AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Mechanical 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:

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

5 Ownership Status:

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

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

Name of Institutions	Year of Establishment	Programs of Study	Location
AALIM MUHAMMED SALEGH ACADEMY OF ARCHITECTURE	2011	B.Arch	"Nizara Educational Campus" Muthapudupet, IAF Avadi, Chennai – 600 055
AALIM MUHAMMED SALEGH POLYTECHNIC COLLEGE	1996	Diploma	"Nizara Educational Campus" Muthapudupet, IAF 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
MECHANICAL ENGINEERING	UG	2007	2007	60	Yes	60	Applying first time	--	--	Yes	4

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

ELECTRICAL AND ELECTRONICS ENGINEERING	UG	2000	2000	60	Yes	30	Granted accreditation for 3 years for the period (specify period)	2011	2014	No	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

CIVIL ENGINEERING	UG	2007	2007	40	Yes	30	Not eligible for accreditation	--	--	0	4

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

ELECTRONICS AND COMMUNICATION	UG	2000	2000	60	Yes	60	Granted accreditation for 3 years for the period (specify period)	2011	2014	0	4

Sanctioned Intake for Last Five Years for the ELECTRONICS AND COMMUNICATION	
Academic Year	**Sanctioned Intake**
2022-23	60
2021-22	60
2020-21	60
2019-20	60
2018-19	120
2017-18	120

COMPUTER SCIENCE AND ENGINEERING	UG	2000	2000	40	No	120	Not accredited (specify visit dates, year)	25/03/2011	27/03/2011	0	4

INFORMATION TECHNOLOGY	UG	2006	2006	60	No	60	Applying first time	--	--	0	4

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	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☐ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☐ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Items	2022-23	2021-22	2020-21
Total no. of Boys	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:

To achieve the vision, the institutional Mission envisages dedicated efforts:

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

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	90.45
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	151.31
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	47.30
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**888**

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	**To achieve the vision, the institutional Mission envisages dedicated efforts:** **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	A) Vision of the Department: TO BECOME THE BEST MECHANICAL ENGINEERING DEPARTMENT THROUGH INNOVATIVE TEACHING, RESEARCH AND PROJECT-BASED LEARNING B) Appropriateness/Relevance of the Statements: In the past and present mechanical engineering and engineers are vital in economic development and in strengthening our nation's armed forces. In the new era of automation, Mechanical engineers will assert of the future. Even many software companies are launching diverse programs specific to mechanical engineers [1]. At the national and state levels huge push is given to innovation and startups. The central and state governments encourage indigenous and innovative product development [2, 3]. In the new normal of the world, both technical skills and soft skills are required. Also, a good teaching-learning process is mandated to induce innovativeness among the students, and this involves faculty members with upgraded domain knowledge [4]. The vision and mission of the Institute and the Department were aligned to orient the outcomes toward the national goal. [1] Interview of Mr.E.S.Chakravarthy, Global Head & Vice President, TCS. https://www.thehindu.com/news/national/andhra-pradesh/future-belongs-to-mechanical-electrical-engg-wings-says-tcs-v-p/article65837750.ece [2] National Innovation and Startup Policy – 2019. https://nisp.mic.gov.in/ [3] Tamil Nadu Startup & Innovation Policy (2018-23) https://startuptn.in/ [4] Equity Action Plan for Institutions, Multidisciplinary Education and Research Improvement in Technical Education (MERITE), 2022. https://www.education.gov.in/sites/upload_files/mhrd/files/DRAFT_MERITE_Equity_Action_Plan-Indigenous_People_Policy.pdf C) Consistency of the Department statements with the Institute statements Table: 1.1. Matrix mapping of Department and Institute Vision Category_____Institute Vision_____Department Vision Teaching-Learning 3 3 Research 3 3 Collaboration 3 2 Innovation 3 3 Table: 1.2. Matrix mapping of Department and Institute Missions (Institute Mission - IM, Department Mission - DM) _____IM1_____IM2_____IM3_____IM4_____ DM1 | 3 | 3 | 3 | 2 DM2 | 3 | 3 | 3 | 3 DM3 | 3 | 3 | 3 | 3
Mission of the Department	**Mission No.** / **Mission Statements** M1: To Provide Solid Practical and Theoretical Knowledge in Mechanical Engineering through effective Learning and Teaching Methods M2: To imbibe Moral Principles, Linear Thinking, and Entrepreneurial Spirit in Students' Lives M3: To Foster Life-long Learning to excel

1.2 State the Program Educational Objectives (PEOs) (5) Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	DEVELOP NOVEL PROCEDURES TO SOLVE INDUSTRIAL CHALLENGES THROUGH THE KNOWLEDGE ACQUIRED IN CORE ENGINEERING
PEO2	ESTABLISH A BUSINESS OR SECTOR AS AN ENTREPRENEUR WITH PROFESSIONALISM, EFFECTIVE LEADERSHIP, TEAMWORK, AND MORAL PRINCIPLES TO ADDRESS SOCIETAL NEEDS
PEO3	DEVELOP SUSTAINABLE SOLUTIONS TO FULFILL THE NEEDS OF SOCIETY AND BUILD A BRIGHTER FUTURE BY PURSUING HIGHER EDUCATION

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

Institute Marks : 10.00

A) ADEQUACY IN RESPECT OF PUBLICATION & DISSEMINATION

Publications:

1. Institute Website

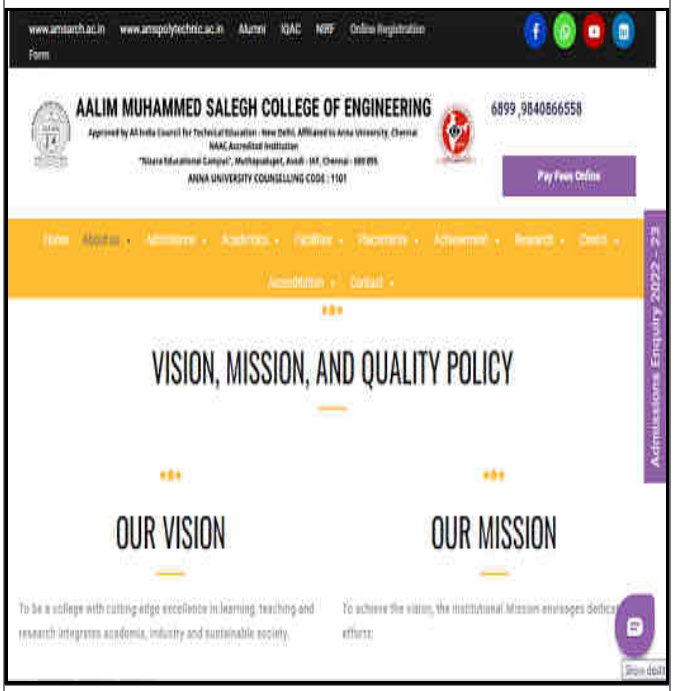


Figure 1.1. Institute website.

2. Department web page

Figure 1.2. Department Website.

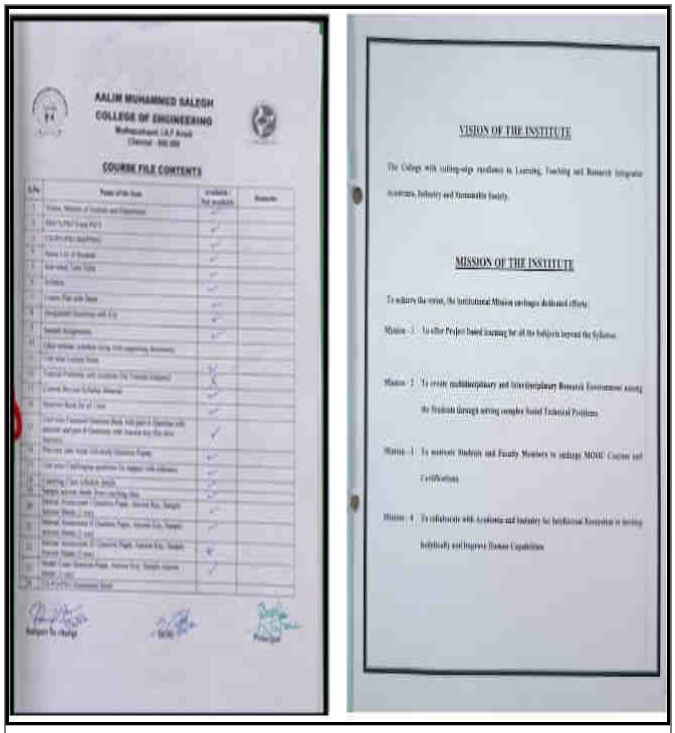
3. Department Academic Calender (Academic year: 2021-2022)

Figure 1.3. Department Academic Calender (Academic year: 2021-2022).

4. Brochures of Department Events : Online Workshop - FUSION 360

Figure 1.4. Brochures of Department Events : Online Workshop - FUSION 360.

5. Course File - ME 3451 - Thermal Engineering (II Year IV Semester Regulation -2021)



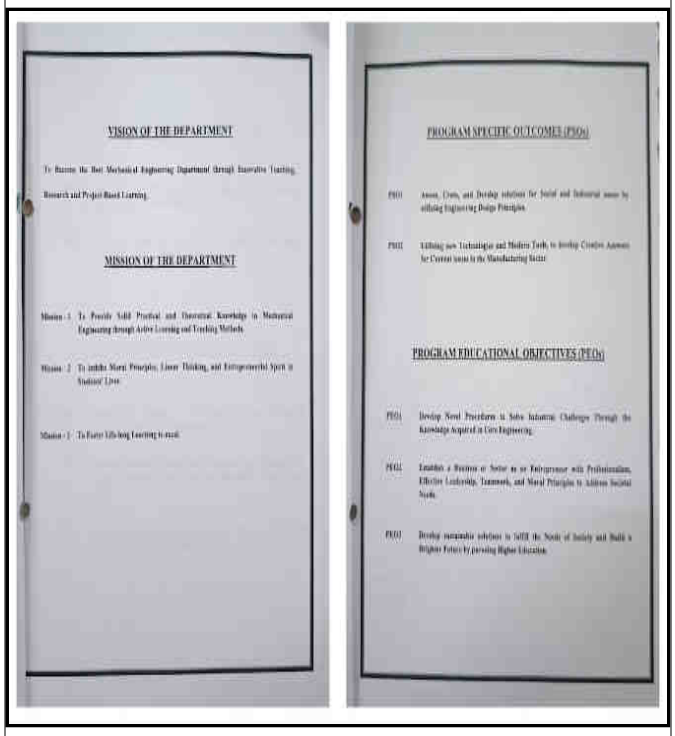
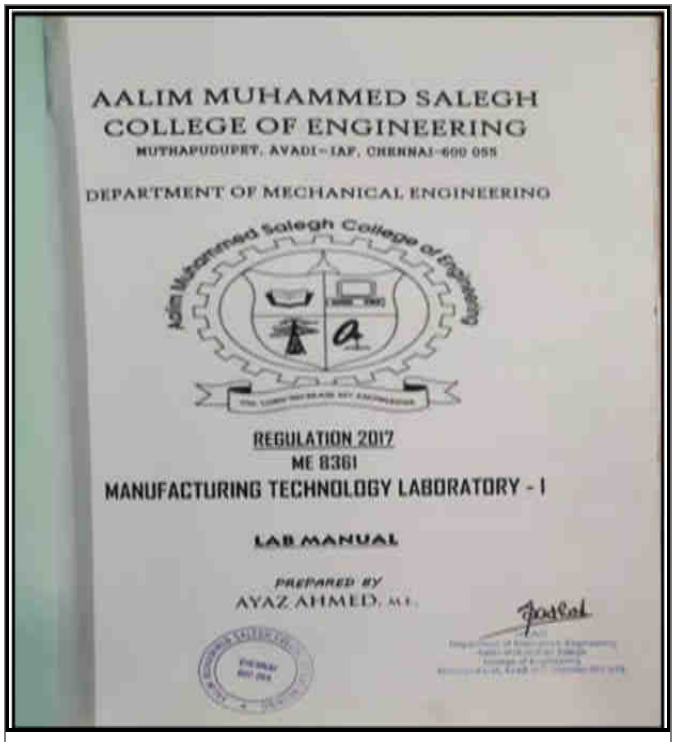


Figure 1.5. Course File - ME 3451 - Thermal Engineering (II Year IV Semester Regulation -2021).

6. Department Newsletter (Issue: December 2021)

Figure 1.6. Department Newsletter (Issue: December 2021).

7. Lab Manuals ME8361-Manufacturing Technology Lab -I (R-2017)



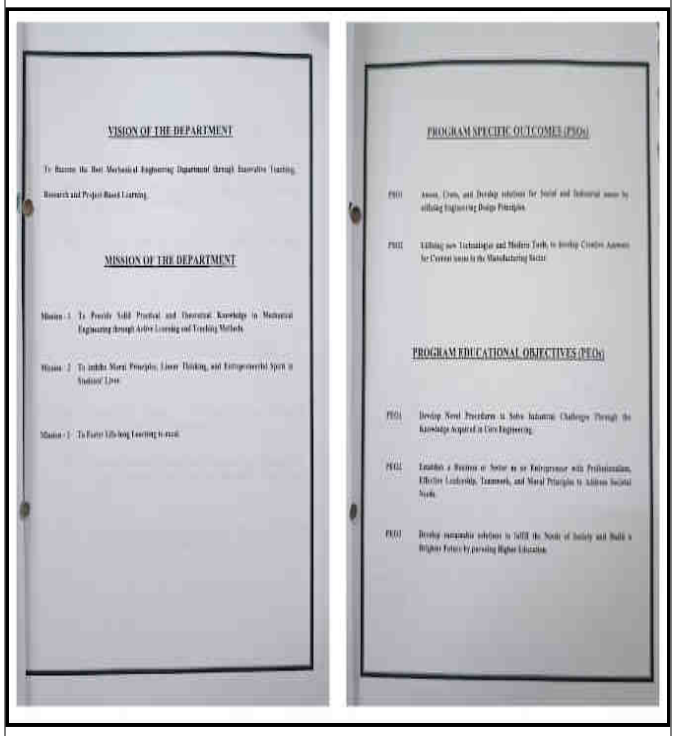


Figure 1.7. Lab Manuals ME8361-Manufacturing Technology Lab -I (R-2017).

8. Study Materials (Subject name: ME 3393 - Manufacturing Processes Regulation-2021)

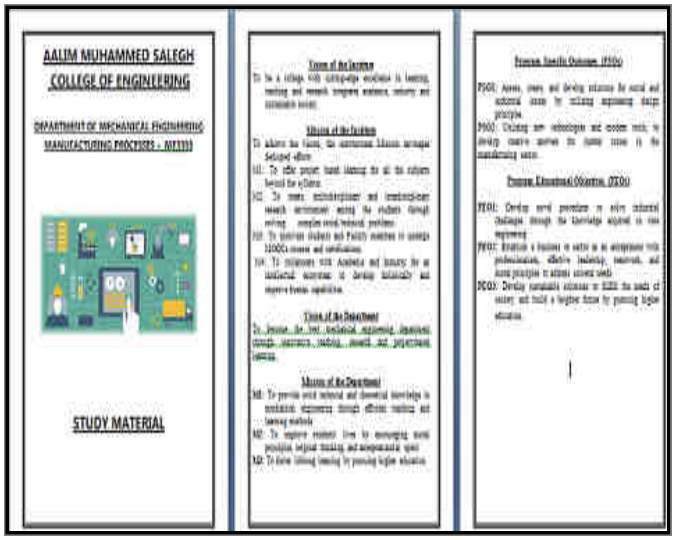


Figure 1.8. Study Materials (Subject name: ME 3393 - Manufacturing Processes Regulation-2021).

Disseminations:

1. Highlighted at the beginning of course committee meeting

2. Highlighted at the beginning of department advisory meeting

3. As foot note in official E-mail

4. Posting in students WhatsApp group once in every semester on commencement

5. Posting in parents WhatsApp group once in every semester commencement

6. A notice board in department entrance

7. A notice board in all classroom

8. A notice board in all laboratories

9. Starting slide of presentation (Online and offline)

10. Distributed as pamphlet during parent-teacher meeting

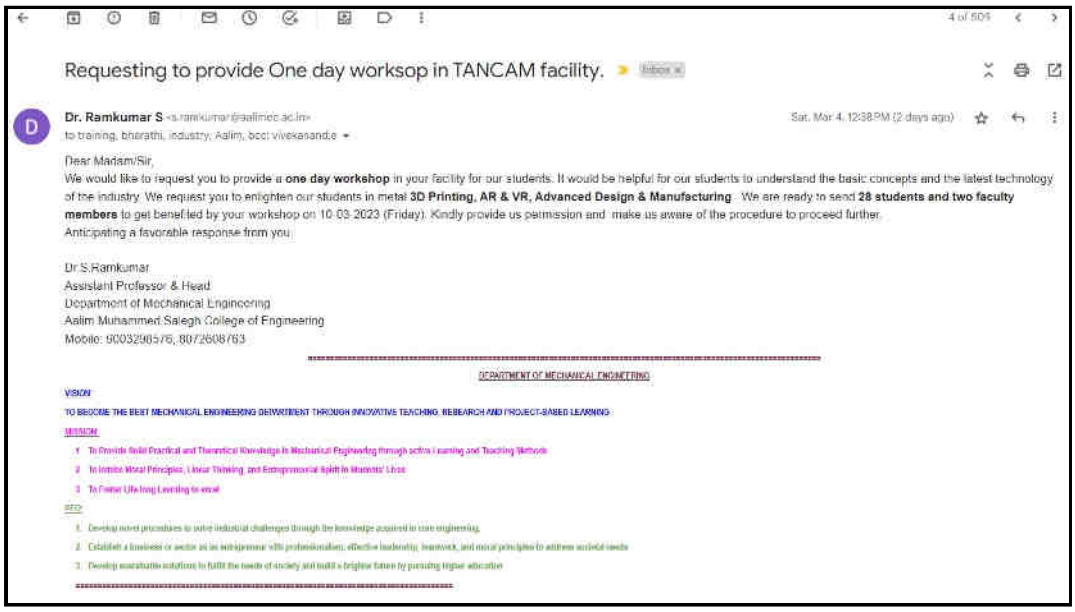


Figure 1.9. As foot note in official E-mail.

B) PROCESS OF DISSEMINATION AMONG STAKEHOLDERS

1. For students: An online competition were conducted at the end of every semester to assess the extent of awareness of vision, mission and PEOs amongst the student community. Questionnaires were prepared by team of senior faculty members by the order of HOD and the notification for the event were notified ten days earlier through a circular from the desk of Principal. Event will be conducted online for prescribed time by the Questionare preparation committee. Prizes and rewards are distributed to the first five top scorers.

2. DAC minutes of meeting

3. Department faculty members minutes of meeting

4. Posted in Students WhatsApp group once in every semester commencement

5. e-mail footnote

C) EXTENT OF AWARENESS OF VISION, MISSION & PEOs AMONG THE STAKEHOLDERS

Table: 1.1. Mode of Awarenss among stakeholders.

Catagory	Mode of Awareness
INTERNAL STAKEHOLDERS	
Management	1. **Highlighted in IQAC meeting while discussing department organisation issues** 2. **Highlighted in BOG meeting** 3. **As foot note in official e-mail**
Faculty members	1. **Highlighted at the beginning of course committee meeting** 2. **Highlighted at the beginning of department advisory meeting** 3. **As foot note in official e-mail** 4. **Posting in students WhatsApp group once in every semester on commencement** 5. **A notice board in department entrance** 6. **A notice board in all classroom** 7. **A notice board in all laboratories** 8. **Starting slide of presentation (Online and offline)** 9. **Distributed as pamphlet during parent-teacher meeting**
Students	
Parents of current students	1. **Posting in parents WhatsApp group once in every semester on commencement** 2. **As foot note in official e-mail** 3. **Displayed as banner in Parent-Teacher meeting**
EXTERNAL STAKEHOLDERS	
Industry	1. **As foot note in official e-mail** 2. **Highlighted before of the start of the meeting (Offline and Online)** 3. **Displayed as banner in alumni meeting**
Alumni	
Parents of alumni students	

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

Institute Marks : 25.00

A) DESCRIPTION OF PROCESS INVOLVED IN DEFINING THE VISION & MISSION OF THE DEPARTMENT

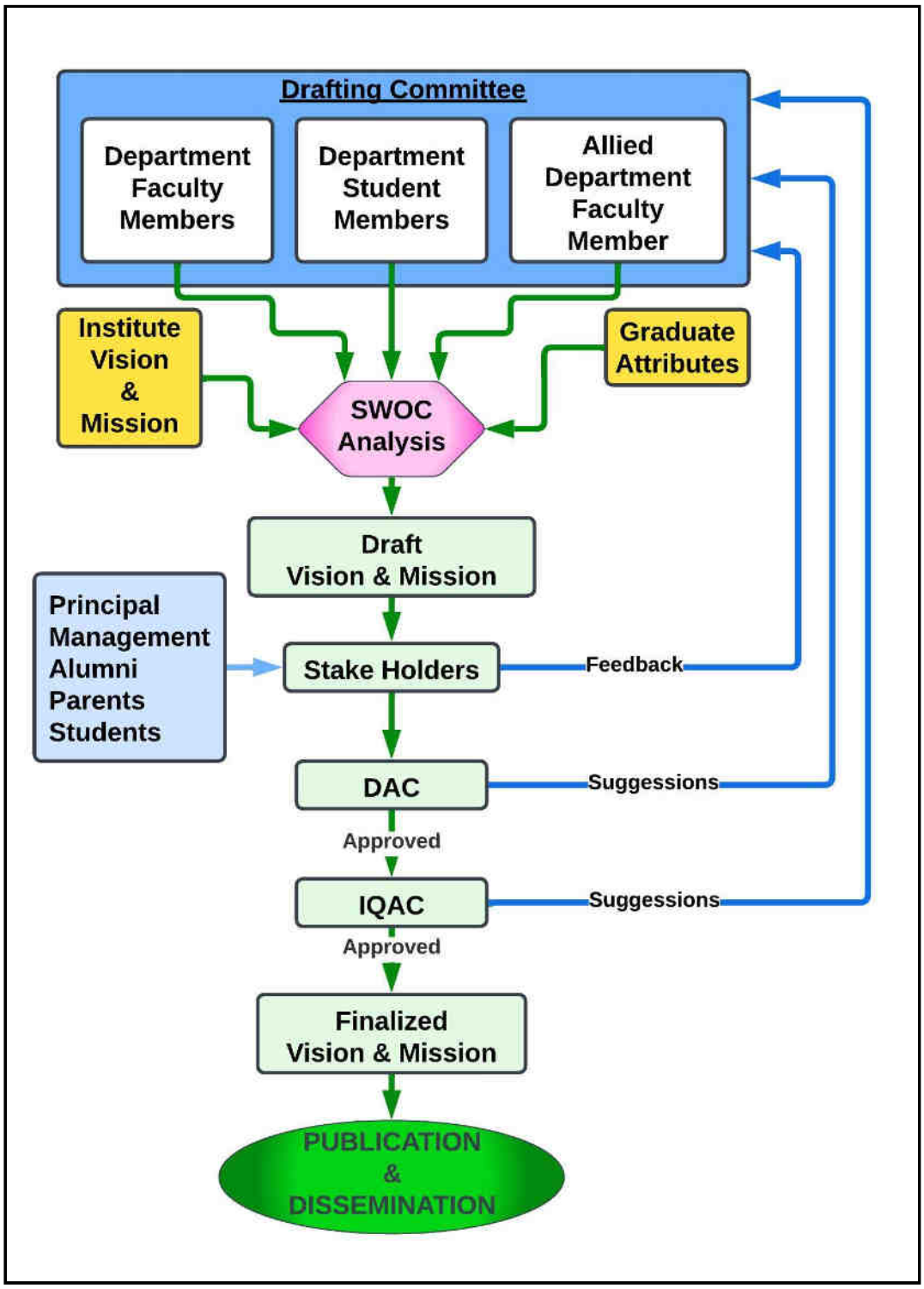
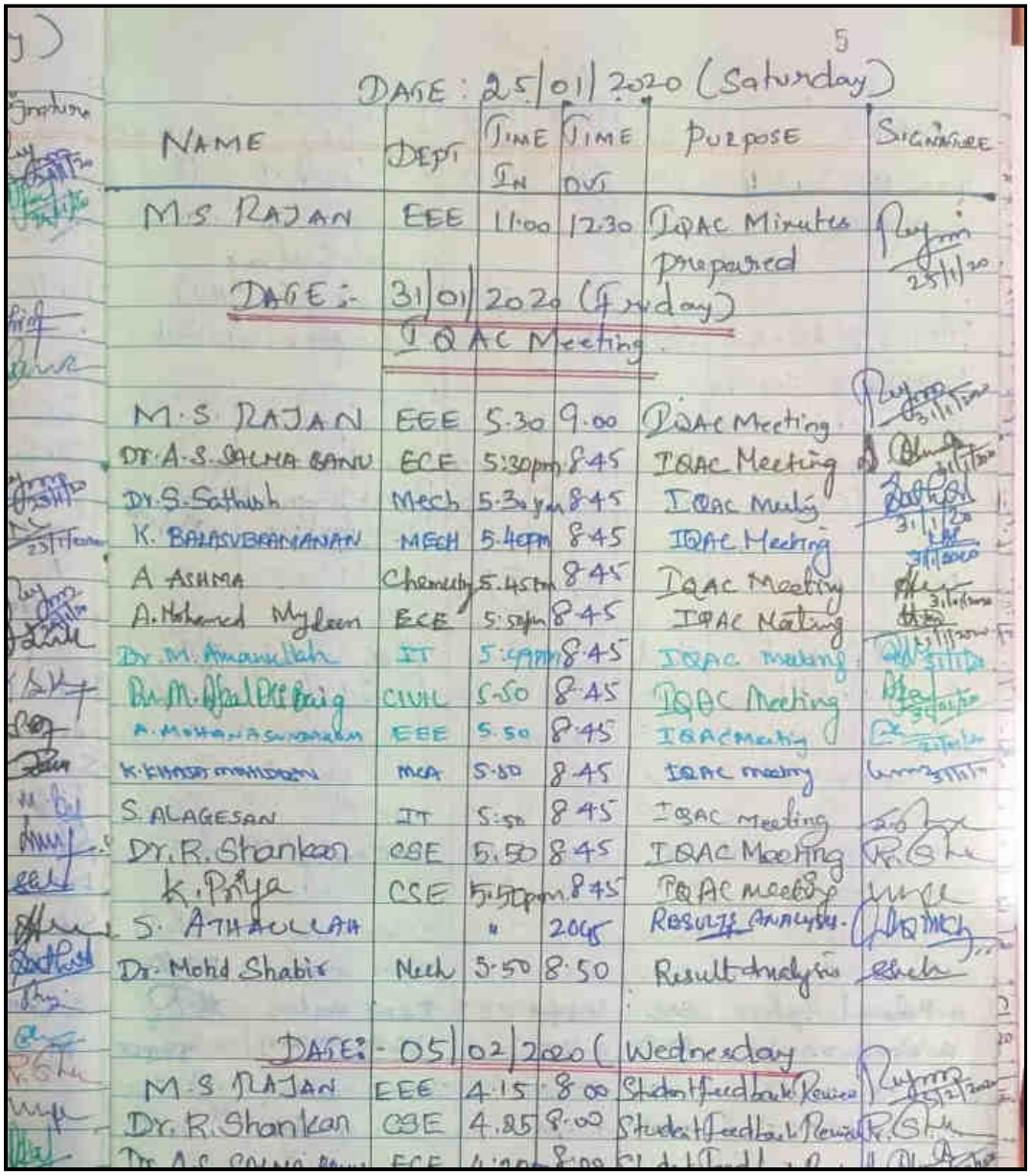


Figure 1.10. Process Diagram for Formulating Vision and Mission of the Department.



DATE: 25/01/2020 (Saturday)

NAME	DEPT	TIME IN	TIME OUT	PURPOSE	SIGNATURE
M.S. RAJAN	EEE	11:00	12.30	IQAC Minutes prepared	

DATE: 31/01/2020 (Friday)
IQAC Meeting

M.S. RAJAN	EEE	5.30	9.00	IQAC Meeting	
Dr. A.S. SALMA BANU	ECE	5:30pm	8.45	IQAC Meeting	
Dr. S. Sathish	Mech	5.30pm	8.45	IQAC Meeting	
K. BALASUBRAMANIAN	MECH	5.40PM	8.45	IQAC Meeting	
A. ASHMA	Chemistry	5.45pm	8.45	IQAC Meeting	
A. Mohamed Mydeen	ECE	5:50pm	8.45	IQAC Meeting	
Dr. M. Amanullah	IT	5:45PM	8.45	IQAC Meeting	
Dr. M. Afsal Khaleeq	CIVIL	5.50	8.45	IQAC Meeting	
A. MOHAMED ASHRAFF	EEE	5.50	8.45	IQAC Meeting	
K. KHADER MOHIDEEN	MCA	5.50	8.45	IQAC meeting	
S. ALAGESAN	IT	5:50	8.45	IQAC meeting	
Dr. R. Shankar	CSE	5.50	8.45	IQAC Meeting	
K. Priya	CSE	5:50pm	8.45	IQAC meeting	
S. ATHAULLAH		"	20.45	Results Analysis	
Dr. Mohd Shabir	Mech	5.50	8.50	Result analysis	

DATE: 05/02/2020 (Wednesday)

M.S. RAJAN	EEE	4.15	8.00	Student Feedback Review	
Dr. R. Shankar	CSE	4.25	8.00	Student Feedback Review	
Dr. A.S. SALMA BANU	ECE	4:30	8.00	Student Feedback Review	

Figure 1.11. IQAC meeting register.

B) <u>DESCRIPTION OF PROCESS INVOLVED IN DEFINING THE PEOs OF THE PROGRAM</u>

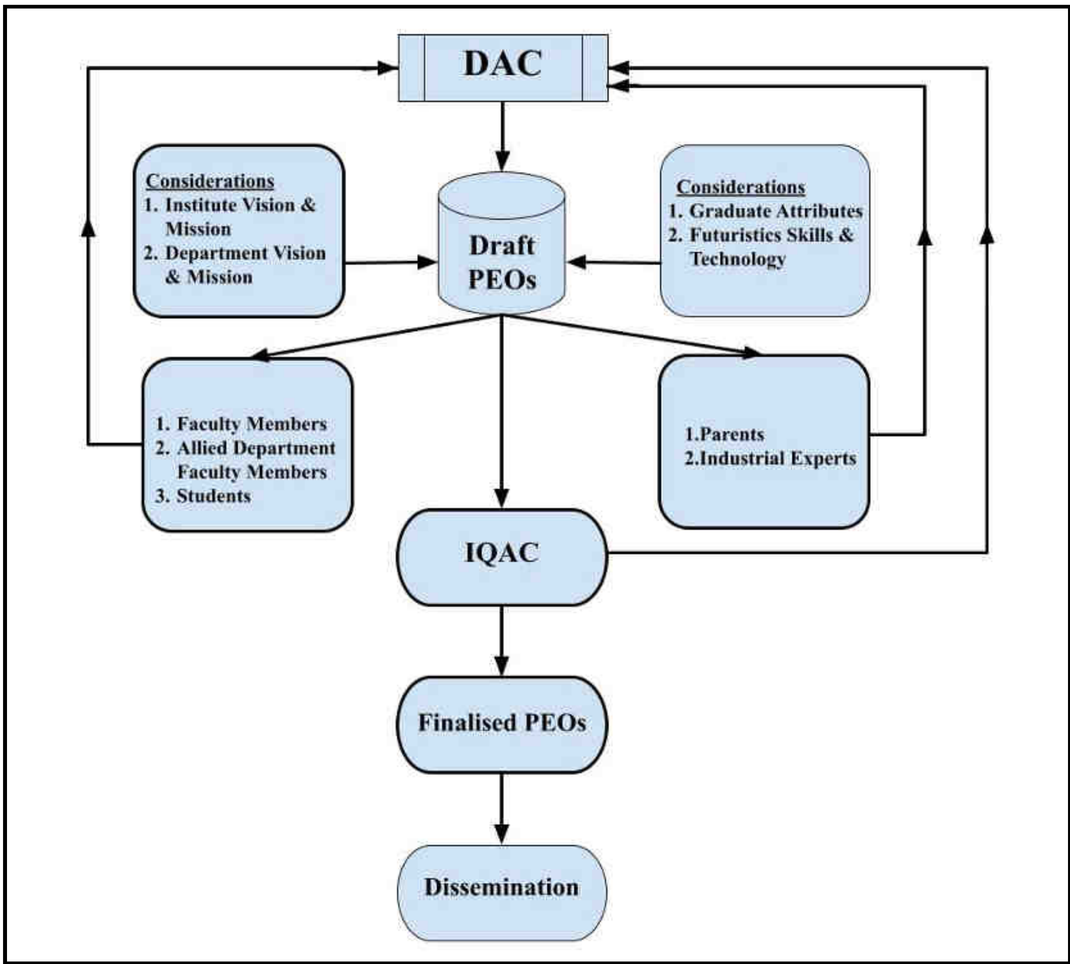
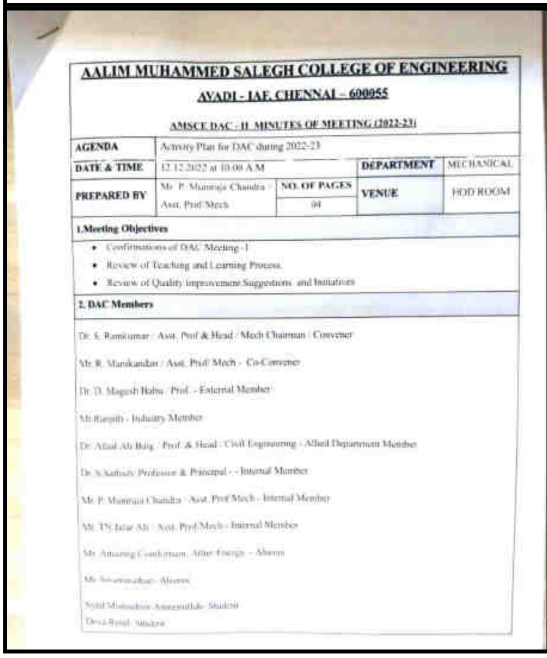


Figure 1.12. Process Flow Diagram For Defining PEOs of the Department.



