. Fis Global Business Solutions India (P) Ltd
24	1	M/S. Sconce Solutions (India) Pvt. Ltd
25	1	Accesshealthcare
26	1	M/S. Credopay

Table 7.6 Placement Details for 2020 – 21

PLACEMENT DETAILS - 2021			
S.No	Register Number	Name	Company Name
1	110117104003	AfreenFathima A	M/S. McAmdois Tech Solutions Pvt Ltd M/S. Q Spider
2	110117104004	AhamedRiyaz	M/S. Q Spider ALPHA DATA
3	110117104006	Akif Abdul Azeem	M/S. Hexaware
4	110117104007	Ali Askar	M/S. Q Spider
5	110117104008	AmjathAshifa M	M/S. Sutherland Global services
6	110117104009	Cader Sahib Rimas M.Z	M/S. HCL Technologies
7	110117104010	Chokkapu Ganesh	TVS
8	110117104011	Divya M	M/S. Sutherland Global services
9	110117104014	Hasan Abdul Kadar	M/S. Wipro
10	110117104021	Mir Mudassir Ali	M/S. Q Spider M/S. Exnovations digital services LLP
11	110117104023	Mohammed Ej^lal A	AziwaInfosystems
12	110117104024	Mohammed Harish	M/S. Sabeel Technologies
13	110117104025	Mohamed Imran M	IMSI STAFFING Pvt Ltd
14	110117104026	Mohamed Junaid M	TVS
15	110117104027	Mohamed Matheen S	M/S. Sutherland Global Services
16	110117104031	Mohamed Thanveer M	M/S. L-Cube Innovative Solutions M/S. Sutherland Global Services M/S. AVASOFT
17	110117104032	Mohamed Yameen Z	TVS
18	110117104034	Mohammed Falil	M/S. Enterprise Minds
19	110117104037	Mohammed Mustafa Afrudeen S	M/S. SITEL India Private Limited
20	110117104039	Mohammed Thahseen N	Gislen Software
21	110117104043	Muzaffar	INTELIZIGN
22	110117104045	Noor E Arshiya C	TVS
23	110117104046	Noor Muhammed M G	M/S. Fis Global Business Solutions India (P) Ltd M/S. Infosys Ltd M/S. Glenwood Systems M/S. Sutherland Global Services M/S. Q Spider
24	110117104047	RasikaMankar	M/S. Sutherland Global Services

25	110117104049	Riyaz Ali F	M/S. Cognizant M/S. Tata Consultancy Services
26	110117104050	Safinsiraj A	TVS
27	110117104051	SamraFathima S	M/S. Q Spider
28	110117104052	Sandhya G	M/S. Sconce Solutions (India) Pvt. Ltd
29	110117104053	Sandhya V	M/S. Sutherland Global Services
30	110117104055	Sirishma N	M/S. AVASOFT M/S. McAmdois Tech Solutions Pvt Ltd
31	110117104056	Suman Raj	M/S. Tata Consultancy Services
32	110117104057	Swathi N	Infosys
33	110117104059	TajamulArafath V P	TVS
34	110117104502	Mohammed Nadhim S	Accesshealthcare
35	110117104701	FakihaRubab.S	M/S. Credopay

HCL TECHNOLOGIES LTD.
 Incorporation Number: U74400, 1997 (2005-06)
 Technology Park, Sector 25, Gurgaon, Haryana
 Pin No.: 122, Sector 125, Gurgaon, 201 204, Haryana
 T +91 124 9100000 F +91 124 4400000
 Registered Office: 404, 4th Floor, 36, Nehru Place, New Delhi-110019, India
www.hcltech.com

OFFER & APPOINTMENT LETTER

Offer Release Date: December 31, 2021

Dear Cader **Sahib Rimas M.Z.**,
 Chennai,
 Chennai, Chennai,
 Tamil Nadu, India, 600018

Dear Cader **Sahib Rimas M.Z.**,

Congratulations! With reference to the interviews conducted by **HCL Technologies Ltd.-IOMC ("HCL" or "Company")**, we are pleased to inform you that you have been selected for employment in our organization as **Graduate Engineer Trainee in band E1**.

This position is a great match for your talent and skills, and that you will enjoy the professional challenges and growth opportunities associated with this role.

You are requested to join us on **January 6, 2022** at **9:00 A.M** at the following address, **Chennai-AMB-6, Amb. Ind. Est.,MTH Rd,ODC**. Your joining would be subject to successful completion and compliance with the pre-joining requirements as applicable.

We at HCL believe in our colleagues showing flexibility and willingness to be deployed and rotated across the various locations, geographies and subsidiaries including our Infrastructure and BPO divisions, HCL Axon etc. In line with the same approach, we look forward to your being flexible towards your placement in the company. Your growth in this organization will be in line with your capabilities.

Your Terms and Conditions of employment are detailed in this offer and appointment letter and appended annexure(s).

Your Total Compensation will be **INR 2,75,000 per annum** outlined in **Annexure I**.

You will be on probation for a period of **12 months** from the date of your joining. The general terms and conditions governing your employment are outlined in **Annexure II**.

You will be required to sign a service agreement along with a surety amount of **INR 1.25 Lakhs** in terms of which you also bind yourself to serve the company for a period of at least **24 months** from the date of joining. The terms and conditions of such Service agreement shall also be deemed to form part of your contract of employment with the Company.

On the date of joining, you would be required to submit the documents listed in **Annexure III**. Please note that the submission of all listed documents is essential for the validity of your appointment in the Company.

Annexure IV provides details on the various compensation components and selected benefits that we offer you as a part of the HCL family.

Signature of Employee:





Offer: Computer Consultancy
Ref: TCSL/DT20222048595/Trivandrum
Date: 04/04/2022

Mr. Suman Raj
 5/34 S.S.Dhandaapani Nagar Semmandalam,
 Master Bakery,
 Cuddalore-607001,
 Tamil Nadu.
 Tell# -

Dear Suman Raj,

Sub: Letter of Offer

Thank you for exploring career opportunities with TATA Consultancy Services Limited (TCSL). You have successfully completed our initial selection process and we are pleased to make you an offer.

This offer is based on your profile and performance in the selection process. You have been selected for the position of **Assistant System Engineer-Trainee** in Grade Y. You will be a part of the application development and maintenance projects across any of the business units of TCSL.

Your gross salary including all benefits will be **₹3,36,877/-** per annum, as per the terms and conditions set out herein.

Kindly confirm your acceptance of this offer online through the option 'Accept Offer letter'. If not accepted within 7 Days, it will be construed that you are not interested in this employment and this offer will be automatically withdrawn.

After you accept this offer, you will be given a joining letter indicating the details of your joining date and initial place of posting. The Joining letter will be issued to you only upon successful completion of your academic course, you meeting the TCS eligibility criteria & you completing the mandatory pre-joining learning curriculum named TCS Xplora/ TCS Xperience (detailed under Terms & Conditions). You will also be issued a letter of appointment at the time of your joining after completing joining formalities as per company policy. Your offer is subject to a positive background check.

TCS Confidential
 TCSL/DT20222048595

TATA CONSULTANCY SERVICES
 Tata Consultancy Services Limited
 Vimala Building 10th Floor, Infopark, Kotturamakkal P.O., Bangalore-560 075 India
 Tel: 080 664 5000 Fax: 080 664 5255 Website: www.tcs.com
 Registered Office: National Building, 9th Floor, Raffles Place, Marina Bay Sands, Singapore 050 021
 TCS Careers Service Center: 1800 206 3111 Email: careers@tcs.com

Figure 7.4 Sample appointment orders from Placement (2020–21)

Table 7.7 Higher Studies Details 2020-21

S.No	Register Number	Name	Institute Name
1	110117104005	Ahmed Sufyan M	MGR Educational & Research Institute
2	110117104013	Haroon S B	Anglia Ruskin University
3	110117104035	Mohammed Juffri	Ulster University
4	110117104042	MuhammedNoorulAmeen	Kumaraguru College of Technology
5	110117104060	VelprasanthPurusothaman	Sheffield Hallam University



Your interim Student ID number is UC241721

Mr Haroon Syed Buhari
 23/12 Ground Floor Thacker street,
 purasawaikam, Chennai
 Tamil Nadu, 600054

Date : 07/05/2022

OFFER IN PRINCIPLE LETTER

Dear Haroon

Congratulations! You have been made an Offer in Principle for entry to the course below.

Please check these details carefully and let us know if any of the information set out below is incorrect.

Award title: Master of Science (MSc)
 Course title: International Business MSc
 Campus: Cambridge
 Campus Address: Anglia Ruskin University, East Road, Cambridge, Cambridgeshire, CB1 1PT
 Study mode: Full-time
 Course start date: 8 September 2022
 Course end date: 29 September 2023
 Course point of entry: Year 1
 Tuition fee for your first year of study: 14300.00
 Total scholarship awarded: Upto 2000 GBP

What is an offer in principle?

An offer in principle is an initial offer, letting you know that based on the information you've supplied, we think you're eligible to study with us. Please note that this is not a formal offer of admission, and your formal offer may have additional conditions attached.



DIRECTORATE OF TECHNICAL EDUCATION, CHENNAI - 600 025
and
DIRECTORATE OF COLLEGIATE EDUCATION, CHENNAI - 600 006
TAMIL NADU MBA ADMISSION 2021
PROVISIONAL ALLOTMENT ORDER FOR MBA COURSES*

Ref.No.TN/MBA/GCT/ALLOT/2021

Date: 14/10/2021

The under mentioned candidate is informed that he/she has been PROVISIONALLY allotted for admission to the First Year of the following Degree course and College of study as detailed below as per his/her option.

Application No	: 1202113850
TANCET 2021 Reg.No	: 12111192
Admission No.	: 2021/2712/MBA/10042
Name of the candidate	: MUHAMED NOORUL AMEEN M R
Community	: BCM
Course & Category	: MBA - Non-Minority
College Allotted	:
	: 2712-Kumaraguru College of Technology (AUTONOMOUS), Chinnavedampatti Post, Coimbatore District 641006
Quota	: BCM

The candidate should report to the Principal/Dean/Director of the above college allotted with original documents mentioned overleaf on or before **30.10.2021**

The candidate and his/her parent/guardian should give an undertaking document at the time of admission stating that the candidate will produce the consolidated mark sheet of all the semesters from the competent authority, or the provisional certificate or the degree certificate from the university studied, before the commencement of first assessment test scheduled for the MBA (1st Semester) Classes. If the candidate fails to produce the documents as stated above for verification by the competent authority, the admission will get cancelled.

The candidate who do not report for admission to the college on or before the stipulated date will lose the seat and cannot claim the seat afterwards.

P. Thiruv
Secretary
Tamil Nadu MBA Admission 2021

Please read the instructions given overleaf carefully.



TAMIL NADU MBA ADMISSION 2021
ADMISSION TO MBA DEGREE COURSE
ACKNOWLEDGEMENT FOR THE RECEIPT OF PAYMENT**

Transaction Id	: f618dd35-e5a0-413c-8f8b-d420d6f9376a	Transaction Date	: 09/10/2021
Received	: Rs. 5000	Application No	: 1202113850
From Selvar/Selvi	: MUHAMED NOORUL AMEEN M R.	TANCET 2021 Reg.No	: 12111192

Towards initial payment which will be adjusted with the tuition fees at the time of admission in ...
2712-Kumaraguru College of Technology (AUTONOMOUS), Chinnavedampatti Post, Coimbatore District 641006
in the first year MBA Degree Course during 2021-2022 through online counselling.

P. Thiruv
Secretary
Tamil Nadu MBA Admission 2021

** This acknowledgement should be carefully preserved and handed over to the Principal of the college at the time of joining.

Figure 7.5 Higher Studies - Seat allocation orders (2020–21)

Table 7.8 Entrepreneurship Details 2020-21

S.No	Register Number	Name	Startup Name
1	110117104038	Mohammed Rafeeq	CAFE BUX

Table 7.9 Placement data for (2019-20)

S.No	No. of Students Placed	Name of Company
1	3	M/s. TATA CONSULTANCY SERVICES
2	1	M/s. COGNIZANT TECHNOLOGY SOLUTIONS
3	1	M/s. INFOSYS LIMITED
4	1	M/s. MISSING CONNECTZ TECHNOLOGY SOLUTIONS
5	5	M/s. QSPIDER
6	4	M/s. EBMS SOLUTIONS PVT LTD
7	2	M/s. GLENWOOD SYSTEMS (P) LTD
8	4	M/s. CSS CORP PVT LTD
9	1	M/s. MC AMDOIS TECH SOLUTIONS PVT LTD
10	27	M/s. SUTHERLAND GLOBAL SERVICES
11	1	Thecode
12	5	M/s Hoist Technologies
13	1	M/s. Corent Technology Pvt Ltd
14	1	Vizoroz Technologies

15	6	Tech4LYF Entrepreneurs
16	1	CORNERSTOHN SOLUTIONS
17	2	TVS
18	7	Chase Technologies
19	1	Customer Centria
20	1	Flex
21	1	CONTUS Tech
22	1	M/S. Tech Mahindra
23	1	M/S. Accenture
24	1	M/S. Buzzworks Business Services Pvt.Ltd
25	1	H5 Asia Pacific
26	1	ERICSSON

Table 7.10 Placement Details for 2019 – 20

PLACEMENT DETAILS - 2020			
S.No	Register Number	Name	Company Name
1	110116104002	Aayasha Khan	M/S. CSS Corp Pvt Ltd M/S. Sutherland Global Services
2	110116104003	Abdul Aathil A M	M/S. Qspider M/S. McAmdois Tech Solutions Pvt Ltd
3	110116104005	Abdul Kalam F	Thecode
4	110116104006	Abdul Rahim K	Hoist Technologies
5	110116104007	AdityaBanarjee	M/S. Sutherland Global Services
6	110116104009	Ahamed Abdullah S B	M/S. Sutherland Global Services M/S. Qspider
7	110116104010	Arsathkhan N	Corent Technology Pvt Ltd
8	110116104011	Arun K	Vizoroz Technologies
9	110116104014	Benisha B	TVS
10	110116104015	Daisy Vinoliya A	Chase Technologies
11	110116104017	Deepak D	Tech4LYF Entrepreneurs
12	110116104018	Dhanasree B	M/S. Sutherland Global Services
13	110116104019	FaizanulHaq Ansari	M/S. Glenwood Systems (P) Ltd M/S. Sutherland Global Services
14	110116104020	FarhathBathool .K.M	M/S. Sutherland Global Services
15	110116104021	Fathima H	M/S. Sutherland Global Services
16	110116104023	Gajalakshmi	Chase Technologies
17	110116104024	Gokulnath G A	M/S. Sutherland Global Services
18	110116104025	Hemavathy M	M/S. Sutherland Global Services
19	110116104026	Hirosha K P	TVS
20	110116104028	Jasmine Sulthana M	M/S. Qspider M/S. CSS Corp Pvt Ltd M/S. Sutherland Global Services
21	110116104029	KalandharMaideen M	Customer Centria
22	110116104030	KansulArif S	M/S. Tata Consultancy Services
23	110116104032	KhaleelMuhammed Ibrahim K	M/S. Qspider M/S. CSS Corp Pvt Ltd

24	110116104033	Kothar Ansari T K	Tech4LYF Entrepreneurs
25	110116104034	Mahalakshmi M	Flex
26	110116104035	MohdNadeemNoori	M/S. Sutherland Global Services M/S. Ebms Solutions Pvt Ltd M/S. MISSING CONNECTZ TECHNOLOGY SOLUTIONS PRIVATE LIMITED M/S. Qspider
27	110116104037	MohamadRazack	M/S. Sutherland Global Services
28	110116104038	Mohamed Abdul Kadhar M	Tech4LYF Entrepreneurs
29	110116104040	Mohammed Asif M	Chase Technologies
30	110116104041	Mohammed Faizal M	M/S. Tata Consultancy Services
31	110116104042	Mohammed Fazil S	Chase Technologies
32	110116104044	Mohammed Imran A	Hoist Technologies
33	110116104045	Mohammed Imran M	Tech4LYF Entrepreneurs
34	110116104046	Mohammed Jasim J	CORNERSTOHN SOLUTIONS
35	110116104047	Mohamed Rawan A	Chase Technologies
36	110116104048	Mohamed Rizwan M	CONTUS Tech
37	110116104050	Mohamed Umar Ali K	M/S. Tech Mahindra
38	110116104051	Mohamed Wajid N	M/S. Sutherland Global Services
39	110116104052	Mohammed Abrar Kareem A	M/S. Accenture
40	110116104053	Mohammed Ali G	M/S. Sutherland Global Services
41	110116104054	Mohammed Azarudheen	M/S. Ebms Solutions Pvt Ltd
42	110116104055	Mohammed Faheem R	M/S. CSS Corp Pvt Ltd M/S. Sutherland Global Services
43	110116104056	Mohammed FuzailRayyan	M/S. Sutherland Global Services
44	110116104059	Mohammed Sarjun S	M/S. Buzzworks Business Services Pvt.Ltd
45	110116104060	Mohammed Sharafath	M/S. Sutherland Global Services
46	110116104061	Mubina M	M/S. Sutherland Global Services
47	110116104064	Naushin S K	M/S. Infosys Limited M/S. Sutherland Global Services
48	110116104065	Naveen Kumar A	M/S. Sutherland Global Services
49	110116104066	Navin Kumar C S	Chase Technologies
50	110116104068	Nizar Ahmed M	Hoist Technologies
51	110116104069	NoorulRiyaz S	Tech4LYF Entrepreneurs
52	110116104071	Pasith Ahmed K	M/S. Sutherland Global Services
53	110116104072	Pon Naveen Pandian K	M/S. Sutherland Global Services
54	110116104073	Pooja S	M/S. Sutherland Global Services
55	110116104074	Poojalakshmi S	UNISYNC IT Services Pvt Ltd
56	110116104075	Praveen Kumar S	Tech4LYF Entrepreneurs
57	110116104076	RafathSarosh Khan	M/S. Sutherland Global Services
58	110116104078	RaziyaBegam S	M/S. Sutherland Global Services
59	110116104080	SamaTehreen	H5 Asia Pacific

60	110116104082	ShaikNoordeen I	Chase Technologies
61	110116104083	ShaikSoheb	M/S. Tata Consultancy Services M/S. Cognizant Technology Solutions M/S. Sutherland Global Services
62	110116104086	Sheik Mohamed Ibrahim T	M/S. Sutherland Global Services
63	110116104092	YasminKathija T	Hoist Technologies
64	110116104301	Aravindan M	ERICSSON
65	110116104302	Mohammed SajjadAnvar M	M/S. Glenwood Systems (P) Ltd
66	110116104303	Preethi M	Hoist Technologies



Offer: Computer Consultancy
Ref: TCSL/DT20184442438/Chennai
Date: 17/09/2019

Mr. Soheb Shaik
 2/863 Jawahar Hospital Backside, Chimakurthy,
 Jawahar Hospital,
 Ongole-523226,
 Andhra Pradesh.
 Tel# -

Dear Soheb Shaik,

Sub: Letter of Offer

Thank you for exploring career opportunities with TATA Consultancy Services Limited (TCSL). You have successfully completed our initial selection process and we are pleased to make you an offer.

This offer is based on your profile and performance in the selection process. You have been selected for the position of **Assistant System Engineer-Trainee** in Grade **Y**. You will be assigned a role in the **Cyber Security Practise (CSP)** Unit, which is subject to change as per the business requirements of TCSL.

Your gross salary including all benefits will be **₹3,36,875/-** per annum, as per the terms and conditions set out herein. Over and above this, you will also be eligible for Learning Incentives (Readiness Incentive and/or Competency Incentive) basis your performance in TCS Xplore Program which gives you an additional earning potential of upto **Rs.60,000** during the first year. Annexure-1 provides the break-up of the compensation package.

Kindly confirm your acceptance of this offer online through the option 'Accept Offer letter'. If not accepted within 7 Days, it will be construed that you are not interested in this employment and this offer will be automatically withdrawn.