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

AVADI - IAF, CHENNAI – 600055

AMSCE DAC - II MINUTES OF MEETING (2022-23)

AGENDA	Activity Plan for DAC during 2022-23				
DATE & TIME	12.12.2022 at 10.00 A.M			**DEPARTMENT**	MECHANICAL
PREPARED BY	Mr. P. Muniraja Chandra - Asst. Prof/Mech	**NO. OF PAGES**	04	**VENUE**	HOD ROOM

1.Meeting Objectives

- Confirmations of DAC Meeting -I
- Review of Teaching and Learning Process.
- Review of Quality improvement Suggestions and Initiatives

2. DAC Members

Dr. S. Ramkumar / Asst. Prof & Head / Mech Chairman / Convener

Mr. R. Manikandan / Asst. Prof/ Mech - Co-Convener

Dr. D. Magesh Babu / Prof. - External Member

Mr. Ranjith - Industry Member

Dr. Afzal Ali Baig / Prof. & Head / Civil Engineering - Allied Department Member

Dr. S. Sathish / Professor & Principal - - Internal Member

Mr. P. Muniraja Chandra / Asst. Prof Mech - Internal Member

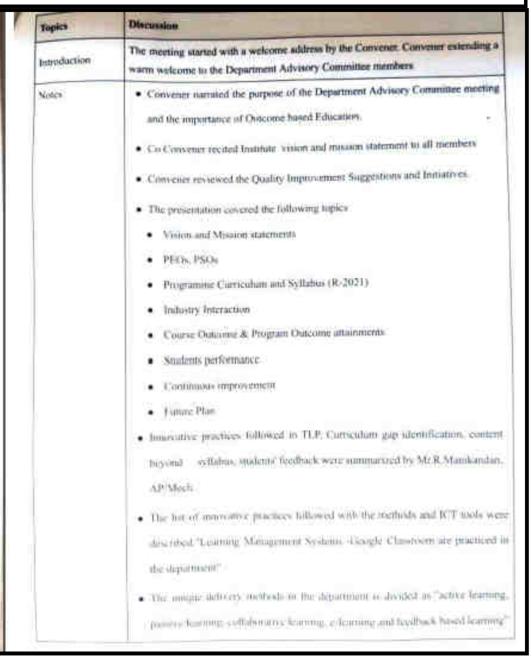
Mr. TN Jafar Ali / Asst. Prof/Mech - Internal Member

[illegible] - Alumni

[illegible] - Alumni

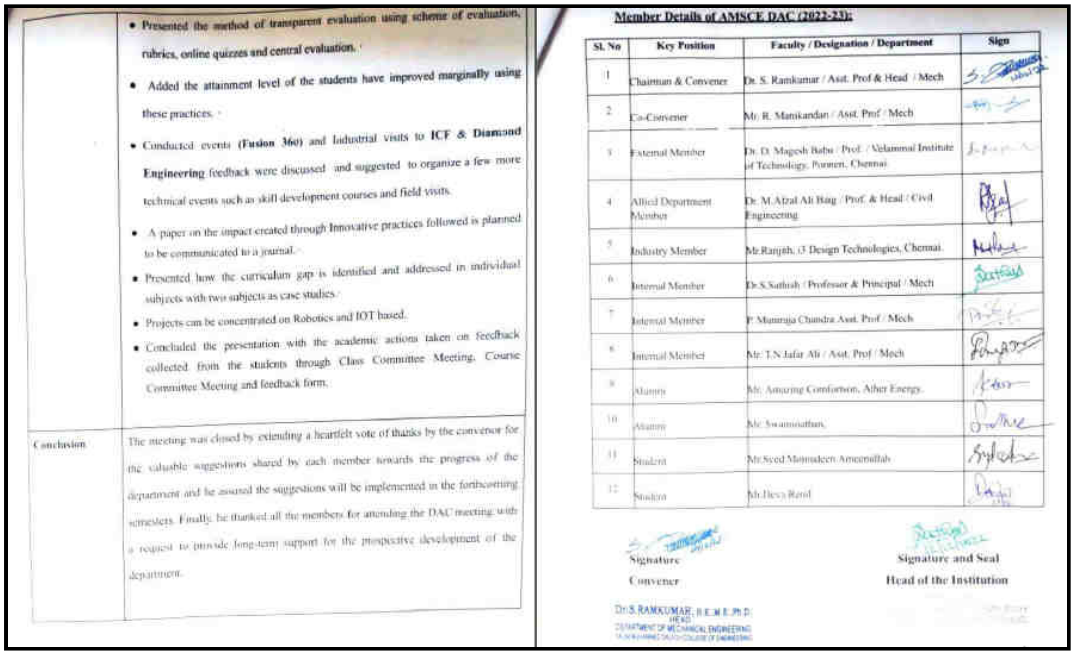
[illegible] - Student

[illegible] - Student



Topics	Discussion
Introduction	The meeting started with a welcome address by the Convener. Convener extending a warm welcome to the Department Advisory Committee members

Notes	• Convener narrated the purpose of the Department Advisory Committee meeting and the importance of Outcome based Education.
	• Co Convener recited Institute vision and mission statement to all members
	• Convener reviewed the Quality Improvement Suggestions and Initiatives.
	• The presentation covered the following topics
	  • Vision and Mission statements
	  • PEOs, PSOs
	  • Programme Curriculum and Syllabus (R-2021)
	  • Industry Interaction
	  • Course Outcome & Program Outcome attainments
	  • Students performance
	  • Continuous improvement
	  • Future Plan
	• Innovative practices followed in TLP, Curriculum gap identification, content beyond syllabus, students' feedback were summarized by Mr.R.Manikandan, AP/Mech
	• The list of innovative practices followed with the methods and ICT tools were described "Learning Management Systems -Google Classroom are practiced in the department"
	• The unique delivery methods in the department is divided as "active learning, passive learning, collaborative learning, e-learning and feedback based learning"



- Presented the method of transparent evaluation using scheme of evaluation, rubrics, online quizzes and central evaluation.
- Added the attainment level of the students have improved marginally using these practices.
- Conducted events **(Fusion 360)** and Industrial visits to **ICF & Diamond Engineering** feedback were discussed and suggested to organize a few more technical events such as skill development courses and field visits.
- A paper on the impact created through Innovative practices followed is planned to be communicated to a journal.
- Presented how the curriculum gap is identified and addressed in individual subjects with two subjects as case studies.
- Projects can be concentrated on Robotics and IOT based.
- Concluded the presentation with the academic actions taken on feedback collected from the students through Class Committee Meeting, Course Committee Meeting and feedback form.

Conclusion

The meeting was closed by extending a heartfelt vote of thanks by the convenor for the valuable suggestions shared by each member towards the progress of the department and he assured the suggestions will be implemented in the forthcoming semesters. Finally he thanked all the members for attending the DAC meeting with a request to provide long-term support for the prospective development of the department.

Member Details of AMSCE DAC (2022-23):

Sl. No	Key Position	Faculty / Designation / Department	Sign
1	Chairman & Convener	Dr. S. Ramkumar / Asst. Prof & Head / Mech	
2	Co-Convener	Mr. R. Manikandan / Asst. Prof / Mech	
3	External Member	Dr. D. Magesh Babu / Prof. / Velammal Institute of Technology, Ponneri, Chennai	
4	Allied Department Member	Dr. M.Afzal Ali Baig / Prof. & Head / Civil Engineering	
5	Industry Member	Mr.Ranjith, i3 Design Technologies, Chennai.	
6	Internal Member	Dr.S.Sathish / Professor & Principal / Mech	
7	Internal Member	P. Munuraja Chandra Asst. Prof / Mech	
8	Internal Member	Mr. T.N Jafar Ali / Asst. Prof / Mech	
9	Alumni	Mr. Ameering Comfortech, Ather Energy.	
10	Alumni	Mr. Swaminathan.	
11	Student	Mr.Syed Mohmadeen Ameenullah	
12	Student	Mr.Heva Raval	

Signature
Convener

Signature and Seal
Head of the Institution

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
A.M.S. ENGINEERING COLLEGE

Figure 1.13. DAC minutes of meeting.

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

Institute Marks : 15.00

A) PREPARATION OF A MATRIX OF PEOs AND ELEMENTS OF MISSION STATEMENT

Table: 1.2. Matrix mapping of PEOs with Mission statement of Department.

PEOs	MISSION		
	M1 To Provide Solid Practical and Theoretical Knowledge in Mechanical Engineering through active Learning and Teaching Methods	M2 To imbibe Moral Principles, Linear Thinking, and Entrepreneurial Spirit in Students Lives	M3 To Foster Life-long Learning to excel
PEO-1: Develop novel procedures to solve industrial challenges through the knowledge acquired in core engineering	3	2	3
PEO-2: Establish a business or sector as an entrepreneur with professionalism, effective leadership, teamwork, and moral principles to address societal needs	1	3	2
PEO-3: Develop sustainable solutions to fulfill the needs of society and build a brighter future by pursuing higher education	2	2	3

B) CONSISTENCY / JUSTIFICATION OF CO-RELATION PARAMETERS OF THE ABOVE MATRIX

PEO1-M1: ***Highly correlating-***Efficient teaching and learning process will inculcate better knowledge to industry ready.

PEO1-M2: ***Moderately correlating-***The spirit of innovation and creativity with core engineering skills will generate future entrepreneurs.

PEO1-M3: ***Highly correlating-***Skills in core engineering will motivate students to pursue higher education and lead scientific temper.

PEO2-M1: ***Low correlation-***Basic knowledge in engineering will help students to sustain in engineering and non-engineering sectors.

PEO2-M2: ***Highly correlating-***Encouraging students to participate in product development through interdisciplinary projects.

PEO2-M3: ***Moderately correlating-***Higher education in engineering and business fields will produce better cognitive professionals.

PEO3-M1: ***Moderately correlating-***Strong fundamental knowledge in mechanical engineering will persuade the students for higher education.

PEO3-M2: ***Moderately correlating-***Interdisciplinary and intradisciplinary projects will generate interest in other fields of engineering and provide impulse to pursue higher education.

PEO3-M3: ***Highly correlating-***Students will be provided with continuous awareness and exposure to cultivate the interest in higher education.

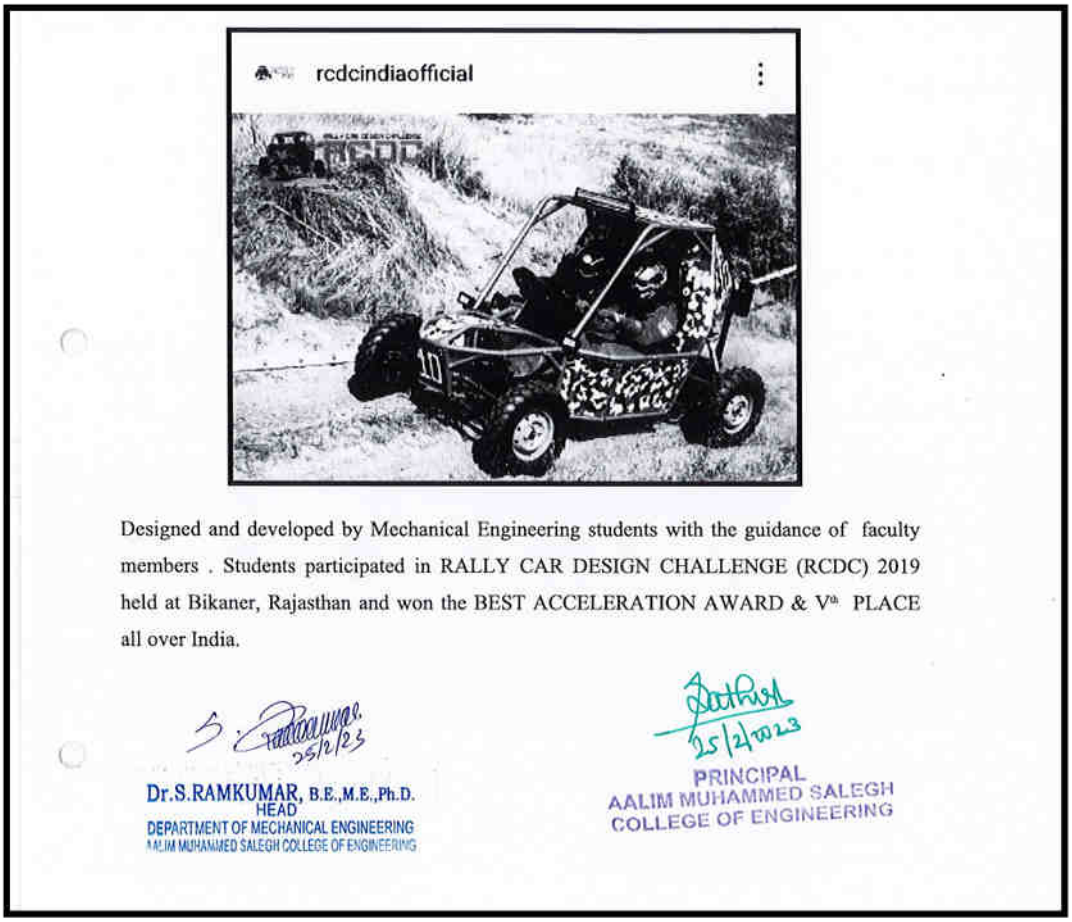
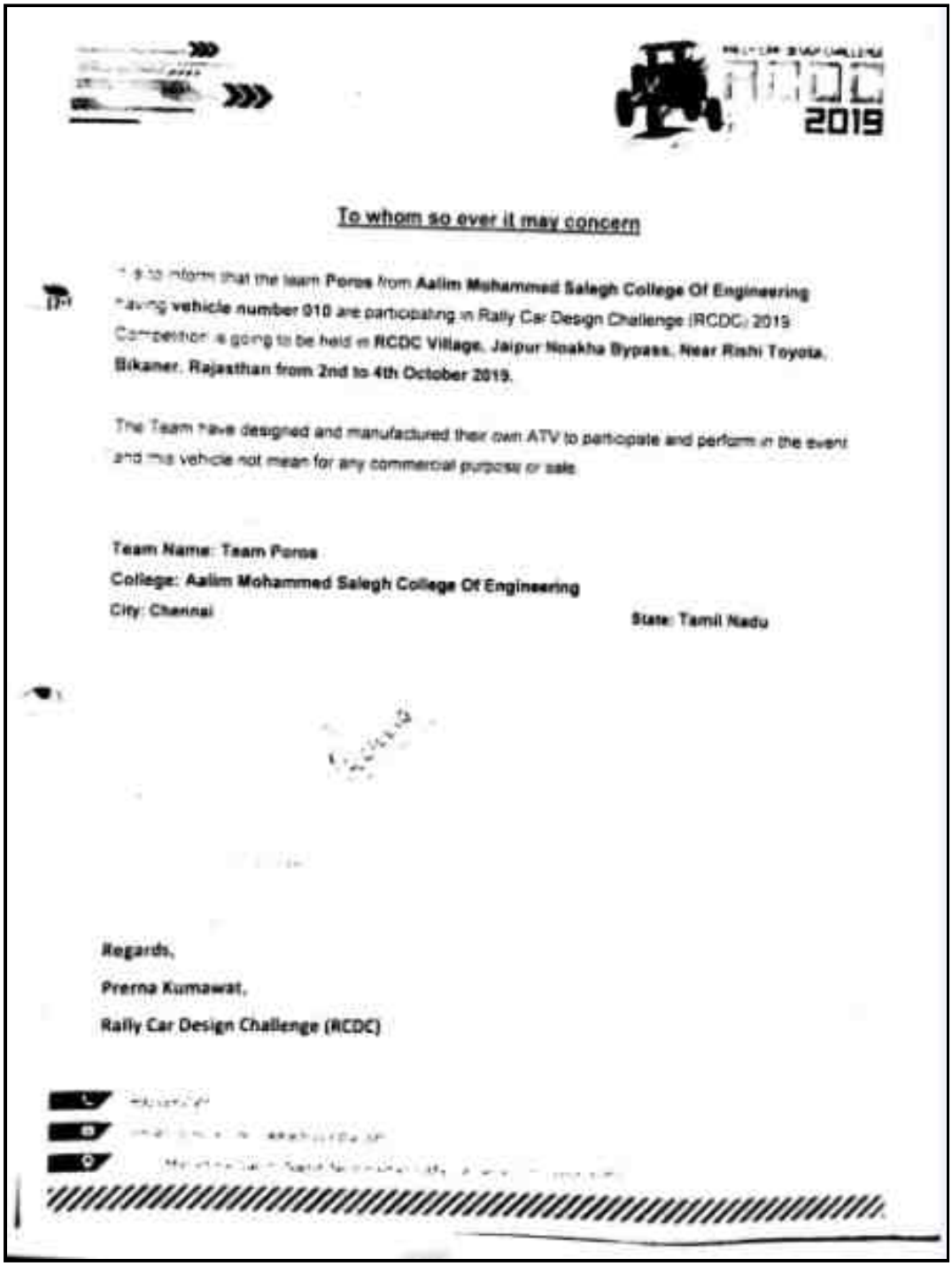


Figure 1.14. Rally Car Design Challenge (RCDC).



2019

To whom so ever it may concern

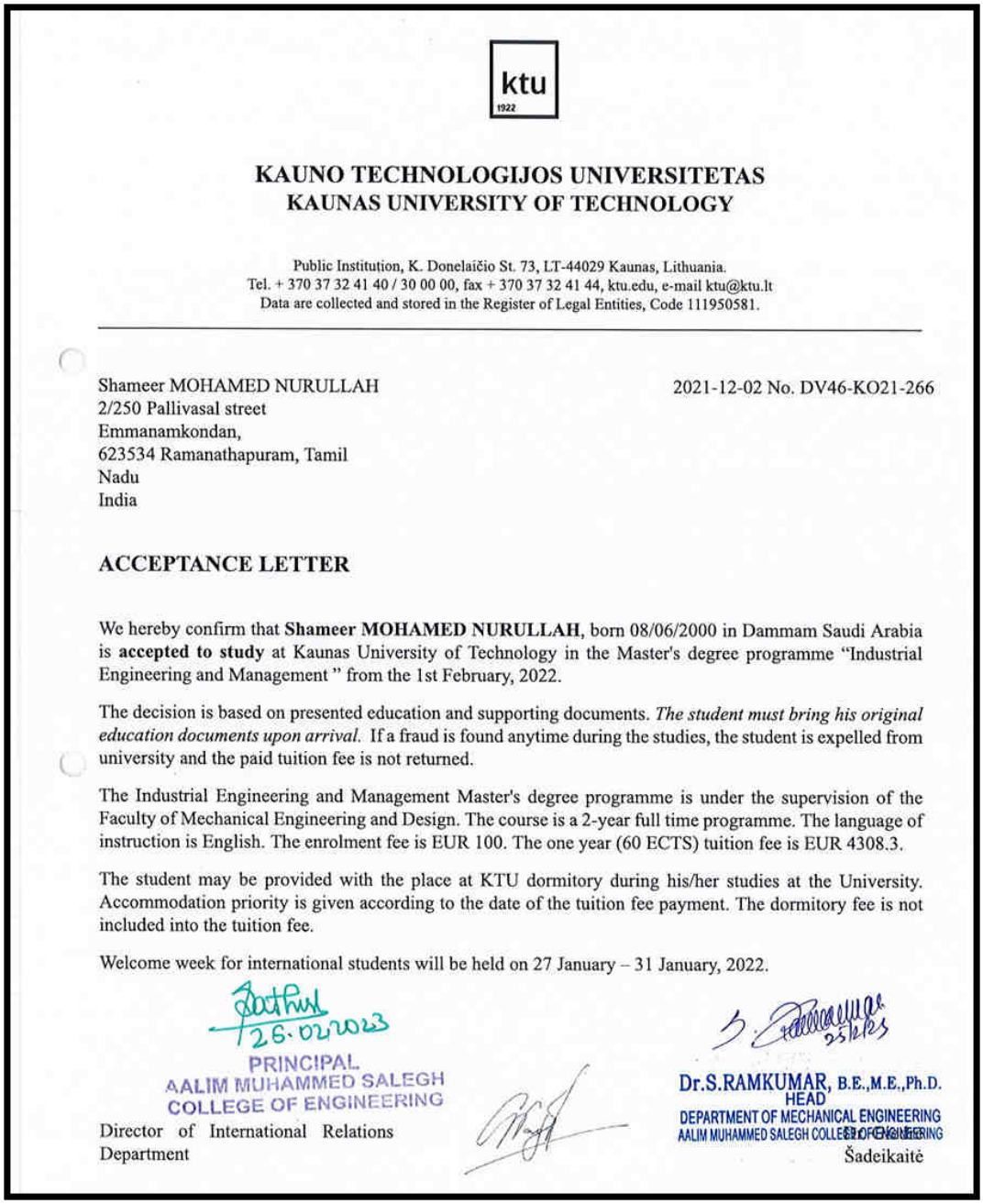
[illegible] to inform that the team **Ponos** from **Aalim Muhammed Salegh College Of Engineering** having **vehicle number 010** are participating in Rally Car Design Challenge (RCDC) 2019. Competition is going to be held in **RCDC Village, Jaipur Noakha Bypass, Near Rishi Toyota, Bikaner, Rajasthan from 2nd to 4th October 2019.**

The Team have designed and manufactured their own ATV to participate and perform in the event and this vehicle not mean for any commercial purpose or sale.

Team Name: Team Ponos
College: Aalim Mohammed Salegh College Of Engineering
City: Chennai **State: Tamil Nadu**

Regards,
Prerna Kumawat,
Rally Car Design Challenge (RCDC)

Figure 1.15. Proof of Solved Industrial Challenge (Inhouse Design & Development Rally Car Design-ATV).



KAUNO TECHNOLOGIJOS UNIVERSITETAS
KAUNAS UNIVERSITY OF TECHNOLOGY

Public Institution, K. Donelaičio St. 73, LT-44029 Kaunas, Lithuania.
Tel. + 370 37 32 41 40 / 30 00 00, fax + 370 37 32 41 44, ktu.edu, e-mail ktu@ktu.lt
Data are collected and stored in the Register of Legal Entities, Code 111950581.

Shameer MOHAMED NURULLAH
2/250 Pallivasal street
Emmanamkondan,
623534 Ramanathapuram, Tamil
Nadu
India

2021-12-02 No. DV46-KO21-266

ACCEPTANCE LETTER

We hereby confirm that **Shameer MOHAMED NURULLAH**, born 08/06/2000 in Dammam Saudi Arabia is **accepted to study** at Kaunas University of Technology in the Master's degree programme "Industrial Engineering and Management " from the 1st February, 2022.

The decision is based on presented education and supporting documents. *The student must bring his original education documents upon arrival.* If a fraud is found anytime during the studies, the student is expelled from university and the paid tuition fee is not returned.

The Industrial Engineering and Management Master's degree programme is under the supervision of the Faculty of Mechanical Engineering and Design. The course is a 2-year full time programme. The language of instruction is English. The enrolment fee is EUR 100. The one year (60 ECTS) tuition fee is EUR 4308.3.

The student may be provided with the place at KTU dormitory during his/her studies at the University. Accommodation priority is given according to the date of the tuition fee payment. The dormitory fee is not included into the tuition fee.

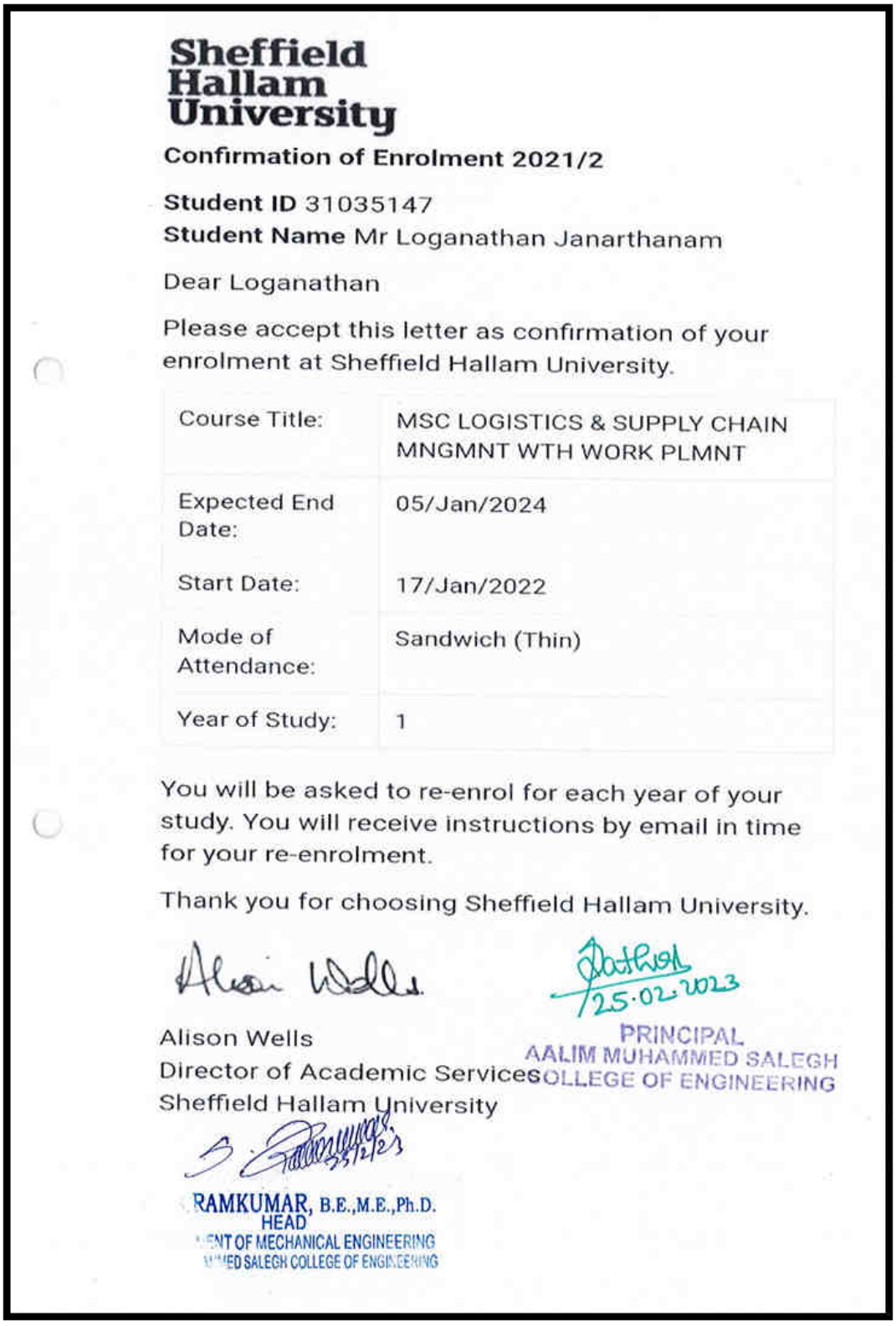
Welcome week for international students will be held on 27 January – 31 January, 2022.

26.02.2023
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Director of International Relations
Department
Šadeikaitė

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Figure 1.16. Proof of Higher Education (Shameer Mohamed Nurullah - Batch 2017-2021).



Sheffield Hallam University

Confirmation of Enrolment 2021/2

Student ID 31035147
Student Name Mr Loganathan Janarthanam

Dear Loganathan

Please accept this letter as confirmation of your enrolment at Sheffield Hallam University.

Course Title:	MSC LOGISTICS & SUPPLY CHAIN MNGMNT WTH WORK PLMNT
Expected End Date:	05/Jan/2024
Start Date:	17/Jan/2022
Mode of Attendance:	Sandwich (Thin)
Year of Study:	1

You will be asked to re-enrol for each year of your study. You will receive instructions by email in time for your re-enrolment.

Thank you for choosing Sheffield Hallam University.

Alison Wells
Director of Academic Services
Sheffield Hallam University

25.02.2023
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Figure 1.17. Proof of Higher Education (Loganathan Janarthanam Batch 2017-2021).

सत्यमेव जयते

Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number : 33EGPPM6839C1Z4

1.	**Legal Name**	Saleem Mohammed Waqqas			
2.	**Trade Name, if any**	G M S Bag Industries			
3.	**Constitution of Business**	Proprietorship			
4.	**Address of Principal Place of Business**	10, Dharga Street Main, Tirupattur, Vellore, Tamil Nadu, 635601			
5.	**Date of Liability**				
6.	**Period of Validity**	From	07/12/2021	To	Not Applicable
7.	**Type of Registration**	Regular			
8.	**Particulars of Approving Authority**	Centre			

Signature

Signature valid
Digitally signed by GOODS AND SERVICES TAX NETWORK(4)
Date: 2021.12.07 21:00:21 IST

Name	GANESHAN N
Designation	Superintendent
Jurisdictional Office	THIRUPPATTUR
9. Date of issue of Certificate	07/12/2021

Note: The registration certificate is required to be prominently displayed at all places of business in the State.

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 07/12/2021 by the jurisdictional authority.

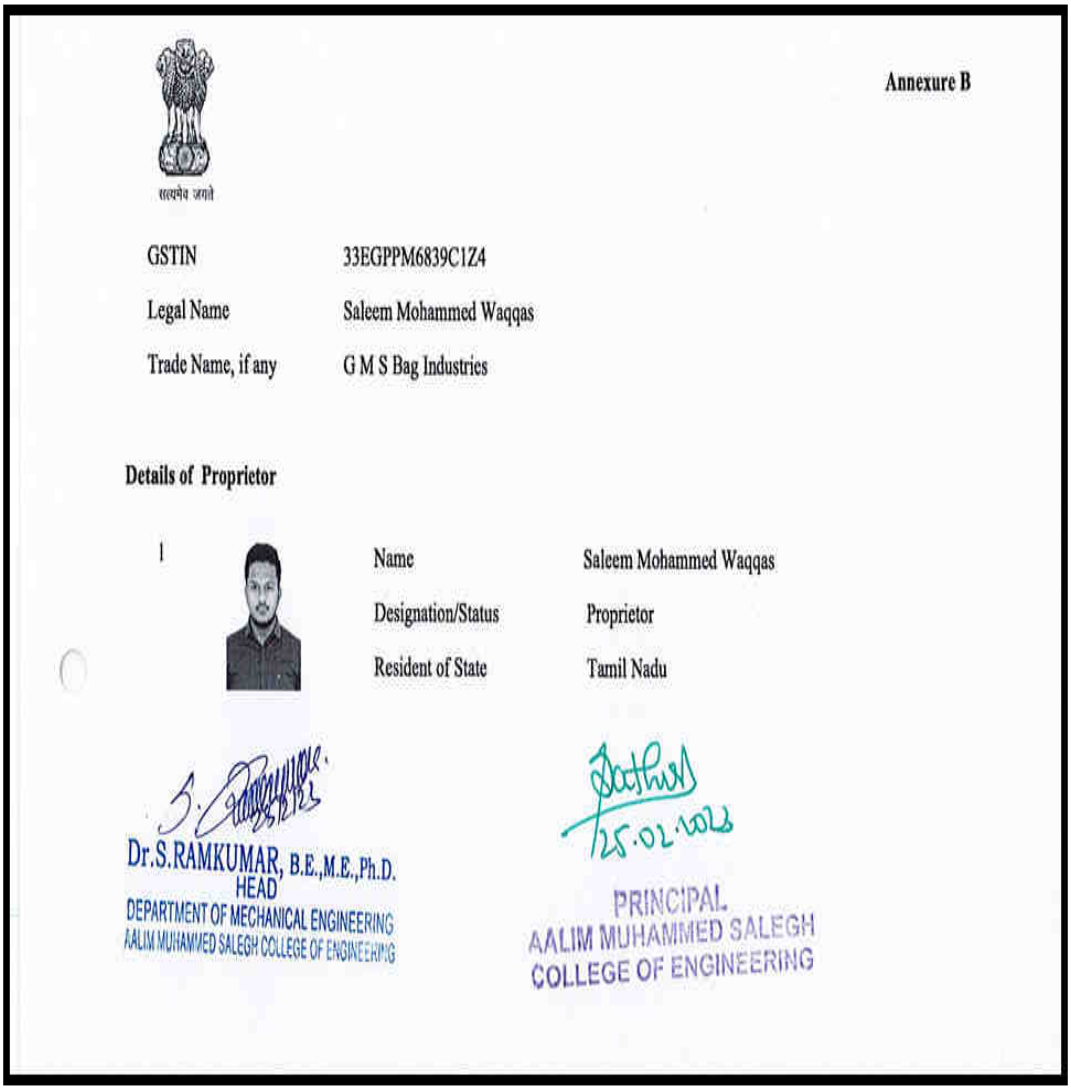
25.01.2023

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

25.01.2023

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 1.18. Proof of Entrepreneurship (Composite Materials Bag Manufacturing Industry).



Annexure B

सत्यमेव जयते

GSTIN	33EGPPM6839C1Z4
Legal Name	Saleem Mohammed Waqqas
Trade Name, if any	G M S Bag Industries

Details of Proprietor

1	Name	Saleem Mohammed Waqqas
	Designation/Status	Proprietor
	Resident of State	Tamil Nadu

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

25.02.2023

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 1.19. Proof of Entrepreneurship (Composite Materials Bag Manufacturing Industry).

PEO Statements	M1	M2	M3
DEVELOP NOVEL PROCEDURES TO SOLVE INDUSTRIAL CHALLENGES THROUGH THE KNOWLEDGE ACQUIRED IN CORE ENGINEERING	3	2	3
ESTABLISH A BUSINESS OR SECTOR AS AN ENTREPRENEUR WITH PROFESSIONALISM, EFFECTIVE LEADERSHIP, TEAMWORK, AND MORAL PRINCIPLES TO ADDRESS SOCIETAL NEEDS	1	3	2
DEVELOP SUSTAINABLE SOLUTIONS TO FULFILL THE NEEDS OF SOCIETY AND BUILD A BRIGHTER FUTURE BY PURSUING HIGHER EDUCATION	2	2	3

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

2.1 Program Curriculum (20) Total Marks 20.00

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

Institute Marks : 10.00

A) THE PROCESS USED TO IDENTIFY THE EXTENT OF COMPLIANCE OF THE UNIVERSITY CURRICULUM FOR ATTAINMENT OF POs & PSOs:

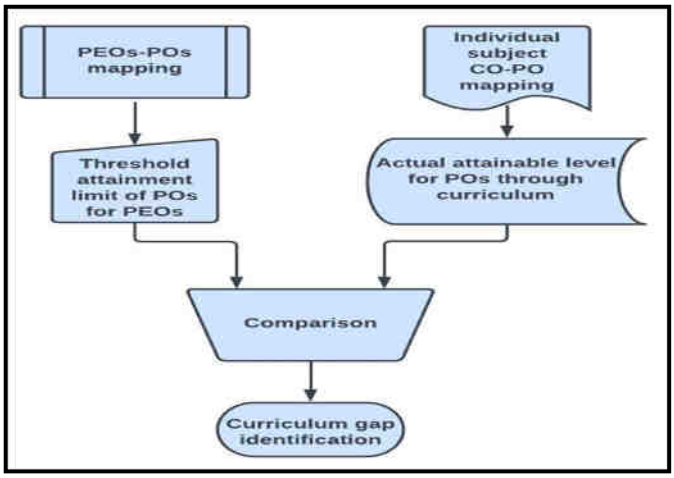


Figure 2.1. Gap Identification.

1. The Department Advisory Committee (DAC) with the help of course incharge will formulate the Course Outcomes (COs) and map them to the Program Outcomes (POs) and the Program Specific Outcomes (PSOs).

2. Using the above mapping of the Course Outcomes, the respective courses in the curriculum are mapped to the POs and PSOs.

3. The average percentage of mapping of the POs and PSOs to their respective courses in the curriculum is calculated using the formula:

$$Threshold = \frac{\sum PEO's\ weightage for\ specific\ PO}{\sum Total\ weightage\ of\ all\ POs}$$

4. If the average percentage of mapping for any PO or PSO is less than threshold limit, then the PO/PSO is identified as a weakly mapped PO/PSO with respect to the curriculum.

5. On the other hand, COs for all the courses will be matrix mapped to POs/PSOs and the average was calculated to find the actual attainable level through syllabus.

6. The actual attainable value was calculated using the below mentioned formula.

$$Actual = \frac{\sum COs\ weightage for\ specific\ PO\ of\ all\ subjects}{\sum Total\ weightage\ of\ all\ POs}$$

7. The Threshold value and Actual value will be compared to identify the unattainable POs/PSOs only through syllabus.

8. DAC will intimate the Course Committee (CC) to identify the subject and area of improvement to attain the unattainable POs in all the courses of the program and label it as curriculum

9. A letter containing suggestion to improve in identified subjects will be sent to The Director, Centre for Academic Courses, Anna University through The Principle

Table 2.1.The mapping of POs and PSOs to individual courses in the curriculum is shown in the table below.

PEO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PEO1	3	3	3	3	2	1	1	1	1	1	1	2	3	2
PEO2	2	2	2	2	1	2	2	2	3	3	3	1	2	2
PEO3	2	1	1	1	1	3	1	1	0	1	0	3	2	1
SUM	7	6	6	6	4	6	4	4	4	5	4	6	7	5
THRESHOLD	9.5	8.2	8.2	8.2	5.5	8.2	5.5	5.5	5.5	6.8	5.5	8.2	9.5	6.8
Normalised to 3	2.33	2	2	2	1.33	2	1.33	1.33	1.33	1.66	1.33	2	2.33	1.66

S.NO	SEM/ YEAR	SUBJECT NAME	COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2

1	I/I	**Communicative English (HS8151)**	CO1	**0**	**1**	**1**	**2**	**0**	**0**	**1**	**0**	**3**	**3**	**1**	**2**	**2**	**3**
			CO2	**0**	**2**	**1**	**1**	**1**	**0**	**2**	**1**	**3**	**3**	**1**	**3**	**3**	**2**
			CO3	**0**	**1**	**2**	**1**	**2**	**0**	**1**	**0**	**3**	**3**	**0**	**3**	**2**	**3**
			CO4	**0**	**2**	**1**	**2**	**1**	**1**	**2**	**2**	**3**	**3**	**1**	**2**	**3**	**3**
			CO5	**0**	**3**	**1**	**2**	**1**	**1**	**1**	**2**	**3**	**3**	**1**	**3**	**2**	**3**
2	I/I	**Engineering Mathematics – I(MA8151)**	CO1	**3**	**3**	**1**	**3**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**2**	**3**	**3**
			CO2	**3**	**2**	**1**	**3**	**0**	**0**	**1**	**0**	**1**	**1**	**2**	**1**	**3**	**3**
			CO3	**3**	**2**	**1**	**3**	**0**	**0**	**1**	**0**	**1**	**1**	**2**	**3**	**3**	**3**
			CO4	**3**	**2**	**1**	**3**	**0**	**0**	**1**	**0**	**1**	**1**	**3**	**2**	**3**	**3**
			CO5	**3**	**2**	**1**	**3**	**0**	**0**	**2**	**0**	**1**	**1**	**3**	**3**	**3**	**3**
3	I/I	**Engineering Physics(PH8151)**	CO1	**3**	**3**	**3**	**3**	**2**	**1**	**3**	**1**	**1**	**0**	**0**	**1**	**3**	**1**
			CO2	**3**	**2**	**2**	**1**	**1**	**2**	**0**	**2**	**1**	**2**	**0**	**2**	**2**	**1**
			CO3	**3**	**2**	**2**	**3**	**1**	**2**	**1**	**1**	**1**	**0**	**0**	**2**	**3**	**2**
			CO4	**3**	**2**	**1**	**2**	**2**	**1**	**2**	**2**	**2**	**1**	**0**	**2**	**2**	**1**
			CO5	**3**	**3**	**3**	**2**	**2**	**1**	**2**	**1**	**2**	**1**	**0**	**2**	**3**	**1**
4	I/I	**Engineering Chemistry(CY8151)**	CO1	**3**	**1**	**3**	**3**	**0**	**0**	**0**	**1**	**2**	**2**	**1**	**2**	**3**	**0**
			CO2	**3**	**1**	**2**	**0**	**0**	**0**	**1**	**0**	**1**	**1**	**0**	**1**	**0**	**0**
			CO3	**3**	**3**	**2**	**3**	**1**	**1**	**0**	**0**	**1**	**1**	**0**	**2**	**0**	**0**
			CO4	**3**	**3**	**1**	**1**	**1**	**0**	**2**	**0**	**1**	**1**	**1**	**3**	**0**	**0**
			CO5	**3**	**0**	**3**	**2**	**1**	**0**	**2**	**0**	**3**	**2**	**1**	**3**	**0**	**3**
5	I/I	**Problem Solving and Python Programming(GE8151)**	CO1	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**1**
			CO2	**0**	**3**	**3**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**1**
			CO3	**0**	**3**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**1**
			CO4	**3**	**3**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**
			CO5	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**1**
6	I/I	**Engineering Graphics(GE8152)**	CO1	**3**	**3**	**2**	**1**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**3**
			CO2	**3**	**3**	**2**	**1**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**3**
			CO3	**3**	**3**	**2**	**1**	**3**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**3**
			CO4	**3**	**3**	**2**	**1**	**3**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**3**
			CO5	**3**	**3**	**2**	**1**	**3**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**3**
7	I/I	**Problem Solving and Python Programming Laboratory(GE8161)**	CO1	**3**	**3**	**3**	**3**	**3**	**0**	**1**	**0**	**2**	**2**	**3**	**0**	**3**	**3**
			CO2	**3**	**3**	**3**	**3**	**3**	**0**	**1**	**0**	**2**	**2**	**3**	**0**	**3**	**3**
			CO3	**3**	**3**	**3**	**3**	**3**	**0**	**1**	**0**	**2**	**2**	**3**	**0**	**3**	**3**
			CO4	**3**	**3**	**3**	**3**	**3**	**0**	**1**	**0**	**2**	**2**	**3**	**0**	**3**	**3**
			CO5	**3**	**3**	**3**	**3**	**3**	**0**	**1**	**0**	**2**	**2**	**3**	**0**	**3**	**3**

8	I/I	**Physics and Chemistry Laboratory(BS8161)**	CO1	**3**	**3**	**2**	**2**	**2**	**1**	**3**	**1**	**2**	**2**	**2**	**2**	**2**	**2**
			CO2	**3**	**3**	**2**	**2**	**2**	**1**	**2**	**1**	**2**	**2**	**1**	**2**	**2**	**2**
			CO3	**3**	**3**	**3**	**2**	**3**	**0**	**2**	**2**	**2**	**3**	**2**	**3**	**2**	**2**
			CO4	**2**	**2**	**2**	**2**	**2**	**0**	**2**	**1**	**1**	**1**	**1**	**2**	**2**	**2**
			CO5	**3**	**3**	**2**	**2**	**1**	**0**	**3**	**1**	**1**	**1**	**1**	**2**	**2**	**2**
9	I/II	**Technical English(HS8251)**	CO1	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**0**	**3**	**3**	**1**
			CO2	**0**	**2**	**1**	**2**	**2**	**1**	**2**	**1**	**3**	**3**	**0**	**3**	**3**	**1**
			CO3	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**3**	**3**	**0**	**3**	**3**	**2**
			CO4	**0**	**1**	**1**	**2**	**1**	**1**	**1**	**2**	**3**	**3**	**0**	**3**	**2**	**2**
			CO5	**0**	**1**	**1**	**2**	**1**	**1**	**1**	**3**	**3**	**3**	**1**	**2**	**3**	**3**
10	I/II	**Engineering Mathematics – II(MA8251)**	CO1	**3**	**3**	**3**	**3**	**1**	**0**	**1**	**1**	**1**	**1**	**2**	**3**	**3**	**3**
			CO2	**2**	**2**	**1**	**2**	**1**	**0**	**1**	**0**	**1**	**2**	**2**	**2**	**3**	**3**
			CO3	**3**	**3**	**3**	**3**	**1**	**0**	**1**	**0**	**1**	**2**	**3**	**2**	**3**	**3**
			CO4	**3**	**3**	**2**	**1**	**0**	**0**	**1**	**0**	**1**	**2**	**1**	**2**	**3**	**3**
			CO5	**3**	**3**	**3**	**3**	**1**	**0**	**1**	**0**	**1**	**2**	**1**	**3**	**3**	**3**
11	I/II	**Materials Science(PH8251)**	CO1	**3**	**3**	**3**	**2**	**1**	**0**	**2**	**1**	**1**	**1**	**0**	**2**	**2**	**1**
			CO2	**3**	**3**	**3**	**2**	**2**	**0**	**1**	**2**	**1**	**1**	**0**	**1**	**1**	**2**
			CO3	**3**	**2**	**2**	**2**	**3**	**0**	**2**	**2**	**2**	**1**	**1**	**2**	**2**	**2**
			CO4	**3**	**3**	**3**	**3**	**2**	**0**	**2**	**2**	**1**	**2**	**1**	**2**	**2**	**1**
			CO5	**3**	**3**	**3**	**3**	**3**	**0**	**2**	**2**	**2**	**1**	**1**	**2**	**2**	**2**
12	I/II	**Basic Electrical, Electronicsand Instrumentation Engineering(BE8253)**	CO1	3	3	2	2	2	0	2	1	1	2	2	3	1	2
			CO2	3	3	2	2	1	0	1	1	1	2	1	3	1	1
			CO3	3	3	3	2	2	0	2	1	1	2	2	3	1	2
			CO4	2	2	2	2	3	0	2	1	1	1	2	3	1	2
			CO5	2	1	2	2	2	0	2	1	1	1	2	3	1	1
13	I/II	**Environmental Science and Engineering(GE8291)**	CO1	**3**	**0**	**0**	**2**	**1**	**2**	**3**	**3**	**2**	**2**	**2**	**3**	**0**	**0**
			CO2	**3**	**2**	**3**	**2**	**1**	**2**	**3**	**1**	**2**	**2**	**2**	**3**	**3**	**0**
			CO3	**3**	**1**	**2**	**1**	**0**	**1**	**3**	**2**	**1**	**1**	**1**	**3**	**0**	**0**
			CO4	**3**	**3**	**3**	**2**	**0**	**1**	**3**	**1**	**1**	**2**	**1**	**3**	**0**	**0**
			CO5	**3**	**3**	**3**	**0**	**3**	**3**	**1**	**0**	**2**	**2**	**2**	**3**	**0**	**3**
14	I/II	**Engineering Mechanics(GE8292)**	CO1	**3**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**2**	**3**	**2**
			CO2	**3**	**3**	**2**	**1**	**0**	**0**	**1**	**0**	**2**	**1**	**2**	**2**	**3**	**3**
			CO3	**3**	**3**	**2**	**1**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**2**	**2**	**2**
			CO4	**3**	**2**	**1**	**1**	**0**	**0**	**1**	**0**	**2**	**2**	**0**	**2**	**3**	**2**
			CO5	**3**	**1**	**1**	**2**	**0**	**0**	**1**	**0**	**2**	**0**	**2**	**2**	**3**	**2**

15	I/II	**Engineering Practices Laboratory(GE8261)**	CO1	**3**	**3**	**3**	**3**	**3**	**0**	**1**	**1**	**3**	**3**	**1**	**3**	**3**	**2**
			CO2	**3**	**3**	**3**	**3**	**2**	**0**	**2**	**1**	**3**	**3**	**1**	**3**	**3**	**2**
			CO3	**3**	**3**	**3**	**3**	**2**	**0**	**2**	**1**	**3**	**3**	**1**	**3**	**3**	**2**
			CO4	**3**	**3**	**3**	**3**	**2**	**0**	**2**	**1**	**3**	**3**	**1**	**3**	**3**	**2**
			CO5	**3**	**3**	**3**	**3**	**2**	**0**	**2**	**1**	**3**	**3**	**1**	**3**	**3**	**2**
16	I/II	**Basic Electrical, Electronics Engineering Laboratory(BE8261)**	CO1	**3**	**3**	**2**	**2**	**2**	**0**	**2**	**1**	**1**	**2**	**2**	**3**	**2**	**3**
			CO2	**3**	**2**	**3**	**3**	**2**	**0**	**2**	**1**	**1**	**2**	**1**	**3**	**3**	**2**
			CO3	**3**	**3**	**2**	**2**	**2**	**0**	**1**	**1**	**2**	**2**	**2**	**3**	**3**	**2**
			CO4	**3**	**3**	**3**	**3**	**3**	**0**	**1**	**1**	**2**	**2**	**2**	**3**	**2**	**2**
			CO5	**3**	**2**	**3**	**2**	**2**	**0**	**2**	**1**	**1**	**2**	**2**	**3**	**2**	**3**
17	II/ III	**Transforms and Partial DifferentialEquations(MA8353)**	CO1	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO2	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO3	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO4	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO5	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
18	II/ III	**Engineering Thermodynamics(ME8391)**	CO1	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO2	**2**	**1**	**1**	**2**	**1**	**0**	**2**	**0**	**1**	**0**	**0**	**3**	**2**	**2**
			CO3	**2**	**2**	**1**	**2**	**1**	**0**	**2**	**0**	**1**	**0**	**0**	**3**	**2**	**2**
			CO4	**2**	**2**	**1**	**3**	**1**	**0**	**2**	**0**	**1**	**0**	**0**	**3**	**2**	**2**
			CO5	**2**	**2**	**1**	**3**	**0**	**0**	**2**	**0**	**1**	**0**	**0**	**3**	**2**	**2**
19	II/ III	**Fluid Mechanics and Machinery(CE8394)**	CO1	**3**	**3**	**3**	**3**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**2**	**2**
			CO2	**3**	**3**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**2**
			CO3	**3**	**3**	**3**	**3**	**0**	**1**	**0**	**0**	**2**	**0**	**0**	**0**	**2**	**2**
			CO4	**2**	**3**	**3**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**2**
			CO5	**2**	**3**	**3**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**2**
20	II/ III	**Manufacturing Technology – I(ME8351)**	CO1	**3**	**1**	**3**	**3**	**3**	**1**	**3**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
			CO2	**3**	**2**	**3**	**3**	**3**	**1**	**3**	**0**	**2**	**0**	**0**	**3**	**3**	**3**
			CO3	**3**	**2**	**3**	**3**	**3**	**1**	**3**	**0**	**2**	**0**	**0**	**3**	**3**	**3**
			CO4	**3**	**2**	**3**	**3**	**3**	**1**	**3**	**0**	**2**	**0**	**0**	**3**	**3**	**3**
			CO5	**3**	**2**	**3**	**3**	**3**	**1**	**3**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
21	II/ III	**Electrical Drives and Controls(EE8353)**	CO1	**3**	**3**	**3**	**0**	**0**	**0**	**3**	**0**	**3**	**0**	**0**	**0**	**1**	**2**
			CO2	**3**	**3**	**3**	**0**	**0**	**0**	**3**	**0**	**3**	**0**	**0**	**0**	**1**	**2**
			CO3	**2**	**3**	**2**	**0**	**0**	**0**	**2**	**0**	**2**	**0**	**0**	**0**	**2**	**2**
			CO4	**3**	**2**	**3**	**0**	**0**	**0**	**3**	**0**	**3**	**0**	**0**	**0**	**2**	**2**
			CO5	**3**	**2**	**2**	**0**	**0**	**0**	**3**	**0**	**3**	**0**	**0**	**0**	**2**	**2**

22	II/ III	**Manufacturing Technology Laboratory – I(ME8361)**	CO1	**3**	**2**	**3**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO2	**3**	**2**	**3**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO3	**3**	**2**	**3**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO4	**3**	**2**	**3**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO5	**3**	**2**	**3**	**1**	**2**	**1**	**2**	**1**	**1**	**1**	**2**	**3**	**3**	**3**
23	II/ III	**Computer Aided Machine Drawing(ME8381)**	CO1	**3**	**2**	**3**	**0**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO2	**3**	**2**	**3**	**0**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO3	**3**	**2**	**3**	**0**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO4	**3**	**2**	**3**	**0**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO5	**3**	**2**	**3**	**0**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
24	II/ III	**Electrical Engineering Laboratory(EE8361)**	CO1	**3**	**3**	**3**	**3**	**2**	**0**	**3**	**2**	**3**	**2**	**1**	**3**	**1**	**1**
			CO2	**3**	**3**	**1**	**3**	**1**	**0**	**1**	**3**	**1**	**1**	**2**	**3**	**1**	**2**
			CO3	**2**	**3**	**1**	**3**	**1**	**0**	**2**	**1**	**3**	**2**	**1**	**2**	**1**	**3**
			CO4	**1**	**3**	**3**	**2**	**2**	**0**	**2**	**1**	**3**	**1**	**3**	**1**	**1**	**2**
			CO5	**2**	**1**	**3**	**2**	**1**	**0**	**3**	**2**	**1**	**1**	**3**	**2**	**1**	**1**
25	II/ III	**Interpersonal Skills / Listening &Speaking(HS8381)**	CO1	**2**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**0**	**3**	**3**	**1**
			CO2	**2**	**2**	**1**	**2**	**2**	**1**	**2**	**1**	**3**	**3**	**0**	**3**	**3**	**1**
			CO3	**2**	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**3**	**3**	**0**	**3**	**3**	**2**
			CO4	**2**	**1**	**1**	**2**	**1**	**1**	**1**	**2**	**3**	**3**	**0**	**3**	**2**	**2**
			CO5	**2**	**1**	**1**	**2**	**1**	**1**	**1**	**3**	**3**	**3**	**1**	**2**	**3**	**3**
26	II/ IV	**Statistics and Numerical Methods(MA8452)**	CO1	**3**	**3**	**3**	**3**	**2**	**0**	**1**	**0**	**1**	**0**	**3**	**3**	**3**	**3**
			CO2	**3**	**3**	**3**	**3**	**2**	**0**	**1**	**0**	**2**	**0**	**3**	**3**	**3**	**3**
			CO3	**3**	**3**	**3**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**3**	**3**
			CO4	**3**	**3**	**3**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**3**	**3**
			CO5	**3**	**3**	**3**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**3**	**3**
27	II/ IV	**Kinematics of Machinery(ME8492)**	CO1	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**3**
			CO2	**3**	**3**	**3**	**3**	**1**	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**3**	**2**
			CO3	**3**	**3**	**3**	**3**	**2**	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**3**	**2**
			CO4	**3**	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**1**	**0**	**3**	**3**	**2**
			CO5	**3**	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**1**	**0**	**3**	**3**	**3**
28	II/ IV	**Manufacturing Technology – II(ME8451)**	CO1	**3**	**1**	**2**	**1**	**1**	**1**	**3**	**0**	**0**	**1**	**1**	**3**	**3**	**3**
			CO2	**3**	**2**	**2**	**1**	**1**	**1**	**3**	**0**	**0**	**1**	**1**	**3**	**3**	**3**
			CO3	**3**	**2**	**3**	**3**	**1**	**1**	**1**	**0**	**2**	**0**	**0**	**3**	**3**	**3**
			CO4	**3**	**2**	**3**	**3**	**1**	**1**	**1**	**0**	**2**	**0**	**0**	**3**	**3**	**3**
			CO5	**3**	**2**	**3**	**3**	**3**	**1**	**3**	**0**	**0**	**1**	**1**	**3**	**3**	**3**

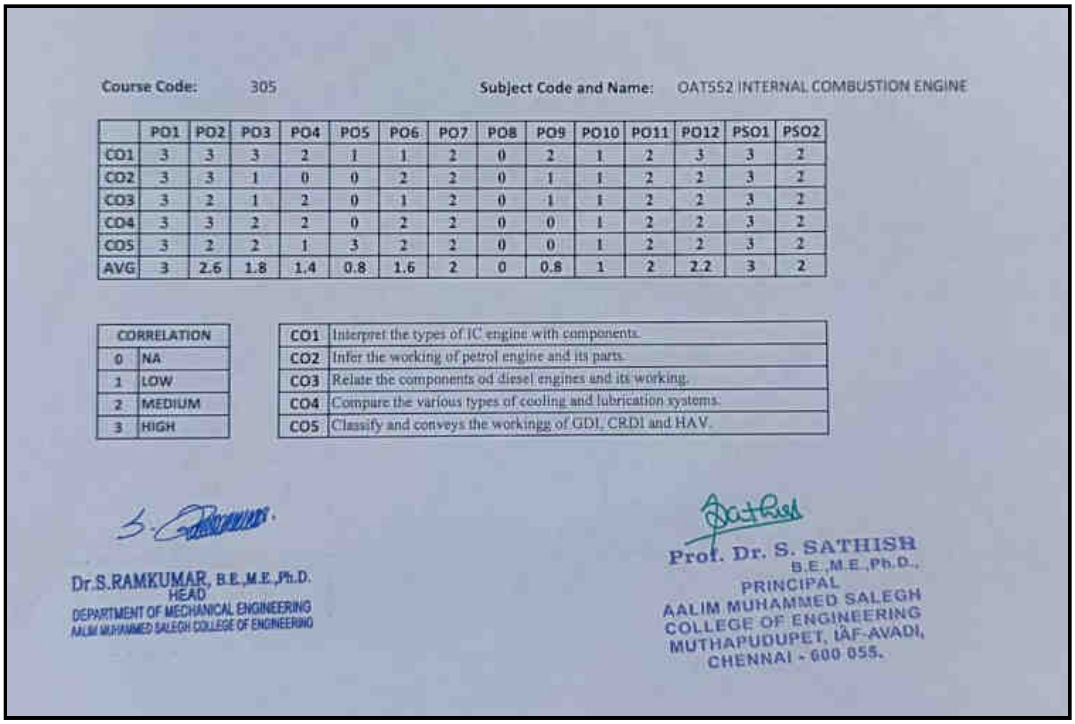
29	II/ IV	**Engineering Metallurgy(ME8491)**	CO1	3	2	3	0	0	0	1	0	0	1	0	3	3	3
			CO2	3	2	3	0	1	1	2	0	0	1	0	3	3	3
			CO3	3	2	3	0	1	1	2	0	0	1	1	3	3	3
			CO4	3	2	3	0	1	1	2	0	0	1	1	3	3	3
			CO5	3	2	3	1	2	1	2	0	0	1	2	3	3	3
30	II/ IV	**Strength of Materials for Mechanical Engineers(CE8395)**	CO1	3	2	3	3	3	0	1	0	0	0	0	3	3	3
			CO2	3	3	3	3	3	0	1	0	0	0	0	3	3	3
			CO3	2	3	2	3	3	0	0	0	0	0	1	3	3	3
			CO4	3	2	3	3	3	0	0	1	1	0	1	3	3	3
			CO5	3	3	3	3	3	0	1	1	1	1	1	3	3	3
31	II/ IV	**Thermal Engineering-I(ME8493)**	CO1	2	2	2	1	0	0	1	0	0	0	0	3	3	3
			CO2	2	2	2	2	0	0	1	0	0	0	0	3	3	3
			CO3	2	1	2	1	1	0	1	0	0	0	0	3	3	3
			CO4	2	1	2	2	1	0	1	1	0	0	0	3	3	3
			CO5	2	2	2	1	2	0	1	1	1	0	1	3	3	3
32	II/ IV	**Manufacturing TechnologyLaboratory – II(ME8462)**	CO1	3	3	3	3	2	0	3	2	3	2	1	3	1	1
			CO2	3	3	1	3	1	0	1	3	1	1	2	3	1	2
			CO3	2	3	1	3	1	0	2	1	3	2	1	2	1	3
			CO4	1	3	3	2	2	0	2	1	3	1	3	1	1	2
			CO5	2	1	3	2	1	0	1	2	1	1	3	2	1	1
33	II/ IV	**Strength of Materials and Fluid Mechanics and Machinery Laboratory(CE8381)**	CO1	3	2	3	1	1	1	1	1	1	1	1	3	3	3
			CO2	3	2	3	1	1	1	2	1	1	1	1	3	3	3
			CO3	3	2	3	1	1	1	2	1	1	1	1	3	3	3
			CO4	3	2	3	1	1	1	2	1	1	1	1	3	3	3
			CO5	3	2	3	1	2	1	2	1	1	1	2	3	3	3
34	II/ IV	**Advanced Reading and Writing(HS8461)**	CO1	0	1	1	2	0	1	1	0	3	3	1	2	2	3
			CO2	0	2	1	1	1	1	2	1	3	3	1	3	3	2
			CO3	0	1	2	1	2	1	1	0	3	3	0	3	2	3
			CO4	0	2	1	2	1	1	2	2	3	3	1	2	3	3
			CO5	0	3	1	2	1	1	1	2	3	3	1	3	2	3
35	III/V	**Thermal Engineering-II(ME8595)**	CO1	3	3	3	3	1	0	0	0	0	0	1	3	2	2
			CO2	3	3	3	3	1	0	0	0	0	0	1	3	2	2
			CO3	3	3	3	3	2	0	0	0	0	0	0	2	3	2
			CO4	3	3	3	3	3	0	0	0	0	0	0	3	3	2
			CO5	2	3	3	3	3	0	0	0	0	0	0	3	3	2

36	III/V	**Design of Machine Elements(ME8593)**	CO1	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**2**	**2**	**1**	**3**	**3**
			CO2	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**2**	**3**	**3**
			CO3	**3**	**3**	**3**	**3**	**0**	**2**	**2**	**0**	**0**	**0**	**2**	**2**	**3**	**3**
			CO4	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
			CO5	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**2**	**2**	**2**	**3**	**3**
37	III/V	**Metrology and Measurements(ME8501)**	CO1	**3**	**3**	**3**	**2**	**0**	**2**	**0**	**0**	**0**	**2**	**0**	**2**	**2**	**2**
			CO2	**3**	**3**	**3**	**2**	**0**	**2**	**0**	**0**	**0**	**2**	**0**	**2**	**3**	**2**
			CO3	**3**	**3**	**3**	**2**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**2**
			CO4	**3**	**3**	**3**	**2**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**2**
			CO5	**3**	**3**	**3**	**2**	**0**	**2**	**0**	**0**	**0**	**1**	**0**	**2**	**3**	**2**
38	III/V	**Dynamics of Machines(ME8594)**	CO1	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**3**	**3**	**2**
			CO2	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**3**	**3**	**2**
			CO3	**3**	**3**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**3**	**3**	**2**
			CO4	**3**	**3**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**3**	**3**	**2**
			CO5	**3**	**3**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**3**	**3**	**2**
39	III/V	**Internal combustion engine(OAT552)**	CO1	**3**	**3**	**3**	**2**	**1**	**1**	**2**	**0**	**2**	**1**	**2**	**3**	**3**	**2**
			CO2	**3**	**3**	**1**	**0**	**0**	**2**	**2**	**0**	**1**	**1**	**2**	**2**	**3**	**2**
			CO3	**3**	**2**	**1**	**2**	**0**	**1**	**2**	**0**	**1**	**1**	**2**	**2**	**3**	**2**
			CO4	**3**	**3**	**2**	**2**	**0**	**2**	**2**	**0**	**0**	**1**	**2**	**2**	**3**	**2**
			CO5	**3**	**2**	**2**	**1**	**3**	**2**	**2**	**0**	**0**	**1**	**2**	**2**	**3**	**2**
40	III/V	**Kinematics and Dynamics Laboratory(ME8511)**	CO1	**3**	**2**	**3**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO2	**3**	**2**	**3**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO3	**3**	**2**	**3**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO4	**3**	**2**	**3**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**3**	**3**	**3**
			CO5	**3**	**2**	**3**	**1**	**2**	**1**	**2**	**1**	**1**	**1**	**2**	**3**	**3**	**3**
41	III/V	**Thermal Engineering Laboratory(ME8512)**	CO1	**3**	**3**	**2**	**2**	**1**	**2**	**3**	**0**	**2**	**2**	**2**	**2**	**2**	**3**
			CO2	**3**	**3**	**2**	**2**	**1**	**2**	**3**	**0**	**2**	**2**	**2**	**2**	**2**	**3**
			CO3	**3**	**3**	**2**	**2**	**2**	**2**	**1**	**0**	**2**	**2**	**2**	**2**	**2**	**3**
			CO4	**3**	**3**	**2**	**2**	**2**	**2**	**1**	**0**	**2**	**2**	**2**	**2**	**2**	**3**
			CO5	**3**	**3**	**2**	**2**	**2**	**2**	**3**	**0**	**2**	**2**	**2**	**2**	**2**	**3**
42	III/V	**Metrology and Measurements Laboratory(ME8513)**	CO1	3	3	2	2	2	2	3	0	2	2	2	2	2	3
			CO2	**3**	**2**	**0**	**2**	**2**	**2**	**1**	**1**	**0**	**1**	**1**	**3**	**2**	**3**
			CO3	**3**	**3**	**0**	**2**	**3**	**2**	**1**	**1**	**0**	**1**	**2**	**3**	**2**	**3**
			CO4	**3**	**3**	**0**	**2**	**2**	**2**	**1**	**1**	**0**	**1**	**2**	**3**	**2**	**3**
			CO5	**3**	**3**	**0**	**2**	**2**	**2**	**1**	**1**	**0**	**1**	**2**	**3**	**2**	**3**

43	III/VI	**Design of Transmission systems(ME8651)**	CO1	**3**	**3**	**3**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
			CO2	**3**	**3**	**3**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
			CO3	**3**	**3**	**3**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
			CO4	**3**	**3**	**3**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
			CO5	**3**	**3**	**3**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
44	III/VI	**Computer Aided Design and Manufacturing(ME8691)**	CO1	**3**	**3**	**3**	**2**	**2**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**3**	**3**
			CO2	**3**	**3**	**3**	**2**	**2**	**0**	**0**	**0**	**0**	**2**	**0**	**1**	**3**	**3**
			CO3	**3**	**3**	**3**	**2**	**2**	**2**	**0**	**2**	**0**	**1**	**0**	**1**	**2**	**2**
			CO4	**3**	**3**	**3**	**2**	**3**	**0**	**2**	**0**	**2**	**1**	**2**	**2**	**3**	**3**
			CO5	**3**	**3**	**3**	**2**	**3**	**0**	**2**	**0**	**2**	**1**	**2**	**2**	**3**	**3**
45	III/VI	**Heat and Mass Transfer(ME8693)**	CO1	**3**	**2**	**3**	**2**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO2	**3**	**3**	**3**	**2**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO3	**3**	**3**	**3**	**2**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**2**	**2**
			CO4	**3**	**3**	**3**	**2**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**2**	**1**	**2**
			CO5	**2**	**3**	**3**	**3**	**1**	**0**	**1**	**0**	**0**	**0**	**2**	**2**	**1**	**2**
46	III/VI	**Finite Element Analysis(ME8692)**	CO1	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
			CO2	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**2**
			CO3	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**2**
			CO4	**3**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**2**
			CO5	**2**	**3**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**2**
47	III/VI	**Hydraulics and Pneumatics(ME8694)**	CO1	**3**	**2**	**3**	**2**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
			CO2	**3**	**3**	**3**	**2**	**1**	**3**	**2**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
			CO3	**3**	**3**	**3**	**2**	**1**	**1**	**2**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
			CO4	**3**	**3**	**3**	**2**	**2**	**1**	**2**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
			CO5	**2**	**3**	**3**	**3**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**2**	**3**	**3**
48	III/VI	**Automobile Engineering(ME8091)**	CO1	**3**	**2**	**3**	**2**	**2**	**0**	**2**	**0**	**0**	**1**	**1**	**3**	**3**	**2**
			CO2	**3**	**3**	**1**	**3**	**1**	**3**	**1**	**3**	**1**	**1**	**2**	**3**	**3**	**2**
			CO3	**2**	**3**	**1**	**3**	**1**	**1**	**1**	**1**	**3**	**2**	**1**	**2**	**3**	**3**
			CO4	**1**	**3**	**3**	**0**	**2**	**1**	**1**	**1**	**3**	**1**	**3**	**1**	**3**	**2**
			CO5	**2**	**1**	**3**	**2**	**2**	**3**	**3**	**1**	**1**	**1**	**1**	**2**	**3**	**3**
49	III/VI	**CAD / CAM Laboratory(ME8681)**	CO1	**3**	**2**	**3**	**2**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO2	**3**	**2**	**3**	**1**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO3	**3**	**2**	**3**	**2**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO4	**3**	**2**	**3**	**2**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**
			CO5	**3**	**2**	**3**	**2**	**3**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**2**

50	III/VI	**Design and Fabrication Project(ME8682)**	CO1	**3**	**3**	**2**	**2**	**3**	**2**	**1**	**2**	**3**	**3**	**3**	**2**	**3**	**3**
			CO2	**3**	**3**	**3**	**3**	**3**	**1**	**1**	**1**	**1**	**2**	**2**	**3**	**3**	**3**
			CO3	**3**	**3**	**3**	**3**	**2**	**3**	**1**	**2**	**3**	**2**	**2**	**3**	**3**	**3**
			CO4	**3**	**3**	**3**	**3**	**2**	**3**	**1**	**2**	**3**	**2**	**2**	**3**	**3**	**3**
			CO5	**2**	**2**	**2**	**2**	**2**	**1**	**1**	**2**	**2**	**2**	**3**	**3**	**3**	**3**
51	III/VI	**Professional Communication(HS8581)**	CO1	**1**	**1**	**1**	**1**	**2**	**2**	**1**	**2**	**3**	**3**	**1**	**3**	**2**	**2**
			CO2	**1**	**1**	**1**	**1**	**2**	**2**	**1**	**3**	**3**	**3**	**1**	**3**	**2**	**2**
			CO3	**1**	**1**	**1**	**1**	**2**	**2**	**1**	**2**	**3**	**3**	**1**	**3**	**2**	**2**
			CO4	**1**	**1**	**1**	**1**	**2**	**2**	**1**	**2**	**3**	**3**	**1**	**3**	**2**	**2**
			CO5	**1**	**1**	**1**	**1**	**2**	**2**	**1**	**3**	**3**	**3**	**2**	**3**	**2**	**2**
52	IV/VII	**Power Plant Engineering(ME8792)**	CO1	**3**	**1**	**1**	**1**	**0**	**2**	**2**	**1**	**1**	**1**	**2**	**2**	**3**	**2**
			CO2	**3**	**2**	**1**	**1**	**0**	**2**	**2**	**1**	**1**	**1**	**2**	**2**	**2**	**2**
			CO3	**3**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**1**	**1**	**2**	**1**	**3**	**2**
			CO4	**3**	**2**	**2**	**1**	**0**	**2**	**2**	**1**	**1**	**1**	**2**	**2**	**2**	**2**
			CO5	**3**	**2**	**2**	**1**	**1**	**2**	**3**	**2**	**1**	**1**	**2**	**2**	**3**	**2**
53	IV/VII	**Process Planning and Cost Estimation(ME8793)**	CO1	3	3	1	2	1	1	1	1	1	1	1	1	1	3
			CO2	2	2	2	2	1	1	1	1	1	1	1	1	1	2
			CO3	3	3	2	2	2	1	1	1	1	1	2	1	1	2
			CO4	3	3	2	2	1	1	1	1	1	1	2	1	2	2
			CO5	3	3	2	2	1	1	1	1	1	1	1	1	2	2
54	IV/VII	**Mechatronics (ME8791)**	CO1	**3**	**3**	**3**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**3**	**3**	**3**
			CO2	**3**	**3**	**3**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
			CO3	**3**	**3**	**3**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**3**	**3**	**3**
			CO4	**3**	**3**	**3**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**3**
			CO5	**3**	**3**	**3**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**1**	**3**	**3**	**3**
55	IV/VII	**Testing of materials(OML751)**	CO1	**3**	**3**	**0**	**0**	**0**	**2**	**2**	**2**	**0**	**1**	**3**	**3**	**3**	**3**
			CO2	**3**	**3**	**0**	**0**	**0**	**2**	**2**	**1**	**1**	**1**	**2**	**3**	**3**	**3**
			CO3	**3**	**3**	**0**	**3**	**2**	**2**	**0**	**1**	**1**	**1**	**3**	**3**	**3**	**3**
			CO4	**3**	**3**	**0**	**3**	**2**	**2**	**0**	**1**	**1**	**1**	**3**	**3**	**3**	**3**
			CO5	**3**	**3**	**0**	**3**	**2**	**2**	**0**	**1**	**1**	**1**	**3**	**3**	**3**	**3**
56	IV/VII	**Non Destructive Testing and Evaluation(ME8097)**	CO1	**3**	**3**	**0**	**0**	**0**	**1**	**2**	**1**	**1**	**0**	**0**	**3**	**3**	**3**
			CO2	**3**	**3**	**0**	**0**	**0**	**1**	**3**	**2**	**2**	**0**	**0**	**3**	**3**	**3**
			CO3	**3**	**3**	**0**	**2**	**3**	**1**	**3**	**2**	**2**	**0**	**0**	**3**	**3**	**3**
			CO4	**3**	**3**	**0**	**3**	**3**	**1**	**3**	**2**	**2**	**0**	**0**	**3**	**3**	**3**
			CO5	**3**	**3**	**0**	**3**	**3**	**1**	**1**	**2**	**2**	**0**	**0**	**3**	**3**	**3**