After you accept this offer, you will be given a joining letter indicating the details of your joining date and initial place of posting. The Joining letter will be issued to you only upon successful completion of your academic course, you meeting the TCS eligibility criteria & you completing the mandatory pre-joining learning curriculum named TCS Xplore (detailed under Terms &

TCS Confidential
 TCSL/DT20184442438

TATA CONSULTANCY SERVICES

Tata Consultancy Services Limited
 #15/21-34, Kumargal Nigra, Sholinganallur, Old Mahabalipuram, Chennai 600 119 Tamil Nadu India
 Tel: 91 44 6616 2222 Fax: 91 44 6616 2555 Website: www.tcs.com
 Registered Office: Normal Building, 9th Floor, Nariman Point, Mumbai 400 021
 TCS Careers ServiceLine: 1800 204 3111 | Email: cs-careers@tcs.com



HRD/3T/1000867547/20-21

January 29, 2021

Ms. Naushin S K
675/4 82Nd Street
Muthamizh Nagar
Chennai-600118
India

Ph: +91-6382648575

Dear Naushin,

Welcome to Infosys!

Today, the corporate landscape is dynamic and the world ahead is full of possibilities! None of the amazing things we do at Infosys would be possible without an equally amazing culture, the environment where ideas can flourish and where you are empowered to move forward as far as your ideas will take you.

At Infosys, we assure that your career will never stand still, we will inspire you to build what's next and we will navigate further, together. Our journey of learnability, values and trusted relationships with our clients continue to be the cornerstones of our organization and these values are upheld only because of our people.

We look forward to working with you and wish you success in your career with us.

Warm regards,

RICHARD LOBO
EVP and Head Human Resources - Infosys Limited



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Electronics City, Hosur Road
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www.infosys.com

Company Confidential - This communication is confidential between you and Infosys Limited

Figure 7.6 Sample appointment orders from Placement (2019–20)
Table 7.11 Higher Studies Details 2019-20

S.No	Register Number	Name	Institute Name
1	110116104032	KhaleelMuhammed Ibrahim K	Vellore Institute of Technology
2	110116104035	MohdNadeemNoori	Mualana Azad National Urdu University
3	110116104078	RaziyaBegam S	Anna University
4	110116104081	ShafilaFathima S	Crescent Institute of Science & Technology

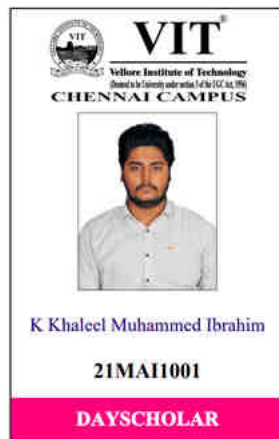


Figure 7.7 Higher Studies - Seat allocation orders (2020–21)

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

Total Marks 10.00

Institute 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
National Level Entrance Ex: TANCA	No of students admitted	110	108	64
	Opening Score/Rank	280	278	249
	Closing Score/Rank	132	181	125
Name of the Entrance Examination for Lateral Entry or lateral entry details TNLEA	No of students admitted	19	17	2
	Opening Score/Rank	87	92	65
	Closing Score/Rank	63	66	65
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		63	70	66

8 FIRST YEAR ACADEMICS (50)

Total Marks 47.40

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

Total Ma

Institute Marl

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 leave case Curr Assoc is 'N'
							CAY	CAYm1	CAYm2			
DR. K. SURES	BFNPS5956J	M.Sc. and PhD	28/08/2013	PHYSICS	Associate Professor	17/10/2008	100	100	100	Yes	Regular	
DR. M. ABILA I	BEOPA1499G	M.Sc. and PhD	28/12/2016	PHYSICS	Associate Professor	11/07/2022	100	0	0	Yes	Regular	
DR. A. MOHAM	ACKPI4307E	M.Sc. and PhD	16/05/2022	CHEMISTRY	Associate Professor	02/06/2014	100	100	100	Yes	Regular	
DR. T. TITUS €	AQIPT4100E	M.A and Ph.D	19/10/2005	TAMIL LITERATURE	Assistant Professor	25/08/2022	100	0	0	Yes	Regular	
DR. D. ZUNAI	ABCPZ6831B	ME/M. Tech and PhD	28/07/2022	CIVIL ENGINEERING	Assistant Professor	01/12/2020	100	100	100	Yes	Regular	
DR. A. MARIAI	ANSPM0427E	M.A and Ph.D	30/07/2009	LIBRARY SCIENCE	Assistant Professor	01/10/2000	100	100	100	Yes	Regular	
DR. A. SALEEI	BJWPS0377L	M.A and Ph.D	21/12/2017	LIBRARY AND INFORMATION SCIENCE	Assistant Professor	04/01/2018	100	100	100	Yes	Regular	
MR. K. SHAGL	FPPPS3603E	M.Phil	17/08/2013	CHEMISTRY	Assistant Professor	04/08/2014	100	100	100	Yes	Regular	
MS. K. JEEVA	AOFPJ3727A	M.Phil	30/04/2005	CHEMISTRY	Assistant Professor	08/02/2021	100	100	100	Yes	Regular	
MR. A. MOHAM	BAGPM7489E	M.Phil	06/04/1999	PHYSICS	Assistant Professor	04/08/2020	100	100	100	Yes	Regular	
MS. A. JUVIN I	BKZPJ3024M	M.Phil	30/08/2016	PHYSICS	Assistant Professor	16/08/2018	0	100	100	No	Regular	30/0
MS. D. BHAGY	BIVPB2278K	M.Phil	29/04/2017	PHYSICS	Assistant Professor	25/10/2017	0	0	100	No	Regular	03/0
MS. N.S. NAN	AOQPN9330N	M.Phil	30/09/2010	ENGLISH	Assistant Professor	01/07/2019	0	100	100	No	Regular	31/0
MS. R. SHAZA	NLDPS1047G	MA	28/04/2017	ENGLISH	Assistant Professor	05/08/2020	0	100	100	No	Regular	31/0
MS. C. ABHIN/	CWQPA6301N	M.Phil	24/06/2019	ENGLISH	Assistant Professor	04/08/2021	100	100	0	Yes	Regular	
MR. K. NISHAI	BIFPN1276B	MA	10/11/2020	ENGLISH	Assistant Professor	04/08/2021	100	100	0	Yes	Regular	
MS. SAJIDHA	OESPS0914H	MA	07/12/2021	ENGLISH	Assistant Professor	04/08/2021	100	100	0	Yes	Regular	
MS. S. GOPIK	BUZPG9923J	M.Phil	16/05/2022	ENGLISH	Assistant Professor	01/08/2022	100	0	0	Yes	Regular	
MS. BHUVANE	BDAPB4872P	M.Sc	30/04/2008	MATHEMATICS	Assistant Professor	03/11/2008	100	100	100	Yes	Regular	
MR. J. MOHAM	BQEPM1093E	M.Phil	28/09/2013	MATHEMATICS	Assistant Professor	04/08/2014	0	100	100	No	Regular	30/0
MR. P. VINAYA	ASUPV0992Q	M.Phil	31/08/2013	MATHEMATICS	Assistant Professor	04/08/2020	0	100	100	No	Regular	30/0
MR. V. SHYAM	CLFPS0744H	M.Phil	29/08/2014	MATHEMATICS	Assistant Professor	01/07/2019	100	100	100	Yes	Regular	
MS. P. CATHEI	CLPPP5741P	M.Phil	31/05/2014	MATHEMATICS	Assistant Professor	25/07/2022	100	0	0	Yes	Regular	
MS. G. GEETH	BBFPG0795K	M.Phil	29/08/2008	MATHEMATICS	Assistant Professor	05/08/2020	0	100	100	No	Regular	30/0
MS. K. KALAIS	GMVPK1677J	M.Phil	30/09/2011	MATHEMATICS	Assistant Professor	12/08/2022	100	0	0	Yes	Regular	
MS. B. POORN	COTPB4052C	M.Phil	30/08/2016	MATHEMATICS	Assistant Professor	01/08/2022	100	0	0	Yes	Regular	

MS. S. SYLVIA	GDUPS0022R	M.Phil	31/01/2012	MATHEMATICS	Assistant Professor	01/08/2022	100	0	0	Yes	Regular	
MR. K. FAYAZ	ACRPF2384D	M.Phil	30/08/2016	MATHEMATICS	Assistant Professor	22/11/2021	0	100	0	No	Regular	30/0
MS. M. DEEPA	CFOPM8365R	M.Phil	30/11/2012	MATHEMATICS	Assistant Professor	01/07/2019	0	0	100	Yes	Regular	
MR. S.F. SYEC	BPTPS1959H	M.E/M.Tech	30/06/2006	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	06/07/2009	0	100	100	No	Regular	30/0
MR. K. RAMEE	BCMPR4101A	M.E/M.Tech	30/06/2015	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	16/07/2018	100	100	100	Yes	Regular	
MS. S. SATHIY	DQLPS6937J	M.E/M.Tech	30/06/2015	COMPUTER SCIENCE ENGINEERING	Assistant Professor	03/08/2020	100	100	100	Yes	Regular	
MS. C.S. NANI	AXHPN1181F	M.E/M.Tech	30/06/2015	COMPUTER SCIENCE ENGINEERING	Assistant Professor	03/08/2020	100	100	100	Yes	Regular	
MS. K. VANITH	CVKPK7111B	M.E/M.Tech	30/06/2015	COMPUTER SCIENCE ENGINEERING	Assistant Professor	03/08/2020	100	100	100	Yes	Regular	
DR. A. MOHAN	AUKPM2342R	ME/M. Tech and PhD	08/12/2022	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	18/12/2003	100	100	100	Yes	Regular	
MR. A. SARAV.	CHUPS1689G	M.E/M.Tech	30/06/2012	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	23/07/2012	100	100	100	Yes	Regular	
MS. S. SARAN	EAWPS0754M	M.E/M.Tech	30/06/2014	CIVIL ENGINEERING	Assistant Professor	22/06/2015	0	100	100	No	Regular	10/0
MR. A. YUVAR	AKJPY0784A	M.E/M.Tech	30/06/2015	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	21/12/2017	0	100	100	No	Regular	31/0
MR. A. RAVIKL	AAHPR0158H	MBA	30/05/1985	MANAGEMENT STUDIES	Assistant Professor	14/02/2012	100	100	100	Yes	Regular	
MR. S. BABU	ALQPB4481P	MBA	31/01/2011	MANAGEMENT STUDIES	Assistant Professor	16/03/2016	100	100	100	Yes	Regular	
MR. IMTHATH	ABKPI9001J	MBA	30/04/2012	MANAGEMENT STUDIES	Assistant Professor	16/03/2016	100	100	100	Yes	Regular	
MS. MUBEEN/	ATLPM2402N	MA	30/04/1999	LIBRARY SCIENCE	Assistant Professor	05/01/2009	100	100	100	Yes	Regular	
MR. M.F. NAZI	AVGPN9253M	M.E/M.Tech	28/06/2013	CIVIL ENGINEERING	Assistant Professor	11/07/2016	100	100	100	Yes	Regular	
DR. K. CHANC	AGMPC7535J	ME/M. Tech and PhD	27/12/2013	ELECTRICAL AND ELECTRONICS ENGINEERING	Associate Professor	01/03/2013	100	100	100	Yes	Regular	
MS. R. MAHAL	DDRPM8583B	M.Phil	27/02/2015	PHYSICS	Assistant Professor	03/11/2022	100	0	0	Yes	Regular	
MR. J. MOHAN	ATEPJ0469P	M.E/M.Tech	30/06/2010	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	04/10/2010	100	100	100	Yes	Regular	
MR. T. BIBIN J	CKCPB4195F	MCA	30/06/2018	COMPUTER APPLICATIONS	Assistant Professor	02/07/2019	100	100	100	Yes	Regular	
MS. A. ASHMA	AVFPA0663F	M.Phil	25/03/2014	CHEMISTRY	Assistant Professor	02/07/2012	100	100	100	Yes	Regular	

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment= (5*20)/FYSFR(Limited to Max.5)
2020-21(CAYm2)	420	36	12	5.00
2021-22(CAYm1)	420	38	11	5.00
2022-23(CAY)	420	36	12	5.00
Average	0	0	0	0

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

Total Marks 4.33

Institute Marks : 4.33

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	4	24	21	4.00
2021-22	4	23	21	4.00
2022-23	8	22	21	5.00

Average Assessment: 4.33

8.3 First Year Academic Performance (10)

Total Marks 8.07

Institute Marks : 8.07

Academic Performance	2022-23	2021-22	2020-21
Mean of CGPA or mean percentage of all successful students(X)	7.88	8.41	7.91
Total Number of successful students(Y)	104.00	63.00	85.00
Total Number of students appeared in the examination(Z)	104.00	63.00	85.00
API [X*(Y/Z)]	7.88	8.41	7.91

Average API [(AP1+AP2+AP3)/3] : 8.07

Assessment [1.5 * Average API] : 8.07

8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00

Assessment process for course outcomes (COs) calculation:

In line with COs formulated by Affiliating University, COs are reframed for each course in the curriculum by the guidance of course coordinator. To calculate the attainment of COs, the data are gathered from the Internal Assessment Test and University semester Examinations.

Attainment level for Course Outcomes:

The attainment of CO of the First year Courses are recorded as per the following benchmark.

For Theory Subjects:**Evaluation of course attainment levels for Internal Assessment Tests and Affiliating University Examinations:**

1. If the course outcome attainment is $> 60\%$, the Attainment Level is 3.
2. If the course outcome attainment is between $> 50\%$ and $< 60\%$, the Attainment Level is 2.
3. If the course outcome attainment is $< 50\%$, the Attainment Level is 1.

For Laboratory Subjects:**Evaluation of course attainment levels for Internal Practical Examinations and University Practical Examinations:**

1. If the course outcome attainment is $> 60\%$, the Attainment Level is 3.
2. If the course outcome attainment is between $> 50\%$ and $< 60\%$, the Attainment Level is 2.
3. If the course outcome attainment is $< 50\%$, the Attainment Level is 1.

Course Code: C112.1.1		Subject Code and Name: BE3251-BASIC ELECTRICAL AND ELECTRONICS ENGINEERING FOR CSE STUDENTS												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	1										2	3
CO2	1	2	2	2	2		1				1	1	2	3
CO3	1	3	2	3	2	2						2	2	2
CO4	1	2	3	2	1							2	2	2
CO5	3	2	2	2	2							1	2	2
AVG	1.6	2.4	2	2.25	1.75	2	1	0	0	0	1	1.5	2	2.4
DA	1.40	2.09	1.74	1.96	1.53	1.74	0.87	0.00	0.00	0.00	0.87	1.31	1.74	2.09
IDA	1.32	1.98	1.65	1.85	1.44	1.65	0.82	0.00	0.00	0.00	0.82	1.24	1.65	1.98

At the end of the course the students will be able to

CORRELATION	CO1	CO2	CO3	CO4	CO5
0	NA	NA	NA	NA	NA
1	LOW	LOW	LOW	LOW	LOW
2	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM
3	HIGH	HIGH	HIGH	HIGH	HIGH

PSO1	Ability to design and program for system applications in engineering and non engineering fields as a team and as an individual using cutting edge technologies.
PSO2	Strong theoretical foundation leading to excellence and excitement towards research, to provide elegant solutions to complex problems.




 COURSE CO ORDINATOR
 HEAD/S&H
 PRINCIPAL
 AALIM MUHAMMED SALEGH
 COLLEGE OF ENGINEERING

Figure.8.4.2.1. A Sample of CO-PO Mapping of the subject Basic Electrical, Electronics Engineering for CSE Students

Table 8.4.2.1. List of Subjects with Course and Subject Codes for all First Year Courses

COURSE CODE NO.	SUBJECT CODE	SUBJECT NAME
SEMESTER - I		
C101.1	HS3151	PROFESSIONAL ENGLISH-I
C102.1	MA3151	MATRICES AND CALCULUS
C103.1	PH3151	ENGINEERING PHYSICS
C104.1	CY3151	ENGINEERING CHEMISTRY
C105.1	GE3151	PROBLEM SOLVING AND PYTHON PROGRAMMING
C106.1	BS3171	PHYSICS AND CHEMISTRY LABORATORY
C107.1	GE3171	PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY

SEMESTER - II		
C108.1.1	HS3251	PROFESSIONAL ENGLISH-II
C109.1.1	MA3251	STATISTICS AND NUMERICAL METHODS
C110.1.1	PH3256	PHYSICS FOR INFORMATION SCIENCE
C111.1.1	GE3251	ENGINEERING GRAPHICS
C112.1.1	BE3251	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING
C113.1.1	CS3251	PROGRAMMING IN C
C114.1.1	GE3271	ENGINEERING PRACTICES LABORATORY
C115.1.1	CS3271	PROGRAMMING IN C LABORATORY

Table.8.4.2.2.CO Attainment

Course Code No.	Attainment of Various COs					
	CO1	CO2	CO3	CO4	CO5	Final Attainment
1st Semester						
C101.1	2.88	2.88	2.89	2.89	2.87	2.88
C102.1	2.82	2.82	2.82	2.82	2.82	2.82
C103.1	2.63	2.61	2.60	2.59	2.61	2.61
C104.1	2.76	2.78	2.79	2.78	2.78	2.78
C105.1	2.86	2.84	2.85	2.84	2.86	2.85
C106.1	2.90	2.90	2.90	2.91	2.88	2.90
C107.1	2.89	2.89	2.91	2.89	2.89	2.89
2nd Semester						
C108.1.1	2.79	2.79	2.77	2.80	2.78	2.79
C109.1.1	2.49	2.48	2.48	2.48	2.49	2.48
C110.1.1	2.27	2.25	2.26	2.26	2.27	2.26
C111.1.1	2.76	2.76	2.76	2.75	2.77	2.76
C112.1.1	2.59	2.57	2.60	2.59	2.58	2.59
C113.1.1	2.49	2.46	2.47	2.48	2.48	2.48
C114.1.1	2.91	2.89	2.90	2.89	2.90	2.90
C115.1.1	2.92	2.89	2.91	2.89	2.90	2.90

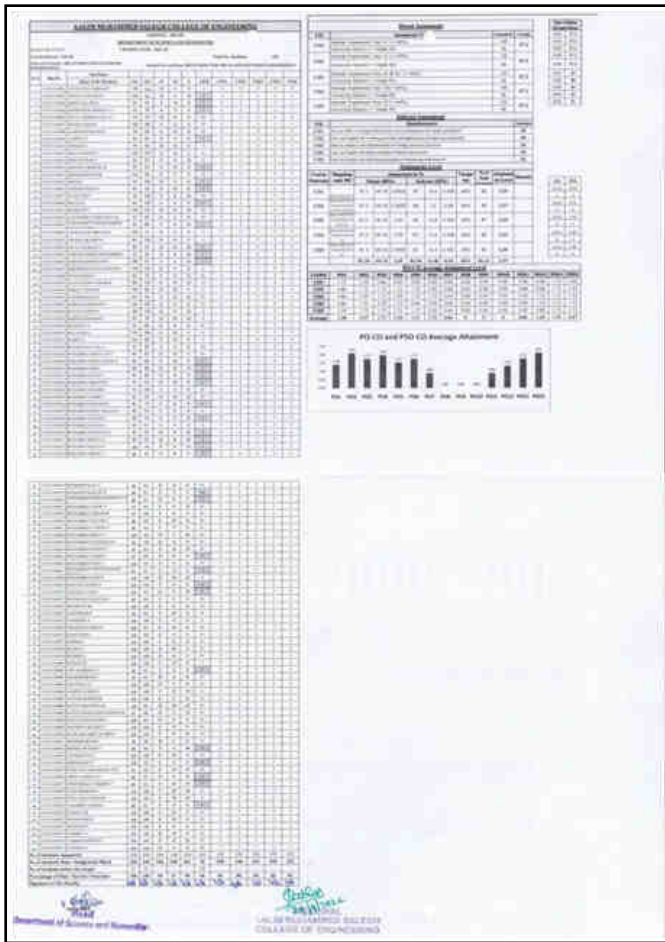


Figure.8.4.2.2. CO-PO Attainment sheet of the subject Basic Electrical and Electronics Engineering

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

A. LIST OF ASSESSMENT PROCESS

1. To assess the course outcomes, Direct assessment tools are used.
2. To evaluate the attainment of COs, the data are gathered from the following assessments.
 - (i) Student’s performance in the Internal Examinations.
 - (ii) Student’s performance in the Semester University Examination.