57	IV/VII	**Unconventional Machining Processes(ME8073)**	CO1	3	3	3	3	1	2	2	1	1	2	1	3	3	3
			CO2	3	3	3	3	2	2	2	1	1	1	3	3	3	3
			CO3	3	3	3	3	1	2	2	1	1	1	3	3	3	3
			CO4	3	3	3	3	1	2	2	1	1	1	3	3	3	3
			CO5	3	3	3	3	1	2	2	1	1	1	3	3	3	3
58	IV/VII	**Simulation and Analysis Laboratory(ME8711)**	CO1	3	3	3	3	2	3	1	2	3	2	1	3	1	1
			CO2	3	3	1	3	1	3	1	3	1	1	2	3	1	2
			CO3	2	3	1	3	1	1	2	1	3	2	1	2	1	3
			CO4	1	3	3	2	2	1	2	1	3	1	3	1	1	2
			CO5	2	1	3	2	1	1	1	2	1	1	3	2	1	1
59	IV/VII	**Mechatronics Laboratory(ME8781)**	CO1	3	3	3	3	2	1	1	2	3	2	1	3	3	2
			CO2	3	3	1	3	2	1	1	3	1	1	2	3	2	3
			CO3	2	3	1	3	2	1	2	1	3	2	1	3	3	2
			CO4	1	3	3	2	2	1	2	1	3	1	3	3	2	3
			CO5	3	2	3	2	3	1	1	2	1	1	3	3	3	2
60	IV/VII	**Technical Seminar(ME8712)**	CO1	3	3	2	2	3	2	1	2	3	3	3	2	3	3
			CO2	3	3	3	3	3	1	1	1	1	2	2	3	3	3
			CO3	3	3	3	3	2	3	3	2	3	2	2	3	3	3
			CO4	3	3	3	3	2	3	3	2	3	2	2	3	3	3
			CO5	2	2	2	2	2	1	1	2	2	2	3	3	3	3
61	IV/VIII	**Principles of Management(MG8591)**	CO1	0	0	0	0	0	2	0	3	1	0	2	3	3	2
			CO2	0	0	0	0	0	1	0	3	1	0	3	3	3	2
			CO3	1	0	0	0	0	2	0	3	2	0	3	3	3	2
			CO4	1	0	0	0	0	3	0	3	1	0	2	3	3	2
			CO5	1	0	0	0	0	2	0	2	1	0	3	3	3	2
62	IV/VIII	**Production Planning and Control(IE8693)**	CO1	3	2	1	1	0	0	0	0	0	0	2	3	3	3
			CO2	3	3	1	3	0	0	0	0	0	0	2	3	2	3
			CO3	3	3	2	3	0	0	0	0	0	0	2	3	2	3
			CO4	3	3	2	3	0	0	0	0	0	0	2	3	2	3
			CO5	3	3	2	3	0	0	0	0	0	0	2	3	2	3
63	IV/VIII	**Project Work(ME8811)**	CO1	3	3	2	2	3	2	1	1	2	3	3	2	3	3
			CO2	3	3	3	3	3	1	1	1	1	2	3	3	3	3
			CO3	0	0	0	0	0	0	1	2	3	3	3	3	3	3
			CO4	0	0	0	2	2	3	3	2	0	3	2	3	3	3
			CO5	1	3	2	2	2	1	1	2	2	2	3	3	3	3



Course Code: 305 Subject Code and Name: OAT552 INTERNAL COMBUSTION ENGINE

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	1	1	2	0	2	1	2	3	3	2
CO2	3	3	1	0	0	2	2	0	1	1	2	2	3	2
CO3	3	2	1	2	0	1	2	0	1	1	2	2	3	2
CO4	3	3	2	2	0	2	2	0	0	1	2	2	3	2
CO5	3	2	2	1	3	2	2	0	0	1	2	2	3	2
AVG	3	2.6	1.8	1.4	0.8	1.6	2	0	0.8	1	2	2.2	3	2

CORRELATION	
0	NA
1	LOW
2	MEDIUM
3	HIGH

CO1	Interpret the types of IC engine with components.
CO2	Infer the working of petrol engine and its parts.
CO3	Relate the components od diesel engines and its working.
CO4	Compare the various types of cooling and lubrication systems.
CO5	Classify and conveys the workingg of GDI, CRDI and HAV.

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
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MUTHAPUDUPET, IAF-AVADI,
CHENNAI - 600 055.

Figure 2.2. CO-PO matrix mapping.

B.List the curricular gaps for the attainment of defined POs & PSOs

From the above mapping process, the data are extracted and plotted in the below mentioned bar graph. then the gaps in the curriculum are identified with the help of the statistics and specified in table 2.2.

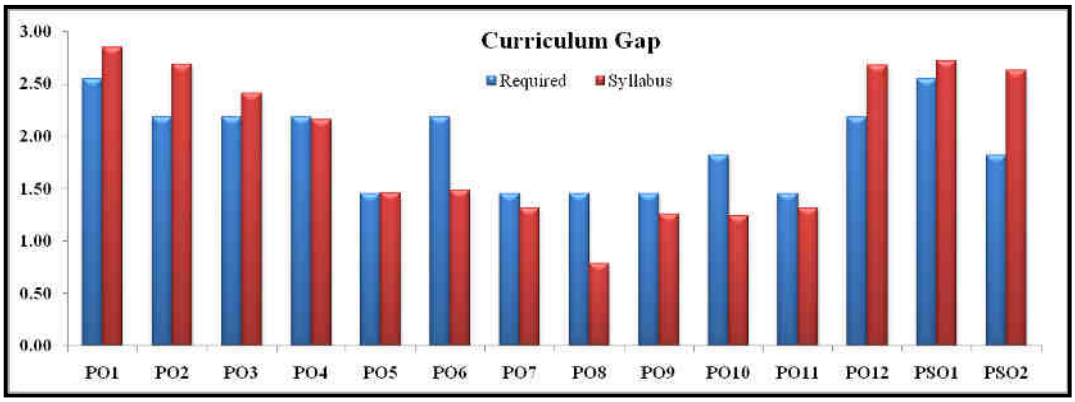


Figure 2.3. Curriculam Gap.

Table 2.2. provides the list of curricular gaps identified through the help of Mapping process.

S.No	Program Outcomes	
1	PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
2	PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
3	PO9	Individual and Team Work: Function effectively as an individual,and as a member or leader in diverse teams, and in multidisciplinary settings
4	PO10	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

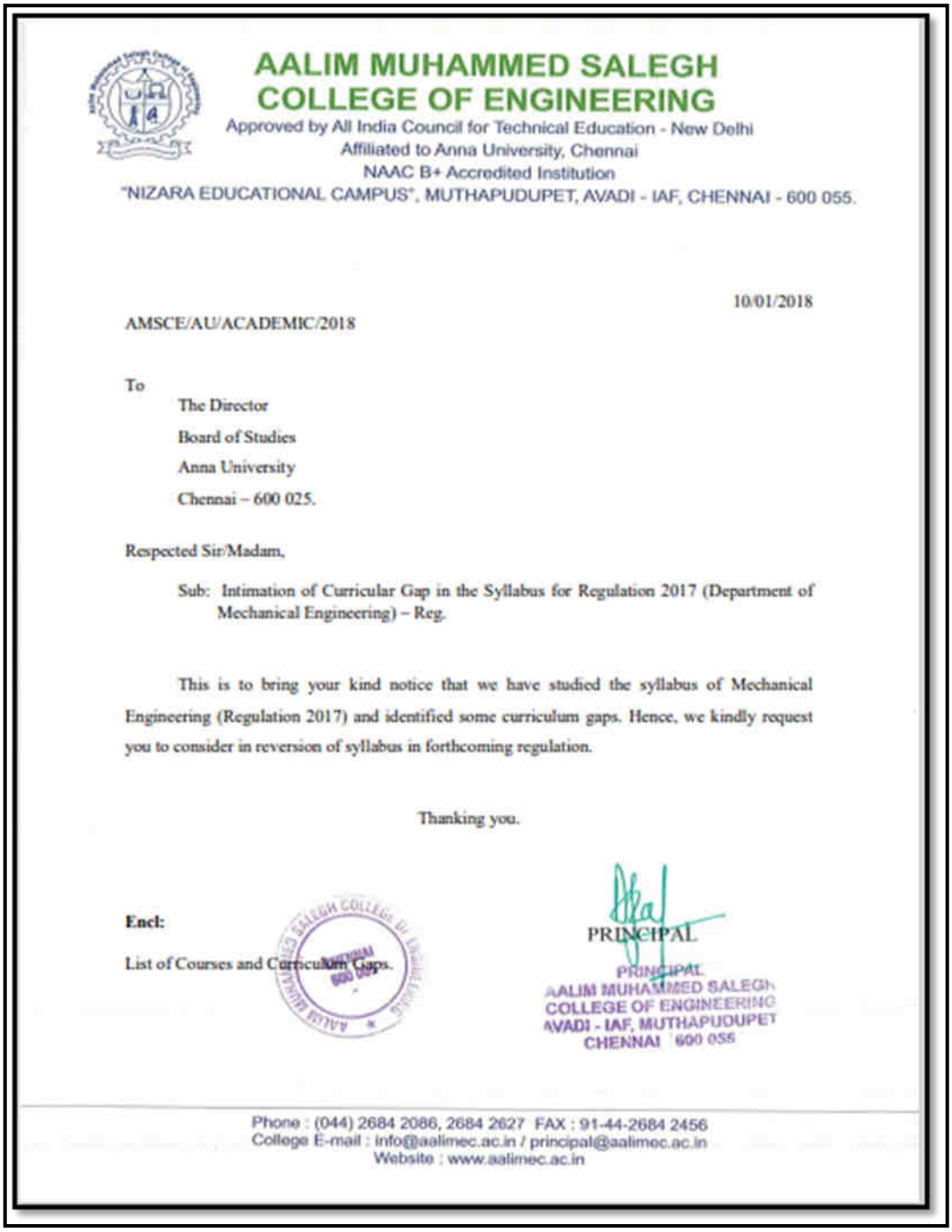
2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

Institute Marks : 10.00

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

The process of identifying the curriculum was explained in section 2.1.1 through process diagram Figure 2.1

The POs identified for improvement will be communicated to the course committee to identify the topics for improvement and the suggestion from the course committee will be consolidated by the HOD and communicated to the University through The Principal.



AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
Approved by All India Council for Technical Education - New Delhi
Affiliated to Anna University, Chennai
NAAC B+ Accredited Institution
"NIZARA EDUCATIONAL CAMPUS", MUTHAPUDUPET, AVADI - IAF, CHENNAI - 600 055.

10/01/2018

AMSCE/AU/ACADEMIC/2018

To
The Director
Board of Studies
Anna University
Chennai – 600 025.

Respected Sir/Madam,

Sub: Intimation of Curricular Gap in the Syllabus for Regulation 2017 (Department of Mechanical Engineering) – Reg.

This is to bring your kind notice that we have studied the syllabus of Mechanical Engineering (Regulation 2017) and identified some curriculum gaps. Hence, we kindly request you to consider in reversion of syllabus in forthcoming regulation.

Thanking you.

Encl:

List of Courses and Curriculum Gaps.

PRINCIPAL

PRINCIPAL
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Website : www.aalimec.ac.in

Figure 2.4. Letter to The Director, BOS, Anna University, Chennai.

S.NO	SUBJECT CODE	SUBJECT NAME	CURRICULUM GAP
1	GE8152	Engineering Graphics	• Inter penetration of Solids, Various methods for Curves
2	GE8292	Engineering Mechanics	• Statically Indeterminate structures SFD and BMD for inclined loading
4	ME8391	Engineering Thermodynamics	• Mollier chart applications
5	CE8394	Fluid Mechanics and Machinery	• Design -Rotary Pumps for higher viscosity fluids
6	ME8351	Manufacturing Technology – I	• Advanced Forming process
7	ME8491	Engineering Metallurgy	• Facture mechanics of composite materials • Thermo mechanical treatment
8	CE8395	Strength of Materials for Mechanical Engineers	• column and its structures
9	ME8493	Thermal Engineering- I	• .Refrigeration and Air Conditioning
10	ME8594	Dynamics of Machines	• Static force analysis of four bar mechanisms
11	OAT552	Internal combustion engine	• Alternative fuels
12	ME8691	Computer Aided Design and Manufacturing	• Additive manufacturing • Software based CNC code generation
13	ME8692	Finite Element Analysis	• Problems based on fluid flow with different applications
14	ME8091	Automobile Engineering	• Discussed about latest innovations in the field of automobile industry
15	ME8792	Power Plant Engineering	• Non Conventional Energy Sources- Geo Thermal, Waste Heat Recovery
16	ME8791	Mechatronics	• Recent Trends in Mechatronics Towards Industry 4.0 • Nano sensors and their applications.
17	ME8711	Simulation and Analysis Laboratory	• Flow simulations
18	Others	Supply Chain Management, Pressure Vessels Design, Drone Technologies & Industrial Safety.	

Figure 2.5. Recommendation of curriculum gap to The Director, BOS, Anna University, Chennai.

B & C) DELIVERY DETAILS OF CONTENT BEYOND SYLLABUS AND MAPPING OF CONTENT BEYOND SYLLABUS WITH THE POS AND PSOs

Table 2.3. Content Beyond Syllabus for CAY (2022-23).

S.No	Events Conducted	Seminars/ Workshops/ Value added Courses	No. of Hours	Resource Person with designation	No. of Students Attended	Relevance to POs, PSOs
1	Solid Works Essentials	Value Added Courses	40	MR. M. Sathish, B.E., M.S., (London), Head Technical Training	45	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO1

2	AMP Career Guidance Seminar: Human Capital Skill Gaps - Industry Ready	Seminar	1.5	Mr. Yahya Rasheed, Global Head - Learning & Development, Business Contunity Planning, head Global dfelivery Center Chennai,Madurai & Srilanka. HCLTech - Digital Workplace Services	25	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
3	AMP Career Guidance Seminar: Drug Abuse - Alarming Rise Prevention and Safe Guards	Seminar	1.5	Dr. Niha Rumaisa, MBBS, MD (Psychiatry) Consultant Psychiatrist at ARK Hospital, Velachery	35	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
4	TANCAM Workshop on Design & Manufacturing, 3D Printing (Metal & Plastic Printing) and AR/VR EXPERIENCE	Workshop	6	Mr. U Om Ezhilan, Student Ambassador, 9841205474,8925012225, Tamil Nadu Centre of Excellance for Advanced Manufacturing(TANCAM), TIDEL Park, Tharamani.	30	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
5	One day Workshop on 3D Printing	Workshop	6	Dr. S. Ramkumar, Er.R.Manikandan, Department of Mechanical Engineering, Aalim Muhammed Salegh College of Engineering.	55	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
6	One day Workshop on 3D Printing	Workshop	6	Dr. S. Ramkumar, Er.R.Manikandan, Department of Mechanical Engineering, Aalim Muhammed Salegh College of Engineering.	49	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
7	Webinar on " OCCUPATIONAL HEALTH AND SAFETY"	Workshop	3	Dinesh Moses, Team Lead – TSD Operations, NIST Institute Pvt. Ltd. +91-9150087722.	45	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
8	Online Workshop on "FUSION 360"	Workshop	3	Mr. Aadhi, Technical - USAM Technology Solutions, Chennai	42	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
9	Indusrtial Visit - Rail Museuem	Industrial Visit	6	Mr. SS Jaganathan, Zonal Incharge, South Zone Integral Coach Factory, Perambur	51	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2
10	Industrial Visit - Diamond Engineering	Industrial Visit	6	Mr. P. Mohanraj, Chairman & Managing Director, Diamond Engineering India Pvt Ltd.	59	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2
11	Industrial Visit - Neyveli Lignite Corcporation Limited	Industrial Visit	6	Mr. Krishnan, Public Relation Department, Neyveli Lignite Corcporation Limited, Neyveli	64	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2

Table 2.4. Content Beyond Syllabus for CAYm1 (2021-22).

S.No	Events Conducted	Seminars/ Workshops/ Value added Courses	No. of Hours	Resource Person with designation	No. of Students Attended	Relevance to POs, PSOs
1	Industrial Engineering – An Overview	Webinar	1	S Amazing Comfortson Process Executive Manager, Ather Energy Pvt. Ltd, Bengaluru	98	PO1,PO3,PO6,PO7,PO11,PO12,PSO1, PSO2
2	Industrial Design	Seminar	1.30	P.K Venkataramana Business Head IID	55	PO1,PO2,PO3,PO5,PO11,PSO1,PSO2
3	High Power Compact Powerpack For Military Application	Guest Lecture	3	Dr S KrishnakumarSr.Technical Officer CVRDE, Avadi, Chennai	350	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PSO1,PSO2
4	The Future of Manufacturing Business: Role of Digital Technologies	NPTEL	48	Prof. R. K. Amit IIT Madras Prof. U. Chandrasekhar Wipro 3D	3	PO1,PO3,PO4,PO5,PO7,PO8,PO11,PO12,PSO1,PSO2
5	Advances in welding and joining technologies	NPTEL	48	Prof. Swarup Bag, IIT K	1	PO1,PO2,PO3,PO4,PO6,PO7PO11,PO12,PSO1,PSO2
6	Fundamentals of manufacturing processes	NPTEL	72	Prof. D K Dwivedi IIT R	6	PO1,PO2,PO3,PO11,PSO1,PSO2

Figure 2.6. Content Beyond Syllabus achieved through Guest Lecture.

Table 2.5. Content Beyond Syllabus for CAYm1 (2020-21).

S.No	Events Conducted	Seminars/ Workshops/ Value added Courses	No. of Hours	Resource Person with designation	No. of Students Attended	Relevance to POs, PSOs
1	Materials Joining in Power Sector Present & Future	Webinar	1.30	Dr K Devakumaran Manager – Advanced Technology Products, BHEL, Trichy	115	PO1,PO2,PO3,PO8,PO11,PSO1,PSO2
2	Research Perspectives in Ceramic Engineering	Online Seminar	3	Dr S T Aruna Senior Principal Scientist CSIR – National Aerospace Laboratories, Bengaluru	55	PO1,PO2,PO3,PO4,PO5,PO7,PO12,PSO1,PSO2
3	Industry 4.0	Webinar	1	C S Swaminathan Director-Strategic Planning – FMCG Industry, Germany	105	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
4	Project Funding Through Journal Publications	Webinar	3	Dr N R Shanker Director, Chase Research and Development Solutions, Chennai	45	PO4,PO5,PO6,PO7,PO8,PO11,PSO1,PSO2
5	Manufacturing Processes - Casting and Joining	NPTEL	24	DrSounak Kumar Choudhury Department of Mechanical Engineering, IIT Kanpur	4	PO1,PO3,PO5,PO6,PO11,PSO1
6	Manufacturing Process Technology I & II	NPTEL	72	Prof Shantanu Bhattacharya Associate Professor IIT Kanpur	8	PO1,PO3,PO5,PO6,PO11,PO12,PSO1, PSO2
7	Product Design and Development	NPTEL	24	Prof Inderdeep Singh IIT Roorkee	8	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
8	Aircraft Maintenance	NPTEL	24	Prof A K Ghosh IIT Kanpur	1	PO1,PO2,PO3,PO5,PO6,PO11,PSO1,PSO2

9	IC Engines and Gas Turbines	NPTEL	72	Prof Pranab K Mondal IIT Guwahati Prof Vinayak N Kulkarni, IIT Guwahati	3	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
10	Fundamentals of manufacturing processes	NPTEL	72	Prof D K Dwivedi IIT Roorkee	3	PO1,PO3,PO5,PO6,PO11,PO12,PSO1, PSO2

Figure 2.7. Brochure of seminar.

Table 2.6. Content Beyond Syllabus for CAYm2 (2019-20).

S.No	Events Conducted	Seminars/ Workshops/ Value added Courses	No. of Hours	Resource Person with designation	No. of Students Attended	Relevance to POs, PSOs
1	Non – Destructive Testing	Guest Lecture	2	K Venkatesh SMEC Labs, Chennai	65	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
2	Introduction to Ansys	Guest Lecture	2	ErRanjith Technical Head, i3 Design Technologies, Chennai	60	PO1,PO3,PO5,PO11,PO12,PSO1,PSO2
3	Preparing Research Proposals and Writing Journal Papers	Workshop	2.30	Dr V Balasubramanian Professor & Head, Director – CEMAJOR, Annamalai University	45	PO4,PO5,PO6,PO7,PO8,PO11,PSO1,PSO2
4	Manufacturing Automation	NPTEL	24	Prof Sonuak Kumar Choudhury, IIT Kanpur	5	PO1,PO3,PO5,PO11,PO12,PSO1,PSO2
5	Introduction to Airplane Performance	NPTEL	48	Prof A K Ghosh, IIT Kanpur	1	PO1,PO2,PO3,PO5,PO6,PO11,PSO1,PSO2
6	Aircraft Maintenance	NPTEL	24	Prof A K Ghosh, IIT Kanpur	5	PO1,PO2,PO3,PO5,PO6,PO11,PSO1,PSO2
7	Engineering Mechanics - Statics and Dynamics	NPTEL	48	Prof Anubhab Roy IIT Madras	5	PO1,PO2,PO3,PO4,PO12,PSO1
8	Inspection and Quality Control in Manufacturing	NPTEL	24	Prof Kaushik Pal, IIT Roorkee	4	PO1,PO2,PO3,PO4,PO5,PO6,P-O7,PO8,PO11,PO12,PSO1
9	IC Engines and Gas Turbines	NPTEL	72	Prof Pranab K Mondal IIT Guwahati Prof Vinayak N Kulkarni IIT Guwahati	43	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2

Figure 2.8. Content Beyond Syllabus achieved through workshop.

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Industrial Engineering – An Overview	WEBINAR	26/06/2021	S Amazing Comfortson Process Executive Manager, Ather Energy Pvt. Ltd, Bengaluru	26	PO1,PO3,PO6,PO7,PO11,PO12,PSO1, PSO2
2	Industrial Design	Seminar	22/11/2021	P.K Venkataramana Business Head IID	15	PO1,PO2,PO3,PO5,PO11,PSO1,PSO2
3	High Power Compact Powerpack For Military Application	Guest Lecture	22/11/2021	Dr S KrishnakumarSr.Technical Officer CVRDE, Avadi, Chennai	96	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PSO1,PSO2
4	The Future of Manufacturing Business: Role of Digital Technologies	NPTEL	22/10/2021	Prof. R. K. Amit IIT Madras Prof. U. Chandrasekhar Wipro 3D	3	PO1,PO3,PO4,PO5,PO7,PO8,PO11,PO12,PSO1,PSO2
5	Advances in welding and joining technologies	NPTEL	22/10/2021	Prof. Swarup Bag, IIT K	1	PO1,PO2,PO3,PO4,PO6,PO7PO11,PO12,PSO1,PSO2

2020-21

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Materials Joining in Power Sector Present & Future	Webinar	17/07/2020	Dr K Devakumaran Manager – Advanced Technology Products, BHEL, Trichy	28	PO1,PO2,PO3,PO8,PO11,PSO1,PSO2
2	Research Perspectives in Ceramic Engineering	Webinar	13/03/2021	Dr S T Aruna Senior Principal Scientist CSIR – National Aerospace Laboratories, Bengaluru	13	PO1,PO2,PO3,PO4,PO5,PO7,PO12,PSO1,PSO2
3	Industry 4.0	Webinar	17/04/2021	C S Swaminathan Director-Strategic Planning – FMCG Industry, Germany	25	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
4	Project Funding Through Journal Publications	Webinar	24/04/2021	Dr N R Shanker, Head/CSE, Aalim Muhammed Salegh College of Engineering	75	PO4,PO5,PO6,PO7,PO8,PO11,PSO1,PSO2
5	Manufacturing Processes - Casting and Joining	NPTEL	19/03/2021	Dr Sounak Kumar Choudhury Department of Mechanical Engineering, IIT Kanpur	4	PO1,PO3,PO5,PO6,PO11,PSO1
6	Manufacturing Process Technology I & II	NPTEL	19/03/2021	Prof Shantanu Bhattacharya Associate Professor IIT Kanpur	8	PO1,PO3,PO5,PO6,PO11,PO12,PSO1, PSO2
7	Product Design and Development	NPTEL	07/10/2020	Prof Inderdeep Singh IIT Roorkee	8	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
8	Aircraft Maintenance	NPTEL	29/12/2020	Prof A K Ghosh IIT Kanpur	1	PO1,PO2,PO3,PO5,PO6,PO11,PSO1,PSO2
9	IC Engines and Gas Turbines	NPTEL	29/12/2020	Prof Pranab K Mondal IIT Guwahati Prof Vinayak N Kulkarni, IIT Guwahati	3	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
10	Fundamentals of manufacturing processes	NPTEL	29/12/2020	Prof D K Dwivedi IIT Roorkee	3	PO1,PO3,PO5,PO6,PO11,PO12,PSO1, PSO2

2019-20

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Non – Destructive Testing	Guest Lecture	22/01/2020	K Venkatesh SMEC Labs, Chennai	60	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
2	Introduction to Ansys	Guest Lecture	10/10/2019	ErRanjith Technical Head, i3 Design Technologies, Chennai	57	PO1,PO3,PO5,PO11,PO12,PSO1,PSO2
3	Drafting of Research Proposal and Writing Journal Papers	Workshop	10/12/2019	Dr V Balasubramanian Professor & Head, Director – CEMAJOR, Annamalai University	100	PO4,PO5,PO6,PO7,PO8,PO11,PSO1,PSO2
4	Manufacturing Automation	NPTEL	19/08/2019	Prof Sonuak Kumar Choudhury, IIT Kanpur	5	PO1,PO3,PO5,PO11,PO12,PSO1,PSO2
5	Introduction to Airplane Performance	NPTEL	07/04/2020	Prof A K Ghosh, IIT Kanpur	1	PO1,PO2,PO3,PO5,PO6,PO11,PSO1,PSO2
6	Aircraft Maintenance	NPTEL	07/04/2020	Prof A K Ghosh, IIT Kanpur	5	PO1,PO2,PO3,PO5,PO6,PO11,PSO1,PSO2
7	Engineering Mechanics - Statics and Dynamics	NPTEL	07/04/2020	Prof Anubhab Roy IIT Madras	5	PO1,PO2,PO3,PO4,PO12,PSO1
8	Inspection and Quality Control in Manufacturing	NPTEL	07/04/2020	Prof Kaushik Pal, IIT Roorkee	4	PO1,PO2,PO3,PO4,PO5,PO6,P-O7,PO8,PO11,PO12,PSO1
9	IC Engines and Gas Turbines	NPTEL	07/04/2020	Prof Pranab K Mondal IIT Guwahati Prof Vinayak N Kulkarni IIT Guwahati	13	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2
10	Proposal Writing for Funded Projects	Workshop	13/12/2019	Dr.K.Gopinath, Scientist, DMRL, Hyderabad.	50	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO11,PO12,PSO1,PSO2

2.2 Teaching - Learning Processes (100) Total Marks 100.00

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

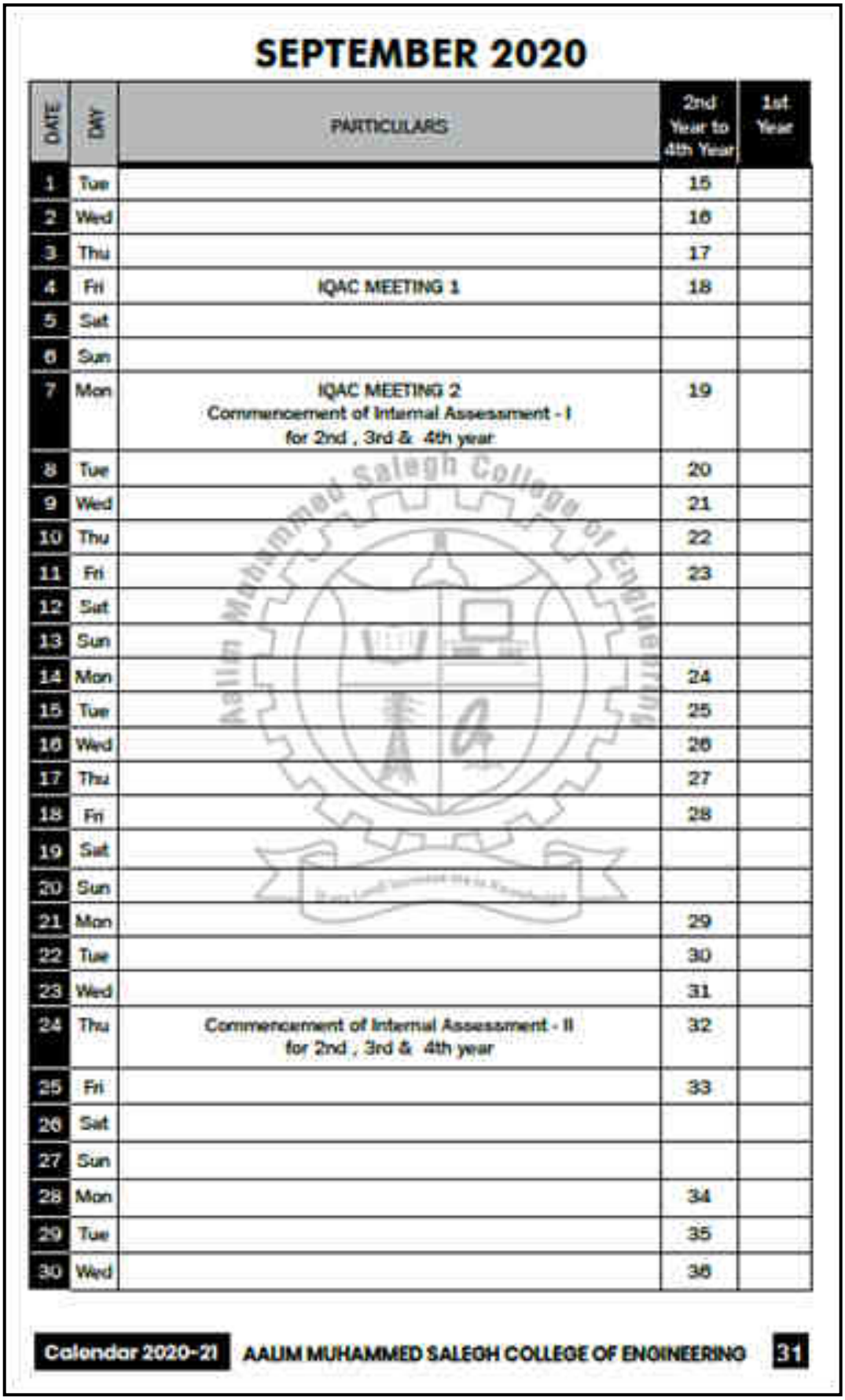
Institute Marks : 25.00

A) ADHERENCE TO ACADEMIC CALENDAR:

Each branch of study of the college prepares the Academic calendar in accordance with the guidelines set by the affiliated university at the beginning of each academic year.

The Academic calendar includes the following :

1. Commencement of College for the Academic year
2. Schedule of Internal Assessment Tests
3. Departmental Activities
4. College Activities
5. Celebration of National Events
6. Last Working Day
7. Commencement of End Semester Examination
8. List of Holidays



SEPTEMBER 2020

DATE	DAY	PARTICULARS	2nd Year to 4th Year	1st Year
1	Tue		15	
2	Wed		16	
3	Thu		17	
4	Fri	IQAC MEETING 1	18	
5	Sat			
6	Sun			
7	Mon	IQAC MEETING 2 Commencement of Internal Assessment - I for 2nd , 3rd & 4th year	19	
8	Tue		20	
9	Wed		21	
10	Thu		22	
11	Fri		23	
12	Sat			
13	Sun			
14	Mon		24	
15	Tue		25	
16	Wed		26	
17	Thu		27	
18	Fri		28	
19	Sat			
20	Sun			
21	Mon		29	
22	Tue		30	
23	Wed		31	
24	Thu	Commencement of Internal Assessment - II for 2nd , 3rd & 4th year	32	
25	Fri		33	
26	Sat			
27	Sun			
28	Mon		34	
29	Tue		35	
30	Wed		36	

Calendar 2020-21 AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING 31

Figure 2.9. Scanned copy of college academic calendar 2020-21.

B) USE OF VARIOUS INSTRUCTIONAL METHODS AND PEDAGOGICAL INITIATIVES:

The following Instructional methods and pedagogical initiatives are followed by the faculty members in content deliverables:

1. Chalk & Board
2. PowerPoint presentations/Simulations

3. NPTEL lectures & Guest Lectures
4. Demonstration (Physical models/Laboratory)
5. Engineering Seminars by Students
6. Workshops and Seminars on latest Tools/Technologies
7. Assignment, Quiz & Tutorials
8. Synergetic Learning (viz. Group discussions, mini projects)
9. Professional Society Activities
10. Industrial Visits and Internships

C) METHODOLOGIES TO SUPPORT WEAK LEARNERS AND ENCOURAGE BRIGHT STUDENTS:

The strength and weakness of each student are based on their academic performance in Continuous Assessment Tests and Semester examinations. They are grouped by using the below mentioned criterion:

1. Student having more than 2 arrears in the previous Semester Examination
2. Student scoring less than qualifying marks in Assessment Test (i.e. <50 %)

Based on the above two conditions, the following actions are taken to improve the performance of Slow learners.

1. Special tutorial classes are conducted for students who have failed in the Assessment tests.
2. The performance of each student is regularly monitored by their respective teacher proctors.
3. Important study material such as Question Bank, Textbooks, Notes/lecture materials and NPTEL links are shared with students though Google drive.
4. Previous year questions papers are given as Assignments.

Steps taken to encourage Bright students:

The bright students are selected using the following criteria

1. Consistent performance in All Assessment Test. (i.e. > 50% marks)
2. Nil arrears in Semester Examinations as on date.
3. Active participation in any academic activities/deliberations with in the department(viz. tutoring, seminars, extra curricular activities)
4. Appreciated class room behavior.

Based on the above conditions, the following steps are taken to encourage the bright students.

1. Consistent academic guidance were given.
2. They are encouraged to join NPTEL and special courses in emerging cross technologies.
3. Coaching classes for GATE.
4. Mini projects are conducted for better understanding for subjet.
5. Internships are arranged in engineering establishments.
6. Reference Books (National/Foreign author) are shared with them apart from Textbook, Question Bank, Notes and scientific papers.

D) QUALITY CLASSROOM TEACHING:

The Department uses innovative tools to engage with students in the classroom. The following technological tools are used.

1. Smart Classroom
2. Google Classroom for sharing all study materials
3. Quiz are conducted through online mode through Quizizz/Kahoot app to make it more interesting
4. Physical and virtual demonstration of machine parts/assemblies

E) CONDUCT OF EXPERIMENTS :

All laboratories are adequate with all essential Machines, tools, instruments, hardware, software and Lab manuals. The student observation notebooks are regularly checked to verify the verocity of records. Each Laboratory is manned and managed by a faculty member and instructor during laboratory session.

The following innovative methods are adopted by the faculty member for the Laboratories:

The Laboratories are conducted for 4 hours per session.

Faculty member will orient the mechanism operating procedure of the experiment.

The instructor will make sure that everyone follows the safety protocol while operating the Machine and tools.

Each student to draw the block diagram/reading in their manual/observation notebook and findings are analysed.

The executed experiment with Aim, procedure, and result are documented in the record notebook book.

Viva conducted at the end of lab session to evaluate the comprehension level.

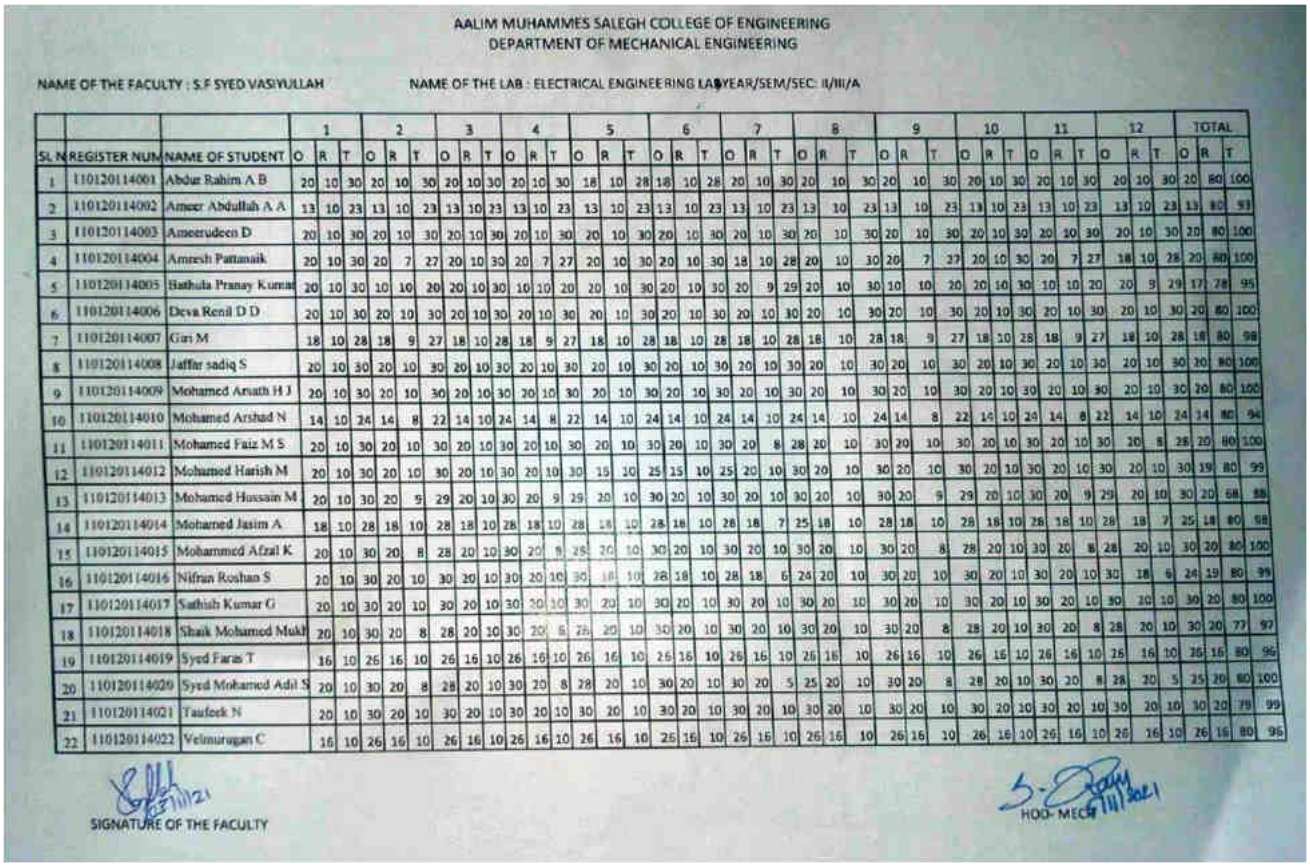
F) CONTINUOUS ASSESSMENT IN THE LABORATORY:

1. Continuous assessment system is implemented for quality of laboratory experiments.

2. The assessment is done on the basis of student's participation, comprehension level of experiment.

3. The Laboratory experiments and findings are evaluated with in the rules set bt the affiliated university.

4. The External marks are evaluated by the External examiner for University Practical Examination.



AALIM MUHAMMES SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

NAME OF THE FACULTY : S.F SYED VASIYULLAH NAME OF THE LAB : ELECTRICAL ENGINEERING LAB YEAR/SEM/SEC: II/III/A

SL NO	REGISTER NUM	NAME OF STUDENT	1			2			3			4			5			6			7			8			9			10			11			12			TOTAL		
			O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T	O	R	T
1	110120114001	Abdur Rahim A B	20	10	30	20	10	30	20	10	30	20	10	30	18	10	28	18	10	28	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	80	100
2	110120114002	Ameer Abdullah A A	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	10	23	13	80	93
3	110120114003	Ameerudeen D	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	80	100
4	110120114004	Amresh Pattanaik	20	10	30	20	7	27	20	10	30	20	7	27	20	10	30	20	10	30	18	10	28	20	10	30	20	7	27	20	10	30	20	7	27	18	10	28	20	80	100
5	110120114005	Bathula Pranay Kumar	20	10	30	10	10	20	20	10	30	10	10	20	20	10	30	20	10	30	20	9	29	20	10	30	10	10	20	20	10	30	10	10	20	20	9	29	17	78	95
6	110120114006	Deva Renil D D	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	80	100
7	110120114007	Giri M	18	10	28	18	9	27	18	10	28	18	9	27	18	10	28	18	10	28	18	10	28	18	10	28	18	9	27	18	10	28	18	9	27	18	10	28	18	80	98
8	110120114008	Jaffar sadiq S	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	80	100
9	110120114009	Mohamed Arsath H J	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	80	100
10	110120114010	Mohamed Arshad N	14	10	24	14	8	22	14	10	24	14	8	22	14	10	24	14	10	24	14	10	24	14	10	24	14	8	22	14	10	24	14	8	22	14	10	24	14	80	94
11	110120114011	Mohamed Faiz M S	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	8	28	20	10	30	20	10	30	20	10	30	20	10	30	20	8	28	20	80	100
12	110120114012	Mohamed Harish M	20	10	30	20	10	30	20	10	30	20	10	30	15	10	25	15	10	25	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	19	80	99
13	110120114013	Mohamed Hussain M	20	10	30	20	9	29	20	10	30	20	9	29	20	10	30	20	10	30	20	10	30	20	10	30	20	9	29	20	10	30	20	9	29	20	10	30	20	68	88
14	110120114014	Mohamed Jasim A	18	10	28	18	10	28	18	10	28	18	10	28	18	10	28	18	10	28	18	7	25	18	10	28	18	10	28	18	10	28	18	10	28	18	7	25	18	80	98
15	110120114015	Mohammed Afzal K	20	10	30	20	8	28	20	10	30	20	8	28	20	10	30	20	10	30	20	10	30	20	10	30	20	8	28	20	10	30	20	8	28	20	10	30	20	80	100
16	110120114016	Nifras Roshan S	20	10	30	20	10	30	20	10	30	20	10	30	18	10	28	18	10	28	18	6	24	20	10	30	20	10	30	20	10	30	20	10	30	18	6	24	19	80	99
17	110120114017	Sathish Kumar G	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	80	100
18	110120114018	Shaik Mohamed Mukh	20	10	30	20	8	28	20	10	30	20	8	28	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	8	28	20	10	30	20	8	28	20	77	97
19	110120114019	Syed Faras T	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	80	96
20	110120114020	Syed Mohamed Adil S	20	10	30	20	8	28	20	10	30	20	8	28	20	10	30	20	10	30	20	5	25	20	10	30	20	8	28	20	10	30	20	8	28	20	5	25	20	80	100
21	110120114021	Taufeek N	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	10	30	20	79	99
22	110120114022	Velmurugan C	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	10	26	16	80	96

SIGNATURE OF THE FACULTY

HOD- MECH

Figure 2.10. Scanned copy of basic electrical and electronics Lab assessment report.

G) STUDENT FEEDBACK OF TEACHING - LEARNING PROCESS:

1. A Class Committee Meeting is conducted thrice in a semester to monitor the syllabus coverage/difficulty in understanding the subject
2. Effectiveness of teaching is assessed on online mode by the student's at end of each semester apart from classroom meetings.
3. Head of the Department and senior teachers advices are implemented to improve the quality of teaching, if necessary on students feedback.
4. After the feedback is analyzed, suggestions are given to the concerned teachers to improve the Teaching Learning Process.
5. Periodical FDP are arranged by industry specific expertise collaboration with university syllabus

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:

1. As per norms of affiliating university academic regulations, in each theory course, three 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. The last and the final assessment will consist of CO4 and CO5. Depending on the performance of the students, retest or model examination will be conducted at the end of the semester.

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.

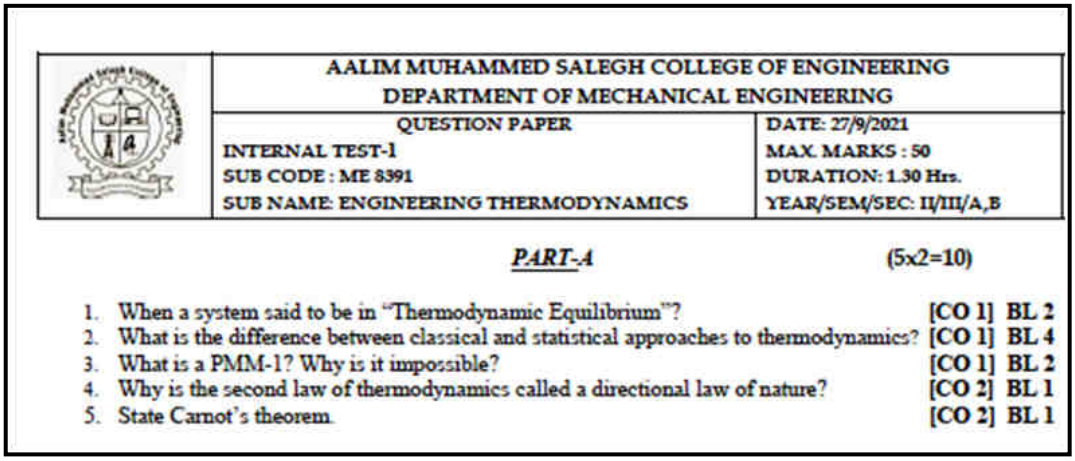
4.The question paper for the Model Examination is of 180 minutes duration and consists of 10 two marks descriptive type questions, 6 questions out of which the student has to answer any five questions having 13 Marks each and one descriptive type question having 15 mark respectively.

B) PROCESS TO ENSURE THAT QUESTIONS MAP TO THE SPECIFIED OUTCOMES/LEARNING LEVELS:

1. The Department Exam Cell Committee audits the Question papers.
2. The committee will ensure the quality of questions, mapping with COs and learning levels as per the revised Anna university regulations (R-17).
3. The committee will suggest the alterations in the Question papers if there are any disparity.

C) EVIDENCE OF COs COVERAGE IN MIDTERM EXAMINATION:

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 below.



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

QUESTION PAPER	DATE: 27/9/2021
INTERNAL TEST-1	MAX. MARKS : 50
SUB CODE : ME 8391	DURATION: 1.30 Hrs.
SUB NAME: ENGINEERING THERMODYNAMICS	YEAR/SEM/SEC: II/III/A,B

PART-A (5x2=10)

1. When a system said to be in "Thermodynamic Equilibrium"? [CO 1] BL 2
2. What is the difference between classical and statistical approaches to thermodynamics? [CO 1] BL 4
3. What is a PMM-1? Why is it impossible? [CO 1] BL 2
4. Why is the second law of thermodynamics called a directional law of nature? [CO 2] BL 1
5. State Carnot's theorem. [CO 2] BL 1

Figure 2.11. Scanned copy of internal question paper.

1. COs are assessed by three internal examinations
2. Each questions in the all question papers will be marked with the corresponding CO and the level of learning
3. All the COs are equally assessed through the internal assessment and same is used for the calculation of COs and POs attainements

D) QUALITY OF ASSIGNMENT AND ITS RELEVANCE TO THE COS:

1. Assignments are given to the students to achieve the outcomes of the courses and to promote self-learning
2. The assignments are designed to assess 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. Along with evaluation, the concerned staff will give the feedback for further improvement if necessary
5. The evaluations of the assignments are based on the basic concepts, coverage of the courses and the way the student presents it

Table 2.7. Process for internal semester Question paper setting relevance to the syllabus and its COs.

Assessment Tools Portions	
Internal Assessment 1	Units-1 and half of unit-2
Internal Assessment 2	Half of unit-2 and unit-3
Internal Assessment 3	Unit 4 and 5

2.2.3 Quality of student projects (25)

A) IDENTIFICATION OF PROJECTS AND ALLOCATION METHODOLOGY TO FACULTY MEMBERS:

Engineering is applied sciences. In engineering curriculum projects play a vital role in consolidating theory, application, innovation and research. Also, t improve leadership quality.

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 me dedicated hour named “Pre-Project Work” and the session will be conducted by doctoral faculty members. Every week one hour will be provided to the semester.

Students are given a free hand to select areas of project work, team members and a guide. The student team should approach the desired faculty mer 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 batch all the faculty members qualification, area of interest and research publications will be displayed in the department notice board. Each project team will members.

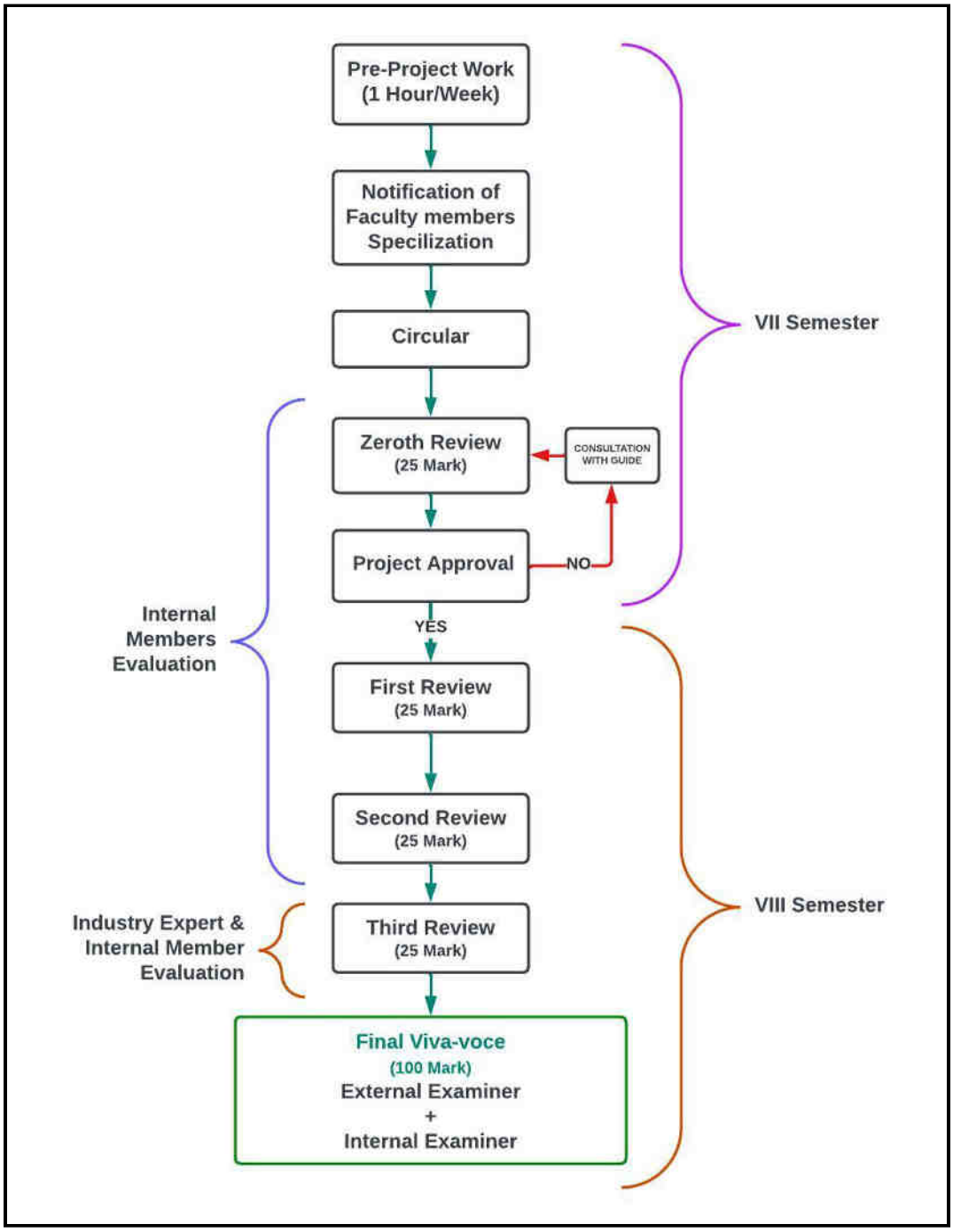


Figure 2.12. Process flow diagram of Project work.

B) TYPES AND RELEVANCE OF THE PROJECTS AND THEIR CONTRIBUTION TOWARDS ATTAINMENT OF POS & PSOS:

Table 2.8. Mapping of Student Projects with POs and PSOs.

ACADEMIC YEAR- CAYm1

ROLL NUMBERS	NAME OF THE STUDENT	GUIDE NAME	TITLE OF THE PROJECT	TYPE OF THE PROJECT	POS &PSOS TO WHICH MAPPED
110118114039	M.MOHAMMED IRFAN	Dr. S. Ramkumar,	INVESTIGATION OF WEAR AND THERMAL SHOCK BEHAVIOR OF FUNCTIONALLY GRADED EPOXY COATING ON MILD STEEL PLATE.	PO1,PO2,PO3,PO11,PSO1,PSO2	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114057	J.YUVAN RAJ				
110118114302	S.M.ADIL REHMAN				
110118114045	S.NAVEEN KUMAR				
110118114308	MOHAMED IBRAHIM T	Er.MUNI RAJA CHANRA	HEAT TRANSFER ANALYSIS IN THERMAL ENERGY STORAGE(TES) USING PHASE CHANGE MATERIALS-PARAFFIN WAX, HYDRO QUINONE, UREA COMPOSITIONS	HEAT TRANSFER	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114309	SARAVANAN A J				
110118114308	SARAVANAN A J				
110118114301	M.B. Abdul Razith	Dr. S. Ramkumar,	DESIGN AND FABRICATION OF A SNAP FIT COMPLIANT PHONE CASE	3D PRINTING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114303	M. Kadher Mohideen				
110118114701	A. Ahamed Riyaj Khan				
110118114004	AHAMED DHANVEERUL IRFAN				
110118114004	AHAMED DHANVEERUL IRFAN	MR.JAFAR ALI M.E	EXPERIMENTAL ANALYSIS ON THE EFFECT OF COATING ON HSS CUTTING TOOL	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114012	FARVES MUSHRAF				
110118114021	MOHAMED AL HAFEES				
110118114026	MOHAMED RIFAIZ SYED IBRAHIM				
110118114041	MOHAMMED TAWFEEQ NASAR	Mr. SHEIKH MOHAMMED	THERMAL CYCLIC BEHAVIOUR OF PLASMA SPRAYED THERMAL BARRIER COATING	THERMAL	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114056	SYED RAZA ALI				
110118114311	SHAIKH FAHAD				

110118114048	SYED ABUBACKER	MOHAMED YOUSUF	DESIGN & FABRICATION OF FULLY COMPLIANT PLIER	DESIGN	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114054	SYED IMRAN				
110118114055	SYED MEERAN YUSUF				
110118114305	MOHAMED AL IMRAN				
110118114018	MAHMOOTH NAFIL U	Dr. S. SATHISH	EFFECT OF TIG REMELTING ON THE CORROSION BEHAVIOR OF PLASMA SPRAYED ZIRCONIUM OXIDE COATING	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114029	MOHAMED SUHAIL S				
110118114030	MOHAMMED VASEEM N				
110118114059	ZIAUL FAYAZ Z				
110118114003	AFZAL KHAN A	Dr. S. SATHISH	EFFECT OF CALCIUM-MAGNESIUM ALUMINO-SILICATES (CMAS) ATTACK ON THERMAL BARRIER COATING	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114010	ASRAR AHAMED IBRAHIM M				
110118114027	MOHAMED SALMAN FARZI A				
110118114028	MOHAMED SHA KAJA JAVITH M				
110118114031	MOHAMMED AADHIL SHARIFF I	Dr.S. RAMKUMAR	WIRE EDM HOLE ROUGHNESS ANALYSIS OF SELECTIVE LASER MELTED 316 STAINLESS STEEL SPECIMEN	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114038	MOHAMMED IRFAN M				
110118114047	SADHAM HUSSAIN M				
110118114053	SHOIAB KHAN A				
110118114040	MOHAMMED RASHEED	Dr.S. RAMKUMAR	OPTIMIZATION OF TIG REMELTING ON THE WEAR BEHAVIOR OF PLASMA SPRAYED ZIRCONIUM OXIDE COATING.	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114042	MOHAMMED MUSHARRAF ALI				
110118114049	SEYED MOHAMED AZHAR				
110118114058	ZARAR AHAMED				
110118114015	IRSHAD AHAMED.S	Dr. S.RAMKUMAR	EXPERIMENTAL INVESTIGATION, MODELING AND OPTIMIZING OF MILLING PARAMETERS OF DUPLEX 2205	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114024	MOHAMED JAVITH.L				
110118114025	MOHAMED MUJEEB.S				
110118114032	MOHAMMED ABOOBACKER SIDIQUE.I				

110118114002	ABDUL BASITH.D	Mr. AYAS AHMED	EFFECT OF ACID ETCHING ON SCARF JOINT OF CFRP COMPOSITE	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114006	AHAMED MUNASIM.S				
110118114008	AKASH.R				
110118114023	MOHAMED HUSSAIN.S				
110118114037	MOHAMMED IBRAHIM	Er.S Abdur Rahman	DESIGN AND FABRICATION OF 3D PRINTED PHONE HOLDER	3D PRINTING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114044	M NAVEED KHAN				
110118114043	M MUSTAFA				
110118114051	S ZAMEER HUSSAIN.				
110118114304	MOHAMED AFREETH I	Dr.S. RAMKUMAR	FABRICATION OF 3D PRINTING OF MOBILE STAND	3D PRINTING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114307	MOHAMED IMRAN AW				
110118114306	MOHAMED ASLAM M				
110118114312	MOHAMED SYED FAREED M				
110118114034	MOHAMMED BILAL M	Dr.S. RAMKUMAR	INPROCESS HOLE ROUGHNESS ANALYSIS OF SELECTIVE LASER MELTED 316L STAINLESS STEEL SPECIMEN.	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114014	HAMEED RAHMAN M				
110118114013	HAFEEZULLAH KHAN				
110118114007	AJIMEER T	Dr. S. SATHISH	AYALYZE THE CYCLIC THERMAL EFFECT OF CMAS ATTACK ON THERMAL BARRIER COATING	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110118114009	ASMATH SHAFEE S				
110118114017	MADHAN KUMAR S				
110118114022	MOHAMED AYAS M				

Table 2.9. Mapping of Student Projects with POs and PSOs.

ACADMIC YEAR- CAYm2

ROLL NUMBERS	NAME OF THE STUDENT	GUIDE NAME	TITLE OF THE PROJECT	TYPE OF THE PROJECT	POS &PSOS TO WHICH MAPPED
110117114001	ABDUL AJEEZ N	Dr.S.SATHISH	HYDRAULIC FLOOR CRANE	HYDRAULICS	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114007	ABDUL SALAAM K				
110117114023	JANARTHANAN.S				
110117114029	LOGANATHAN.J				
110117114024	JAYA PRAKASH RAO.C	MR.ABDUR RAHMAN	PERFORMING WEAR AND TEAR TEST OF AN EPOXY COATED ALUMINUM	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114026	JITHESH KRISHNAN.A				
110117114027	KAVIN KUMAR.V.				
110117114028	LAKSHMIPATHY V				
110117114010	AJAY NANDA.S.	Mr.T.N.JAFAR ALI	AGRICULTURAL RECIPROCATING MULTI SPRAYER	AGRI	PO1,PO2,PO3,PO6,PO7,PO11,PSO1,PSO2
110117114019	HARIHARAN.G				
110117114020	IMRAN SHERIFF.K				
110117114025	JEROMEXAVIER G				
110117114011	ANAS IBNU MUHAMMED SADIQUE	Dr.ANJAN KUMAR SAHU	AUTOMATIC COIN BASED AUTOMATIC SHOE POLISH MACHINE	AUTOMATION	PO1,PO2,PO3,PO6,PO11,PSO1,PSO2
110117114035	MOHAMED AHNAAF ALI.M				
110117114036	MOHAMED AKEEF.N				
110117114045	MOHAMED HAMIM R				
110117114003	ABDUL KADHAR M	Dr.ANJAN KUMAR SAHU	FABRICATION AND ANALYSIS OF VCR SYSTEM WITH ELLIPSE SHAPED EVAPORATOR COIL	R&AC	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114008	AHAMED ABDUR RAHMAN.S.A				
110117114015	ASATH ALI M.E				
110117114021	INDLA VIKRAMA RAO				
110117114018	FAZIL HUSSAIN S	MR P MUNIRAJA CHANDRA	REGENERATIVE BRAKING SYSTEM	IC ENGINES	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114034	MOHAMED AASIR MEERAN.M.S.				
110117114038	MOHAMED ARSHATH S				
110117114044	MOHAMED HAMDHAN B				

110117114004	ABDULKAREEM M	Mr.T.N.JAFAR ALI	MOTORIZED HOVERBOARD	AUTOMATION	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114009	AHAMED SHAMIL M				
110117114039	MOHAMED ASIK.M				
110117114042	MOHAMED FAISAL D				
110117114005	ABDUL RAHEEM HAFIS T	Mr.R.MANIKANDAN	COMPRESSED AIR ENGINE	AIR COMPRESSOR	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114006	ABDUL RAWOOF S				
110117114017	DHIVAKAR T				
110117114040	MOHAMED ASWAN.N				
110117114013	ANWAR AZEEZ.A	Mr.SHEIK MOHAMMED	PORTABLE GROUND HOLE DIGGING MACHINE FOR PLANTATION	AGRI	PO1,PO2,PO3,PO6,PO11,PSO1,PSO2
110117114037	MOHAMED ALI S				
110117114043	MOHAMED FARHAN.M.				
110117114047	MOHAMED HASAN P M I	Dr.ANJAN KUMAR SAHU	PERFORMANCE OF R407C AS AN ALTERNATE TO R22	R & AC	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114048	MOHAMED HASSAN S				
110117114063	MOHAMED YASEEN S N				
110117114068	MOHAMMED NAZIRDEEN.S.				
110117114052	MOHAMED MEERA SAHIB K M	Mr.ABDUR RAHMAN	EFFECT OF ACID ETCHED SCARF JOINT OF CFRP COMPOSITE	COMPOSITE	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114057	MOHAMED RIZWAN S				
110117114058	MOHAMED SAKEEL S A				
110117114082	RASIK FAREED M				
110117114046	MOHAMED HARIS.J	Mr.HABEEB RAHMAN	SELF HEALING THERMOSETTING COMPOSITE MATERIAL	COMPOSITE	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114055	MOHAMED MYDEEN M				
110117114056	MOHAMED RIYANUDEEN.M				
110117114069	MOHAMMED NOWFEL S				

110117114071	MOHAMED SIDDIQ K.N	Dr.MOH.F.SHABIR	EXHAUST GAS FILTER USING CATALYST COATED ALUMINA BALLS	THERMAL	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114080	NITHISH KUMAR.J				
110117114081	RAJESH KANNA.S.				
110117114086	SANJAY KUMAR.G				
110117114076	MUHAMMAD ARSHAD M	Dr.S.RAMKUMAR	STUDY ON HOLE QUALITY AND TOOL WEAR DURING DRILLING OF CFRP LAMINATE WITH VARIABLE SPEED AND FEED RATE.	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114078	MUNEER AHAMED.G				
110117114079	NAVEEN KUMAR.K				
110117114087	SANTHA KUMAR.Y				
110117114064	MOHAMED ZUHAIR M	Mr.AYAZ AHAMED	ANALYSIS OF CUSTOMIZED BEAD SHEET FOR HEMORRHOID PATIENTS.	DESIGN	PO1,PO2,PO3,PO6,PO11,PSO1,PSO2
110117114065	MOHAMMED AAMIR SUHAIL.A.				
110117114066	MOHAMMED ARIF A				
110117114083	SAFWAN NAZEER AHAMED N				
110117114054	MOHAMED MUSTAQEEM.B	Mr.MOHAMMED YOUSUF	HARD COATING ON MILD STEEL FOR IMPROVING MECHANICAL PROPERTIES	TOOL DESIGN	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114061	MOHAMED SHAFIQ A				
110117114062	MOHAMED THAMEEMUL ANSARI S				
110117114073	MOHAMMED UMAR D				
110117114050	MOHAMED ISBATH ALI A	Mr.R.MANIKANDAN	VAPOR ABSORPTION REFRIGERATION TEST RIG	R & AC	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114053	MOHAMED MUSHARAF.R.				
110117114070	MOHAMMED RIYAS K				
110117114077	MUHSIN KAMEEL A				
110117114060	MOHAMED SHAFATH N	Mr.MOHAMMED YAHIYA	OPTIMIZATION OF SURFACE MILLING PARAMETER FOR MINIMUM ROUGHNESS ON MILD STEEL	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114067	MOHAMMED NABIDHU S				
110117114074	MUBARAK A				
110117114084	SAMEER RAJA S				

110117114092	SRIRAM.D.	Dr.S.RAMKUMAR	A NOVEL WELDING PROCESS WITH A MODIFIED TUNGSTEN ELECTRODE ON MILD STEEL	FABRICATION	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114095	SURIYA KRISHNAN.R				
110117114096	SURYA KUMAR.H				
110117114097	SYED ABDUL HASIB				
110117114088	SATHISH KUMAR.T	MR P MUNIRAJA CHANDRA	BUDGET WHEELCHAIR	AUTOMATION	PO1,PO2,PO3,PO6,PO11,PSO1,PSO2
110117114091	SHAMEER.M.				
110117114093	SUHAIB AHMED.P.A.				
110117114103	SYED TAUQEER AHMED				
110117114105	VASIM AKRAM S	Dr.S.RAMKUMAR	DESIGN AND DEVELOPMENT OF CAR COVER MECHANISM	IC ENGINES	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114305	HARIHARAN U				
110117114309	JAFFER SHERIEF T S				
110117114321	RIYAS K				
110117114319	RAIHAN SHAH SAIKIA	Dr.S.SATHISH	INVESTIGATION ON THE WEAR BEHAVIOR OF BORON CARBIDE REINFORCED MAGNESIUM METAL MATRIX COMPOSITE	COMPOSITE	PO1,PO2,PO3,PO11,PSO1,PSO2
110117114320	RAJESH D				

Table 2.10. Mapping of Student Projects with POs and PSOs.