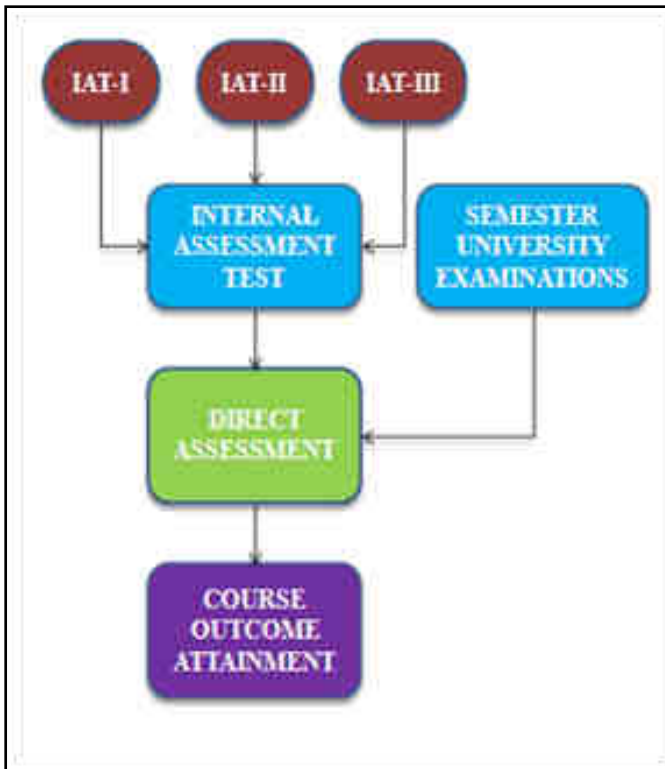


Figure.8.4.1.1. Process of CO attainment

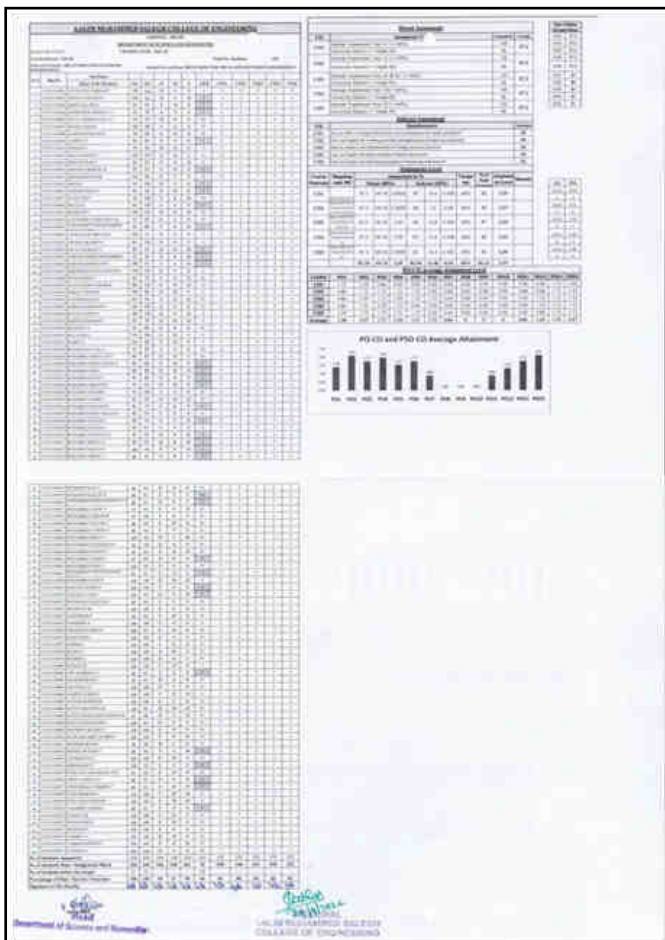


Figure.8.4.1.2. A sample for the Process of CO attainment

B. THE RELEVANCE OF ASSESSMENT TOOLS USED

Direct Assessment tools: The assessment tools for computing the course outcomes are explained below.

1. a . Internal Examinations (For Theory subjects): Internal Examinations are conducted as per the academic schedule framed by Affiliating University. The syllabus covered in the internal exams compatible to Regulations 2017 and 2021 of Affiliating University is appended below:

For Regulations-2017:

Table.8.4.1.1. Syllabus covered for Internal Assessment Examinations

Test	Syllabus Completed	Overall Syllabus(%)
Internal Assessment Test-I	Unit-I - 100%	30%
	Unit-II - 50%	
Internal Assessment Test -II	Unit-II - 50%	30%
	Unit-III - 100%	
Internal Assessment Test -III	Unit-IV - 100%	40%
	Unit-V - 100%	

Three Internal Assessments were scheduled in a semester. Internal Assessment Test-I covers 30% of the Syllabus, Internal Assessment Test-II covers next 30% of the Syllabus and Internal Assessment Test-III covers remaining 40% of the Syllabus. The Internal Assessment were conducted by the Internal Examination cell. Marks awarded for each unit of syllabus taught is depicted below:

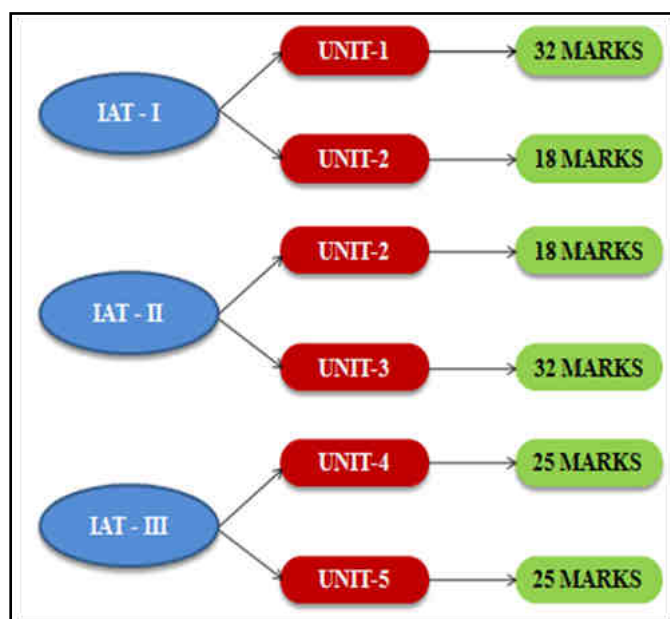


Figure.8.4.1.3. Allocation of marks for each unit of Syllabus (Regulations 2017)

For Regulations-2021:

Table 8.4.1.2. Syllabus covered for Internal Assessment Examinations

Test	Syllabus Completed	Overall Syllabus(%)
Internal Assessment Test-I	Unit-I - 100%	50%
	Unit-II - 100%	
	Unit-II - 50%	
Internal Assessment Test -II	Unit-III - 50%	50%
	Unit-IV - 100%	
	Unit-V - 100%	

AALIM MUHAMMAD SALEGH COLLEGE OF ENGINEERING DEPARTMENT OF SCIENCE AND HUMANITIES ACADEMIC YEAR 2021-22 (1000 SEESTERS) WEEKLY SYLLABUS COVERAGE REPORT							
Roll No:	08	Date:	9/11/22	By:	23/09/22		
View:	Horizontal (Portrait) / P/CE	Page No. (of) X					
Sl. No.	Name of the Faculty	Allocated Hrs/Week	Actual Hrs (theoretical)	Actual Hrs (Practical)	Expt. Completed	Sign	Remarks of HOD
102211	Ms. ARSHVANA C. ASST PROF./ENGLISH	5	5	-	Un. 1-2 completed	all 2	
102212	Ms. POGINA BEKHA R ASST PROF./MATHEMATICS	6	6+2	-	Un. 1-2 completed	all 2	
102213	M. SAJITH A ASST PROF./PHYSICS	5	4+3	-	Un. 1-2 completed	all 2	
102214	Ms. ARUNA A ASST. PROF./CHEMISTRY	5	1	-	Un. 1-2 completed	all 2	
102215	M. NADEEM AHMED / ASST. PROF./CSE	5	5	-	Un. 1-2 completed	all 2	
102216	Ms. RAJESH KUMAR E. ASST. PROF./PHYSICS	4	4	-	Un. 1-2 completed	all 2	
102217	Ms. JESHA MIRA ASST. PROF./CHEMISTRY	4	4	-	Un. 1-2 completed	all 2	
102218	M. NADEEM AHMED / ASST. PROF./CSE	-	-	-	Un. 1-2 completed	all 2	
102219	Ms. ARSHVANA C. ASST PROF./ENGLISH	2	2	-	Un. 1-2 completed	all 2	
102220	Ms. SEETHA R ASST. PROF./PHYSICS	1	1	-	Un. 1-2 completed	all 2	
102221	Mrs. R. Nandakumari AS/Physcis	2	2	-	Un. 1-2 completed	all 2	
Classroom theory hours in a week: 32		Contracted hours in a week: 8		Total hours: 40			
Class Counsellor: [Signature]		HOD/SC/H: [Signature]		Principal: [Signature]			

Figure.8.4.1.4. Syllabus covered report

Two Internal Assessments were scheduled in a semester. Internal Assessment Test-I covers 50% of the Syllabus, Internal Assessment Test-II covers next 50% of the Syllabus.

AALIM MUHAMMAD SALEGH COLLEGE OF ENGINEERING
MUTHAPUDUPET, AVADI- IAF, CHENNAI - 600055
DEPARTMENT OF SCIENCE AND HUMANITIES
CIRCULAR FOR STUDENTS

This is to inform to all First year students of B.E/ B. Tech that the Internal Assessment-I will be held from 09.05.2022 to 16.05.2022. The test timings will be from 09.10 am to 10.40 a.m. All the students are informed to attend the test without fail. Absentees will be viewed seriously. The schedule for the test are as follows:

Date	DAY	SEC A CSE A	SEC B CSE B	SEC F IT	SEC D EEE	SEC C ECE	SEC E CIVIL	SEC E MECH	
09.05.2022	MONDAY	Professional English (PE 2211)							
10.05.2022	TUESDAY	Engineering Graphics (EG 2211)							
11.05.2022	WEDNESDAY	Basic Electrical and Electronics Engineering (BE 2211)		Basic Civil and Mechanical Engineering (BE 2212)	Chemical and Instrumental Engineering (BE 2214)	Basic Electrical and Instrumentation Engineering (BE 2215)	Basic Electrical and Electronics Engineering (BE 2211)		
12.05.2022	THURSDAY	Physics for Information Science (PI 2216)		Physics for Electrical Engineering (PE 2217)	Physics for Electronics Engineering (PE 2218)	Physics for Civil Engineering (PI 2219)	Materials Science (PI 2211)		
13.05.2022	FRIDAY	Numerical and Mathematical Methods (MA 2211)							
16.05.2022	MONDAY	Programming in C (C3 2211)	Electro Circuit Analysis (EE 2211)	Circuit Analysis (EC 2211)	NIL				

Guidelines for the Students:

- All Students are advised to attend the test on time.
- All Students must bring their necessary stationeries like Pen, Pencil, etc and should not borrow from others.
- Main Sheet and additional sheets will be provided.
- All Students must follow the proper dress code and maintain discipline and follow SOPs.
- Mobile Phone is not allowed inside the hall. So Switch off the Mobile Phone and keep it in the bag.

HOD/SC/H: [Signature] PRINCIPAL: [Signature]

Figure.8.4.1.5. Student Circular - Internal Assessment Test-I –II semester - 2021-22

Marks awarded for each unit of syllabus taught is depicted below:

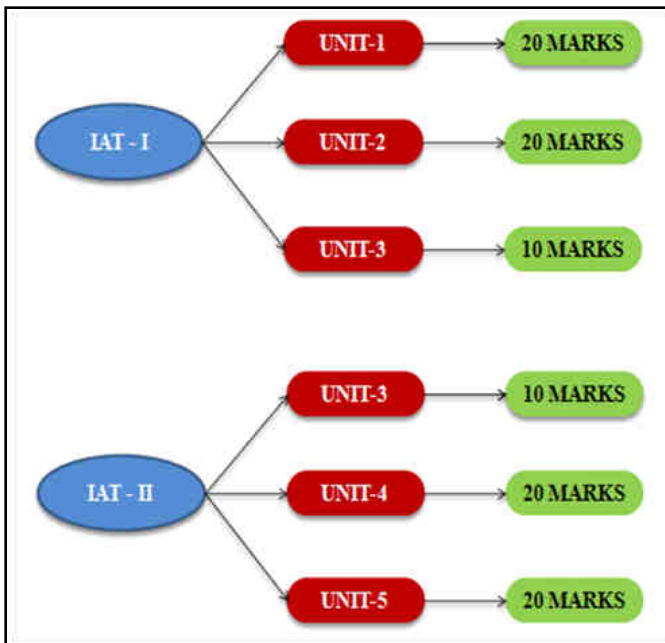


Figure.8.4.1.6. Allocation of marks for each unit of Syllabus (Regulations 2021)

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
 DEPARTMENT OF SCIENCE AND HUMANITIES
 ACADEMIC YEAR (2022-23)

CIRCULAR FOR FACULTY

AMSCE/S&H/CIRCULAR/002/2022-2023/04.01.2023

- Internal -I will be conducted from 06/01/2023 to (2) 01 / 2023 during 9.30 AM to 11.00 AM
- First year subject teaching faculties are requested to complete syllabus for 100% of the portions in Unit -II and 50% in Unit-III.
- First year subject teaching faculties are requested to prepare the question paper in the following format:

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING		
QUESTION PAPER	INTERNAL ASSESSMENT TEST - I	MARKS/MARKS IN
QUESTION NO.	DURATION / LR NO.	YEAR / SEMESTER / DATE
DEPARTMENT / COURSE / ALL BRANCHES		
Part A		
1. (1 Mark - 0.25)		10-10 Marks
2. (1 Mark - 0.25)		
3. (1 Mark - 0.25)		
4. (1 Mark - 0.25)		
5. (1 Mark - 0.25)		
Part B		
6. (1 Mark - 0.25)		40 Marks
7. (1 Mark - 0.25)		
8. (1 Mark - 0.25)		
9. (1 Mark - 0.25)		
10. (1 Mark - 0.25)		
Prepared by	BOD	Principal

- Faculty members have to email the soft copy of the Question Paper and Answer Key to the cosexamcellah@gmail.com and submit hard copy to exam cell in charge before 5/01/2023.
- Answer Script must be evaluated within TWO days after the completion of test and Mark Sheet along with Student's answer script should be submitted in S&H Exam Cell.
- Coaching classes should be conducted for all the Hostel Students & Slow learners by the Subject Faculty member from 3.50 PM to 4.50 PM.
- Coaching classes will be conducted for all the students from 9.00 AM to 9.30 AM in their respective classrooms.

1. Asst. Prof. Shyam Kannan V
 2. Asst. Prof. Mahalakshmi R
 Dept - Exam cell Coordinators

HODS & H
 Copy to:-
 1) Principal Office
 2) The HOD'S of CSE & IT.
 3) First year subject teaching faculties.
 4) Department file

4/1/2023
 PRINCIPAL

Figure.8.4.1.7. Circular For Faculty Members- question paper setting

1. Question Papers and Answer key were set by the Course Coordinator as per the norms of the Institution.
2. The Student secured < 60% ,advised to attend the tutorial classes.

AJLIM MYRANMESH SATELITE COLLEGE OF ENGINEERING ANALYSIS OF STUDENT PERFORMANCE ANNA UNIVERSITY SEMESTER ANALYSIS (APRIL/MAY - 2022) (SEMESTER EXAMINATIONS) DEPARTMENT OF SCIENCE AND HUMANITIES BRANCH - CSE												
Year / Semester / No. of C.E.E's												
MARKS SHEET												
NO. OF STUDENTS IN THE CLASS												
TOTAL NUMBER OF STUDENTS												
Sl. No.	Reg. No.	NAME OF THE STUDENT	ENG	MAN	PHY	MATH	CS	PROG	PROG	GP	Total Marks	CGPA
COURSE												
1	1002110001	AAJIBU SYTA USMANIY P	8	8	8	8	8	8	8	8	72	8.00
2	1002110002	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
3	1002110003	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
4	1002110004	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
5	1002110005	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
6	1002110006	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
7	1002110007	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
8	1002110008	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
9	1002110009	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
10	1002110010	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
11	1002110011	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
12	1002110012	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
13	1002110013	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
14	1002110014	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
15	1002110015	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
16	1002110016	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
17	1002110017	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
18	1002110018	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
19	1002110019	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
20	1002110020	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
21	1002110021	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
22	1002110022	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
23	1002110023	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
24	1002110024	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
25	1002110025	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
26	1002110026	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
27	1002110027	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
28	1002110028	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
29	1002110029	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
30	1002110030	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
31	1002110031	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
32	1002110032	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
33	1002110033	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
34	1002110034	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
35	1002110035	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
36	1002110036	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
37	1002110037	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
38	1002110038	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
39	1002110039	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
40	1002110040	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
41	1002110041	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
42	1002110042	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
43	1002110043	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
44	1002110044	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
45	1002110045	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
46	1002110046	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
47	1002110047	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
48	1002110048	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
49	1002110049	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
50	1002110050	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
51	1002110051	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
52	1002110052	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
53	1002110053	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
54	1002110054	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
55	1002110055	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
56	1002110056	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
57	1002110057	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
58	1002110058	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
59	1002110059	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
60	1002110060	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
61	1002110061	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
62	1002110062	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
63	1002110063	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
64	1002110064	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
65	1002110065	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
66	1002110066	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
67	1002110067	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
68	1002110068	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
69	1002110069	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
70	1002110070	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
71	1002110071	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
72	1002110072	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
73	1002110073	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
74	1002110074	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
75	1002110075	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
76	1002110076	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
77	1002110077	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
78	1002110078	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
79	1002110079	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
80	1002110080	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
81	1002110081	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
82	1002110082	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
83	1002110083	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
84	1002110084	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
85	1002110085	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
86	1002110086	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
87	1002110087	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
88	1002110088	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
89	1002110089	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
90	1002110090	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
91	1002110091	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
92	1002110092	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
93	1002110093	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
94	1002110094	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
95	1002110095	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
96	1002110096	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
97	1002110097	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
98	1002110098	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
99	1002110099	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00
100	1002110100	ABDUL KADIR M	8	8	8	8	8	8	8	8	72	8.00

Figure. 8.4.1.10. Calculation of CGPA of students for the academic year 2021-22

Overall Direct Assessment including Internal and University Semester Examinations:

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	0	0	0	0	0	0	0	0	0	2.98	0	.99
C102.1	2.89	2.89	2.31	2.7	0	1.29	0	0	0	0	0	1.74
C103.1	2.63	2.28	1.75	0	2.10	1.75	0.88	0	0	0.88	0	1.75
C104.1	0.95	0.95	1.43	0.95	0.95	0.95	0.95	0.95	0	0	0	0.95
C105.1	2.94	2.16	1.96	.98	1.18	0	0	0	0	0.98	0	0.98
C106.1	1.60	2	1.60	1.60	1.60	2.20	1.20	0	1.60	1.33	1	2
C107.1	2.99	2.99	2.59	2.59	2.39	2.59	0	1	2.59	1.79	0	2.19
C108.1.1	0	0	0	0	0	0	0	0	0	2.86	0	0.95
C109.1.1	2.47	2.47	2.47	2.47	0	2.47	1.81	0	1.65	0.82	1.15	1.48
C110.1.1	2.06	1.47	0.74	0.74	1.91	0.88	0.88	0	0.74	1.62	0	1.47
C111.1.1	2.82	2.20	2.35	2.20	0.94	0	0	0	0	2.82	0	0.94
C112.1.1	1.40	2.09	1.74	1.96	1.53	1.74	0.87	0	0	0	0.87	1.31
C113.1.1	2.27	2.31	2.06	0	1.03	0	0	0	0	0.82	0	1.48
C114.1.1	2.20	2	1.80	1.40	0	0	1	0	2.20	1	0	0
C115.1.1	3	3	3	3	0	0	1	0	0	1	3	1

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.32	2.22	1.98	1.87	1.51	1.73	1.07	0.98	1.76	1.58	1.50	1.37
CO Attainment	2.32	2.22	1.98	1.87	1.51	1.73	1.07	0.98	1.76	1.58	1.50	1.37

PSOs Attainment:

Course	PSO1	PSO2
C101.1	1.19	1.19
C102.1	1.93	1.93
C103.1	0.92	0.74
C104.1	0.95	0.95
C105.1	2.55	2.94
C106.1	1.25	1.33
C107.1	2.79	1.79
C108.1.1	1.33	1.14
C109.1.1	1.65	1.65
C110.1.1	1.10	0
C111.1.1	2.63	1.32
C112.1.1	1.74	2.09
C113.1.1	2.14	0.82
C114.1.1	2	1
C115.1.1	3	3

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.81	1.56
CO Attainment	1.81	1.56

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

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.00	2.32	For the proceeding year, the target would be progressive.
Action 1: Students were motivated to participate in academic events, which helped in improving general awareness for real-time applications.			
PO 2 : Problem Analysis			
PO 2	2.00	2.22	For the proceeding year, the target would be progressive.
Action 1: Incorporated various analytical problems in mathematics and Programming Courses.			
PO 3 : Design/development of Solutions			
PO 3	2.00	1.98	For the proceeding year, the target would be progressive.
Action 1: The students would improve on the different aspects of designing solutions of engineering problems			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.98	1.87	Better interactive programmes for varied research ideas will achieve the desired.
Action 1: Access to complex Problem analysis, and solutions in implementing real time industry needs in their respective academic projects. To enhance comprehension levels, Courses taught by introducing and encouraging to participate in NPTEL Courses, a positive response is noticed from students.			
PO 5 : Modern Tool Usage			
PO 5	1.98	1.51	Usage of modern techniques inculcated are insufficient to achieve the target
Action 1: Awareness Programmes relevant to enhance the student activity in comprehension were introduced.			
PO 6 : The Engineer and Society			
PO 6	1.98	1.73	Low participation in Extra-Curricular activities resulted inadequacy in societal awareness and responsibilities.
Action 1: Organized out-reach programmes in cultural and Societal activities.			
PO 7 : Environment and Sustainability			
PO 7	1.90	1.07	Lack of awareness on environment and Sustainable development of the Society.
Action 1: Inculcating and educating towards the improvement of the professional engineering solutions in societal and environmental contexts.			
PO 8 : Ethics			
PO 8	1.90	0.98	Lack of ethical principles in Basic Engineering practices.
Action 1: Ethical values are imbibed with reference to Guru-Sishya Parambarya, Societal responsibilities and Professional etiquettes			
PO 9 : Individual and Team Work			
PO 9	1.95	1.76	Lack of participation as an individual as well as a team member amongst students.
Action 1: Students are encouraged to work as an individual and as a team member in several activities. Leadership qualities are overwhelmed amongst students.			
PO 10 : Communication			
PO 10	1.90	1.58	Communication skills are slowly improved .
Action 1: Soft skills training program were conducted to enhance various aspects of technical talks.			
PO 11 : Project Management and Finance			
PO 11	1.95	1.50	Awareness on managing finance and project are out to the desired level.
Action 1: Students are encouraged to participate in specific courses which gives awareness on the principles of project management			
PO 12 : Life-long Learning			
PO 12	1.90	1.37	Promoting education towards life long learning in the courses are identified to be minimal.
Action 1: Learning never ends, with this Philosophy, we gave the students the value of education and learning. We counseled the students to look beyond syllabus taught during the course to venture into emerging cross technologies. This demands life long learning.			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To analyse design and develop computing solutions by applying foundational concepts of Computer Science and Engineering			
PSO 1	1.90	1.81	Improvement in Mathematics, Science and Engineering Fundamentals are out of desired level.
Action 1:To adapt emerging information and communication technologies in order to come up with new ideas and solutions for existing and new challenges.			
PSO 2 : To apply software engineering principles and innovative practices for developing quality software for scientific and business applications problems			
PSO 2	1.70	1.56	Progress in the potential to analyze engineering problems is minimal.
To adapt emerging information and communication technologies in order to come up with new ideas and solutions for existing and new challenges			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

Details of the Mentoring system that has been developed for the students for various purposes and also state the efficacy of such a system.

Type of Mentoring: Students are counselled for academic improvement, career improvement and personality development.

Frequency of meeting: Once in a month.

No. of students / Mentor: 15 to 20

Mentoring Process:

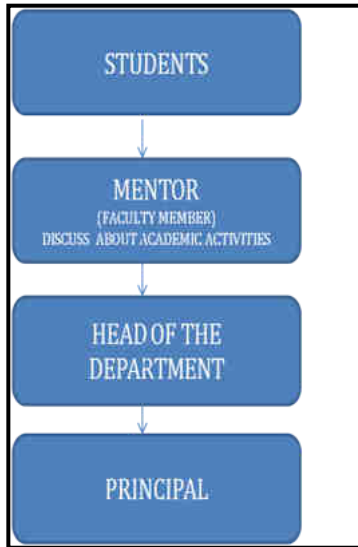


Figure 9.1.1 Mentoring Process

Student's personal and academic details and their progression are updated in the student's Academic performance book (Success book).

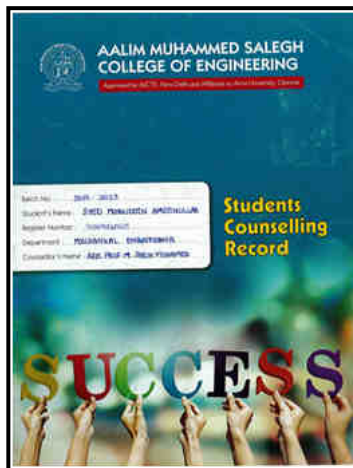


Figure 9.1.2 Student Academic performance book

Counselling is provided on the following parameters:

Professional/ Academic/ Course work specific:

The mentors discuss issues related to personal development with the assigned students every two weeks that improves academic performance. The student mentors also contribute to the academic and personal growth of peers/juniors by providing them assistance when required. Also mentoring is provided for choosing elective subjects. Further, mentoring is provided on all Co-Curricular related activities like attending Conferences, paper presentations, publications etc., For first year students, counselling is provided on all academic related activities. Also, information is provided by mentors on details, related to the availability of scholarships.

Outcome: It helps students to learn and hone their study skills. Also, dropout rates have been reduced to an extent due to the counselling provided.

COUNSELLING HISTORY						
Counselling Date	Points of Discussion	Student's Reasoning	Counsellor Advice	Follow-Up Action	Student Signature	Counsellor Signature
05/11/2019	Academic and Internal Assessment Test Marks	Try to get high marks in next exam.	Concentrate on studies	Self Monitoring	Self Motivation Assessment	[Signature]
24/10/20	Academic and Internal Assessment result	I will try to clear the session.	Try to clear the session paper	Monitoring	Self Motivation Assessment	[Signature]
24/10/20	Final School Marks	I will get good marks in next exam.	Concentrate more on studies	Monitoring	Self Motivation Assessment	[Signature]
12/11/2020	Academic & Internal Assessment	I will try to get good marks in next exam.	Concentrate more on studies	Monitoring	Self Motivation Assessment	[Signature]
05/03/2021	Academic & Internal Marks	Try to improve.	Concentrate more on studies	Monitoring	Self Motivation Assessment	[Signature]

Figure 9.1.3 Counselling History recorded in Student Counselling book

Personal:

Personal issues amongst students, Junior or Senior students, and emotional upheavals are discussed by the Individual teacher mentors. Parents are also called and counselled by the College Counsellor available on campus and if required they are referred to the external counselling. For first year students, counseling is provided to improve students confidence level, assist in effective transition from school environment to college environment and reduce home - sickness as most hostel students may be staying away from home for the first time.

Outcome: Both students and parents become aware of and realize each others needs and problems and make efforts to overcome them, so that the students are able to focus more on academics.

Skill based:

Students are Guided to own their skills beyond course work by venturing into emerging technologies in the form of NPTEL, ICT, IOT etc.,

Outcome: Such mentoring help the Student in deep Learning beyond Course work.

Career Development:

Career development is the process of learning and utilizing short-term skills to progress towards long-term professional goals. Mentors and Alumni counsel the students on the various opportunities for higher studies.

Outcome: Such a mentorship helps students to identify the options and opportunities for their Placement and Higher studies.

Overall Development & Attitude:

The Guidance provided by Faculty member and the professional counsellors brings a change in attitude of students affected by behavioral/habitual disorders. If any student is subjected to social isolation, it is also taken care of. Counselling on extracurricular activities is also provided depending on the students interest and creativity.

Outcome: This helps students to develop a positive attitude, improve their social etiquettes and also set goals for their future.

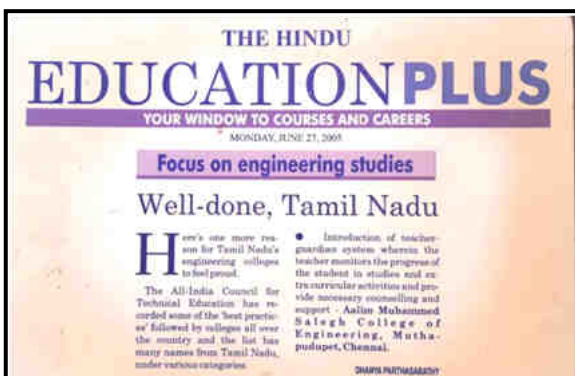



Figure 9.1.4 In the Year 2005, AICTE, New Delhi Placed on record Institution's Mentoring system.

 ALIM MUHAMMED SALIGH COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE ENGINEERING ACADEMIC YEAR 2019-2020 ODD SEM		
YEAR/SEM: II SECTION: A		Counsellor Name
S.NO	NAME	
1	ABDUL BEEZ A	Mrs. Priya
2	ABDULLAH SYED ISMAIL	
3	ABDULLATI	
4	ADNAN SHABIQ P	
5	AHAMED LAMEEN S	
6	AJAHMEDULLAH JAVITH A	
7	AMAL P	
8	AMREN A	
9	AMBER KHAN A	
10	ANJUM FATHMA N	
11	ASHIKA BABU M	
12	ASHRAF ALI A	
13	ASWAD SHEERAZ S	
14	AYISHA S	
15	AJESAM AHMED U	
16	BAZITH ALI N	
17	BSAKKI RAJ M	
18	HABIB KAJA A	
19	HABIBARAH K	
20	HASHAAN ANJENT K	
21	HISHAM ISMAIL V A	
22	IFTIKHAR AHMED M	
23	JANANI C B	
24	JASANTHANAN M	
25	JEEVITHA K	
26	JUTHIKA S	
27	MAJATH F T	
28	MANOJ KUMAR D	
29	MD FARWAZ	
30	MEER ABZAL HUSSAIN A	
31	MUHAMMED AADHIL SHATH M	
32	MUHAMMED ABRAR	
33	MUHAMMED AKSATH A	
34	MUHAMMED BILAL H	
35	MUHAMMED FARHAAN F	
36	MUHAMMED IFTIKHAR S S	
37	MUHAMMED IQRAM S S	
38	MUHAMMED IRFAAN I	
39	MUHAMMED KHAN A	
40	MUHAMMED KAITAN M	
41	MUHAMMED KASITH H S	
42	MUHAMMED KAZVI	
43	MUHAMMED RITAS M T	
44	MUHAMMED SAFRITH S	
45	SHABANA B	
		Ms. Al Mudhassir Farhana



 STAFF INCHARGE
  HOD

Figure 9.1.5 Mentor-Mentee list

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

Total Marks 10.00

A well defined feedback mechanism is developed and deployed in our institution. Appropriate Feedbacks are collected from the stake holders for analysis, improvement and implantation.

Feedback collected for all courses: Yes

Specify the feedback collection Process: One regular class Period is designated for the purpose.

Who is responsible for collecting the feedback? : Respective Class In-charges

Table 9.2.1: Feedback collection sources

S.no	Stake holders	Feedback	Objective
1	Students	Course end survey	To measure the indirect attainment of COs
		End semester Faculty feedback	To assess the effectiveness of faculty member
		Class committee meeting (Thrice in a semester)	To improve Teaching-Learning Process and other issues
		Outgoing student feedback	To measure indirect attainment of POs
2	Faculty Members	Faculty member perception on course curriculum	To expertise the course curriculum
3	HOD	360 Degree Performance Appraisal form	To improve overall performance of Faculty members
4	Parents	Facilities	To Improve the facilities and services.
5	Alumni	Facilities	To develop and Improve our Standards on facilities and services.

Flowchart - feedback analysis process for faculty members

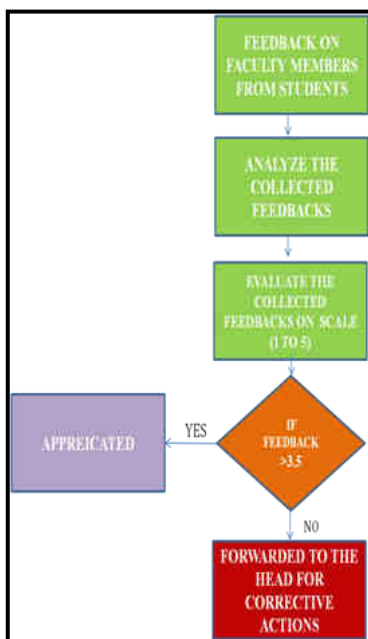


Figure 9.2.1 Flowchart- Feedback analysis process for faculty members

Basis of reward / corrective measures, if any:

The collected feedbacks are analyzed and a report is generated for all Faculty members. It is evaluated on the scale of 1 to 5. In case the feedback is less than 3.5 for any teacher, he/she will be suggested by The HEAD for their improvement. If required, faculty members may be deputed for Faculty Development Program.

AALIM MUHAMMED SALEGI COLLEGE OF ENGINEERING
 "Nizam Educational Campus" Muthupudupet
 IAF(Avadi), Chennai - 600 055

STUDENTS FEEDBACK FORM

EVALUATING THE TEACHING PROCESS
 (To be filled by Students)

Name of the Student & Reg.No (optional): Adh. Mechanical ECE025 Academic Year : 0352-
 Department: 2/T Semester/Sec: 1/2/E

The Feedback is being sought from you as a part of the continual improvement program in vogue in every Department. Please give your fair and unbiased response. You may rank the Teacher on a scale of 1-5 to each item as your feedback score for each parameter.

(5 - Excellent 4 - Very Good 3 - Good 2 - Satisfactory 1 - Poor)

S. No.	Subject Code	Name of the Faculty Member				
		H.S. (T1)	MA (T2)	EN (T3)	CR (T4)	CR (T5)
Please read the lines below as "The Teacher"						
1	Comes to the class on time	4	5	5	5	5
2	Comes well prepared for the class	5	5	5	5	5
3	Engages classes regularly and maintains discipline	5	5	5	5	5
4	Speaks clearly and audibly, writes and draws legibly	5	5	5	5	5
5	Covers all the topics on time	5	5	5	5	5
6	Offers timely assistance and counseling to the Students	5	5	5	5	5
7	Asks questions to promote interaction and effective thinking	5	5	5	5	5
8	Explains clearly and effectively the concepts/principles with appropriate examples	5	5	5	5	5
9	Encourages, compliments, praises the originality and creativity displayed by the Students	5	5	5	5	5
10	Is understanding and unbiased in dealing with the Students	5	5	5	5	5

Remarks (if any):

[Signature]

Figure 9.2.2 Students feedback on teaching Faculty member



Figure 9.2.3 Parent and Teachers Meeting

B. Record of corrective measures taken

Procurement of electrical/carpentry/plumbing/water purifier items by the management directly for speedy redressal of problems.

WORK ORDER NUMBER: 176

INVOICE

NO/GEZ No. 0134/21-22
Date: 13-03-2022

ONNAYELU Contractor Plumbing & Electrical Work No.46, Defense Estate, 6th Street, Madhavaraipalayam, Arakkottam Chennai-600 055	Kalini Muhammed Saibah College of Engineering Madhavaraipalayam, Arakkottam T.A.S. Chennai-600 055
--	--

Sl No	Particulars	Qty	Rate	Amount
30M BRICK				
	C/D Brick Terrace	1	830	830.00
	Plumbing Works 2"			
	UPVC Ball Valve removal and refilling	1	830	830.00
C/D Brick Third Floor				
	Ladies prayer hall			
	Hand washing area of interior inlet water line			
	Indoor water supply line network & labour charges			7030.00
Material supplied list:				
	PVC Tee Rig stick long bar 1/2"	11	303	3333.00
	UPVC T joint	1	200	200.00
	UPVC bush 2" to 1"	1	80	80.00
	Ball Valve UPVC	1	360	360.00
	UPVC Elbow	1	20	20.00
	UPVC pipe line	2	70	140.00
	PVC pipe line 2 1/2"	2	130	260.00
	UPVC valve (13mm)	1	90	90.00
	PVC valve	1	11	11.00
	1/2" Ball Elbow	1	100	100.00
	1/2" Ball Elbow	1	40	40.00
TOTAL				12384.00

(Rupees Thirteen Thousand Two Hundred Eighty Four Only)

S. Gnanavel
ONNAYELU

Work Completed
checked and verified
A.S. MURUGAN
18/03/22

Materials checked and verified
A.S. MURUGAN
18/03/22

Figure 9.2.4 Plumbing Materials invoice

9.3 Feedback on facilities (5)

Total Marks 5.00

9.3 Feedback on Facilities

A. Feedback Collection Analysis and Corrective action

A. Feedback Collection Analysis and Corrective action

Feedback obtained from the students.

1. CLASSROOMS
2. LABORATORIES
3. COMPUTING FACILITIES
4. LIBRARY
5. WASHROOMS AND SANITATION
6. CAFETERIA
7. HOSTEL
8. TRANSPORTATION
9. BANKING
10. SPORTS
11. MEDICAL SUPPORT

Based on the feedback collected, corrective measures, if any, carried out.

INFRASTRUCTURE

Class Committee Meetings are held thrice in a Semester. During the interaction between the students, deficiencies, if any related to academic facilities and amenities are recorded and ensured correction within shortest possible time. We are fortunate enough; the management is very receptive and responsive in providing all facilities required for a better educational campus. Our campus hosts well design friendly living Hostel for Men and Women, Banking facilities, Campus Cafeteria, Medical emergency support, Prayer Halls, Safe drinking water with RO WATER PLANT adequately sufficing standby power generation equipped with 125 kVA, 180 kVA, 250 kVA standby power generators with additional 20kW solar Power generator

LIBRARY

College central Library is well stacked with titles and volumes on varied faculties of Sciences and Engineering with Additional facility of e-Library computing facilities.

TRANSPORTATION

With Pride, we mention that the transportation facilities for the student and the teachers is facilitated for commuting with zero on road break down.

HOSTEL

Hostel committee meetings are convened twice in a year before the commencement of every semester. Interim meetings were also conducted as when necessary to shoot the problems, if any. Hostel inmates are blessed food arrangements are directly supervised by the management by providing nutritious food.

AALIM MUHAMMAD SALEGH COLLEGE OF ENGINEERING
 Main Building, Campus, Madhavapet, 567 002, Channarayana, Karnataka
 Contact: 081103

FEEDBACK FORM ON INFRASTRUCTURE AND FACILITIES

Academic Year: 2022-23

As a part of Continuous Quality Improvement, your Feedback is valuable as it helps us to develop and improve our standards on Facilities and Services.

Name of the Student (if possible): Dev Prakash
 Register Number: _____
 Year: 1st
 Branch: IT

PARAMETERS	Student ID	Year Level	Grade	Average	Before Feedback
Feedback on Classrooms					
Adequate illumination	✓				
Adequate seating arrangements	✓				
Temperature	✓				
Classroom	✓				
Feedback on Laboratory					
Adequate seating arrangements	✓				
Availability of Computers	✓				
Availability of Internet	✓				
Availability of Software and Hardware	✓				
Power	✓				
Availability of material for practical training	✓				
Availability of reference books	✓				
Availability of Books and Journals	✓				
Availability of Internet in Books and Journals	✓				
Availability of Journals	✓				
Infrastructure Facilities					
Medical care	✓				
Drinking water	✓				
Cafeteria	✓				
Transportation	✓				
Washrooms	✓				
Academic Environment					
Classroom Planning and Development	✓				
Classroom Methodology	✓				
Student-Administrator Relationship	✓				
Student-Student Relationship	✓				
Student-Staff Relationship	✓				
Availability of extra-curricular activities	✓				
Sports facilities	✓				
Health and Safety	✓				
Security facility within the Campus	✓				
General Hygiene	✓				

Please give your valuable suggestions for the improvement of the College.

Figure 9.3.1 Feedback forms on Infrastructure and Facilities



Figure 9.3.2 20 KW Rooftop Solar Panel



Figure 9.3.3 R-O WATER PLANT Facilities with a capacity of 500 l/hr.

Date	System Problems	Service d. (or) Taken By	Remarks	Date
28/10/2021	In Power System Simulation Lab. IT. System Computer has OS Corruption and networking problem.	Mr. Nizam Sr. serviced all IT res Computers on 31/10/2021	All Computers were checked and working well.	05-09-21
28/10/2021	Supply Water - Exchange In Power System Simulation Lab. 25 Computers were installed with Java Software for Smart Condition of Power (AU Lab Room)	Mr. Nizam from Mech Dept installed Java software on 28/10/2021	All 25 new Computers were installed with Java and working well. One Computer was serviced and OS was updated on 11/2/23	11/2/23

Figure 9.3.4 PS Laboratory Service Register

9.4 Self-Learning (5)

Total Marks 5.00

A.Scope for Self- Learning.