ACADMIC YEAR- CAYm3

BATCH NO	ROLL NUMBERS	NAME OF THE STUDENT	GUIDE NAME	TITLE OF THE PROJECT	TYPE OF THE PROJECT	POS &P
1	110116114024	KAASHIFF UR RAHMAN	Dr. S. SATHISH	INFLUENCE ON THE MICROSTRUCTURE AND CORROSION BEHAVIOR OF LASER BEAM IRRADIATED PLASMA SPRAYED AL2O3-TIO2 COATING	MATERIALS	P
	110116114025	KADERSAHIB.S				
	110116114029	KARTHICK.R				
	110116114017	FAIZUR RAHMAN.M				
2	110116114001	J.AATHIL AMEEN	Dr. S. SATHISH	EFFECT OF ANNEALING AND QUENCHING ON WEAR AND CORROSIVE BEHAVIOR OF PLASMA SPRAYED AL2O3-TIO2 COATING	MATERIALS	P
	110116114002	B.ABDUL FASHID				
	110116114038	T.MOHAMED AL THAMEEM				
	110116114042	S.MOHAMED HAMDAN				

3	110116114006	AJMAL.T	Dr. S. SATHISH	INVESTIGATION ON THE MICROSTRUCTURE AND CORROSION BEHAVIOR OF TIG RE-MELTED PLASMA SPRAYED"ALUMINA-TITANIA COATING	MATERIALS	P
	110116114007	ANEES AHAMED.N				
	110116114034	MEHAR ALI.J				
	110116114046	MOHAMED IRFAN.H				
4	110116114048	K.MOHAMED NASEEF	J. HABEEB RAHMAN	FIBERGLASS WING OF A CAR	COMPOSITES	P
	110116114039	K.MOHAMED AMEERDEEN				
	110116114021	M.HIDAYATHUR RAHMAN				
	110116114005	N.A AHAMED HARIS				
5	110116114012	S.AZHAR MOHAMED	R. MANIKANDAN	MECHANICAL BEHAVIOR OF E-WASTE REINFORCED GFRP COMPOSITES	COMPOSITES	PO1,P
	110116114014	M.DHANAPAL				
	110116114023	A.JAHER USEN				
	110116114031	M.KARTHIKEYAN				
6	110116114008	C.ANNAMALAI	S. RAMKUMAR	OPTIMIZING END MILLING PARAMETERS FOR CFRP COMPOSITES	COMPOSITES	P
	110116114016	M.DHANUSH				
	110116114013	S.BHARATH				
	110116114022	P.JAGADEESH				
7	110116114037	MOHAMED ABUTHAIR.M	P. MUNI RAJA CHANDRA	PERFORMANCE AND COMBUSTION CHARACTERISTICS OF DI DIESEL ENGINE USING VARIOUS PUBLIC SECTOR UNIT AND PRIVATE SECTOR UNITS FUELS	IC ENGINES	P
	110116114041	MOHAMED FIAZ.A				
	110116114043	MOHAMED HARIES.M				
	110116114050	MOHAMED RASHIM.V				
8	110116114004	ABRAR AHAMED .A	K. BALASUBRAMANIAN	DESIGN AND ANALYSIS OF CARBIDE TOOL IN ALLOY FRAME STEEL	MANUFACTURING	PO
	110116114010	ARIFF.S				
	110116114027	KALEEMULLAH.A				
	110116114045	MOHAMED ILYAS.M				
9	110116114020	HEMA VIJAY.S	K. BALASUBRAMANIAN	DESIGN,ANALYSIS AND FABRICATION OF INSTANT AIR COMPRESSOR IN TWO WHEELER	IC ENGINES	PO
	110116114028	KAMESH.K				
	110116114030	KARTHICK.T				
	110116114033	MANIKANDAN.G				

10	110116114009	ANWAR.M	S. ABDUR RAHMAN	DESIGN AND ANALYSIS OF AIR CONDITIONING DUCT ROUTING	REFRIGERATION & AIR CONDITIONING	PO
	110116114035	MOHAMED AASEER.J				
	110116114032	KULAM.B.A.MOOSA NAINA				
	110116114018	GOPINATH.T				
11	110116114026	KALAIVANI.M	E. JEYABALAN	INFLUENCE OF CRYOGENIC COOLING ON CYLINDRICAL GRINDING OF AISI-1045 STEEL	MANUFACTURING	P
	110116114036	MOHAMED ABHUR RAHMAN.M.H				
	110116114011	ASIR SAMUEL.T				
	110116114040	MOHAMED ASMEEN.K				
12	110116114056	MOHAMED SHALIH S	S. RAMKUMAR	STUDIES ON MECHANICAL PROPERTIES OF SYNTHETIC FIBER REINFORCED PINEAPPLE LEAF FIBER	COMPOSITES	PO
	110116114065	MOHAMMED HASHIM.J				
	110116114071	MONESH.K.				
	110116114080	PRAVEEN KUMAR.G.				
13	110116114063	MOHAMMED ASLAM S	AYAZ AHMED	STUDIES AND MECHANICAL PROPERTIES OF GLASS,BAMBOO,SISAL FIBER REINFORCED KAPOK COAT FIBER	COMPOSITES	PO
	110116114067	MOHAMMED SALMAN S				
	110116114070	MOHAMMED YOUNUS M R				
	110116114081	RANZIL RAHMAN.S				
14	110116114064	MOHAMMED FARAAZ. S	Dr. S. SATHISH	INVESTIGATION ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF EGG SHELL POWDER REINFORCED ALUMINUM METAL MATRIX COMPOSITES	COMPOSITES	P
	110116114084	SAMEEM AHAMED P.S.S.				
	110116114087	SHAKEEL AHMED M S				
	110116114049	MOHAMED NAFEEZ M				
15	110116114052	MOHAMED RAZIK K	M. SHEIK MOHAMED	FABRICATION AND CHARACTERISATION OF COMPOSITE FROM SUGARCANE BAGASSE AND WASTE PLASTIC FOR DOMESTIC THERMAL INSULATION	COMPOSITES	PO1,P
	110116114072	MUFEES AHAMED S				
	110116114088	SHA MOHAMED NASEERUDIN BAKSHI.M				
	110116114089	SHEIK ARSATH AHAMED S I				
16	110116114077	NIRMAL.S.	AYAZ AHMED	DRILLING PERFORMANCES OF COATED DRILL BITS DURING DRILLING IN REINFORCE CONCRETE	MANUFACTURING	P
	110116114079	PRABHANJAN.S.				
	110116114096	THOUFEEK MOHAMMED.S				
	110116114098	VIGNESHWAR.R.				

17	110116114075	NASSIR SULTAN MOHIDDIN	Dr. ANJAN KUMAR SAHU	GENERATION OF HOT AND COLD WATER USING HEAT EXCHANGER IN A SIMPLE REFRIGERATION CYCLE	HEAT TRANSFER	P
	110116114093	SYED ABDUL RAHMAN R				
18	110116114057	MOHAMED SHAMSUDEEN.N	R. MANIKANDAN	DEVELOPMENT OF VAPOR ABSORPTION REFRIGERATION TEST RIG	R & AC	P
	110116114060	MOHAMED THARICK K				
	110116114062	MOHAMED ASHIF RILWAN.A				
	110116114073	MUHAMED SHARIFF.M				
19	110116114051	MOHAMED RAZEEN	Dr. ANJAN KUMAR SAHU	FABRICATION OF WET SCRUBBER IN EXHAUST SYSTEM	IC ENGINES	P
	110116114069	MOHAMMED YASEEN				
	110116114078	OVIES NIHAL M				
	110116114092	SREE KRISHNA CHAITANYA.V				
20	110116114055	MOHAMED SAMEER O A	M. MOHAMMAD YOUSUF	INVESTIGATION ON MECHANICAL PROPERTIES OF AlSiC METAL MATRIX COMPOSITE	MATERIALS	P
	110116114059	MOHAMED TARIQ.M.				
	110116114085	SHABIB MOHAMED.S				
	110116114095	SYED MOHAMMED SIDDEEQ.S				
21	110116114076	NELSON .P.	J. HABEEB RAHMAN	DESIGN AND FABRICATION OF LEAF SPRING USING COMPOSITE MATERIALS	DESIGN	P
	110116114097	THOUFIQ AHAMED A				
	110116114099	VINOD EMMANUEL.S				
	110116114100	WAZIR SHERIF.S.				
22	110116114053	MOHAMED RISWAN A	S. ABDUR RAHMAN	EFFECT OF SIC ON MECHANICAL PROPERTIES OF BORON CARBIDE ON ALUMINUM BLENDED MATRIX	APPLICATION	P
	110116114054	MOHAMED RIZVI R				
	110116114068	MOHAMMED WAQQAS S				
	110116114074	MUHAMMAD ABDUL WAHID K				
23	110116114058	MOHAMED SUHAIL.S.R.	K. BALASUBRAMANIAN	FRP BASED CERAMIC REINFORCED CUTTING WHEEL	MANUFACTURING	P
	110116114083	SAFWAN S				
	110116114090	SHEIK HASSAN.K				
	110116114091	SIVA MOORTHY S				

24	110116114061	MOHAMED UVAISUL KARNEE.D	J. HABEEB RAHMAN	INVESTIGATION OF MECHANICAL BEHAVIOR OF FIBER REINFORCED HYBRID	COMPOSITES	P
	110116114066	MOHAMMED IMRAN ASGHAR.I				
	110116114082	RASEETH ANVAR V M				
	110116114094	SYED ABUBAKKAR BADUSHA A				
25	110116114304	FAYAZ V	S. RAMKUMAR	DELAMINATION STUDIES ON END MILLING OF CFRP COMPOSITE USING THERMAL IMAGING TECHNIQUE	COMPOSITE	P
	110116114308	MOHAMED IMTHIAS M				
	110116114316	MOHAMMED YOUSUF A				
	110116114319	NIYAMATHULLAH A				
26	110116114322	SAJITH AHAMED K	Dr MOHD F SHABIR	VIBRATION BEHAVIOR OF DI DIESEL ENGINE OPERATING WITH TERNARY BLENDS OF DIESEL, KARANJA AND ROSELLE BIODIESEL	IC ENGINES	P
	110116114307	MOHAMED AL AFRIES M				
	110116114310	MOHAMED SHADHIR H				
27	110116114314	MOHAMMED SHAKIER S	R. MANIKANDAN	EXPERIMENTAL INVESTIGATION OF CASCARA AND TESTA REINFORCED HYBRID COMPOSITE	APPLICATION	
	110116114318	MOHESH KUMAR A				P
	110116114326	VIJAYA BHARATHI J				
	110116114705	SURYA R				
28	110116114301	ABSAR ALI J	B. MOHAMMED YAHIYA	PERFORMANCE TEST AND EMISSION CHARACTERISTICS OF BIODIESEL (Jatropha Causes) BLEND WITH DI DIESEL ENGINE	IC ENGINES	PO
	110116114311	MOHAMMED BASIT A				
	110116114315	MOHAMMED UZAIR AHAMED N				
	110116114323	SATHISH KUMAR S				
29	110116114302	AHMED SUHAIL J	M. SHEIK MOHAMED	PERFORMANCE AND EMISSION CHARACTERISTICS OF DIESEL ENGINE BY CHANGING TRIANGULAR SHAPED PISTON CROWN	IC ENGINES	P
	110116114306	HUSSAIN MUHTHASIM R				
	110116114325	UTHUMAN P				
	110116114309	MOHAMMED ISMAIL M				
30	110116114305	HARI SAI PRASAD C	T. N. JAFAR ALI	ANALYSIS OF ALOE VERA BIODIESEL BLENDS ON THE PERFORMANCE, COMBUSTION AND EMISSION CHARACTERISTICS OF A DI DIESEL ENGINE	IC ENGINES	PO1,PO
	110116114313	MOHAMMED SAAD M				
	110116114701	MOHAMMED MAHADIR A				
	110116114704	AHMED SHAH. N				

31	110116114312	MOHAMMED FARMAAN H	Dr MOHD F SHABIR	PERFORMANCE EVALUATION OF STEAM THERMAL POWER PLANT FOR DIFFERENT QUALITIES OF DIESEL	THERMAL	P
	110116114317	MOHAMMED ZABERU RAHMAN F				
	110116114703	SYED MOHAMMED AFROZE ALAM				
	110116114303	AHSAN S				
32	110116114320	RIZWAN BASHA M	E. JEYABALAN	MULTI OBJECTIVE DESIGN OPTIMIZATION AND FINITE ELEMENT ANALYSIS OF BIKE BACK REST	DESIGN	P
	110116114321	ROBIN SINGH A				
	110116114324	SUHAIL S				
	110116114702	JOEL SATHYA PRAKASH M				

Table 2.11. Mapping of Student Projects with POs and PSOs.

ACADMIC YEAR- CAYm4

ROLL NUMBERS	NAME OF THE STUDENT	GUIDE NAME	TITLE OF THE PROJECT	TYPE OF THE PROJECT	POS &PSOS TO WHICH MAPPED
110115114072	MOHAMMED ADNAN A	Dr. MOHD. F SHABIR	GROUND COUPLED AIR CONDITIONING SYSTEM	THERMAL	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114075	MOHAMMED HASEEB KHAN				
110115114077	MOHAMMED SULAIMAN A				
110115114078	MOHAMMED THAWFIK KHAN				
110115114052	MOHAMED EZAR RAHMAN O	MR AYAZ AHAMED	CORROSIVE BEHAVIOR OF Al-Cu-SiC Metal	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114055	MOHAMEDFARHAN A				
110115114056	MOHAMED FAYEES M				
110115114068	MOHAMED THASREEF A				
110115114080	MOHAN KUMAR A S	MR MUNIRAJA CHANDRA	PERFORMANCE AND EMISSION CHARACTERISTICS OF A PLASTIC PYROLYSIS OIL BLEND WITH DIESEL IN CI ENGINE	IC ENGINES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114088	RAHMAN H				
110115114091	RAJKIRAN R				
110115114092	RAMESH S				
110115114049	MOHAMED ASLAM A	MR HABEEB RAHMAN	PERFORMANCE AND EMISSION CHARACTERISTICS OF A PLASTIC PYROLYSIS OIL BLEND WITH DIESEL IN CI ENGINE	IC ENGINES	PO1,PO2,PO3,PO7,PO11,PSO1,PSO2
110115114050	MOHAMED ASLANSHA A				
110115114051	MOHAMED AZEEZ J				
110115114059	MOHAMED IRFAN AKTHAR HUSSAIN A				
110115114064	MOHAMED NAZEEM M	MR E JEYABALAN	PRODUCTION OF BIODIESEL FROM JATROPHA OIL	IC ENGINES	PO1,PO2,PO3,PO6.PO7,PO11,PSO1,PSO2
110115114065	MOHAMED OMAR FAIYAZ J M				
110115114071	MOHAMMAD SHEAD S				
110115114074	MOHAMMED FIZAL S				

110115114057	MOHAMED HASAN M	MR SHEIK MOHAMED	CORROSION BEHAVIOR OF AL+Gr METAL MATRIX	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114060	MOHAMED ISMAIL M				
110115114070	MOHAMED YOUSUF AFZAL P.M				
110115114093	ROSHAN FAREED N				
110115114053	MOHAMED FAISAL K SYED IBRAHIM	MR. M. YAHIYA	BIODIESEL WITH ALUMINA AS ADDITIVE	THERMAL	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114081	NASL CHERAYAKAT				
110115114082	NAVEEN C				
110115114089	RAJADURAI C				
110115114084	PRADISH D	MR R MANIKANDAN	EVALUATION OF WEAR AND WEAR PROPERTIES OF INTRA LAYERED HYBRID FIBER REINFORCED COMPOSITES	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114087	PRAVEEN KUMAR R				
110115114090	RAJEETH KUMAR K.C				
110115114094	SADHA SIVAVARMAN A				
110115114061	MOHAMED MAROOF GANI J	DR S SATHISH	INVESTIGATION OF MECHANICAL PROPERTIES OF STEEL POWDER REINFORCED IN CONCRETE	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114083	PRABHAKAR VASU N				
110115114085	PRATHABAN R				
110115114086	PRAVEEN KUMAR K				
110115114062	MOHAMED MARSATH M	DR ANJAN KUMAR SAHU	AUTOMATIC WATER GENERATOR FROM HUMID ATMOSPHERIC AIR	R&AC	PO1,PO2,PO3,PO6,PO7,PO11,PSO1,PSO2
110115114069	MOHAMED YASIR M				
110115114073	MOHAMMED FAHAD F				
110115114095	SAFAT AHAMED H				
110115114058	MOHAMED IJAZ M	MR AYAZ AHAMED	INVESTIGATION ON MACHINE PERFORMANCE ANALYSIS OF PVD COATED IN DRILL BIT TOOL	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114066	MOHAMED SAFI A				
110115114067	MOHAMED SAJID M				

110115114063	MOHAMED MUJAMAL S	MR AYAZ AHAMED	INVESTIGATION ON MACHINE PERFORMANCE ANALYSIS OF PVD COATED IN MILLING CUTTER TOOL	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114096	SAHUL HAMEED H.				
110115114101	SHEIK MOHAMED RAAZID.P.M	MR.ABDURRAHMAN	PREDICTIONAL OPTIMIZATION OF SURFACE ROUGHNESS FOR HIGH HARDENED STEEL IN TURNING OPERATION	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114109	TUFEL AHAMED.G				
110115114111	VIJAY.S				
1101151140101	NANDHA KUMAR.K.L				
110115114102	SUHAIL KASIM.M.K	MRS.JEYABALAN	PREDICTING THE RESIDUAL STRENGTH OF CFRP COMPOSITE WITH FUZZY LOGIC USING ACOUSTIC EMISSION	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
1101115114108	TAMIL SELVAN.M				
110115114113	VISHNU KUMAR.S				
110115114115	YUVARAJ.R				
110115114097	SARAVANAN.S	MR.SENTHILVEL	INVESTIGATION ON THE MACHINING PERFORMANCE ANALYSIS ON PVD COATED CUTTING TOOL	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114110	VIGNESH RAJA.C				
110115114313	RAJENDRA PRASAD				
110115114702	YUVARAJ.G				
110115114103	SYED AZARUDEEN.S	MR.S.MOHAMED ABBAS	DESIGN AND FABRICATION OF TILES TESTING MACHINE	MANUFACTRING	PO1,PO2,PO3,PO5,PO11,PSO1,PSO2
110115114104	SYED DARVESH ALI.A				
110115114107	SYED MOHAMED THAAQIB				
110115114112	VIJAYA DEVA.D				
110115114201	ARUNRAJ.B	MR.SYED ZUBAIR	ANALYSIS OF HEAT TRANSFER CHARACTERISTICS OF WATER ETHYLENE GLYCOL AND COPPER OXIDE AS A NANO FUEL IN THE I.C ENGINE RADIATOR	HEAT TRANSFER	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114308	MOHAMED HALITH.M				
110115114312	NOUHMAN HAKIM.N				
110115114315	SHAGUL HAMEED.Y				
110115114105	SYED DHAANISH.M	MR.SYED ZUBAIR	FEA ANALYSIS AND EXPERIMENTAL INVESTIGATION OF CU-AL-ZIRCONIA COMPOSITES	DESIGN	PO1,PO2,PO3,PO5,PO11,PSO1,PSO2
110115114106	SYED HAMEED.M				
110115114116	ZAINUL ABIDEEN.Z				
110115114305	MOHAMED ANAS.M.K				

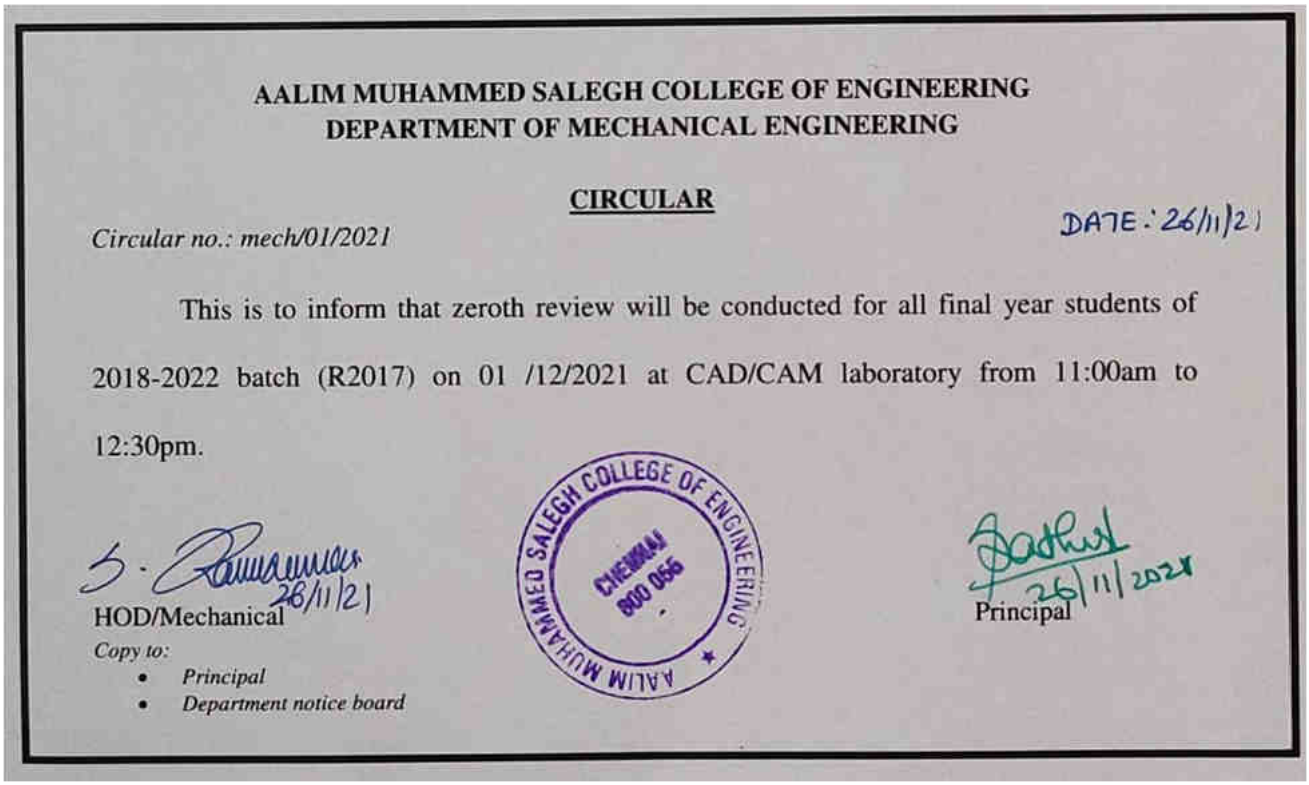
110115114098	SATHISH KUMAR.S	MR.MANIKANDAN.R	FABRICATION ANALYSIS AND IN VITRO STUDIES IN THE INFLUENCE POROSITY IN CUSTOMIZED BONE SCAFFOLD	DESIGN AND MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114304	KANNAN.M				
110115114314	SANTHOSH KUMR.S				
110115114703	JEYAPRAKASH.E				
110115114302	AYYAS AHMED.H	MR.MANIKANDAN.R	EFFECT OF MICROSTRUCTURE CHANGES ON SPOT WELDING ON ALUMINUM SHEET	MANUFACTURING	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114303	KABEER AHAMED.N				
110115114307	MOHAMED ESHA.S				
110115114316	SYED IMRAN.S.M				
110115114306	MOHAMED AZARUDEEN	DR.RAMKUMAR .S	EFFECT OF CARBON NANOTUBES ON ADHESIVE STRENGTH OF CFRP AFTER SAND BLASTING PROCESS	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114309	MOHAMED ISMAIL				
110115114310	MOHAMED ASHIK				
110115114317	THAMEEM AHAMED.H				
110115114014	ASWIN R	MR.SYED ZUBAIR	DESIGN AND COMPARISON OF THE STRENGTH AND EFFICIENCY OF DRIVE SHAFT MADE OF STEEL MATERIAL	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114031	JITIN MOHAN M				
110115114035	KARTHICK D				
110115114038	MANOHARAN M				
110115114021	DHINESH B	MR.ASHOK	3D FINITE ELEMENT ANALYSIS OF FIBER REINFORCED POLYMER COMPOSITE	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114022	DINESH G				
110115114023	DINESH KUMAR S				
110115114025	GOPALAKRISHNAN T				
110115114010	AKRAM ALI J	MR SHEIK MOHAMED	DESIGN OF SHELL AND TUBE HEAT EXCHANGER USING DAUGHT TYPE BAFFLE	HEAT TRANSFER	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114016	BARSHATH ALI B				
110115114037	MAHATHIR MOHAMED N				
110115114038	MANOHARAN M				
110115114036	KHALEED MOHAMMED KHAN	MR MOHAMED ABBAS	AN EXPERIMENTAL INVESTIGATION AND TRIBOLOGICAL BEHAVIOR OF BIOLUBRICANT USING CUSTARD SEED OIL	IC ENGINES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114042	MOHAMED AJMAL M				
110115114043	MOHAMED AKIL S				
110115114045	MOHAMED ANWAR BASHA K				

110115114004	AHAMED A	DR S SATHISH	EFFECT OF POWER INPUT AND SCANNING SPEED ON LASER HARDENING OF STAINLESS STEEL	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114006	AHAMED JANSEER N				
110115114008	AJMAL KHAN A				
110115114040	MOHAMED ABUBAKER THANISH J				
110115114027	HAMAD NABEEL	Mr. B.ASHIQ	CERAMIC REINFORCED POLYMER MATERIAL FOR BIOMEDICAL APPLICATIONS	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114032	JUNAID SHARIFF M				
110115114039	MD MAZHARULLAH SHERIFF				
110115114046	MOHAMED ARSHAD A				
110115114005	AHAMED AATHEEF S	Mr. HABBEB RAHMAN	INVESTIGATION AND MECHANICAL BEHAVIOR OF MARINE GREEN ALGAE	MATERIALS	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114015	BALAKRISHNAN G				
110115114020	DEEPAK T				
110115114041	MOHAMED AFSAR M				
110115114017	BASHEER AHAMED A	Mr. HABBEB RAHMAN	MECHANICAL AND BIOMEDICAL BEHAVIOR OF VELDT GRAPE FIBER COMPOSITE	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114018	BHARATH S				
110115114019	CHARLES BENNY S				
110115114024	FAHAD SULTHAN M				
110115114001	AADIL MUJTHABA SHERIF	MR.ASHOK	DESIGN AND ANALYSIS OF WISHBONE SYSTEM IN ATV	DESIGN	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114003	AFRIDI NAWAZ F				
110115114012	ASHOK S				
110115114013	ASLAM UL AMEEN S				
110115114002	AFRID AHAMED K S	DR.RAMKUMAR .S	RESPONSE SURFACE OPTIMISATION OF LASER PROCESS PARAMETER TO PREPARE CARBON FIBER REINFORCED PLASTICS BY ADHESIVE BONDING	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114029	IRFANAHAMED N				
110115114034	KAMAL V				
110115114044	MOHAMED AMMAR M F				
110115114007	AHFAAN JUBAIR A M	Mr. HABBEB RAHMAN	ANALYSIS OF BANANA FIBER REINFORCEMENT COMPOSITE	COMPOSITES	PO1,PO2,PO3,PO11,PSO1,PSO2
110115114009	AKASH M				
110115114011	ASAF MOHAMMED A				
110115114030	IYYAPPAN A				

C) CONTINUOUS MONITORING MECHANISM AND EVALUATION FOR THE PROJECTS:

Continuous monitoring Process for Internal Projects:

As a start of the race to complete the project work, a committee of experienced faculty members of the department will conduct zeroth review at the en the title of work, team member and guide. Immediately upon entering the eight semester students team will start working on the approved project work completion of the project work, three reviews will be conducted at equal intervals prior to the final viva-voce. The schedule of each review will be comm semester. A committee of experienced faculty members will conduct the reviews and assign marks for each review by considering the work progress, n contribution. Final viva-voce examination will be conducted by an external faculty member assigned by university and a senior faculty member from the



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Circular no.: mech/01/2021

DATE: 26/11/21

This is to inform that zeroth review will be conducted for all final year students of 2018-2022 batch (R2017) on 01 /12/2021 at CAD/CAM laboratory from 11:00am to 12:30pm.

HOD/Mechanical 26/11/21

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING CHENNAI 600 055

Principal 26/11/2021

Copy to:

- *Principal*
- *Department notice board*

Figure 2.13. Scanned copy of zeroth project review circular.

Evaluation Process for Projects:

Table 2.12. Rubrics for Internal Evaluation.

Criteria	<30%	>30 to 65%	>65%
Originality and novelty of the project (10 Marks)	No originality and novelty found (0 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 that 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 PERFORMANCES:

The performance of Individual team members is assessed at the time of presentations in Reviews and the approach the individual takes to complete th based on the following criteria.

- Presentation skills
- Coordination with the Guide/Project Coordinator
- Individual contribution to the project
- Overall knowledge of the project

The Project teams performance is assessed using the following criteria.

- Design/Methodology
- Implementation
- Demonstration of Results
- Thesis
- Viva-voce

E) QUALITY OF COMPLETED PROJECTS:

The quality and the novelty of the project is estimated based on the below mentioned criteria.

1. Publication in conference proceedings / journal
2. Applicability of of work to solve real life problems
3. Cost of the project
4. External examiner’s feedback
5. Awards / Prizes obtained in symposiums / exhibition / competition

F. Papers published/Awards Received for the projects:

Table 2.13. Awards Received for Students Projects for CAY (2022-23).

Register number	Name of student	Mentor	Title of the project	Award
110118114018	MAHMOOTH NAFIL U	Dr. S. SATHISH	EFFECT OF TIG REMELTING ON THE CORROSION BEHAVIOR OF PLASMA SPRAYED ZIRCONIUM OXIDE COATING	Best project award by i3 Design Technologies Ltd.
110118114029	MOHAMED SUHAIL S			
110118114030	MOHAMMED VASEEM N			
110118114059	ZIAUL FAYAZ Z			

Table 2.14. Awards Received for Students Projects CAYm2 (2020-21).

Register number	Name of student	Mentor	Title of the project	Award
110117114013	ANWAR AZEEZ.A	Mr.SHEIK MOHAMMED	PORTABLE GROUND HOLE DIGGING MACHINE FOR PLANTATION	Best Design award by i3 Design Technologies Ltd.
110117114037	MOHAMED ALI S			
110117114043	MOHAMED FARHAN.M.			

Table 2.13. Awards Received for Students Projects for CAY (2021-22).

Register number	Name of student	Mentor	Title of the project	Award
110116114004	ABRAR AHAMED .A	Mr. K. BALASUBRAMANIAN	DESIGN AND ANALYSIS OF CARBIDE TOOL IN ALLOY FRAME STEEL	Best Under Graduate Project award by M/s Chase Technologies Ltd, Chennai.
110116114010	ARIFF.S			
110116114027	KALEEMULLAH.A			
110116114045	MOHAMED ILYAS.M			

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

A) INDUSTRY SUPPORTED LABORATORIES

Table 2.15. Industry Supported Laboratories.

S.No	Name of the Laboratory	Type of Industry	Organization Name	Objectives
1	NDT Laboratory	Quality Assurance	SMEC Laboratories	To train the students in NDT techniques.

B) INDUSTRY INVOLVEMENT IN THE PROGRAM DESIGN AND PARTIAL DELIVERY OF COURSES BY INDUSTRY EXPERTS.

Table 2.16. List of Technical Talk/ Guest Lectures Arranged for CAY (2021-22).

S.No	Title of Talk	No. of Hours	Resource Person	Target Students	Contact Information	Mode of Presentation	Remarks
1	Webinar on "Industrial Engineering – An Overview"	1	S Amazing Comfortson Process Executive Manager, Ather Energy Pvt. Ltd, Bengaluru	III, IV years	9710495480	VIRTUAL	Students learn about the importance of Engineering and get the knowledge about the different processes involved in the engineering industries
2	Seminar on "Industrial Design"	1.30	P.K Venkataramana Business Head IID	II, III, IV Years	8608854209	VIRTUAL	The students gained the knowledge about the different designing software used in industries

Table 2.17. List of Technical Talk/ Guest Lectures Arranged for CAYm1 (2020-21).

S.No	Title of Talk	No. of Hours	Resource Person	Target Students	Contact Information	Mode of Presentation	Remarks
1	Webinar on "Materials Joining in Power Sector Present & Future"	1.30	Dr K Devakumaran Manager – Advanced Technology Products, BHEL, Trichy	III, IV Years	9443689943	VIRTUAL	The students learned about the different joining technologies and methods used in power sectors.
2	Webinar on "Industry 4.0"	1	C S Swaminathan Director-Strategic Planning – FMCG Industry, Germany	II, III, IV Years	9940467462	VIRTUAL	The students attained knowledge about the importance of industry revolution in present scenario

Table 2.18. List of Technical Talk/ Guest Lectures Arranged for CAYm2 (2019-20).

S.No	Title of Talk	No. of Hours	Resource Person	Target Students	Contact Information	Mode of Presentation	Remarks
1	Guest Lecture on "Non – Destructive Testing"	2	K Venkadesh SMEC Labs, Chennai	III, IV Years	8139095777	OFF LINE	The students learned about the different methods of inspection used in the joining process.
2	Guest Lecture on "Introduction to Ansys"	2	ErRanjith Technical Head, i3 Design Technologies, Chennai	II, III Years	7010840674	OFF LINE	The students get the knowledge about the importance of ansys software.

C) IMPACT ANALYSIS OF INDUSTRY INSTITUTE INTERACTION AND ACTIONS TAKEN THERE OF.

Table 2.19. List of MoUs.

S.No	Name of the Industry with Contact Details	Date of MoU Signed	SPOC
1	K.J Research Foundation. K.J.Hospital Research & Post Graduate Center	17.10.18	Dr.S.Sathish
2	Michelin India Private Limited	06.10.2017	Mr.Ravikumar
3	Mosook Training Academy & Consultants Pvt Ltd	12.10.2019	Mr.Ravikumar
4.	Knowledge Exchange community	2019	Dr.S.Ramkumar

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

A) INDUSTRIAL VISITS:

The industrial visits arranged for the students are listed in the below tables

Table 2.20. List of Industrial Visits for CAY (2021-22).

S. No.	Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	No of participants
1	Renewable Energy Industry	Virtual Industry visit	Siemens Gamesa	2021	15-12-2021	32
2	Production	Virtual Industry visit	Brakes India Foundry Division	2021	26-03-2021	37
3	Research	Virtual Industry visit	IITM Research Park	2021	25-03-2021	33
4	Renewable Energy Industry	Virtual Industry visit	Siemens Gamesa	2021	17-03-2021	35

Table 2.21. List of Industrial Visits for CAYm1 (2020-21).

S. No.	Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	No of participants
1	Research	Virtual Industry visit	IITM Research Park	2020	25-11-2020	37
2	Chemical Industry	Virtual Industry visit	Alkyl Amines Chemicals Ltd.,	2020	04-11-2020	35
3	Organic Industry	Virtual Industry visit	Swati Organics Ltd.,	2020	16-10-2020	31
4	Project Management	Virtual Industry visit	L&T Hydrocarbon division	2020	16-09-2020	36

Table 2.22. List of Industrial Visits for CAYm2 (2019-20).

S. No.	Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	No of participants
1..	Production	Industrial Visit	Diamond Engineering	2019	24.9.2019	125
2.	Production	Industrial Visit	Integral Coach Factory	2020	21.1.2020	28
3.	Production	Industrial Visit	Integral Coach Factory	2020	28.1.2020	35

B) INDUSTRY / INTERNSHIP / SUMMER TRAINING OF MORE THAN TWO WEEKS AND POST TRAINING ASSESSMENT

Table 2.23. List of Internships for CAYm2 (2021-22)

S. No.	Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	No of participants
1	Manufacture of Precision Components	Internship	Advance Engineering and Sourcing solutions	2021	06-09-2021 to 06-10-2021	06
2	Manufacture of Chemicals	Internship	Indoseoul Technologies Pvt. Ltd.,	2021	19-08-2021 to 04-09-2021	03
3	Fire safety and security	Internship	Safety plus	2021	Jan 2021 to June 2021	01
4	Manufacture of Automobile Parts	Internship	Delphi TVS Technologies	2021	18-05-2021 to 31-08-2021	01
5	Design	Internship	Conceptia software Technologies Pvt. Ltd.,	2021	04-10-2021 to 19-10-2021	03
6	Marketing	Internship	IFORTIS worldwide	2021	25-08-2021 to 27-09-2021	01
7	Manufacture of Automobile Parts	Internship	Baleshwar Auto Pvt. Ltd.,	2021	15-04-2021 to 15-10-2021	01
8	Painting Equipments	Internship	Surral surface coatings pvt. Ltd.,	2021	02-08-2021 to 11-08-2021	01
9	Painting Equipments	Internship	Surral surface coatings pvt. Ltd.,	2021	04-10-2021 to 20-10-2021	01

Table 2.24 List of Internships for CAYm1 (2020-21).