Self-Learning is a process of garnering information, processing and retaining it without taking help of another individual. It helps to enhance the students knowledge acquired in their field of interest. Motivation for self-learning are provided in the classrooms. A teacher has a great role to play in this regard. Discussing subject beyond the syllabus, providing exposure to exciting developments in science and technology around the globe, attempting solutions to problems in daily life etc. are the ways to motivate students for self-learning. They should also be motivated to do things themselves so that they gain confidence to try anything with their own hands.

Students Earned laurels to the College:

1. SMART INDIA HACKATHON
2. WORLD ROBORACE CHAMPIONSHIP
3. GUINNESS WORLD RECORDS – Longest Power Strip of 50 Numbers by Mohammed Nawaz on 11.10.2018
4. KURUKSHETRA, ANNA UNIVERSITY CHENNAI
5. PALS-INNOWAH (Alumni Fraternity, IITM)
6. YOUNG SCIENTIST AWARD



Figure 9.4.1 Team EMBLAZE Students of EEE won the First Runner Up award SMART INDIA HACKATHON 2018



Figure 9.4.2 Mr. M.Dhanush, from the department of Mechanical participated and won World Roborace Championship. He also awarded with the cash prize of Rs. 1 Lakh. organized by Govt.of India at Indira Gandhi Stadium, New Delhi on 28.4. 2017 to 30.04.2017.

B. The institution needs to specify the facilities, materials for learning beyond syllabus, webinar, podcast, MOOCs etc., and demonstrate its effective utilization.

To facilitate the self-learning process the Institution provides various platforms to keep the students active.

1. Library Facility

1. Central Library
2. Digital Library
3. Department Library

2.NPTEL / Online Courses

3.Mini Projects

4.Industrial Visits

5.OFT SKILLS TRAINING PROGRAMME (SSTP)

6.Internships / In-Plant Trainings

7.Association of Professional Bodies

8.PALS- Pan IIT Alumni Leadership Series (IITM)

9.“NAAN MUDHALVAN” - State’s skill development Scheme

1.LIBRARY FACILITY

a. CENTRAL LIBRARY

Central Library supports the self-learning process, wherein the students and faculty members are enriched to make use of Library facilities. Currently there are 11357 titles 73,953 volumes, 2720 Academic CDs and statutory requirement of International/National Journals. To inculcate the habit of visiting Library a library hour is included in daily routine timetables.



Figure 9.4.3 Students Reading Area in Library

a. Digital Library:

Digital Library enables the students to access the facility beyond the working hours wherein 23 computers have been dedicated with reprographic facilities. Our students can make use of various online modes of digital library such as AICTE-(e-KUMBH), DELNET, e-books, National digital library, IITM Central Library, Anna University.

b.Department Library

In addition to Central library, every department has its own library.

2. NPTEL / Online Courses:

To facilitate the self learning process, we motivate the students to enroll for SWAYAM-NPTEL online certificate courses and guide them to complete the course by allotting mentors of specialized discipline.



Figure 9.4.4 NPTEL SPOC Nomination letter



Figure 9.4.5 NPTEL online certificate

3. MINI PROJECT:

We enhance the Scientific & Research temper among Students to facilitate projects on specific and beyond Syllabus.



Figure 9.4.6 Shell And Tube Heat Exchanger Apparatus

4. INDUSTRIAL VISITS:

In order to provide exposure about the practical working environment and to get awareness on industry practices. We organize Industrial visits for all the Second, Third and Final year students.

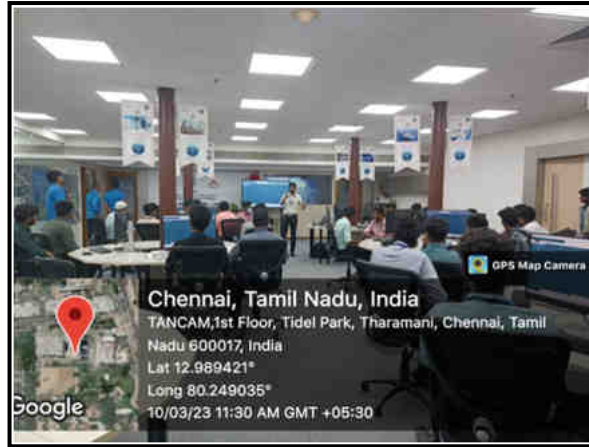


Figure 9.4.7 II Year Students of Mechanical Engineering Department went for Industrial visit to Tamilnadu centre for Excellence for Advanced Manufacturing (TANCAM) in TIDEL Park, Chennai on 10.03.2023

5. Soft Skill Training Programme (SSTP):

We provide SSTP for the First and Second year Students in order to enhance the Skills in IELTS, Aptitude, Seminar, NPTEL, Interpersonal Skills, Communication Skills etc.,

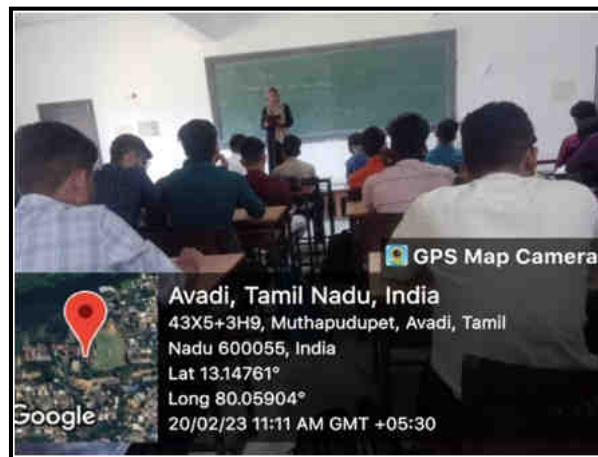


Figure 9.4.8 SSTP Seminar Session

6. INTERNSHIPS / IN-PLANT TRAININGS:

To improve hands-on experience in desired field of studies, Students are encouraged to associate with Internships and In-Plant trainings in Industry Environment.



Figure 9.4.9 In-Plant training certificate

7. PROFESSIONAL BODIES:

To imbibe the Professional abilities and etiquettes, Students are Advised to seek membership from the Professional bodies such as ISTE, IET, CSI etc.,



Figure 9.4.10 ISTE Student Membership Card

8. PALS:

An initiative to students expose to the scientific and technological development, we had collaborated with PALS (Alumni Fraternity, IITM) which is a technocrats initiative for the benefit of students of engineering colleges in Tamilnadu.

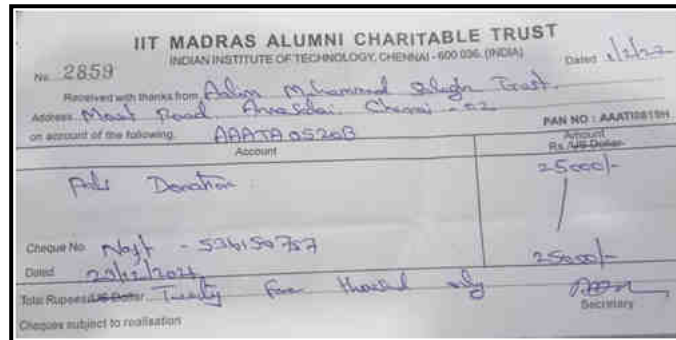


Figure 9.4.11 PALS Renewal Receipt

9. NAAN MUDHALVAN - State's skill Development Scheme

The Tamil Nadu Naan Mudhalvan Scheme was unveiled on March 1st, 2022 by Honorable Chief Minister, MK Stalin. The Objective is to Provide Skill Development Training to overcome the skill gap. Through this flagship program the students will be able to get trained and ensure that they get jobs according to their skill sets. Now Students of our College were part of the scheme.

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

A. Availability of Career Guidance Facilities:

A Career guidance, training & placement cell has sufficient infrastructure in order to conduct mock interviews, group discussions, alumni interaction and online examinations. A career guidance, training & placement cell is established with the team members as follows:

**Table 9.5.1. CAREER GUIDANCE, TRAINING & PLACEMENT CELL.
ACADEMIC YEAR 2021- 22**

S.NO.	NAME	DESIGNATION	PARENT DEPARTMENT
1	Mr. RAVI KUMAR R	PLACEMENT OFFICER	CPD
2	Ms. RAJALAKSHMI B	PLACEMENT CO- ORDINATOR	CIVIL
3	Mr. MOHAMMED YOUSUF M	PLACEMENT CO- ORDINATOR	MECH
4	Ms. AMARSHREE	PLACEMENT CO- ORDINATOR	CSE
5	Mr. JONE ROSE	PLACEMENT CO- ORDINATOR	ECE
6	Mr. RAMEEZ RAJA K	PLACEMENT CO- ORDINATOR	EEE
7	Ms. DHIVYA BHARATHI P	PLACEMENT CO- ORDINATOR	IT
8	Ms. ABHINAYA C	PERSONALITY DEVELOPMENT TRAINER	ENGLISH
9	Mr. KARTHIK T	PLACEMENT TRAINER	CPD CELL
10	Mr. BIBIN JOHN M	PLACEMENT TRAINER	CPD CELL

B. COUNSELLING FOR HIGHER STUDIES (GATE/GRE, GMAT, etc.,)

The Training and Placement division facilitates the students on their Career by organizing Career guidance programmes. Eminent personalities from various organizations both in Government and Private sectors are the invitees. Department specific Alumni interactions are also organized to motivate the students. Intimation & notifications on admissions and various schemes for pursuing higher education are circulated and displayed on the notice board.



Figure 9.5.1 Counselling for Higher Education by Ms.Aruna A/P (I.T)



Figure 9.5.2 SIVAKUMAR NEDUNCHEZHIAN of Computer Science Engineering has joined M.S in the University of Nottingham academic year 2020-2021



Figure 9.5.3 Alumni Guest Speaker Er. SYED ALI FATHIMA PITCHAIBRAHIM discussed about “Career Development in IT Field”

Table 9.5.2 Higher Studies Details

DEPARTMENT	NO. OF STUDENTS- TAKING UP HIGHER STUDIES
MECHANICAL	15
ECE	12
CSE	18
IT	09

C. PRE-PLACEMENT TRAINING

Institution has constituted the Training and Placement Cell with Technical, Aptitude and Soft Skill Trainers.

- The students are provided with various skills in Industry focused areas as Tabulated below.

Table 9.5.3 Soft Skills List

S. NO.	NAME OF THE SKILL
1	Aptitude
2	Verbal Reasoning
3	Resume preparation, Communication & Group Discussion
4	Programming & Technical Skills
5	Soft Skills

D. PLACEMENT PROCESS AND SUPPORT

The skill sets are facilitated to students through internal trainers and external trainers based on the requirement (Say company specific, mock tests and interviews). Performances of the student are monitored and necessary suggestions are given to the individuals for improvement. The Training and Placement Cell invites various companies to the institution for recruitment and conduct On-campus Interviews.

The Training and Placement division supports students to participate in off campus drive conducted by the neighbouring institutions and organizations. The Training and Placement Cell also extends its continuous support by organizing Career Guidance Programmes to support the students to have an exposure on higher education, Job fields etc.,

Table 9.5.4 ANNUAL PLACEMENT TRAINING DETAILS

Academic Year 2021-22

S. No.	Trainings	Venue	Resource Person	Dept	Third Year	Final Year
					No. of Students Participated	No. of Students Participated
1	In house Regular Placement Training Conducted for Third Year & Final Year Students	Respective Department Class Rooms	Mr. M. Bibin John for III year students	EEE	16	27
				ECE	33	33
				CSE	85	62
			Mr. T. Karthik for IV year students	IT	40	14
				MECH	60	61
				CIVIL	29	22
2	Company Specific Training Conducted (TCS & Cognizant) for Final Year Students	Online Class	<u>Aptitude</u> Mr. T. Karthik <u>Verbal</u> Asst. Prof. Janani.L <u>Technical</u> Asst.Prof. K.Kaja Mohideen, Asst.Prof. Bakkiya Lakshmi	EEE	NA	27
				ECE	NA	33
				CSE	NA	62
				IT	NA	14
				MECH	NA	61
				CIVIL	NA	22
3	TCS Ninja Company Specific Training conducted by MY OSin for Final Year Students	Online Class	<u>Aptitude & Technical</u> Conducted by MyOsin, TechSub Techno Solutions Pvt Ltd.	EEE	NA	27
				ECE	NA	33
				CSE	NA	62
				IT	NA	14
				MECH	NA	61
				CIVIL	NA	22
4	AMCAT Training Programme and Company Specific Pattern based Training of M/s. NTT Data & Mphasis Conducted for the Final Year Students	Respective Department Class Room	<u>Aptitude</u> Mr. T. Karthik	CSE	NA	33
				ECE	NA	22
				EEE	NA	22
				IT	NA	10

Table 9.5.7 STUDENTS PLACED DETAILS

Academic Year 2021-22

DEPARTMENT	NO. OF STUDENTS PLACED
MECHANICAL	46
ECE	30
CSE	39
IT	08

Table 9.5.8 CPD Cell Web link

CPD Cell	Web link
Placement Details	https://www.aalimec.ac.in/placement/placement-details/ (https://www.aalimec.ac.in/placement/placement-details/)

9.6 Entrepreneurship Cell (5)

Total Marks 5.00

ENTREPRENEURSHIP DEVELOPMENT CELL

Entrepreneurial Development Cell (EDC) was established on its own initiative on 15th February 2012. Entrepreneurial Development Cell has been conducting various “Entrepreneurship development programmes”.

A. Entrepreneurship Initiatives**Objective:**

To promote entrepreneurship among the youth and to nurture a passion for self-employment, this turns the Job-seekers into job creators.

The broad objectives of the ED Cell would include:

To create awareness on entrepreneurship among students,

To inculcate entrepreneurial spirit and culture among the Engineering graduates.

To conduct programs on entrepreneurship enabling skills.

To identify and motivate budding entrepreneurs.

To assist entrepreneurs in finance source, identifying markets, preparation of business plan and product development.

To guide the prospective entrepreneurs in knowledge based ventures.

To help entrepreneurs to acquire necessary skills to run the industry effectively.

To bridge the gap between Industries and Institutions by carrying out the research activities for the industries.

To conduct Skill development training programs with updated technologies.

To provide need-based consultancy services.

Table 9.6.1 Members Entrepreneurship Development Cell

S. No.	Name	Designation	Position
1.	Janab. S. Segu Jamaludeen	Secretary & Correspondent	Patron
2.	Janab. Shaik Athaullah	Trustee Administrator	Patron
3.	Prof. Dr. S. Sathish	Principal	Convener
4.	Prof. Dr. M. Afzal Ali Baig	IQAC Chairman	Co-convener
5.	Prof Dr. N.R. Shankar	IQAC Director	Co-convener
6.	Asst. Prof. K. Khaja Mohideen	Coordinator, ED Cell, CSE	Coordinator

Table 9.6.2 Members List – 2021- 22

S.No.	Name of the Member	Designation
1.	Prof. Dr. S. SATHISH	Principal
2.	Asst. Prof. K. Khaja Mohideen	Convener – ED Cell
3.	Asst. Prof. Abdul Rahman	Assistant Professor / Mech. & Coordinator-ED Cell
4.	Asst. Prof. M. Abdul Jabbar	Assistant Professor / Civil, Member –ED cell
5.	Asst. Prof. K. Rameez Raja	Assistant Professor / EEE & Member –ED cell
6.	Asst. Prof. Syed Mustafaa	Assistant Professor /ECE & Member –ED cell
7.	Asst. Prof. Mohamed Iqbal	Assistant Professor/ CSE & Member –ED cell
8.	Asst. Prof. Ganesh	Assistant Professor / IT & Member – ED cell
9.	Asst. Prof. F. Habib Mohammed Afzal Bijli	Assistant Professor /MCA & Member – ED cell

Table 9.6.3 Event List 2021-22

1.	10.07.2021	Entrepreneurial Awareness Meetup	Mr.T.C.Sankar., A.P/MCA, SVCET, Thiruvallur
2	30.09.2021	Aispiring entrepreneurs program 2021 Under the aegis of Ict academy.	ICT Academy
3	14.10.2021	Entrepreneur Cluster Development Talk (ECDT)	Ms. Syedali Fathima., Team lead, Accenture pvt ltd, Chennai
5.	11.11.2021	Entrepreneurship Programme Student Induction Programme 2021-22	Mr.mohammed adhil, Founder & CEO Ifelse Technologies,Chennai
6.	18.11.2021	Entrepreneurial Talk	Asst. Prof. M.Rabbek, CEO, SYPAA, Chennai

B. Data on Students Benifitted

Table 9.6.4 List of Entrepreneurs

DEPARTMENT	NO. OF ENTERPRENEURS
MECHANICAL	4
ECE	2
CSE	2
IT	4



Figure 9.6.1 Entrepreneurship Development by Er.Mohammed Adhil Founder & CEO, Ifelse Technologies, Chennai

Table 9.6.11 ED Cell Web link

ENTREPRENEURSHIP DEVELOPMENT CELL	https://www.aalimec.ac.in/facilities/entrepreneurship-development-cell/
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9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

A. Availability of Sports and Cultural facilities

The institution has the strategy to identify and cultivate the talents among the students. At the beginning of every academic year during the induction program students are informed about facilities and opportunities to exhibit their talent by participating in extra-curricular and co-curricular activities. Strategies for scouting and fostering the talents in sports, cultural activities and quiz/competition are by hosted in our institution and also by participating in other institutions and University programs.

Following are some of the strategies adopted to promote student's participation in extra-curricular and co-curricular activities. Students are allowed to participate in various intra and inter institution competitions like Technical quiz, Symposiums etc., to develop their competition skills. Seminar halls & Auditoriums are available for performing student activities.

Table 9.7.1 CO-CURRICULAR ACTIVITIES

S.NO	CO-CURRICULAR ACTIVITIES	
1.	ROBOTICS CLUB	Dr.A.MOHANASUNDRAM., M.E., PhD Asst.Prof., EEE, Aalim Mohammed Salegh College of Engineering
2.	ENGLISH LITERARY AND INNOVATIVE FORUM (ELIF) CLUB	Ms.C.ABHINAYA., M.A., M.Phil Asst.Prof., English, Aalim Mohammed Salegh College of Engineering

1. ROBOTICS CLUB

The Aalim Mohammed Salegh College of Engineering has given high preference and exposure to the student community in the field of ROBOTICS. The Students have participated in the various Robotic competitions held at IITs, NITs, Anna University and other reputed institutions all over the country.



Figure 9.7.1 Robotics Workshop for the Students

2. ENGLISH LITERARY AND INNOVATIVE FORUM (ELIF) CLUB

English Literary and Innovative Forum (ELIF) aims to enhance the creative writing and communication skills of the students by conducting various Language activities such as Essay writing, Elocution, Debate etc.,

English Literary and Innovative Forum (ELIF) Members

Asst.Prof. C. Abhinaya - Convener

Asst.Prof. K. Nishanth - Co-Convener

Asst.Prof. S. Gopikha - Member

Asst.Prof. S. Sajidha Begum - Member

English Literary and Innovative Forum (ELIF) under the aegis of the Department of Science and Humanities has conducted a one-day event, Young Flames'22 for the first, second and third year students of all the Engineering disciplines on 28 MAY 2022, at Dr. A.P.J. Abdul Kalam Auditorium. The students had actively enrolled their names in the following competitions conducted on the one-day event:

Debate

Shipwreck

Stress Interview

Just a Minute (JAM)

The Principal awarded the overall trophy to the Department of Computer Science and Engineering which achieved the maximum number of winners.



Figure 9.7.2 Young Flames'22 Poster

Table 9.7.2 EXTRA-CURRICULAR ACTIVITIES

S.NO	EXTRA-CURRICULAR ACTIVITIES	
1.	PHYSICAL EDUCATION DEPARTMENT	1. Mr.G.Vinoth Kumar., M.P.Ed. M.Phil., M.Sc (Yoga), P.G.Dip.F.W.N.I.S
2.	NATIONAL SERVICE SCHEME (NSS)	Dr.K.Suresh Kumar., M.Sc., M.Phil., PhD., NSS Programme Officer
3.	YOUTH RED CROSS (YRC)	Mr.K.Shagul Hameed., M.Sc., M.Phil., (PhD) YRC Programme Officer
4.	NATIONAL CADET CORPS (NCC)	Mr.G.Vinoth Kumar M.P.Ed. M.Phil., M.Sc (Yoga), P.G.Dip.F.W.N.I.S NCC Officer

1. PHYSICAL EDUCATION DEPARTMENT

The Physical Education Department, monitored and marshaled by G.Vinoth Kumar , Physical Director for overseeing the Sports activities and periodical sports trainings for the Faculty members and Students.

Table 9.7.3 INDOOR AND OUTDOOR FACILITIES

S.No	OUTDOOR FACILITIES	INDOOR FACILITIES
1	Cricket Ground	Table Tennis
2	Volleyball Court	Weight Lifting
3	Badminton Court	Indoor games
4	Basketball court	GYM facilities
5.	Kabbadi	

ADDITIONAL ACADEMIC SUPPORT

Students represented by State/Nationals are given scholarships during Admissions. ON-Duty will be granted to students, when they represent the Institution, University or National level sports as well as Cultural events.Special classes and Internal assessment tests are conducted for those students who tend to miss their regular academic classes on account of Extracurricular and Co- curricular activities.

SPECIAL DIETARY REQUIREMENTS, SPORTS UNIFORM AND MATERIALS

Special dietary requirements, sports uniform and materials are provided, during practice and match sessions.Uniforms and ID cards are provided to all sports teams representing the institution. Sports materials and kits are provided.During practice and contest, TA and DA are given as per the norms fixed by the Sports Committee.



Figure 9.7.3 Aalim Muhammad Salegh College of Engineering has organised Anna University Zone-1 Volleyball (women) on 19/11/2022. Basketball (Men/Women) Tournament on 22/11/2022 and 23/11/22.



Figure 9.7.4 The winners and runners were honoured by our college Secretary and Correspondent in the presence of Trustee & Administrator and Principal. Zonal secretary and Physical Directors of various colleges they encouraged the players and given prizes



Figure 9.7.5 Anna university Zone-1 Football tournament were organized by Vel Tech High Tech Engineering College on 6/12/22 and 7/12/22 and we are proud to share this moment that our college football team won the tournament. The Management and Faculty members of Aalim Mohammed Salegh College of Engineering congratulated all the winners.

Table 9.7.4 Sports Events Conducted by Physical Education Department

ACADEMIC YEAR	SPORTS EVENTS CONDUCTED BY PHYSICAL EDUCATION DEPARTMENT
2021-2022	03
2020-2021	04
2019-2020	10
2018-2019	10

Table 9.7.5 Physical Education Department Weblink

PHYSICAL EDUCATION	https://www.aalimec.ac.in/departments/physical-education/ (https://www.aalimec.ac.in/departments/physical-education/)
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B. NSS,NCC and other clubs

2. National Service Scheme (NSS)

National Service Scheme is a student centric programme. It is a noble experiment in Academic extension. It inculcates the spirit of voluntary work among Students and teachers through sustained community interaction. It brings the academic institutions closer to the society. It is a link between the campus and community, the college and village, knowledge and action. In our Institution, NSS Students have undertaken various Programmes by adopting five nearby villages. (Palavedu, Pakkam, Puliur, Kadavur, Pandeswaram). NSS volunteers have served 120 hours per year and 240 hours for 2 consecutive years and seven days Special Camp by organizing several events such as Rashtriya Ekta Diwas, Swachh Bharat Abhiyan, Special Medical camp, International Day of Yoga, Unnat Bharat Abhiyan (UBA) Rural Visit, National Deworming Day, Azadi ka Amrit Mahotsav.



Figure 9.7.6 Students performing Yoga on International Day of Yoga

Unnat Bharat Abhiyan (UBA), a flagship programme of Ministry of Human Resource Development (MHRD), Govt. of India. Higher educational institutions (HEIs) of the country adopt villages for their development. Faculty and students to be involved in village development plan in collaboration with district administration. Aalim Muhammed Salegh college of Engineering is participating in UBA and adopted following villages for their development in collaboration with district administration. 1. PALAVEDU 2. PAKKAM 3. PULIUR 4. KADAVUR 5. PANDESWARAM.



Figure 9.7.7 Student rural visit in Palavedu village, Tiruvallur Dist



Figure 9.7.8 UBA poster

Table 9.7.6 Events organized By NSS

ACADEMIC YEAR	EVENTS ORGANIZED BY NSS
2022-2023	11
2021-2022	15
2020-2021	10
2019-2020	16
2018-2019	15

Table 9.7.7 National Service Scheme Weblink

NSS	https:// (https://www.aalimec.ac.in/nss/)www.aalimec.ac.in/nss/ (https://www.aalimec.ac.in/nss/)
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C. Annual Students Activities

Table 9.7.8 Academic Year 2022-23 Event/ Activities

S.NO.	NAME OF THE EVENT / ACTIVITY	DATE	NO.OF PARTICIPANTS	NO.OF PEOPLE BENEFITED
1	NATIONAL DEWORMING DAY	14.02.2023	5	265

2	UNNAT BHARAT ABHIYAN (RURAL VISIT)	10.11.2022 TO 17.11.2022	10	500
3	WELFARE SCHOOL VISIT	10.11.2022	5	30
4	MEDICAL AWARENESS PROGRAMME	14.11.2022	10	270
5	RASHRIYA EKTA DIWAS (NATIONAL UNITY DAY)	31.10.2022	10	1100
6	NSS DAY 2022 CELEBRATION	24.09.2022	50	200
7	NATIONAL DEWORMING DAY	09.09.2022	5	250
8	AZADI KA AMRIT MAHATSAV 2022	11.08.2022 TO 13.08.2022	50	1100
9	INTERNATIONAL DAY OF YOGA	21.06.2022	5	250
10	MASS CLEANING PROGRAMME	11.06.2022	25	Deena Dayalan Nagar, pattabiram,
11	ROLE OF YOUTH IN FUTURE INDIA	04.06.2022	5	260

3. YOUTH RED CROSS (YRC)

The Indian Red Cross Society is made up of Young volunteers who can make a significant contribution by meeting the needs of the most vulnerable people within their local communities through the Red Cross youth programme (YRC). The students of Aalim Muhammed Salegh College of Engineering are a part of it. Blood donation programmes are actively participated by the students.



Figure 9.7.9 Blood Donation certificate

Table 9.7.9 STUDENTS PARTICIPATED IN YRC EVENTS

ACADEMIC YEAR	STUDENTS PARTICIPATED IN YRC EVENTS
2022-2023	14 (Blood Donations)
2021-2022	15 (Blood Donations)
2020-2021	10 (Blood Donations)
2019-2020	18 (Blood Donations)

Table 9.7.10 YOUTH RED CROSS WEBLINK

YRC	https://www.aalimec.ac.in/yrc/ (https://www.aalimec.ac.in/yrc/)
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4. NATIONAL CADET CORPS (NCC)

The NCC of I(TN) CTC Battalion NCC Unit (Army Wing), Madras ‘B’ group had established on 10th December 2021 in the College campus, Male and female students of Aalim Muhammed Salegh College of Engineering are a part of it. The enrolled students should undergo three years training continuously, before the Degree course. Eligible cadets will be trained to appear for ‘B’ and ‘C’ certificate Examinations.

The Aim of the NCC:

To develop character, comradeship, the Ideal of Service and the capacity for Leadership in Young cadets. To provide service training to young cadets so as to stimulate interest in the Defense sector of the Country. To build up a reserve of potential officers so as to enable the Armed forces to expand rapidly in a National emergency. Our NCC Cadets are undergoing rigorous training in regular Parades, conducted thrice in a week and nutrient diet provided on the day of training . They have actively organized and participated in various events such as Puneeth Sagar Abhiyan, Jallianwala Bagh Massacre Remembering Day, Role of youth in Future India, International Yoga Day. 12 Cadets have successfully completed NCC ‘B’ Certificate Examination which was held on 11th and 12th of February 2023 in Loyala College, Chennai. In the Academic year 2022 – 2023, 19 students from both genders were enrolled in the NCC.



Figure 9.7.10 NCC Flag Raising ceremony



Figure 9.7.11 NCC Students collecting the plastic and other waste products in Marina Beach

Table 9.7.11 STUDENTS PARTICIPATED IN NCC EVENTS

ACADEMIC YEAR	EVENTS ORGANISED BY NCC
2022-2023	01
2021-2022	04

Table 9.7.12 YOUTH RED CROSS WEBLINK

NCC	https://www.aalimec.ac.in/national-cadet-corps/ (https://www.aalimec.ac.in/national-cadet-corps/)
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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 :	
The College with Cutting-edge Excellence in Learning, Teaching and Research integrates Academia, Industry and National Progress.	
Mission :	
MISSION - 1	To offer Project based learning for all the Subjects beyond the Syllabus
MISSION - 2	To create Multidisciplinary and Interdisciplinary Research Environment among the Students through solving complex Social Technical Problems
MISSION - 3	To motivate Faculty Members and Students to undergo MOOC Courses and Certifications.
MISSION - 4	To collaborate with Academia and Industry for Intellectual ambience to develop intellectual environment holistically and improve Human Capabilities.

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

Institute Marks : 10.00

A. Governing body composition, senate, and all other academic and administrative bodies; their membership, functions, and responsibilities; frequency of the meetings; participation details of external members and attendance therein.

Administrative Bodies-Governing Council

Governing Council comprises of Management delegates and members drawn from distinguished cross sections of the society. The Governing Council meets before the onset of every academic year. Previous year Occurrence and Forthcoming year requirements and Budgets will be discussed.

ORGANIZATION CHART

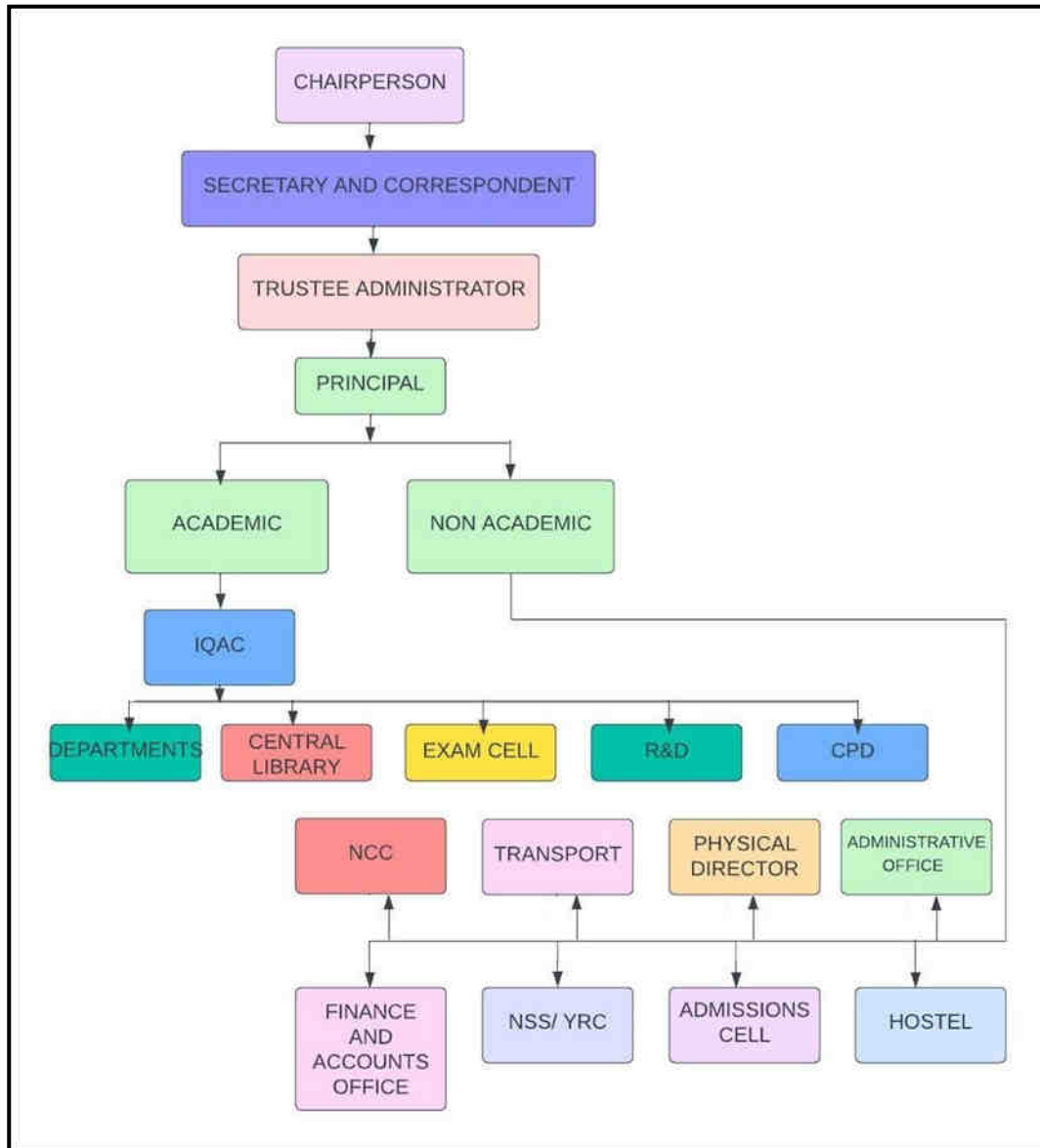


Figure 10.1.2.1 Organization Chart

Table 10.1.2.1. Governing Council

S. NO	Name	Designation	Position
1	Ms. Ahamed Nasrin	Vice Chairperson	Chairman
2	Mr. S. Segu Jamaludeen	Secretary & Correspondent	Member
3	Mr. T.S.K Shaik Fareed	General Manager	Member
4	Mr. Shaik Athaullah	Trustee Administrator	Member
5	Prof. Dr. S. Sathikh, Former Vice Chancellor, University of Madras, Chennai.	Academician	Member
6	Prof. Dr. S. Sathish	Principal	Ex Officio & Member
7	Prof. Dr. M. Afzal Ali Baig	HOD / Dept. Of Civil Engg.	Ex Officio & Member
8	Prof. Dr. N.R. Shanker	Director, IQAC	Ex Officio & Member
9	Prof. Dr. S.B Mohan Professor/EEE SA Engineering College, Chennai.	Academician	Member
10	Dr. Rajesh Kunnath	Industrialist	Member

ACADEMIC COMMITTEE:

The academic Committee of the Institution comprise of Principal, Heads of the Department and the Coordinator of various Committees supervises all the academic activities of the Institution. The Committee meets every six months once to discuss and to take decisions on academic matters. The Minutes of these meetings are shared to all the faculty members through Head of the departments.

Table 10.1.2.2 Academic Committee

S.No	Name	Designation	Position	Role
1	Dr. S. Sathish	Professor	Principal	Chairman
2	Dr. N.R.Shanker	Professor	Director IQAC	Member
3	Dr. S. Arif Abdul Rahuman	Associate Professor	Head/IT	Member
4	Dr. A.S. Salma Banu	Associate Professor	Head/ECE	Member
5	Dr. S. Ramkumar	Associate Professor	Head / MECH	Member
6	Er. M. Ahsan Sheriff	Assistant Professor	Head/CSE	Member
7	Er. M.S Rajan	Assistant Professor	Head/EEE	Member
8	Dr. M. Afzal Ali Baig	Professor	Head/CIVIL	Member
9	Ms. A. Ashma	Assistant Professor	Head/S&H	Member
10	Dr. K. Suresh Kumar	Associate Professor	NSS Programme Officer	Member
11	Er. K. Khaja Mohideen	Assistant Professor	ED Cell Coordinator	Member
12	Er. P. Muni Raja Chandra	Assistant Professor	Exam Cell Coordinator	Member
13	Dr. A. Saleem	Librarian	Admissions Coordinator	Member
14	Mr. R. Ravikumar	Head	CPD Cell Coordinator	Member
15	Dr. Mariamma Alex	Chief Librarian	NCC Officer	Member
16	Mr. G. Vinoth Kumar	Physical Director	Physical Director	Member
17	Er. Abdullah B	Campus Manager	Campus Manager	Member



Figure 10.1.2.2 Academic Committee held on 05.01.2023 at IQAC

FUNCTIONS OF VARIOUS COMMITTEES

All cognitive academic committee are designed and constituted by the Principal. The committees are

Table 10.1.2.3 Various Committees and its role

S. No	Name of the Committee / Cell	Purpose of the Committee / Cell	Frequency of Meeting
1	IQAC	IQAC plays a crucial role in ensuring that the institution maintains high standards of quality in all its academic and administrative processes. It guides the institution to continuously improve and innovate in its pursuit of excellence in education practices	General Meeting once in a Academic year
3	Research and Development Cell (R&D)	Research and Development Cell of our Institution is the foundation head to imbibe scientific temper among the students and young Faculty Members by delivering periodical lectures by the Director of the Cell.	General Meeting twice at the end of every Semester
4	Career Planning Development Cell (CPD Cell)	The main emphasis of the Career Development Cell is the processes for career development – career awareness, career exploration.	General Meeting Once in a Academic year
5	Industry Institute Interaction Cell	To bridge the gap between the industry, the real world and the institute.	General Meeting twice in a Academic year
6	Discipline Committee	Discipline Committee of our Institution is responsible for developing, implementing and monitoring the policies of the Institution and to take disciplinary actions.	General Meeting Once in a Academic year and Circumstantial meeting if necessary
7	Anti-Ragging Committee	Anti Ragging Committee in its place very agile having an eagle's eye on the movement of the students during the induction of fresh batches to arrest the nagging and Ragging and on record campus free from any mishap.	General Meeting Once in a Academic year and Circumstantial meeting if necessary

8	Hostel & Mess Committee	To Keep a check on the daily issues regarding the hostel amenities, housekeeping, mess facilities, quality of food, etc. and ensures an enriching stay at the campus.	General Meeting Once in a Academic year and Circumstantial meeting if necessary
10	Transportation Committee	Drawn from Students, Staffs and Motor Vehicle Drivers to take the stock of pick up and drop, safe driving etiquettes of public road are taking cognizance and formulated all safety norms for the bus commuters	General Meeting Once in a Academic year
11	SC/ST welfare Cell	To create a platform where students can point out their problems, regarding academic and non academic matters. To monitor the implementation of reservation policy in the institution.	General Meeting Once in a Academic year and Circumstantial meeting if necessary
12	Women welfare Committee	To investigate all the complaints / charges thoroughly & professionally within stipulated time. To ensure confidentiality & time bound response to the complaints & build confidence about impartially.	General Meeting Once in a Academic year and Circumstantial meeting if necessary
13	Extra-Curricular Activities Committee	To garner Comradely and Humane Values towards making holistic society and the Nation	General Meeting Once in a Academic year
14	Newsletter & Magazine Committee	To conduct meetings in order to organize different events. To collect the data from different departments i.e., Student & Faculty members staff achievement.	General Meeting twice in a Academic year

B. The Published Service Rules, Policies and Procedures with Year of Publication

Code of Conduct Core Values

- 1) The College published a hand book with the guidance of the Governing Council enumerating all service rules and regulations.
- 2) Awareness created every year on all subjects of the organization by placing the rules and regulations of the college, promotional and recruitment policies in the website.

Recruitment Process

1. Recruitment procedure is very transparent and competency is the criteria.
2. The recruitment of the teaching cadre is direct by nature drawn from open society as per the norms of AICTE and Affiliating University
3. Cadre promotions are awarded as per norms of AICTE and Affiliating University.

Resignation by Employees

1. Every candidate employed in the college will be considered for a minimum of one year as a probationary period. .
2. He / She shall be relieved only at the end of the academic year.
3. They should give three months prior notice after getting relieved from the Institution.

Employee Welfare and Promotion Policy

The College has a Self-Appraisal Method to evaluate the performance of the faculty in Teaching, Research and Extension programs. At the end of the academic year, every faculty member submits the Self Appraisal Form duly endorsed by the Head and is evaluated on the basis of academic credentials, research contribution, quality enhancement, campus life enrichment, contribution to the university work and extensions services.

The administration, through IQAC, encourages the faculty members to upskill their knowledge and transfer it to the Students.

The institution has the provision of EPF and contributes the eligible amount to the respective account.

Gratuity

Every staff of the institute is provided a gratuity after his/her tenure.

Personal Accidental Insurance

College has taken an initiative to have group insurance for those who are willing to be a part of this initiative.