S. No.	Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	No of participants
1	Metal supplier	Internship	STAR METAL INDUSTRIES,chennai.	2020	01.08.2020 TO 31.08.2020	01
2	Granite Supplier	Internship	INDIGRA global enterprises,chennai	2020	01.08.2020 to 05.09.2020	01
3	Production	Internship	ANTO NIXON Automotive private limited,Chengulpet	2020	05.09.2020 to 21.11.2020	05
4	A C Repair and Service	Internship	FAMI AIR CONDITIONERS, chennai	2020	10.09.2020 To 10.10.2020	02
5	Maintenance	Internship	ROYAL ENFIELD	2020	05.10.2020 TO 17.10.2020	02
6	Manufacture	Internship	MYMI Engineering services,chennai	2020	05.10.2020 TO 05.11.2020	01
7	Machine construction	Internship	AKWAB ENTERPRISES,SIDCO INDUSTRIAL ESTATE, PUDUKKOTTAI	2020	10.10.2020 TO 10.12.2020	01
8	Auto Parts Manufacturer	Internship	INZI CONTROLS INDIA LTD.	2020	26.10.2020 to 26.11.2020	01
9	Power Generation	Internship	WIND KRAFT projects india Ltd. Kanyakumari	2020	26.10.2020 to 26.11.2020	01
10	Maintenance	Internship	R K Motors	2021	29-10-2020 to 07-11-2020	01
11	Advanced Machining	Internship	QUEEN TECH, cnc wire cut,EDM & Tool works, chennai	2020	30.11.2020 TO 31.12.2020	01
12	Power Generation	Internship	VALUTHUR GAS TURBINE POWER STATION, Ramanathapuram	2020	16.12.2020 to 19.12.2020	05
13	Maintenance	Internship	A.R.A.S. Crane services,chennai	2021	22.02.2021 to 09.04.2021	07
14	Manufacturing of Auto Components	Internship	ASWIN COLD FORGE Pvt Ltd.chennai	2021	05.04.2021 to 28.05.2021	01
15	Maintenance	Internship	BAWA LORRY SERVICE,Madurai	2021	01.03.2021 to 31.03.2021	01
16	Service Station	Internship	CAPITAL HONDA,Chennai	2021	01.04.2021 TO 17.04.2021	01

17	Design	Internship	Future CAE, Technologies Pvt. Ltd.,chennai	2020	01.12.2020 to 11.01.2021	03
18	Service Station	Internship	HARARE SERVICES,chennai	2021	22.02.2021 to 26.03.2021	01
19	Service Station	Internship	HYGIENE STOP,My TVS,Thanjavur	2021	01.02.2021 TO 28.02.2021	01
20	Design	Internship	i3 DESIGN TECHNOLOGIES, CHENNAI	2021	01.02.2021 to 21.02.2021	10
21	Design	Internship	i3 DESIGN TECHNOLOGIES, CHENNAI	2021	11.01.2021 TO 31.01.2021	06
22	Design	Internship	i3 DESIGN TECHNOLOGIES, CHENNAI	2021	04.01.2021 TO 24.01.2021	10
23	Manufacture of Rail coaches	Internship	INTEGRAL COACH FACTORY,CHENNAI	2021	04.03.2021 TO 18.03.2021	06
24	Manufacturer of CNC parts	Internship	Jayam Hi-Tech Toolings,chennai	2020	14.12.2020 to 29.01.2021	02
25	Machinery Part Manufacturer	Internship	K.R.S INDUSTRIES, coimbatore	2020	25.12.2020 TO 25.01.2021	04
26	Service Station	Internship	LAKSHMI MOTORS,SML ISUZU ,Chennai	2020	28.12.2020 TO 25.02.2021	01
27	Engineering Service	Internship	LAKSHMI WORKS,Kollam	2021	02.01.2021 to 03.02.2021	04
28	Packaging works	Internship	METRO MARKETING, CHENNAI	2021	10.03.2021 to 20.03.2021	01
29	Construction works	Internship	Nellai Concrete Products & Construction Co.(P) Ltd., Gangaikondan	2021	01.02.2021 to 04.03.2021	01
30	Steel plant	Internship	NOBLE Tech Industries Pvt.Ltd.chennai	2021	01.03.2021 TO 15.03.2021	01
31	CNC Machine works	Internship	QUEEN TECH, cnc wire cut,EDM & Tool works, chennai	2021	22.03.2021 to 30.04.2021	07
32	CNC Machine works	Internship	QUEEN TECH, cnc wire cut,EDM & Tool works, chennai	2021	27.01.2021 to 12.03.2021	09
33	CNC Machine works	Internship	QUEEN TECH, cnc wire cut,EDM & Tool works, chennai	2020	14.12.2020 to 29.01.2021	03

34	Manufacturer of casting components	Internship	RETAW foundry,coimbatore	2020	28.12.2020 to 30.01.2021	06
35	Manufacturer of Pumps	Internship	RETAW pumps, coimbatore	2020	28.12.2020 to 30.01.2021	01
36	Engineering works	Internship	RSPS engineering private limited,chennai	2021	20.01.2021 to 28.02.2021	01
37	Construction works	Internship	SHA CONSTRUCTIONS, Ramnad	2021	01.03.2021 to 01.05.2021	01
38	Packaging works	Internship	STAR POLYMER INDUSTRIES, CHENNAI	2021	01.02.2021 to 15.02.2021	01
39	Volunteer	Internship	TEAM EVEREST NGO	2021	20.01.2021 TO 20.02.2021	01
40	Software Company	Internship	WORKSBOT Applications Pvt.Ltd.,chennai	2021	feb 2021 to apr 2021	02

Table 2.25. List of Internships for CAYm2 (2019-20).

S. No.	Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	No of participants
1	Production	Internship	HEAVY VEHICLES FACTORY,chennai	2019	17.06.2019 TO 29.06.2019	01
2	Production	Internship	NEOS AIR FILTRATION Private Ltd. Chennai	2019	20.11.2019 TO 13.12.2019	01
3	Chemical	Internship	DCW LIMITED, Thoothukudi	2019	09.12.2019 TO 19.12.2019	01

C) IMPACT ANALYSIS OF INDUSTRY TRAINING:

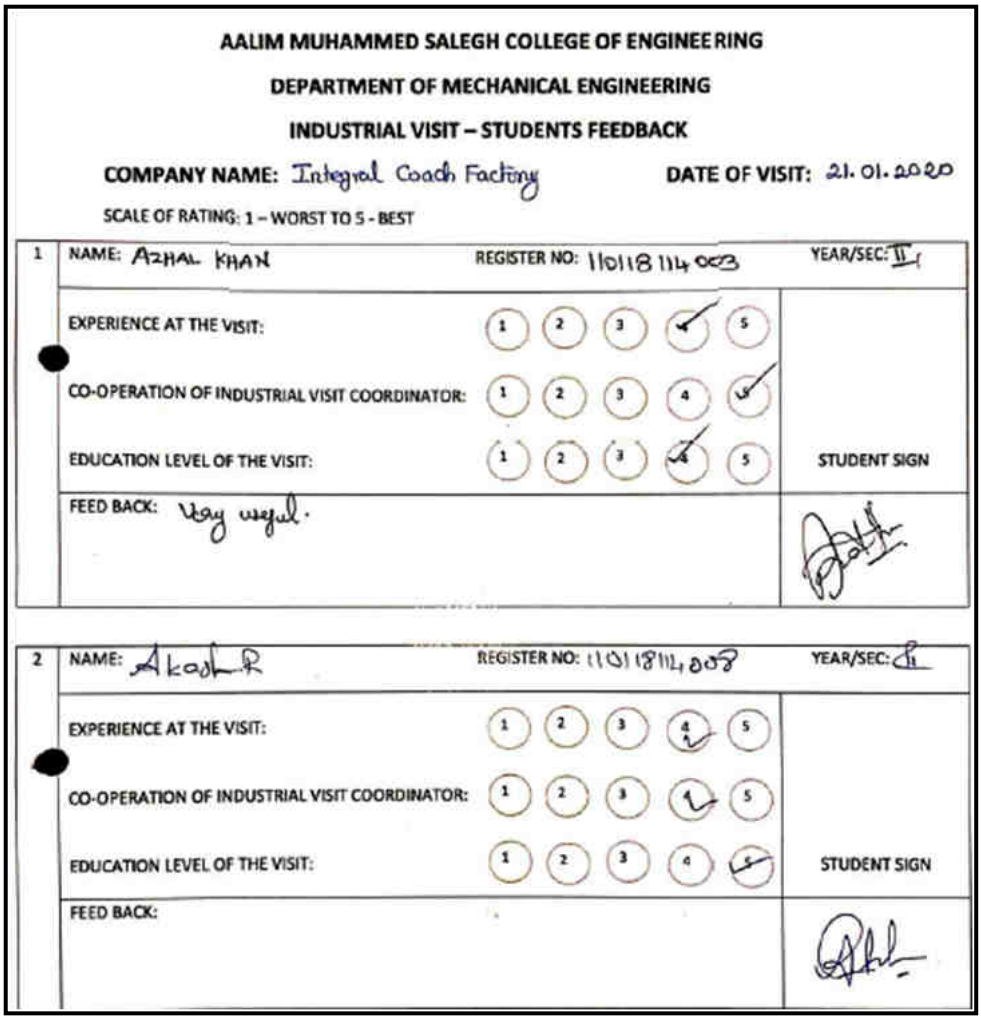
Industrial visit is considered as one of the tactical methods of teaching. The main reason behind this, it lets student to know things practically through interaction, working methods and employment practices. From the Industrial visits the students learnt the following things;

1. Industrial visit helps the students to relate their projects into actual practices.
2. Students gained the knowledge about the practical working environment and also industrial practices.
3. Students gained the combined knowledge about both theory and practice.
4. It creates the way for getting internship training in industries.
5. Students practically seen the different types of machines and its working conditions
6. Students will be more concerned about getting a job after undertaking an industrial visit.

D) STUDENT FEEDBACK ON INITIATIVE:

Industrial training is required to bridge the gap between academic and industry curriculum. This helps students in improving their skills and competences so that they can find work. It allows students to combine theoretical knowledge learned in the classroom with the practical application of knowledge needed to complete a task. Our college organizes industrial visits for students to further their knowledge.

The Evidence of student feedback for industry visits for the academic year 20-21 as shown in the Figure 2.7&2.8.



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

INDUSTRIAL VISIT – STUDENTS FEEDBACK

COMPANY NAME: Integral Coach Factory DATE OF VISIT: 21.01.2020

SCALE OF RATING: 1 – WORST TO 5 - BEST

1 NAME: AZHAL KHAN REGISTER NO: 110118114003 YEAR/SEC: II

EXPERIENCE AT THE VISIT:	1 2 3 4✓ 5	
CO-OPERATION OF INDUSTRIAL VISIT COORDINATOR:	1 2 3 4 5✓	
EDUCATION LEVEL OF THE VISIT:	1 2 3 4✓ 5	STUDENT SIGN
FEED BACK: Very useful.		

2 NAME: Akash R REGISTER NO: 110118114008 YEAR/SEC: II

EXPERIENCE AT THE VISIT:	1 2 3 4✓ 5	
CO-OPERATION OF INDUSTRIAL VISIT COORDINATOR:	1 2 3 4✓ 5	
EDUCATION LEVEL OF THE VISIT:	1 2 3 4 5✓	STUDENT SIGN
FEED BACK:		

Figure 2.14. Scanned copy of Industrial visit feedback form

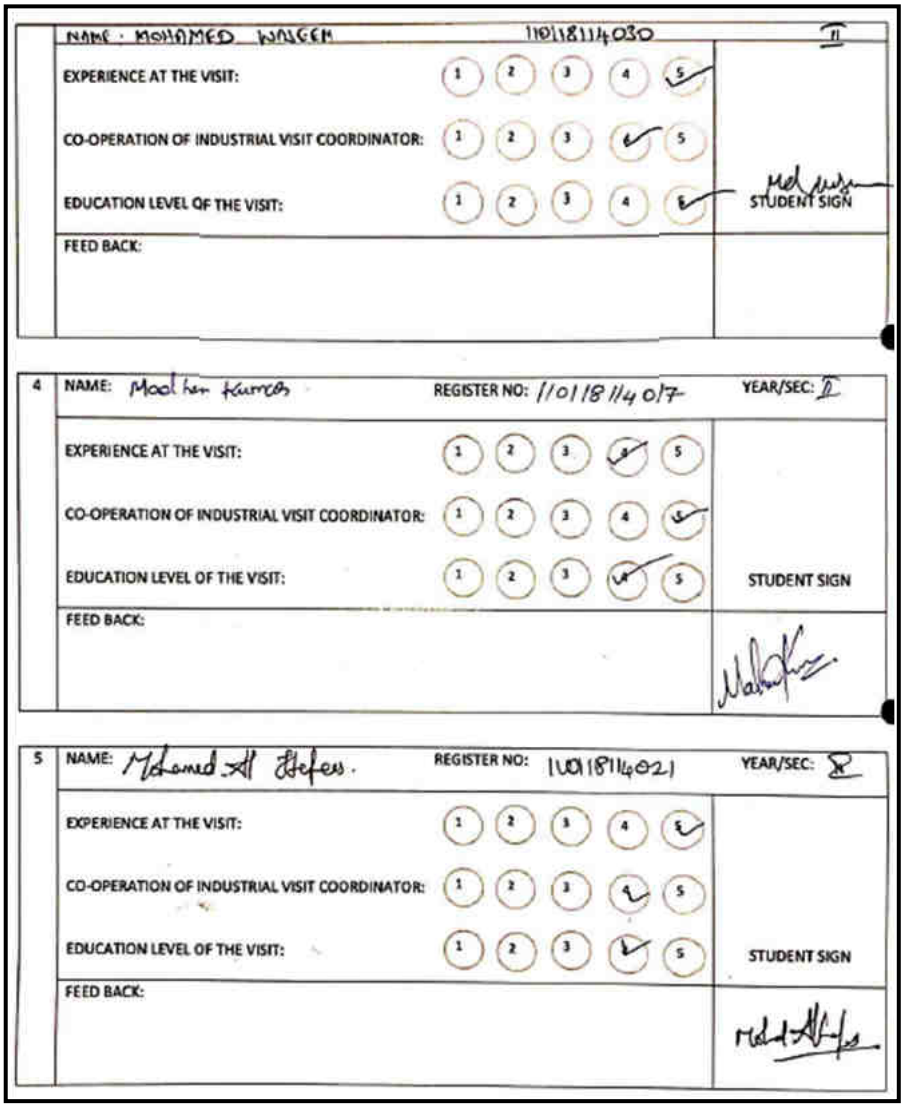


Figure 2.15 Scanned copy of Industrial visit feedback form

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	Assess, create, and develop solutions for social and industrial issues by utilizing engineering design principles.
PSO2	Utilizing new technologies and modern tools, to develop creative answers for current issues in the manufacturing sector.

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 02	Course Year :	2021-2022

Course Name	Statements
C2 02.1	Apply the first law of thermodynamics for simple open and closed systems under steady and unsteady conditions
C2 02.2	Apply the second law of thermodynamics to open and closed systems and calculate entropy and availability.
C2 02.3	Apply Rankine cycle to steam power plant and compare few cycle improvement methods
C2 02.4	Extract simple thermodynamic relations of ideal and real gasses
C2 02.5	Designing the properties of gas mixtures and moist air and its use in psychrometric processes

Course Name :	C2 14	Course Year :	2021-2022

Course Name	Statements
C2 14.1	Understand the concepts of stress and strain in simple and compound bars, the importance of principal stresses and principal planes.
C2 14.2	Understand the load transferring mechanism in beams and stress distribution due to shearing force and bending moment.
C2 14.3	Apply basic equation of simple torsion in designing of shafts and helical spring
C2 14.4	Extract the slope and deflection in beams using different methods.
C2 14.5	Analyze and Design thin and thick shells for the applied internal and external pressures.

Course Name :	C3 02	Course Year :	2021-2022

Course Name	Statements
C3 02.1	Explain the influence of steady and variable stresses in machine component design
C3 02.2	Apply the concepts of design to shafts, keys and couplings
C3 02.3	Apply the concepts of design to temporary and permanent joints
C3 02.4	Apply the concepts of design to energy absorbing members, connecting rod and crankshaft.
C3 02.5	Apply the concepts of design to bearings.

Course Name :	C3 12	Course Year :	2021-2022

Course Name	Statements
C3 12.1	Summarize the basics of finite element formulation
C3 12.2	Apply finite element formulations to solve one dimensional Problems
C3 12.3	Apply finite element formulations to solve two dimensional scalar Problems
C3 12.4	Apply a finite element method to solve two dimensional Vector problems
C3 12.5	Apply a finite element method to solve problems on Isoparametric elements and dynamic Problems.

Course Name :	C4 03	Course Year :	2021-2022

Course Name	Statements
C4 03.1	Discuss the interdisciplinary applications of Electronics, Electrical, Mechanical and Computer Systems for the Control of Mechanical, Electronic Systems and sensor technology.
C4 03.2	Discuss the architecture of Microprocessor and Microcontroller, Pin Diagram, Addressing Modes of Microprocessor and Microcontroller
C4 03.3	Discuss Programmable Peripheral Interface, Architecture of 8255 PPI, and various device interfacing
C4 03.4	Explain the architecture, programming and application of programmable logic controllers to problems and challenges in the areas of Mechatronic Engineering.
C4 03.5	Discuss various Actuators and Mechatronics system using the knowledge and skills acquired through the course and also from the given case studies

Course Name :	C4 11	Course Year :	2021-2022

Course Name	Statements

C4 11.1	The knowledge of various aspects in product development and its design
C4 11.2	To prepare production planning and control activities such as work study,method study and various time standarad techniques
C4 11.3	The knowledge of various activities in process and production planning
C4 11.4	The concepts of production scheduling,product sequencing,MRP kanban,Dispatching,progress reporting and expediting
C4 11.5	The knowledge of inventory control and recent trends in production planning control

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5) Institute Marks : 5.00

1 . course name : C202

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	3	3	3	3	-	3	-	-	-	-	-	3
C202.2	3	3	3	3	-	3	-	-	-	-	-	3
C202.3	3	3	3	3	-	3	-	-	-	-	-	3
C202.4	3	3	3	3	-	3	-	-	-	-	-	3
C202.5	3	3	3	3	-	3	-	-	-	-	-	3
Average	**3.00**	**3.00**	**3.00**	**3.00**	**0.00**	**3.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.00**

2 . course name : C214

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	2	3	3	3	3	1	-	-	-	-	3
C214.2	3	3	3	3	3	3	1	-	-	-	-	3
C214.3	2	3	2	3	3	3	-	-	-	-	1	3
C214.4	3	2	3	3	3	3	-	1	1	-	1	3
C214.5	3	3	3	3	3	3	1	1	1	1	1	3
Average	**2.80**	**2.60**	**2.80**	**3.00**	**3.00**	**3.00**	**0.60**	**0.40**	**0.40**	**0.20**	**0.60**	**3.00**

3 . course name : C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	3	3	3	-	-	-	-	-	2	2	1
C302.2	3	3	3	3	-	-	-	-	-	-	2	2
C302.3	3	3	3	3	-	2	2	-	-	-	2	2
C302.4	3	3	3	3	-	-	-	-	-	-	-	2
C302.5	3	3	3	3	-	-	-	-	-	2	2	2
Average	**3.00**	**3.00**	**3.00**	**3.00**	**0.00**	**0.40**	**0.40**	**0.00**	**0.00**	**0.80**	**1.60**	**1.80**

4 . course name : C312

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	3	3	3	2	-	-	-	-	1	-	1
C312.2	3	3	3	3	2	1	1	1	1	1	1	2
C312.3	3	3	3	3	2	-	2	1	2	1	1	2
C312.4	3	3	3	3	3	2	1	2	2	1	1	3
C312.5	2	3	3	3	3	1	1	1	-	1	1	3
Average	**2.80**	**3.00**	**3.00**	**3.00**	**2.40**	**0.80**	**1.00**	**1.00**	**1.00**	**1.00**	**0.80**	**2.20**

5 . course name : C403

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	3	3	2	3	2	2	1	1	2	2	3
C403.2	3	3	3	2	2	2	2	1	1	2	2	3
C403.3	3	3	3	2	2	2	2	1	1	2	2	3
C403.4	3	3	3	2	2	2	2	1	1	2	2	3
C403.5	3	3	3	2	2	2	2	1	1	2	2	3
Average	**3.00**	**3.00**	**3.00**	**2.00**	**2.20**	**2.00**	**2.00**	**1.00**	**1.00**	**2.00**	**2.00**	**3.00**

6 . course name : C411

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	2	3	1	1	2	1	1	1	1	2	3
C411.2	3	3	3	3	2	1	2	1	1	2	2	3
C411.3	3	3	3	3	2	3	1	1	1	2	2	3
C411.4	3	3	3	3	2	3	1	1	1	2	2	3
C411.5	3	3	3	3	2	3	1	1	1	2	2	3
Average	**3.00**	**2.80**	**3.00**	**2.60**	**1.80**	**2.40**	**1.20**	**1.00**	**1.00**	**1.80**	**2.00**	**3.00**

1 . Course Name : C202

Course	PSO1	PSO2
C202.1	2	2
C202.2	2	2
C202.3	2	2
C202.4	2	2
C202.5	2	2
Average	**2.00**	**2.00**

2 . Course Name : C214

Course	PSO1	PSO2
C214.1	3	3
C214.2	3	3
C214.3	3	3
C214.4	3	3
C214.5	3	3
Average	**3.00**	**3.00**

3 . Course Name : C302

Course	PSO1	PSO2
C302.1	3	3
C302.2	3	3
C302.3	3	3
C302.4	3	3
C302.5	3	3
Average	**3.00**	**3.00**

4 . Course Name : C312

Course	PSO1	PSO2
C312.1	-	-
C312.2	3	2
C312.3	3	2
C312.4	3	2
C312.5	3	2
Average	**2.40**	**1.60**

5 . Course Name : C403

Course	PSO1	PSO2
C403.1	3	3
C403.2	3	3
C403.3	3	3
C403.4	3	3
C403.5	3	3
Average	**3.00**	**3.00**

6 . Course Name : C411

Course	PSO1	PSO2

C411.1	3	3
C411.2	2	3
C411.3	2	3
C411.4	2	3
C411.5	2	3
Average	**2.20**	**3.00**

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

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	0	1.8	1.2	1.6	1	1	1.4	1	3	3	0.8	2.6
C102	3	2.2	1	3	0	2.2	1	0	1	0.8	2.2	2.2
C103	3	2.4	2.2	2.2	1.6	2.2	1.6	1.4	1.4	0.8	0	1.8
C104	3	1.6	2.2	1.8	0.6	1.6	1	0.2	1.6	1.4	0.6	2.2
C105	1.2	3	0.6	0.2	1.2	0	0	0	0	0	0	0
C106	3	3	2	1	2.6	2	1	0	0	0	0	3
C107	3	3	3	3	3	1	1	0	2	2	3	0
C108	2.8	2.8	2.2	2	2	2.6	2.4	1.2	1.6	1.8	1.4	2.2
C109	0	1.2	1	1.6	1.2	1	1.2	1.8	3	3	0.2	2.8
C110	3	2.8	2.8	2.4	2.2	1.8	1.8	1.8	1.4	1.2	0.6	1.8
C111	3	2.8	2.8	2.4	2.2	1.8	1.8	1.8	1.4	1.2	0.4	1.8
C112	2.6	2.4	2.2	2	2	2	1.8	1	1	1.6	1.8	3
C113	3	1.8	2.2	1.4	1	1.8	2.6	1.4	1.6	1.8	1.6	3
C114	3	2.2	1.6	1	0	0.8	0.6	0	2	0.6	1.6	2
C115	3	3	3	3	2.2	3	1.8	1	3	3	1	3
C116	3	2.6	2.6	2.4	2.2	1.6	1.6	1	1.4	2	1.8	3
C201	3	3	3	3	0	0	0	0	0	0	0	3
C202	2.2	2	1.4	2.6	0.6	0.8	0.6	0	0.8	0	0	3
C203	2.6	3	2.4	1.8	0	1.8	0.6	0	0.4	0	0	0
C204	3	1.8	3	3	3	3	3	0	1.2	0	0	3
C205	2.8	2.6	2.6	0	0	0	2.8	0	2.8	0	0	0
C206	3	2	3	1	1.2	1	1.8	1	1	1	1.2	3
C207	3	2	3	0	3	0	0	0	0	2	3	3
C208	2.2	2.6	2.2	2.6	1.4	2.2	2.2	1.8	2.2	1.4	2	2.2
C209	2	1.2	1	1.6	1.2	1	1.2	1.8	3	3	0.2	2.8
C210	3	3	3	2.8	1.6	2	0.4	0	0.6	0	2.8	2.2
C211	3	3	3	3	1.8	0	0	0	0	1.4	0	2
C212	3	1.8	2.6	2.2	1.4	3	2.2	0	0.8	0.6	0.6	3
C213	3	2	3	0.2	1	0.8	1.8	0	0	1	0.8	3
C214	3	2	3	0.2	1	0.8	1.8	0	0	1	0.8	3
C215	2.8	2.6	2.8	3	3	3	0.6	0.4	0.4	0.2	0.6	3
C216	2	1.6	2	1.4	0.8	1	1	0.4	0.2	0	0.2	3
C217	2.2	2.6	2.2	2.6	1.4	2.2	1.8	1.8	2.2	1.4	2	2.2
C218	3	2	3	1	1.2	3	1.8	1	1	1	1.2	3
C301	2.8	3	3	3	2	0	0	0	0	0	0.4	2.8
C302	3	3	3	3	0	0.4	0.4	0	0	0.8	1.6	1.8
C303	3	3	3	2	0	2	0	0	0	1	0	2
C304	3	3	2.2	2.4	0	0	0	0	0	1.8	0	3

C305	3	2.6	1.8	1.4	0.8	1.6	2	0	0.8	1	2	2.2
C306	3	2	3	1	1.2	1	1.8	1	1	1	1.2	3
C307	3	3	2	2	1.6	2	2.2	0	2	2	2	2
C308	3	2.8	0.4	2	2.2	2	1.4	0.8	0.4	1.2	1.8	2.8
C309	3	3	3	2	0	1	0	0	0	0	0	2
C310	3	3	3	2	2.4	0.4	0.8	0.4	0.8	1.4	0.8	1.6
C311	2.8	2.8	3	2.2	1.2	0	1	0	0	0	0.4	2.6
C312	2.8	3	3	3	0	0	0	0	0	0	0	3
C313	2.8	2.8	3	2.2	0.8	1.4	1.8	0	0	0	0	2.6
C314	2.2	2.4	2.2	2	1.6	1.6	1.6	1.2	1.6	1.2	1.6	2.2
C315	3	2	3	1.8	3	0	0	0	0	2	3	3
C316	2.8	2.8	2.6	2.6	2.4	2	1	1.8	2.4	2.2	2.4	2.8
C317	1	1	1	1	2	2	1	2.4	3	3	1.2	3
C401	3	1.6	1.4	1	0.4	2	2.2	1.4	1	1	2	1.8
C402	2.8	2.8	1.8	2	1.2	1	1	1	1	1	1.4	1
C403	3	3	3	2	1.4	0	0	0	0	0	0.6	3
C404	3	3	0	1.8	1.2	2	0.8	1.2	0.8	1	2.8	3
C405	3	3	0	1.6	1.8	1	2.4	1.8	1.8	0	0	3
C406	3	3	3	3	1.2	2	2	1	1	1.2	2.6	3
C407	2.2	2.6	2.2	2.6	1.4	2.2	1.4	1.8	2.2	1.4	2	2.2
C408	2.4	2.8	2.2	2.6	2.2	2.2	1.4	1.8	2.2	1.4	2	3
C409	2.8	2.8	2.6	2.6	2.4	2	1.8	1.8	2.4	2.2	2.4	2.8
C410	0.6	0	0	0	0	2	0	2.8	1.2	0	2.6	3
C411	3	2.8	1.6	2.6	0	0	0	0	0	0	2	3
C412	1.4	1.8	1.4	1.8	2	1.4	1.2	1.6	1.6	2.6	2.6	2.8

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

Course	PSO1	PSO2
C101	2.4	2.8
C102	3	3
C103	2.6	1.2
C104	0.6	0.6
C105	2.8	1
C106	2	3
C107	3	3
C108	2	2
C109	2.8	1.8
C110	3	3
C111	1.8	1.6
C112	1	1.6
C113	0.6	0.6
C114	2.8	2.2
C115	3	2
C116	2.4	2.4
C201	2	2
C202	2	2
C203	2	2
C204	3	3

C205	1.6	2
C206	3	3
C207	2	2
C208	1	1.8
C209	2.8	1.8
C210	3	3
C211	3	2.4
C212	3	3
C213	3	3
C214	3	3
C215	3	3
C216	1	1.8
C217	3	3
C218	2.4	2.8
C301	2.6	2
C302	3	3
C303	2.8	2
C304	3	2
C305	3	2
C306	3	3
C307	2	3
C308	2	3
C309	3	3
C310	2.8	2.8
C311	1.6	2
C312	3	2.2
C313	3	3
C314	3	2.4
C315	2	2
C316	3	3
C317	2	2
C401	2.6	2
C402	1.4	2.2
C403	3	3
C404	3	3
C405	3	3
C406	3	3
C407	1	1.8
C408	2.6	2.4
C409	3	3
C410	3	2
C411	2.2	3
C412	3	3

3.2 Attainment of Course Outcomes (50) Total Marks 50.00

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

A) LIST OF ASSESSMENT PROCESS

The course outcomes are formulated for each course in the curriculum by the respective Course In-charge. To evaluate the attainment of COs, the following tools are used.

Direct Assessment Tools:

1. Internal Evaluation
2. Theory Courses (Internal Semester Examination)
3. Lab courses (Continuous Assessment)
4. Project work (reviews)
5. University Exams
6. Theory Courses (End Semester Examination)
7. Lab Courses (Practical Assessment)
8. Project work (Viva-Voce)

Indirect Assessment Tools:

1. Course End Survey
2. Alumni Feedback
3. Employer's Feedback

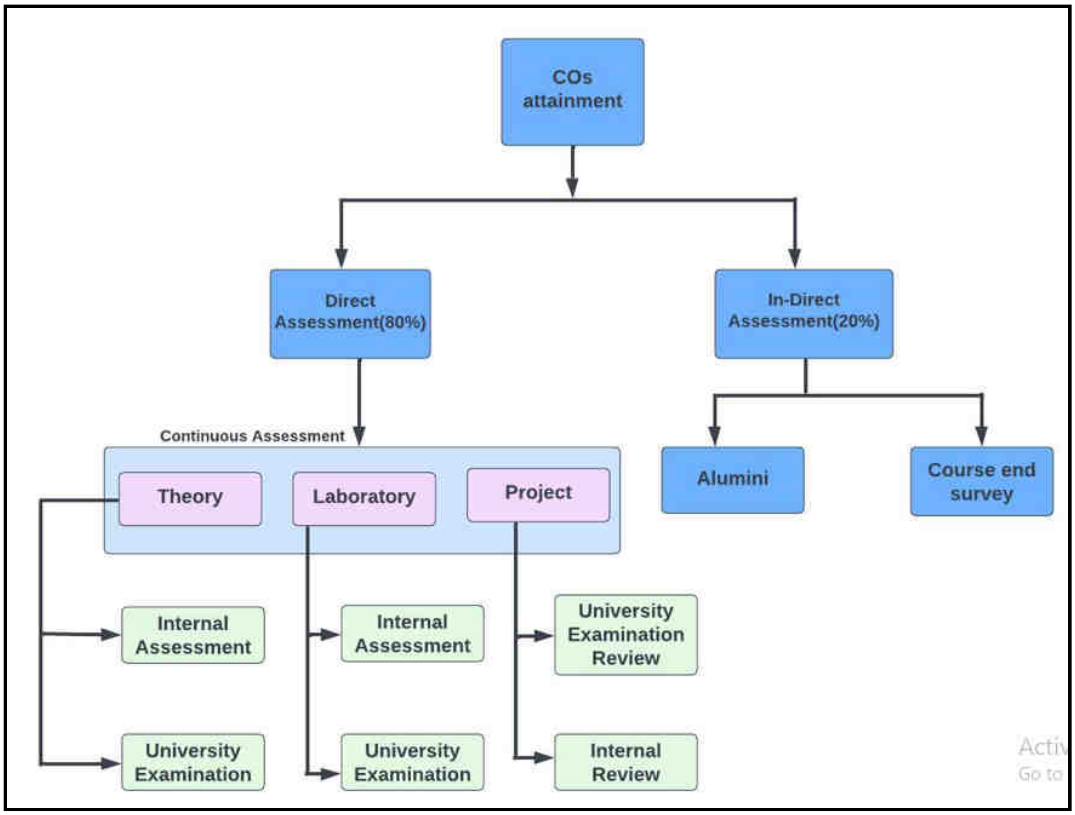
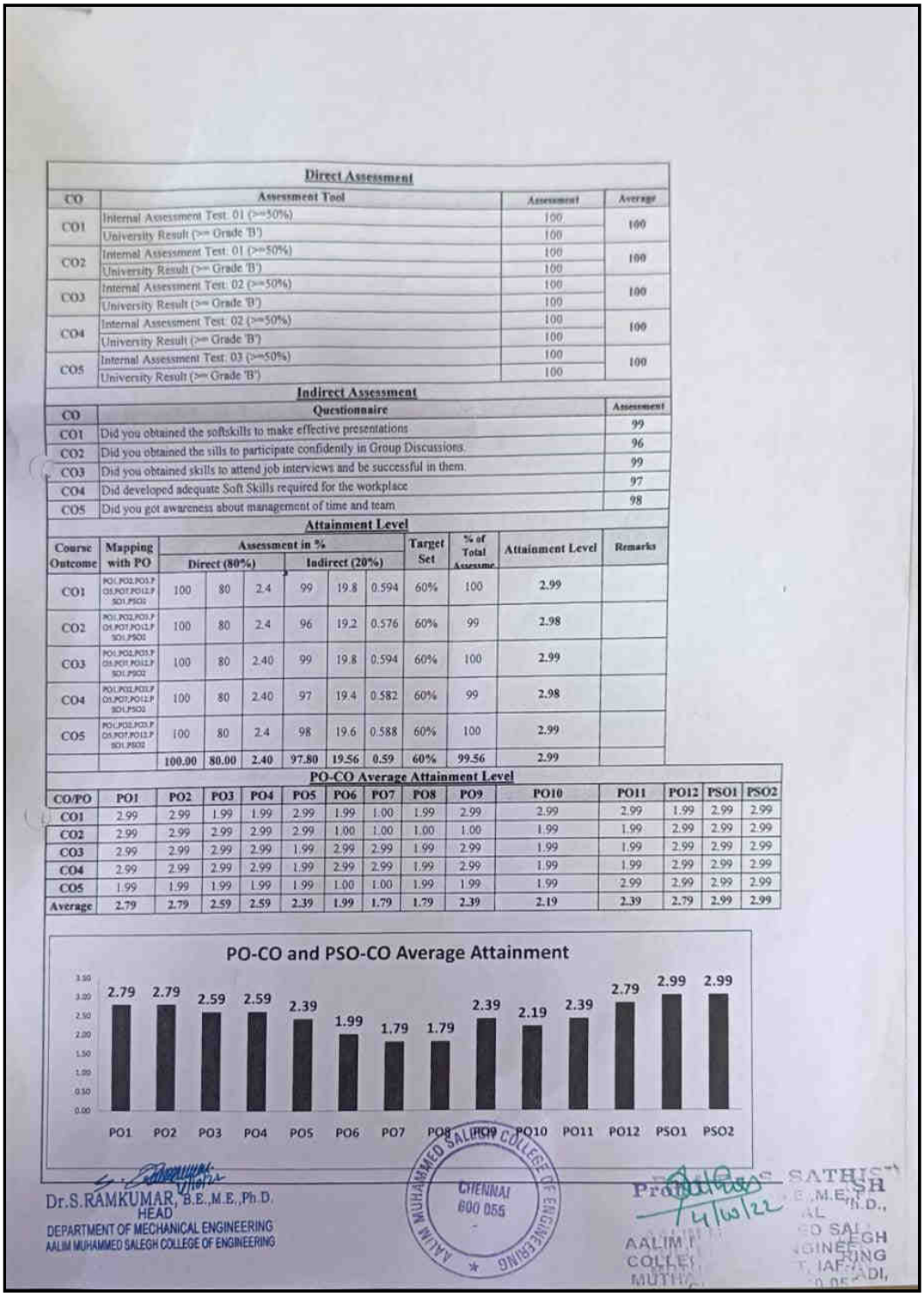


Figure 3.1. COs attaintment

Table 3.1. List of assessment tools used for CO-PO attainment for theory and practicals.