Soft Loan

The Institute offers interest free Soft loans to the necessitous Employee promptly which can be repaid on monthly basis.

Maternity Leave

College renders a maternity leave to women staff as per the rules of the government.

Medical Health Care Centre Facility

Dr. Glory, M.B.B.S. has been appointed as Medical Officer to take care of all the stakeholders of the campus.

Promotions

Faculty members are promoted based on the qualification, services, and outcome of the performance appraisal.

Publication Incentives

Incentives are given to the faculty members to participate in National and International conferences and also for publications.

Sponsorship for higher studies

Faculty members are granted with On Duty for pursuing their Higher Education.

Retirement

- 1.The faculty and Principal shall retire from service in accordance with the age fixed by AICTE.
- 2.The age of retirement of all Faculty members and Principals / Directors of institutions shall be 65 years. An extension of 5 years (till the attainment of 65 years of age) may be given to those faculty members who are physically fit, have written technical books, published papers and have average 360⁰ feedback of more than 8 out of 10 indicating them being active during the last 3 preceding years of service.
- 3.If the date of retirement is during the month, the incumbent can continue in service till the end of that month.

C. Minutes of the meetings and action-taken reports

The Circular, Minutes of Meeting and the necessary action taken report are filed in the respective folders. The Conveners, Co-Conveners and members of various committees will take action on different issues to rectify and resolve the problem which was given below

Action taken reports of Various Committees

Table 10.1.2.4. Anti-Ragging Committee

Academic Year	Issues	Action Taken
2019-2020, 2020-2021, 2021-2022 & 2022-2023	Nil	Anti Ragging Awareness programme was conducted every year and Posters has been displayed in Common Venues.



Figure 10.1.2.3 Display Of Anti Ragging Poster in Department Notice Board

Table 10.1.2.5. Transport Committee

Academic Year	Date	Issue	Action Taken
2022-2023	20.12.2022	Departure of Valluvar kottam route bus before the scheduled time	Bus Driver was summoned and advised to maintain the scheduled timings by Principal and Transport committee In charges
	30.01.2023	Non proper stoppage of Mathur Bus at appropriate point	Bus Driver was summoned and advised to maintain the scheduled timings by Principal and Transport committee In charges
2021-2022	22.12.2021	Change of Boarding and Dropping place due to Metro Rail work	The Transport In charge was instructed to follow the approved schedule for Boarding and Dropping points.

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
MUTHAPUDUPET, AVADI IAF, CHEENAI-600055
TRANSPORT COMMITTEE ACTION TAKEN REPORT
Date & Day: 20.12.2022 (Tuesday)

OBSERVATIONS	ACTION TAKEN
Valluvar Kottam route bus departs from the point before the stipulated time .	Committee members along with Principal and Transport Supervisor advised the bus driver to start the bus at the scheduled time and maintain the timings for the points.




 Co-Convenor
 Convenor
 Principal

Figure 10.1.2.4 Transport Committee Action taken report

Table 10.1.2.6. Mess Committee

Date	Issues	Action Taken
26.10.2022	Drinking water (RO) is disrupted.	Plumbing done and the facility was restored.
	Quality of Vegetable supplied questioned	Complaint verified and enquired. Vegetables were moderately fresh and advised for correction
	Mess timings to avoid ragging	For a ragging Free Environment, Mess Timings both Lunch as well as Evening Snacks Timings were changed.
	Follow for the purchase of Vegetables and meat	A separate Note is maintained for the Entry of the Meat as well as Vegetables and duty was allotted to the Caretaker
	Quality of Milk questioned	Store in charge was provided with Lactometer to assess the quality of Milk.
06.08.2021	Hand Sanitizer got displaced due to cranky habits of students	Ensured placed Hand sanitizer in right place and to follow up.
	Maintaining of COVID-19 SOPs	Instructed the Mess In-charge to adhere the SOPs
	Social Distance markings are not proper	Campus manager was informed about the markings





AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING MUTHAPUDUPET, AVADI IAF, CHEENAI-600055 MESS COMMITTEE ACTION TAKEN REPORT		
Date & Day: 26.10.2022 (Wednesday)		
OBSERVATIONS	ACTION TAKEN	
<ol style="list-style-type: none"> 1. RO drinking water availability should be ensured. 2. Delayed purchasing of Groceries. 3. Instruction was given to Committee members to change the Mess timings to avoid ragging. 4. Follow up should be maintained for the purchase of Vegetables and meat 5. Quality of Milk Purchased has to be verified 6. LPG Cylinder Purchase to be done before two days. 	<ul style="list-style-type: none"> • A Separate R.O. Line was installed for the dining hall. • Purchase of Groceries is done in One Week advance to avoid any deficit in the Store. • For a ragging Free Environment, Mess Timings both Lunch as well as Evening Snacks Timings were changed. • A separate Note is maintained for the Entry of the Meat as well as Vegetables and duty was allotted to the Caretaker. • Milk quality was ensured with the help of Lactometer and the readings were entered for follow up. • LPG Cylinder delivery is maintained in a separate Note for Effective follow up. 	
 Co-Convenor	 Convenor 26/10/22	 Principal 26/10/22


Figure 10.1.2.5. Mess Committee Action taken report

Table 10.1.2.7. Hostel Committee

Date	Issues	Action Taken
12.12.2020	Hand Sanitizer setup is not available in mens hostel and ladies hostel.	To purchase the new Hand Sanitizer setup, campus manager was called and instructed to put a purchase order
	Due to Pandemic, floors are stained and dust	Sweepers are instructed to clean all the floors and rooms which was supervised mess supervisor
10.08.2021	Hand Sanitizer setup damaged in First year mens hostel	Campus manager was informed about the damage in Hand Sanitizer Setup and instructed to rectify it before the commencement of first year classes
	Basic amenities such as Fan and Light are not working in few rooms. In few rooms damaged cots also found	Electrician was called and shown the non-working fans and light which was rectified on the spot. Damaged cots were replaced with a new one by campus manager
02.11.2022	Basic amenities such as Fan and Tube light were not working in few rooms	Electrician was called and shown the identified non-working Fan and Tube light which were rectified on the spot
	In few rooms it was found that some cots were damaged	The damaged cots were replaced with a new one by our campus manager
	Hand Sanitizer setup damaged in First year mens hostel	Campus manager was informed about the damage in Hand Sanitizer Setup and instructed to rectify it before the commencement of first year classes
	Allotment of rooms in the ground floor for first year 2022-23 batch in hostel were discussed	Rooms have been allotted in the ground floor for first year 2022-23 batches in hostel




AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
MUTHAPUDUPET AVADI, CHENNAI - 600 055.




HOSTEL COMMITTEE ACTION TAKEN REPORT

Date: 02.11.2022

Observations	Action Taken Report By Warden
<ol style="list-style-type: none"> 1. Basic Amenities such as Fan and Tube light were not working in few rooms. 2. In few rooms it was found that some cots were damaged. 3. Hand sanitizer setup damaged in First year Men's Hostel. 4. Allotment of rooms in the ground floor for first year 2022-23 batch in hostel were discussed. 	<ul style="list-style-type: none"> • Electrician was called and shown the identified non working Fan and Tube light which were rectified on the spot. • The damaged cots were replaced with a new one by our Campus Manager. • Campus Manager was informed about the damage in hand sanitizer setup and instructed to rectify it before the commencement of First year Classes. • Rooms have been allotted in the ground floor for first year 2022-23 batches in hostel.



Warden




2/11/2022
Principal

Figure 10.1.2.6 Hostel Committee Action taken report

Table 10.1.2.8. Discipline and Welfare Committee


Academic Year	Date	Issue	Action Taken
2022-2023	19.01.2023	Students coming late after break time.	Canteen In charge was instructed to stop the sales at 10.50 am. For first year students, separate sales point will be made at first year block.
	19.01.2023	Some students were not adhering the rules of the Institution such as Punctuality, Wearing the ID cards, Hairdressing and Formal dress code	Defaulters will be counseled by the respective Counselors and informed to their parents in needed. Student with improper Haircut will be sent back and allowed only after dressing their hair properly.
	19.01.2023	Regularity	The Student was counseled by the Counselor and also informed to the parents about required attendance percentage for semester examination.
	19.01.2023	Usage of Mobile Phone in working hours	Department wise Mobile Phone checking squads was formed to check the students possessing Mobile Phones and will be seized if it is in switched on mode

2021-2022	24.11.2021	Few Students were not following COVID 19 SOPs such as Wearing mask and Social distance.	Students were given awareness class wise about the COVID 19 SOPs by Dr. Suresh Kumar, NSS Programme Officer Awareness posters had been displayed in common venues.
	24.11.2021	A few students are not adhering to the institutions standards regarding formal dress code, hairstyles, wearing ID cards, and punctuality	The Class In charges and Class Counselors are instructed by the HOD to Counsel the defaulters to follow the rules of the college.
	24.11.2021	Regularity	The Student was counseled by the Counselor and also informed to the parents
	24.11.2021	Usage of Mobile Phone in working hours	To check students possession of mobile phones and seize them if they are turned on, department-specific mobile phone checking squads were established.



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MUTHAPUDUPET, AVADI IAF, CHENNAI - 600055



Discipline and Welfare committee

Action Taken Report

Date: 19.01.2023

Observations	Action Taken Report by Principal
1) Students coming late after break time.	<ul style="list-style-type: none"> ➤ Canteen In charge was instructed to stop the sales at 10.50 am. ➤ For first year students, separate sales point will be made at first year block.
2) Some students were not adhering the rules of the Institution such as Punctuality, Wearing the ID cards, Hairdressing and Formal dress code	<ul style="list-style-type: none"> ➤ Defaulters will be counseled by the respective Counselors and informed to their parents in needed. ➤ Student with improper Haircut will be sent back and allowed only after dressing their hair properly.
3) Regularity	The Student was counseled by the Counselor and also informed to the parents about required attendance percentage for semester examination.
4) Usage of Mobile Phone in working hours	Department wise Mobile Phone checking squads was formed to check the students possessing Mobile Phones and will be seized if it is in switched on mode

Amara Shree V
19/01/2023
Co-convenor

Prin
19/01/23
Convener

Sathya
19/01/2023
Principal

Figure 10.1.2.7 Discipline and Welfare Committee Action Taken Report

Decentralization

Decentralization in working and grievance redressal mechanisms refers to the process of delegating decision-making power and authority to lower levels of an organization or society. This approach aims to promote greater participation, accountability, and efficiency in the management of work and resolution of grievances.

The Administrative structure of the Institute clearly depicts the decision tree and chain of command. The Institution was spearheaded by the Chairperson and followed by Secretary & Correspondent, Trustee administrator and Principal. Daily Academic activities are administered by the Principal with the support of all Head of Departments. The Principal guides and monitors Academic, Non-academic and co-curricular activities of the Institute.

Heads of the Department are second line administrators actively support and execute the decision with the Coordination of Faculty members. Heads of the Department are empowered with the desired freedom of administration in decision taking in consultation with the Faculty Members. Other activities related to Curricular, Co Curricular and Extra-curricular will be approved by the Principal in concurrence with the concerned department Heads.

A. List of names of the faculty members who have been delegated powers for taking administrative decisions.**Table 10.1.3.1 Delegation of powers**

S.No	Name	Roles and responsibilities
1	Principal	The Principal provides academic and administrative leadership that involves enhancing academic policies and research ensuring high academic standards of the Institution, Finance and Infrastructure management
2	Director IQAC	Responsible for ensuring high quality of the Institution to meet the accreditation standards of NBA and NAAC, preparing the SAR and AQAR.
3	Head of the Department	The HODs responsible for the recruitment and evaluation of Faculty members, Welfare of the students and Department Management.
4	Exam Cell Coordinator	The Exam Cell Coordinator is responsible for the smooth conduction of Anna University examination process.
5	Librarian	librarians play a vital role in supporting academic success and fostering a culture of learning within the college community.
6	Career Planning and Development Cell Coordinator	To assist the students developing their academic, career of interests, and their goals by provide various skill developmental training to the students and to Conduct on and off campus interviews
7	Entrepreneurial Development Cell Coordinator	To create awareness regarding entrepreneurship as a career option through conducting ED programs and arranging interactions with Alumni Entrepreneurs with the students of the Institution
8	Physical Director	The Physical Director is responsible for ensuring the sports facilities, developing sports programs that promote physical fitness and wellness among students by organizing intramural sports leagues, hosting intercollegiate sports competitions, and offering fitness classes.
9	Admissions Coordinator	Admission Coordinator is responsible for planning and coordinating admissions events, supervising the application process, reviewing applications, providing information about the institution or program to the applicants and Inquirer.
10	NCC Officer	NCC Officers are responsible for training and mentoring cadets in various disciplines, organize camps.
11	NSS Programme Officer	The NSS programme officer is responsible conducts and supervises NSS activities and maintaining records
12	YRC Programme Officer	The YRC Programme Officer is responsible for developing and implementing YRC activities in the such as organizing awareness campaigns, health camps, blood donation drives and other initiatives to promote humanitarian values among young people.
13	Campus Manager	Assist management with accurate information as required for all campus associate activities and initiate decisions.

B. Specify the mechanism and composition of grievance redressal cell**Grievance Redressal Cell**

After meticulous inquiry genuine grievances are addressed and confident level restored of the complainant

Table.10.1.3.2 Women Grievances cum Redressal Committee

S.No	Name	Designation	Role
1	Dr. A.S. Salma Banu	Assoc. Professor	Faculty
2	Mrs. Bhuvanewari Raja	Asst. Professor	Faculty
3	Dr.P. Kamala Glory	Medical Officer	Campus Medical Officer
4	Dr.V. Uma	Social Worker	Suyam , Managing Trustee

Table.10.1.3.3 Discipline and Welfare Committee

S.No	Name	Designation	Role
1	Dr. S. Sathish	Principal	Chairman
2	Dr.M. Afzal Ali Baig	Head/Civil	Member
3	Dr.S.Ramkumar	Head/Mech	Member
4	Er.M.S.Rajan	Head/EEE	Member
5	Ms. A. Ashma	Head/S&H	Member
6	Ms. Bhuvanewari Raja	Student Counsellor (Faculty)	Convener
7	Er. G. Arun	Deputy Warden of Men's Hostel	Member
8	Dr. A. Saleem	Deputy Warden of Men's Hostel	Member
9	Ms. V. Amarshree	Deputy Warden of Women's Hostel	Member
10	Dr. A. S. Salma Banu	Lady faculty member	Member

Table.10.1.3.4 Anti-Ragging Committee

S.No	Name	Designation	Role
1	Prof. Dr. S. Sathish	Principal	Chairman
2	Mr. D. RAJI	Police Inspector	Member
3	Mr. Joei Doss S	Revenue / Taluk / Civil / Officers	Member
4	Mr.T.R.Sarathivasan	Official of NGO	Member
5	Mr. A. Parthasarathy	Representatives of Parents	Member
6	T. Mohammed Saleem	Representatives of Students	Member
7	S. Mohamed Hamdhan	Representatives of Students	Member
8	Mr. S. Babu	Representatives of Non-Teaching	Member



Figure 10.1.3.1 A Comprehensive Meeting (21.09.2022) with The Inspector Of Police (Muthapudupet) regarding the behaviour of the Students in Public Places and the ill effects of Ragging

10.1.4 Delegation of financial powers (10)

Institute Marks : 10.00

A. Delegation of financial Powers.

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

Table 10.1.4.1 DELEGATION OF FINANCIAL POWER

Designation	Extent of Financial Power (Rs.)
Principal	50,000
Head of the departments	25,000
Co-ordinators like NSS, NCC, etc.	10,000

B. Demonstrate the utilization of financial powers for each of the assessment years.

1. Principal is empowered to approve the expenditures incurring academic procurements, Laboratory tools and books for Library
2. Head of Departments are empowered to spend the expenditures incurring academic procurements.
3. Officers in charges of the extracurricular services such as NCC, NSS, YRC and Physical Education are delegated with the powers to meet the Organizational expenditure at their discretion.

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

Institute Marks : 5.00

Transparency and availability of correct/unambiguous information in the public domain.

Aalim Muhammed Salegh

College of Engineering website provides information about vision & mission of the Institution, Course details, Infrastructure, Faculty Members details, Students details, Placement activities, Training Programs, Alumni Association activities, Faculty and Students achievements, College admission brochure, Research activities, Journal Publication of Faculty Members and Social activities

The details of various activities in the college and achievements of faculty and students in various inter-college, national and international level events are posted in the college website and available in the following link:

A. Information of the policies, Rules, processes is to be made available on website.**Table.10.1.5.1. Website Link**

S. No	Item/Article	Link
1	Code of Conduct	https://www.aalimec.ac.in/about-us/ (https://www.aalimec.ac.in/about-us/)
2	HR Manual	

Transparency is also maintained and all information about the college, decisions taken, rules and regulations implemented, events organized etc, are disseminated through the college mail to all faculty members and students. Every faculty and student members are facilitated with an Email account for the sharing of information.

B. Dissemination of the Student and Staff Information:**Table 10.1.5.2 Website link for all programs**

S. No	NAME OF THE DEPARTMENT	URL ADDRESS
1	COMPUTER SCIENCE AND ENGINEERING	http://www.aalimec.ac.in/departments/cse/ (http://www.aalimec.ac.in/departments/cse/)
2	ELECTRONICS AND COMMUNICATION ENGINEERING	https://www.aalimec.ac.in/departments/ece (file:///C:/Users/Administrator/Downloads/%C2%A0 https://www.aalimec.ac.in/departments/ece/)
3	MECHANICAL ENGINEERING	https://www.aalimec.ac.in/departments/me/ (https://www.aalimec.ac.in/departments/me/)
4	CIVIL ENGINEERING	https://www.aalimec.ac.in/departments/ce/ (file:///C:/Users/Administrator/Downloads/%20 https://www.aalimec.ac.in/departments/ce/)
5	INFORMATION AND TECHNOLOGY	https://www.aalimec.ac.in/departments/it/ (https://www.aalimec.ac.in/departments/it/)
6	ELECTRICAL AND ELECTRONICS ENGINEERING	https://www.aalimec.ac.in/departments/eee/ (https://www.aalimec.ac.in/departments/eee/)

Transparency in other curricular matters:

All the curricular matters are published in the website and the few links are given below.

Events:

<https://www.aalimec.ac.in/departments/me/events/> (<https://www.aalimec.ac.in/departments/me/events/>)

Club Activities:

<https://www.aalimec.ac.in/club-activities/>

Research:

<https://www.aalimec.ac.in/research/funded-projects/> (<https://www.aalimec.ac.in/research/funded-projects/>)

Placements:

<https://www.aalimec.ac.in/placement/placement-details/> (<https://www.aalimec.ac.in/placement/placement-details/>)

Admission:

<https://www.aalimec.ac.in/admission/> (<https://www.aalimec.ac.in/admission/%20>)

Academic Details:

<https://www.aalimec.ac.in/departments/> (<https://www.aalimec.ac.in/departments/>)

Mandatory Disclosure:

<https://www.aalimec.ac.in/mandatory-disclosure/> (<https://www.aalimec.ac.in/mandatory-disclosure/>)

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

Total Marks 30.00

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

Institute Marks : 5.00

Availability of the audited statements on the institute's website

As of now, the audited statements of accounts of the institution are not made available on the institution's website. However, this can be done with the guidance of the IQAC.

10.2.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

ADEQUACY OF BUDGET ALLOCATION

The institution needs to justify that the budget allocated during assessment years was adequate

A. Quantum of Budget Allocation for 4 Years:

Details of budget allocated and utilized for the years 2021-22, 2020-21, 2019-20 and 2018-19 are provided as follows:

CAY (2021-22)	CAY m1 (2020-21)	CAY m2 (2019-20)	CAY m3 (2018-19)
Budget Allocated (Rs)	Budget Allocated (Rs)	Budget Allocated (Rs)	Budget Allocated (Rs)
6,38,70,000	5,60,00,000	10,20,00,000	9,10,00,000

B. Justification of Budget Allocated for 4 Years :

Budget requirements under Recurring and non-recurring estimation are collected from all the departments and units before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. Supplementary allocations are made in special cases, if needed, to match the expenditures. The institution carefully monitors the expenses such that the prerequisites are met without any impediment to run the institution productively. The management has been working efficiently over the past several years such that the institution never had any serious budget crunch that affected the normal functioning of the institution.

CAY (2021-22)		CAY m1 (2020-21)		CAY m2 (2019-20)		CAY m3 (2018-19)	
Budget (Rs)		Budget (Rs)		Budget (Rs)		Budget (Rs)	
Allocated	Utilized	Allocated	Utilized	Allocated	Utilized	Allocated	Utilized
6,38,70,000	61373349.46	5,60,00,000	4,97,11,704.44	10,20,00,000	9,36,15,516.1	9,10,00,000	9,02,35,880.74

10.2.2 Utilization of allocated funds (15)

Institute Marks : 15.00

UTILIZATION OF ALLOCATED FUNDS**Utilization of Allocated Funds**

The Management approves the overall budget of the college at the end of each academic year. The whole year's budget including Recurring and non-recurring expenses will be taken into account. The Heads of the department will be intimated about the fund extent allocated beyond their earlier proposed budgets. Finance department of the trust takes care of the Preparation of purchase orders for the purchase of laboratory equipment, teaching aids, furniture, payment of bills along with the department budget allocations and expenditures. Major works like constructions, upgradation of the infrastructure, furniture replacement and maintenance of common utilities are controlled by the Management through the consultation of the IQAC.

Utilization of Allocated Funds for the Past 4 Years for All Programs

CAY (2021-22)		CAY m1 (2020-21)		CAY m2 (2019-20)		CAY m3 (2018-19)	
Budget (Rs)		Budget (Rs)		Budget (Rs)		Budget (Rs)	
Allocated	Utilized	Allocated	Utilized	Allocated	Utilized	Allocated	Utilized
6,38,70,000	6,13,73,349.46	5,60,00,000	4,97,11,704.44	10,20,00,000	9,36,15,516.1	9,10,00,000	9,02,35,880.74

1. Utilization of allocated funds for the year 2021-22: 96.09 %
2. Utilization of allocated funds for the year 2020-21: 88.77%
3. Utilization of allocated funds for the year 2019-20: 91.77 %
4. Utilization of allocated funds for the year 2018-19: 99.16 %

BUDGET UTILIZATION IN 2021-22**Infrastructure and Built-up**

The institution underwent procedural cleansing, disinfection and refurbishment. The management ensures the legal obligations to be carried out along with the expenses under the accrual method.

Library

The total financial resources necessary for a library renovation were accomplished this year.

Maintenance and Spares

For the smooth running of the institution, the institutional assets have been rejuvenated periodically. The systems undergo preventive maintenance and based on the requirements, the servicing, repairing and refitting takes place.

Research and Development

A systematic investigation with the objective of introducing innovations for the current year project offerings were carried out across different industries and sectors.

Miscellaneous Expenditure

The following are the necessary expenditures for the current financial year: graphic design software installation, computer depreciation, projectors, xerox machines etc.

BUDGET UTILIZATION IN 2020-21**Infrastructure and Built-up**

The interior decorations and partitions were carried during this financial year. The SOLAR PV POWER PLANT was installed above the rooftop of the Electrical Engineering Department.

Library

Books were purchased for the library including journal subscriptions were undergone this year.

Maintenance and Spares

The maintenance of the department laboratories, UPS installation and other infrastructure enhancement was proposed and utilized during this academic year.

Research and Development

In this year a major quantum of funds was utilized for the self enhancement of the faculties for paper publishing. Also, funds were utilized based on the academic requirements of the departments.

Miscellaneous Expenditure

The expenses such as sanitizers, thermal scanners, campus disinfectant and awareness programmes. Various departments also conducted In-house project competitions, seminars and workshops.

BUDGET UTILIZATION IN 2019-20**Library**

The Institutional library has subscribed certain e-resources such as Delnet, IEEE Journals, seek digital library, IEI & IEDE for the stay-safe mode of utilization.

Maintenance and Spares

The maintenance of ACs, software upgradation, purchase of computer accessories (headsets,web cameras etc) and additional infrastructure enhancement was carried out during this year.

Research and Development

An essential component of Institution's Research and Development arm ranges with relatively minor costs for the focussed research operations.

Miscellaneous Expenditure

The equipment needed for the classes, teaching aids, furniture, inventory supplies, goods and services, advertisement for Admissions, banners, brochures along with the department expenditures spent for the above mentioned year.

BUDGET UTILIZATION IN 2018-19**Library**

The Additional books were purchased as there was a new set of Anna Univesity Regulations.

Maintenance and Spares

In order to retain the assets with sound quality, the institution requires the regular maintenance for an uninterrupted service.

Research and Development

The institute allocates a part of the budget to spend for stimulating the Students' active contribution which enroots the higher investment.

Miscellaneous Expenditure

The various immediate and unplanned expenses such as accidental breakages, depreciation, Bank service charges etc and various other expenses were subordinated to this expenditure.

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

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY : (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2022-23

Total Income 0				Actual expenditure(till...): 0			Total No. Of Students 0
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
0	0	0	0	00	0	0	0

Table 2 - CFYm1 2021-22

Total Income 60522726.50				Actual expenditure(till...): 61373349.30			Total No. Of Students 1016
Fee	Govt.	Grants	Other sources(specify) by Interest from bank, By Misc. Receipts, by Sale of Applications, by Rent from bank, By excess of expenditure over income	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
51273300.00	0	0	9249426.5	54080127.55	7293221.75	0	60406.84

Table 3 - CFYm2 2020-21

Total Income 53484004.01				Actual expenditure(till...): 49711703			Total No. Of Students 963
Fee	Govt.	Grants	Other sources(specify) by Interest from Bank, By Misc. Receipts, by Sale of Applications, By Rent from Bank, By Guest lectures, workshop, softskill dpmt ect	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
50289802	0	0	3194202.01	45437785	4273918	0	51621.71

Table 4 - CFYm3 2019-20

Total Income 80267915.61				Actual expenditure(till...): 93696016.5			Total No. Of Students 1207
Fee	Govt.	Grants	Other sources(specify) By Interest from bank, By Misc. Receipts, By Sale of Applications, By Guest Lectures, workshop, softskill dpmt ect, By rent from bank, By excess of expenditure over income	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
62759400	0	0	17508515.61	72482590	21213426.5	0	77627.19

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	0	0	1000000	1357106	900000	857793	15000000	14332241
Library	0	0	300000	304582	300000	297833.64	600000	567714
Laboratory equipment	0	0	70000	64900	50000	0	50000	34000
Laboratory consumables	0	0	100000	132713	300000	258420	100000	116370
Teaching and non-teaching staff salary	0	0	45000000	40758719	40000000	32926195	60000000	53270089
Maintenance and spares	0	0	5000000	5091173	3500000	3696796	7000000	6807733
R&D	0	0	200000	129186	500000	454351.3	700000	691061
Training and Travel	0	0	200000	307691.3	50000	0	50000	0
	0	0	6000000	7078270.16	400000	446383.5	1000000	948241.1
Others, specify	0	0	6000000	6149009	10000000	10773932	17500000	16848067
Total	0	0	63870000	61373349.46	56000000	49711704.44	102000000	93615516.1

A. Budget Utilization for 3 years:**Table.10.3.2.1.Budget utilization for 3 years**

CAY (2021-22)		CAY m1(2020-21)		CAYm2(2019-20)	
Allocated (Rs.)	Utilized (Rs.)	Allocated (Rs.)	Utilized (Rs.)	Allocated (Rs.)	Utilized (Rs.)
435000	387294	540000	477366	8060000	7064907

Table.10.3.2.2.Utilization of allocated funds for past 3 years

	CAY (2020-21)	CAYm1(2019-20)	CAYm2(2018-19)
Utilization of allocated funds	89 %	88.4 %	87.6 %

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

A. Quantum of Budget Allocation for 3 Years

Details of Budget allocated and utilized for the years 2020-2021, 2019-2020, 2018-2019 are provided as follows.

CAY (2021-22)	CAY (2020-21)	CAYm1(2019-20)
Budget Allocation (Rs.)	Budget Allocation (Rs.)	Budget Allocation (Rs.)
435000	540000	8060000

Justification of Budget Allocated for 3 years

The Heads of the Department seeks the letter of intent of budgetary proposals from the Laboratory In charges for upkeep the maintenance of Laboratories in njunction with Academic Programmes of Affiliating University. In addition, the faculty members also required to propose the budget for various departmental tivities such as Industrial Visits, Expert Lectures, Conferences, Maintenance of the department, etc. Based on the budget provided by lab in charges and Faculty embers, the final budget will be proposed. The Management is very conscious of the responsibility in managing the Institution and very responsive in allocating quisite funds adequately. Hence, the budget allocation for every year is adequate to meet all the requirements.

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

0		Actual expenditure (till...): 0		Total No. Of Students 0
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
00	0	0	0	0

Table 2 :: CFYm1 2021-22

435000		Actual expenditure (till...): 387294		Total No. Of Students 225
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
25000	410000	27294	360000	1721.31

Table 3 :: CFYm2 2020-21

540000		Actual expenditure (till...): 477366		Total No. Of Students 205
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
15000	525000	6002	471364	2328.61

Table 4 :: CFYm3 2019-20

8060000		Actual expenditure (till...): 7064907		Total No. Of Students 206
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
7535000	525000	6460141	604766	34295.67

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	0	0	0	0	0	0	7500000	6439492
Software	0	0	0	0	0	0	0	0
Laboratory consumable	0	0	10000	0	25000	17464	25000	179420
Maintenance and spares	0	0	25000	27294	5000	1400	25000	20649
R & D	0	0	0	0	0	0	0	0
Training and Travel	0	0	400000	360000	500000	453900	500000	425346
Miscellaneous Expenses	0	0	0	0	10000	4602	10000	0
Total	0	0	435000	387294	540000	477366	8060000	7064907

10.4 Library and Internet (20)

Total Marks 20.00

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

Available learning resources :

The Students and faculty members are facilitated with rich collection of Learning resources.

Table. 10.4.1.1 Details of Library Resources

Library Resources			
Number of Titles	Number of Volumes	Academic CD's	Journals
11357	73959	2720	78

e-learning Sources:

1. IIT(M)
2. Anna University (Affiliating University)
3. DELNET
4. AICTE e-Kumbh
5. IETE
6. IEI
7. Sleek

Accessibility to students:

The library will be kept open from 08.30 am to 06.00 pm. Each Student is provisioned with Library Access Card of 4. Library is adequately spaced, naturally ventilated with light and air leading to read friendly ambience.

Table 10.4.1.2 Library Infrastructure

Carpet area of library	430 m ²
Number of seats in reading space	130
Number of transactions per day	60
No. of Online Public Access Catalog (OPAC)	23 desktop computers with Internet Facilities.

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING Muthapudupet, Avadi – IAF, Chennai – 600055 CENTRAL LIBRARY						
Name of the ILMSSoftware		Version		Year of automation		
INSPRO PLUS ERP 6.1		ERP VERSION 6.1		2013		
	Existing (Acc. No 32871-Acc.No 44834)		Newly added in the year 2022-2023 (Acc. No 44035-Acc.No 44362)		Total	
	No.	Value (Rs.)	No.	Value (Rs.)	No.	Value (Rs.)
Text Books	11036	3,960,860.99	321	193119.2	11357	4153980.19
Reference Books	128	102,444.80	7	5159	135	107603.8
e-Books	763		50		813	
Journals	73	3560728.54	5	214849	78	3775577.54
e-Journals	Delnet, NDL, IEI & IETE,	54280	Delnet	13570	Delnet, NDL, IEI & IETE,	67850
CD & Video	2720		-		2720	
Library automation	INSPRO PLUS ERP 6.1					
Weeding (Hard & Soft)	778				778	
Others (New Papers)		5594				5594
TOTAL		76,83,908.33		426697.2		8110605.53

MUSEENA KANNAN
Prepared by
LIBRARIAN
Central Library
Aalim Muhammed Salegh
College of Engineering

Dr. M. MOHAMMED ALEX
CHIEF LIBRARIAN
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
AVADI - IAF, MUTHAPUDUPET
CHENNAI - 600055.

Principal
14/3/2023
Principal
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 10.4.1.1. Index of available Library Resources.

Performance Fee Invoice		Invoice No.	Date
 DELNET Engineering & Library Network 2022 Changanassery Mambalam Road, Changanassery PIN: 686001, Kerala Email: delnet@delnet.org.in Ph: 0471-2511022, 2511023 Fax: 0471-2511024		2023_0009	25 February 2023
Anna Mathematical Science College of Engineering (Autonomous) Anna Campus Changanassery PIN: 686001		Institution Name Anna Mathematical Science College of Engineering (Autonomous) Anna Campus Changanassery PIN: 686001	
Annual Subscriptions Maintenance Fee for the period 01.01.2023 to 31.12.2023		Total 10,000.00	Balance 10,000.00
Bank & Pin: DELNET Bank Details A/c Holder Name: DELNET Bank Name: Canara Bank IFSC: CANS033 Branch Name: Mambalam Road Changanassery A/c No.: 00000000000000000000 MICR: 00000000000000000000		QR Code 	
Amount Chargeable (in words) Ten Thousand Rupees Only (INR 10,000.00)		Amount Paid (in words) Nil	
SACS Code: 999991		For Bank Transfer Money needs to be remitted through NEFT/RTGS only. Do NOT PAY BY CASH. (DIRECTLY TO DELNET BANK A/C)	

Figure 10.4.1.2. Receipt of DELNET Subscription

Internet :

Name of the Internet provider : TATA Tele Business Services / Blue Lotus (Aeronet)

A. Available bandwidth : 50mbps 1:1 ILL / 500mbps BB Unlimited

B. Wi-Fi availability : Yes, Wi-Fi facility available with desirable speed.

Access points : 14

C. Internet access in Labs, Classrooms, Library and Offices of all Departments

Yes. Departments, Laboratories, Classrooms, Faculty Rooms, Library and Administration office are connected with the internet.

Institute's own e-mail facility to Faculty members and Students: Yes

D. Security Mechanism : Yes, IS15 - K7 enterprise end point security

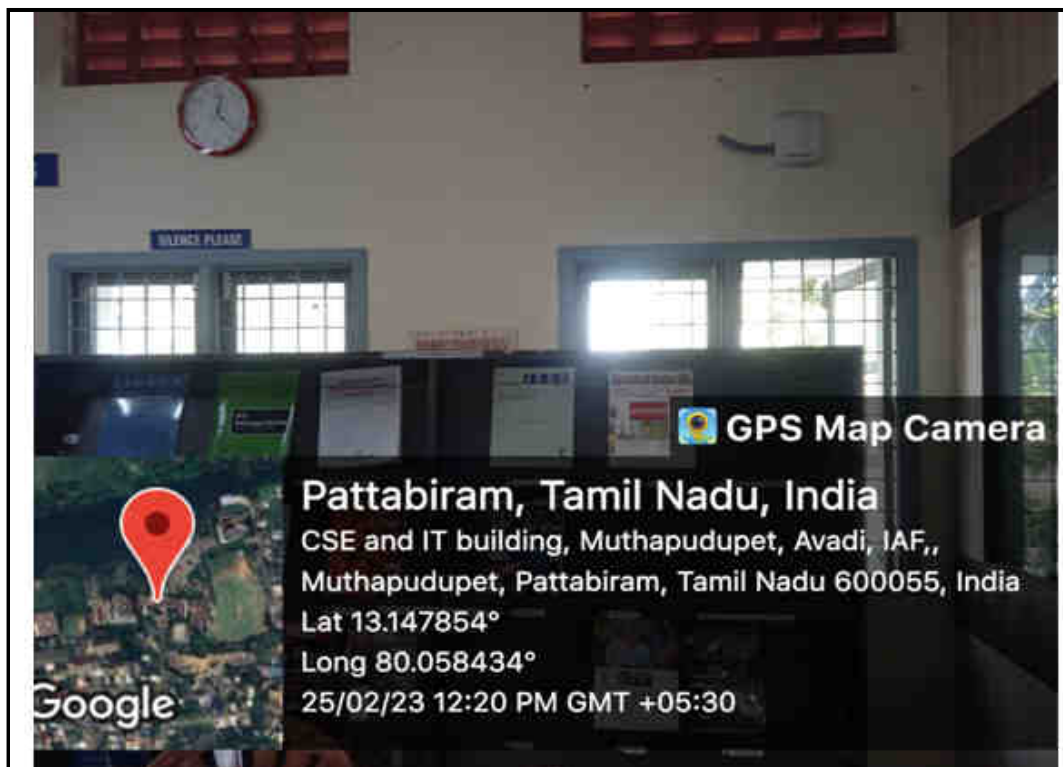


Figure 10.4.2.1. Wi-Fi access point in Library

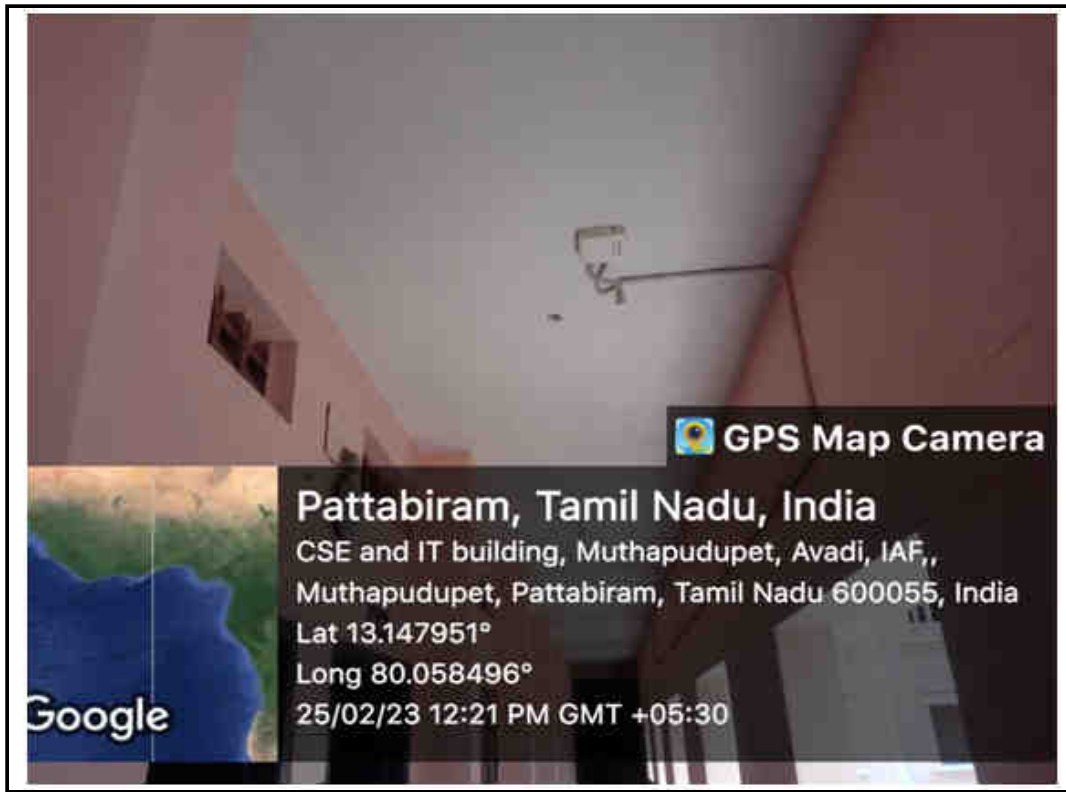


Figure 10.4.2.1. Wi-Fi access point in Department

10.4.2 Internet (10)

Institute Marks : 10.00

Name of the Internet provider	TATA Tele Business Services & Blue Lotus (Aeronet)
Available band width	50mbps 1:1 ILL & 500mbps BB Unlimited
WiFi availability	Yes, Wi-Fi facility available with desirable speed
Internet access in labs, classrooms, library and offices of all Departments	14
Security arrangements	Yes, IS15 - K7 enterprise end point security

Annexure I
(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

- Engineering Knowledge** : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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.
- 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 analyse design and develop computing solutions by applying foundational concepts of Computer Science and Engineering
PSO2	To apply software engineering principles and innovative practices for developing quality software for scientific and business applications problems

Declaration

The head of the institution needs to make a declaration as per the format given -

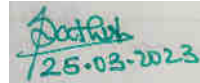
- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information 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 : Prof. Dr. S. Sathish

Designation : Principal

Signature :



Seal of The Institution :

Prof. Dr. S. SATHISH
D.E.M.E.,P.H.D.,
PRINCIPAL
AALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING
MUTHAPUDUDET, SF-AVADI,
CHENNAI - 600 055.

Place : I.A.F Avadi, Chennai**Date** : 25-03-2023 16:57:03