S.No	Name of the Assessment Tool		Marks Distribution %	Frequency
1	Direct Assessment Tools	Internal Evaluation	80%	Along the course of Entire Semester
		University Examination		End of the Semester
2	Indirect Assessment Tools	Course End Survey.	20%	End of the Semester



Direct Assessment

CO	Assessment Tool	Assessment	Average
CO1	Internal Assessment Test: 01 (>=50%)	100	100
	University Result (>= Grade 'B')	100	
CO2	Internal Assessment Test: 01 (>=50%)	100	100
	University Result (>= Grade 'B')	100	
CO3	Internal Assessment Test: 02 (>=50%)	100	100
	University Result (>= Grade 'B')	100	
CO4	Internal Assessment Test: 02 (>=50%)	100	100
	University Result (>= Grade 'B')	100	
CO5	Internal Assessment Test: 03 (>=50%)	100	100
	University Result (>= Grade 'B')	100	

Indirect Assessment

CO	Questionnaire	Assessment
CO1	Did you obtained the softskills to make effective presentations	99
CO2	Did you obtained the sills to participate confidently in Group Discussions.	96
CO3	Did you obtained skills to attend job interviews and be successful in them.	99
CO4	Did developed adequate Soft Skills required for the workplace	97
CO5	Did you got awareness about management of time and team	98

Attainment Level

Course Outcome	Mapping with PO	Assessment in %						Target Set	% of Total Assessme	Attainment Level	Remarks
		Direct (80%)			Indirect (20%)						
CO1	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	100	80	2.4	99	19.8	0.594	60%	100	2.99	
CO2	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	100	80	2.4	96	19.2	0.576	60%	99	2.98	
CO3	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	100	80	2.40	99	19.8	0.594	60%	100	2.99	
CO4	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	100	80	2.40	97	19.4	0.582	60%	99	2.98	
CO5	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	100	80	2.4	98	19.6	0.588	60%	100	2.99	
		100.00	80.00	2.40	97.80	19.56	0.59	60%	99.56	2.99	

PO-CO Average Attainment Level

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2.99	2.99	1.99	1.99	2.99	1.99	1.00	1.99	2.99	2.99	2.99	1.99	2.99	2.99
CO2	2.99	2.99	2.99	2.99	2.99	1.00	1.00	1.00	1.00	1.99	1.99	2.99	2.99	2.99
CO3	2.99	2.99	2.99	2.99	1.99	2.99	2.99	1.99	2.99	1.99	1.99	2.99	2.99	2.99
CO4	2.99	2.99	2.99	2.99	1.99	2.99	2.99	1.99	2.99	1.99	1.99	2.99	2.99	2.99
CO5	1.99	1.99	1.99	1.99	1.99	1.00	1.00	1.99	1.99	1.99	2.99	2.99	2.99	2.99
Average	2.79	2.79	2.59	2.59	2.39	1.99	1.79	1.79	2.39	2.19	2.39	2.79	2.99	2.99

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Principal 4/10/22

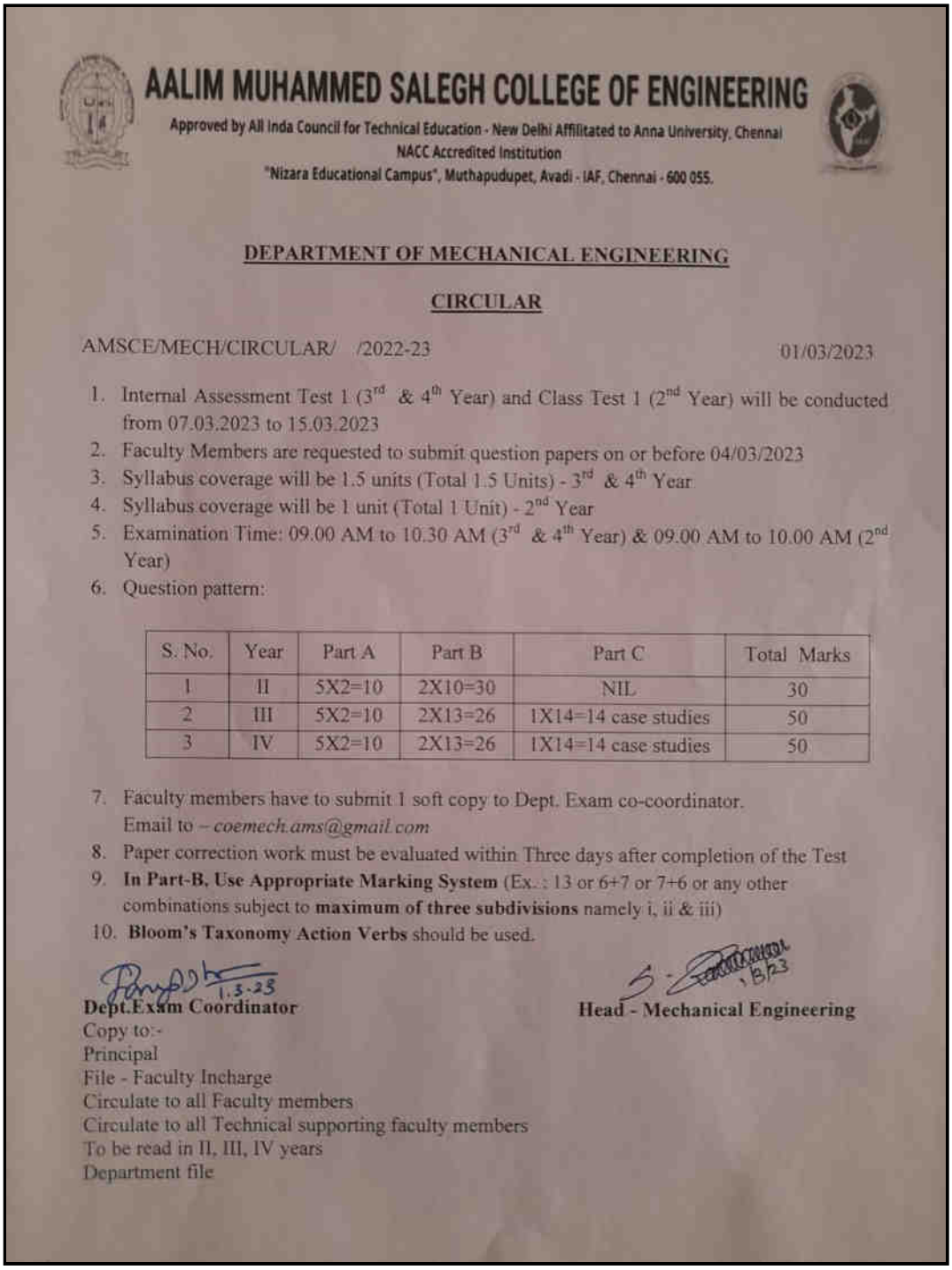
Figure 3.2. Direct assessment and indirect assessment.

B) <u>THE QUALITY / RELEVANCE OF ASSESMENT PROCESS & TOOLS USED</u>

1. DIRECT ASSESSMENT PROCESS

Following the Anna University Academic Regulations (R-2017), every course consists of three Internal Assessment Tests (IAT-I, IAT-II, IAT-III). The syllabus coverage for assessment tests are as follows.

Assessment Test	Syllabus Coverage
IAT-I	100% of Unit-I & 50% of Unit-II
IAT-II	50% of Unit-II & 100% of Unit-III
IAT-III	100% of Unit-IV & 100% of Unit-V



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by All Inda Council for Technical Education - New Delhi Affilitated to Anna University, Chennai
NACC Accredited Institution
"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

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

1. Internal Assessment Test 1 (3rd & 4th Year) and Class Test 1 (2nd Year) will be conducted from 07.03.2023 to 15.03.2023
2. Faculty Members are requested to submit question papers on or before 04/03/2023
3. Syllabus coverage will be 1.5 units (Total 1.5 Units) - 3rd & 4th Year
4. Syllabus coverage will be 1 unit (Total 1 Unit) - 2nd Year
5. Examination Time: 09.00 AM to 10.30 AM (3rd & 4th Year) & 09.00 AM to 10.00 AM (2nd Year)
6. 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 case studies	50
3	IV	5X2=10	2X13=26	1X14=14 case studies	50

7. Faculty members have to submit 1 soft copy to Dept. Exam co-coordinator. Email to – *coemech.ams@gmail.com*
8. Paper correction work must be evaluated within Three days after completion of the Test
9. **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)
10. **Bloom's Taxonomy Action Verbs** should be used.

1.3.23 1.3.23

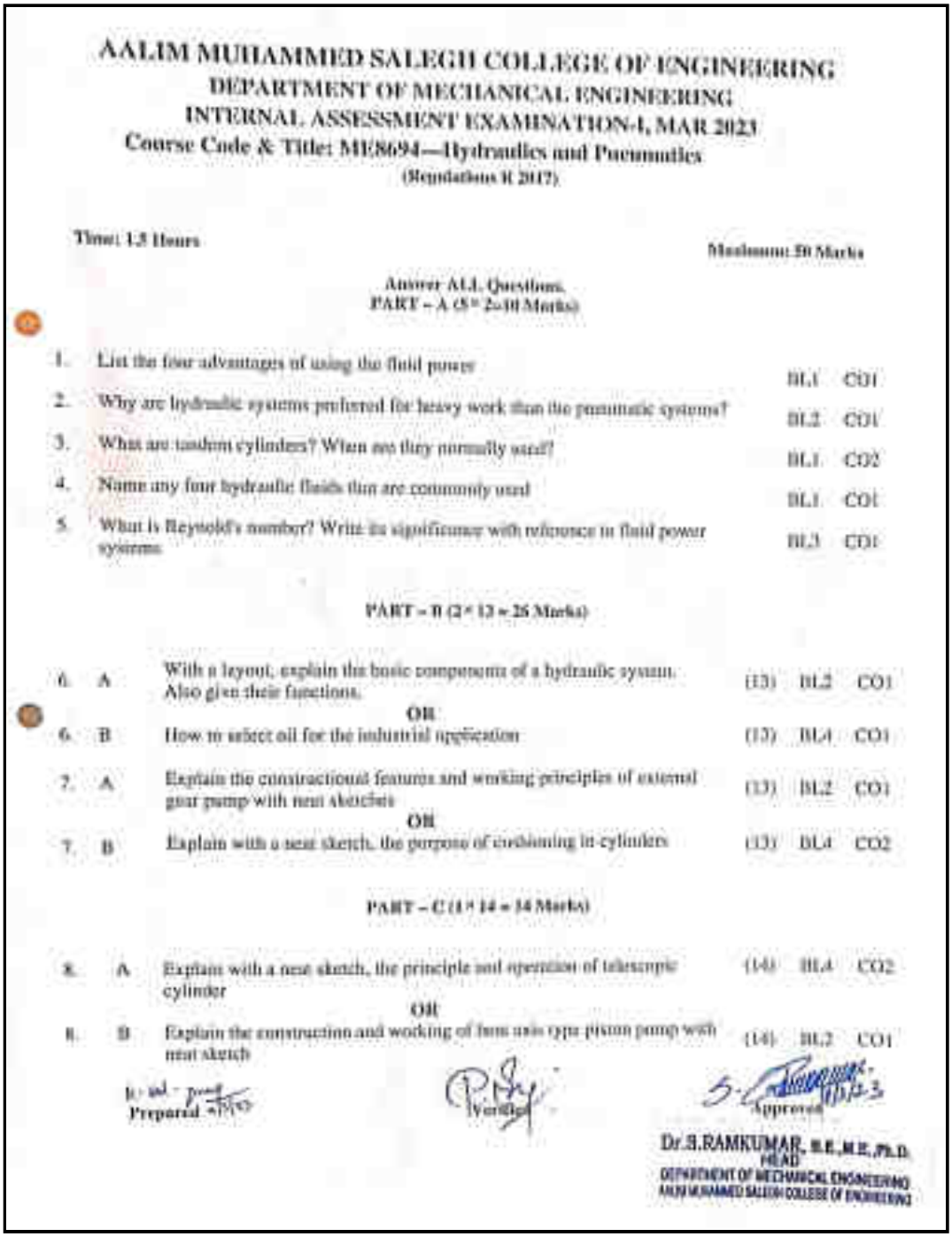
Dept.Exam Coordinator **Head - Mechanical Engineering**

Copy to:-
Principal
File - Faculty Incharge
Circulate to all Faculty members
Circulate to all Technical supporting faculty members
To be read in II, III, IV years
Department file

Figure 3.3 Internal Assessment Test 1 Circular, Academic Year (2022 - 2023)

The question paper pattern for IAT-I & IAT-II are 50 marks and the duration is 90 minutes. Part-A consists of 5 two mark questions out of which the student has to answer all 5 questions. Part-B consists of two 13 marks question (either or choice) and one 14 marks question in Part-C (either or choice). The question paper is set on Blooms taxonomy level which includes CO Mapping for every question.

The question paper pattern for IAT-III (Model Exam) is 100 marks and the duration is 180 minutes. Part-A consists of 10 two mark questions out of which the student has to answer all 10 questions. Part-B consists of five 13 Marks questions of either or choice and one 15 marks question in Part-C (either or choice). The question paper pattern is followed as per the Anna University End Semester Examination (Only for IAT-3).



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
INTERNAL ASSESSMENT EXAMINATION-I, MAR 2023
Course Code & Title: ME8694—Hydraulics and Pneumatics
(Regulations R 2017)

Time: 1.5 Hours Maximum: 50 Marks

Answer ALL Questions.
PART – A (5 × 2=10 Marks)

1.	List the four advantages of using the fluid power		BL1	CO1
2.	Why are hydraulic systems preferred for heavy work than the pneumatic systems?		BL2	CO1
3.	What are tandem cylinders? When are they normally used?		BL1	CO2
4.	Name any four hydraulic fluids that are commonly used		BL1	CO1
5.	What is Reynold's number? Write its significance with reference to fluid power systems.		BL3	CO1

PART – B (2 × 13 = 26 Marks)

6.	A	With a layout, explain the basic components of a hydraulic system. Also give their functions.	(13)	BL2	CO1
		OR			
6.	B	How to select oil for the industrial application	(13)	BL4	CO1
7.	A	Explain the constructional features and working principles of external gear pump with neat sketches	(13)	BL2	CO1
		OR			
7.	B	Explain with a neat sketch, the purpose of cushioning in cylinders	(13)	BL4	CO2

PART – C (1 × 14 = 14 Marks)

8.	A	Explain with a neat sketch, the principle and operation of telescopic cylinder	(14)	BL4	CO2
		OR			
8.	B	Explain the construction and working of fixed axis type piston pump with neat sketch	(14)	BL2	CO1

Prepared
Verified
Approved
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HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Figure 3.4 Sample Question Paper

CO attainment for each question is done using the following benchmarks.

1. If the student scores **>= 60%, attainment** level is **3**.
2. If the student scores **>50%** and <**59%, attainment** level is **2**
3. If the student scores **<50%,** attainment level is **1**.

The CO attainment is calculated based on the average CO's obtained for all questions..

B) End Semester Examination

End semester examinations are conducted at The End of the semester. The complete syllabus is covered in this examination. The question paper for the University Examination is 100 marks and the duration is 180 minutes.

CO attainment for the External examinations is calculated using the following benchmarks:

1. If the student scores **>= 60%, attainment** level is **3**.
2. If the student scores **>50%** and <**59%, attainment** level is **2**
3. If the student scores **<50%,** attainment level is **1**.

C) Practical Course

Continuous Evaluation Process is implemented for assessment of laboratory work.

1. The evaluation is done on the basis of student's punctuality; knowledge and understanding of the experiment, on time submission of laboratory records and performance in Model Practical Exam.
2. The Laboratory courses are evaluated based on the regulations set by the Anna University. (Internal : 20 Marks & External : 80 Marks)
3. The External marks are evaluated by both Internal examiner and External examiner by conducting a End Semester University Practical Examination.

CO attainment for Lab Internal & External Assessment is calculated using the following benchmarks:

1. If the student scores > 8**0 %** then the attainment level is **3**.
2. If the student scores > 5**0 %** and **<79%** then the attainment level is **2.**
3. If the student scores < 5**0%** then the attainment level is **1.**

D) Project Work

The Project work is evaluated by project guides and project coordinator through periodic reviews following the rubrics for evaluation. The Internal marks are calculated from the average of all the four reviews.

Evaluation Process for Projects:

1. The project work is evaluated for 100 Marks out of which 80 Marks is allocated for External evaluation and 20 Marks are for Internal evaluation.
2. The Internal marks are awarded based on the student's performance in project reviews conducted periodically using the rubrics formulated by the department.
3. The Project guides and project coordinator will evaluate and finalize the internal marks of the candidates for a maximum of 20 Marks.
4. The University will appoint an External Examiner to conduct the Final Project review and viva voce. The External Examiner along with Internal Examiner will evaluate the student's performance and award the marks.

CO attainment for the Projects is calculated based on the following benchmarks for both Internal and External Assessment.

1. If the student scores > 8**0 %** then the attainment level is **3**.
2. If the student scores > 5**0 %** and **<79%** then the attainment level is **2.**
3. If the student scores < 5**0%** then the attainment level is **1.**

Evaluation Process for Projects:

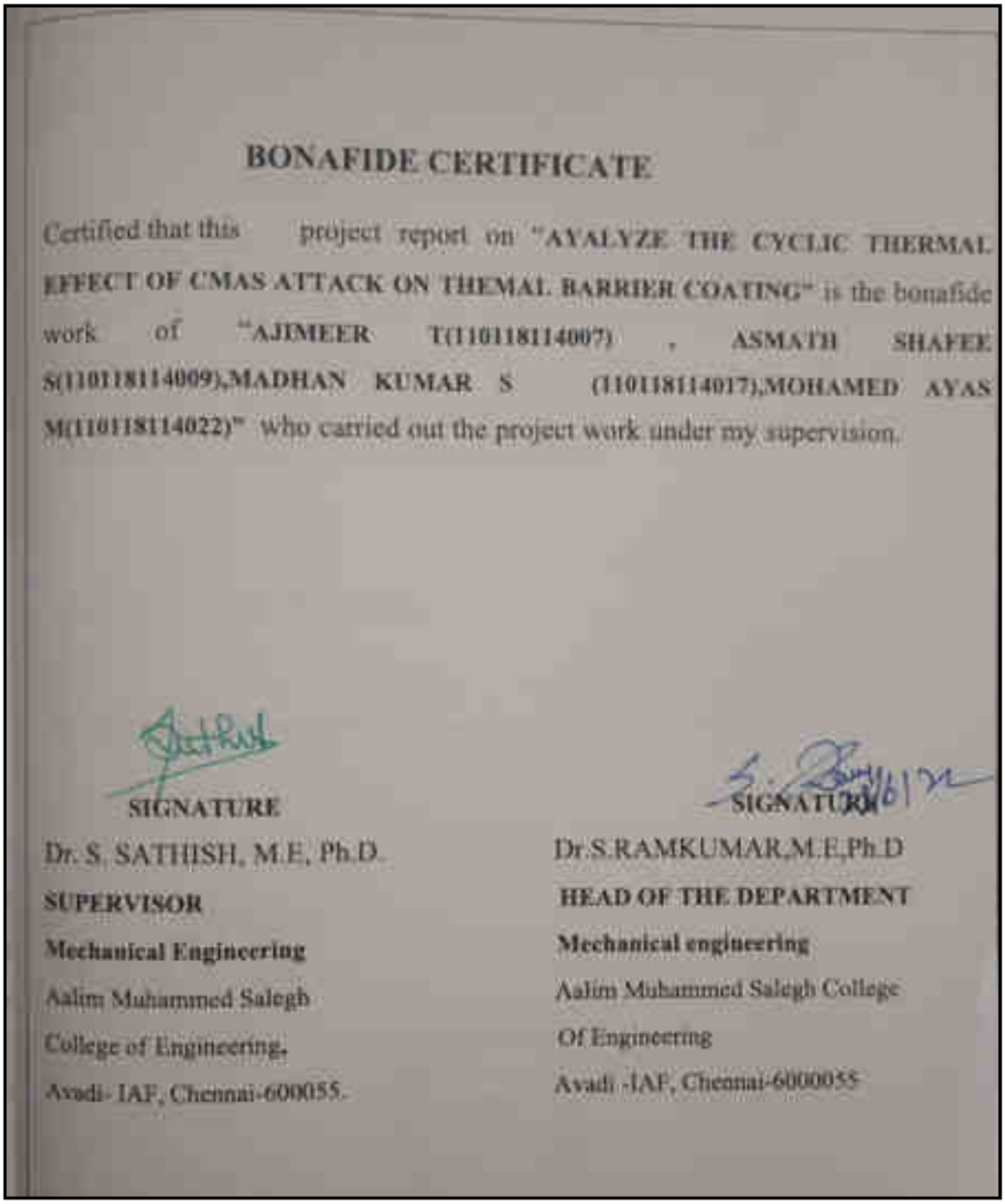
Table 3.8 Rubrics for Internal Evaluation

Criteria	<30%	>30 to 65%	>65%
Originality and novelty of the project (10 Marks)	No originality and novelty found (0 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 that 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)

Dr.S.RAMKUMAR, B.E. M.E. Ph.D
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
ALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

PRINCIPAL

Figure 3.5 Rubrics for Internal Evaluation



BONAFIDE CERTIFICATE

Certified that this project report on "AYALYZE THE CYCLIC THERMAL EFFECT OF CMAS ATTACK ON THEMAL BARRIER COATING" is the bonafide work of "AJIMEER T(110118114007) , ASMATH SHAFEE S(110118114009),MADHAN KUMAR S (110118114017),MOHAMED AYAS M(110118114022)" who carried out the project work under my supervision.

SIGNATURE

Dr. S. SATHISH, M.E, Ph.D
SUPERVISOR
Mechanical Engineering
Aalim Muhammed Salegh
College of Engineering,
Avadi- IAF, Chennai-600055.

SIGNATURE

Dr.S.RAMKUMAR,M.E,Ph.D
HEAD OF THE DEPARTMENT
Mechanical engineering
Aalim Muhammed Salegh College
Of Engineering
Avadi -IAF, Chennai-6000055

Figure 3.6 Sample Project Report

Table 3.2. Marks distribution of direct assessment components.

S.No	Course Type	Assessment Method	Marks Distribution%
1	Theory	Internal	20
		External	80
2	Practicals	Internal	20
		External	80
3	Project	Internal	20
		External	80

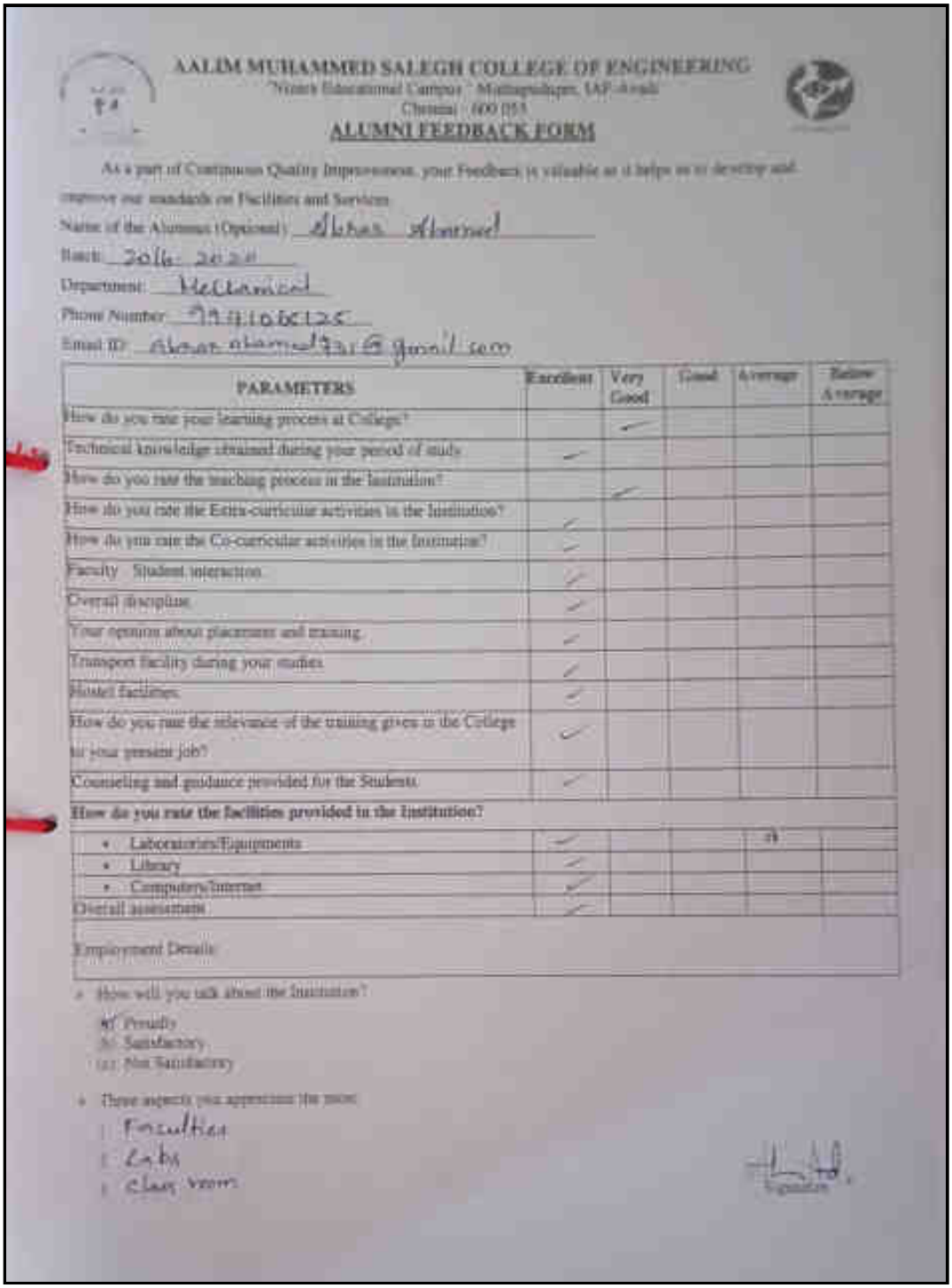
2. INDIRECT ASSESMENT PROCESS

A) Course End Survey:

A Course End Survey is collected at the end of every semester from the students. A questionnaire is prepared for each course by the Course Committee Chairman (approved by IQAC) at the end of the semester which is distributed to the students to get their feedbacks. The feedbacks received by the students are used for Indirect Assessment of CO-PO attainment. Every Course Outcome is graded at three levels - 3: High, 2: Moderate and 1: Low. The feedbacks are collected and the average is used to calculate the CO attainment.

B) Alumni Feedback:

Feedback is collected from all the passed out students at the time of Graduation and all the valuable suggestion is considered for Academic progression with the recommendation of IQAC.



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

ALUMNI FEEDBACK FORM

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 Alumnus (Optional): Akbar Ahamed
Batch: 2016-2020
Department: Mechanical
Phone Number: 9944106125
Email ID: akbarahamed321@gmail.com

PARAMETERS	Excellent	Very Good	Good	Average	Below Average
How do you rate your learning process at College?		✓			
Technical knowledge obtained during your period of study	✓				
How do you rate the teaching process in the Institution?		✓			
How do you rate the Extra-curricular activities in the Institution?	✓				
How do you rate the Co-curricular activities in the Institution?	✓				
Faculty - Student interaction	✓				
Overall discipline	✓				
Your opinion about placement and training	✓				
Transport facility during your studies	✓				
Hostel facilities	✓				
How do you rate the relevance of the training given in the College to your present job?	✓				
Counseling and guidance provided for the Students	✓				
How do you rate the facilities provided in the Institution?					
• Laboratories/Equipments	✓				
• Library	✓				
• Computers/Internet	✓				
Overall assessment	✓				
Employment Details					

- How will you talk about the Institution?
  a) Proudly
  b) Satisfactory
  c) Not Satisfactory
- Three aspects you appreciate the most
  1. Faculties
  2. Labs
  3. Class room

Signature

Figure 3.7. Sample alumni feedback form

C) Employer's Feedback:

The Feedback is collected from employers of placed students and their feedback is considered for Assessment process.

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
INDUSTRY FEEDBACK FORM

Name : Dr. MOHAMED ABBASS
Name of the industry : HOIST INDUSTRIES
Phone number : 72999 44410
Email id : admin@hoistindustries.com

FACTORS	STATEMENTS	EXCELLENT	GOOD	SATISFACTORY
Department Vision	To become the best mechanical engineering department through innovative teaching, research and project-based learning	✓		
Department Mission				
Mission 1	To provide solid technical and theoretical knowledge in mechanical engineering through efficient teaching and learning methods	✓		
Mission 2	To improve students' lives by encouraging moral principles, original thinking, and entrepreneurial spirit		✓	
Mission 3	To foster lifelong learning by pursuing higher education	✓		
Program Educational Objectives (PEO)				
PEO 1	Develop novel procedures to solve industrial challenges through the knowledge acquired in core engineering	✓		
PEO 2	Establish a business or sector as an entrepreneur with professionalism, effective leadership, teamwork, and moral principles to address societal needs.	✓		
PEO3	Develop sustainable solutions to fulfil the needs of society and build a brighter future by pursuing higher education	✓		
Program Specific Outcomes (PSO)				
PSO 1	Assess, create, and develop solutions for social and industrial issues by utilizing engineering design principles.	✓		
PSO 2	Utilizing new technologies and modern tools, to develop creative answers for current issues in the manufacturing sector	✓		
Suggestion	Overall, we found that your curriculum and fulfilled the gap between Educational Institution and Industries. This may helpful to students.			

HOIST INDUSTRIES
Padi (Korattur), Chennai
Tamil Nadu, India.

Figure 3.8. Feedback from industrial expert

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

Institute Marks : 40.00

The following steps are followed to calculate the attainment of COs and POs:

1. COs are defined by the course incharge in consulation with course committee members.
2. COs are matrix mapped with POs with reference to the AICTE-Examination Reforms Policy (November-2018).
3. Question papers of set to measure each CO equally.
4. Micro analysis of markes obtained by students are analysed and utilized for arranging special class for slow learners.
5. After obtaining the University examination results, the grades obtained by the students used to calculate the final attainment levels of COs and POs.
6. All the above steps are performed using a preprogrammed MS-Excel worksheet.

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

DEPARTMENT OFMECHANICAL ENGINEERING

MATRIX MAPPING OF CO-PO

Course Code: 303 **Subject Code and Name:** ME8501 METROLOGY AND MEASUREMENTS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	0	2	0	1	0	2	0	2	2	2
CO2	3	3	3	2	2	2	0	1	0	2	0	2	3	2
CO3	3	3	3	2	2	2	0	1	0	0	1	2	3	2
CO4	3	3	3	2	2	2	0	1	0	0	1	2	3	2
CO5	3	3	3	2	0	2	0	0	0	1	0	2	3	2
AVG	3	3	3	2	1.2	2	0	0.8	0	1	0.4	2	2.8	2

CORRELATION	
0	NA
1	LOW
2	MEDIUM
3	HIGH

CO1	Describe the concepts of measurements to apply in various metrological
CO2	Outline the principles of linear and angular measurement tools used for industrial
CO3	Explain the procedure for conducting computer aided inspection
CO4	Demonstrate the techniques of form measurement used for industrial components
CO5	Discuss various measuring techniques of mechanical properties in industrial

Figure 3.9. Defining COs and matrix mapping of CO-PO.

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

CHENNAI - 600 055

DEPARTMENT OF MECHANICAL ENGINEERING

MICRO ANALYSIS

Course Code : 303 COURSE YEAR : 2018-22

Year / Sem : III / V Total No. Students: 61

Name of the Faculty : Subject Code and Name : ME8501 METROLOGY AND MEASUREMENTS

S.no	Reg No	Name of the Students	IT1 UNIT-1 (100%) / CO-1 (MARKS-32)	IT1 UNIT-2 (50%) / CO-2 (MARKS-18)	IT1 Total (MARKS-50)	IT2 UNIT-2 (50%) / CO-2 (18)	IT2 UNIT-3 (100%) / CO-3 (32)	IT2 TOTAL	IT3 UNIT-4 (100%) / CO-4 (25)	IT3 UNIT-5 (100%) / CO-5 (25)	IT3 TOTAL	[illegible]	CO1T	CO2T	CO3T	CO4T	CO5T	Average	CO1	CO2	CO3	CO4	CO5
1	[illegible]	ABDUL BASITH D	[illegible]	[illegible]	48	17	[illegible]	48	24	24	48	D	2.31	2.34	2.31	2.37	2.33	2.33	2	2	3	2	3
2	[illegible]	AFZAL KHAN . A	32	18	50	17	30	47	25	25	50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	2	2	2	3
3	[illegible]	AHAMED DHANVEERUL IRFAN . M	[illegible]	17	48	17	[illegible]	48	[illegible]	[illegible]	49	D	2.34	2.34	2.34	2.37	2.37	2.36	2	2	3	2	3
4	[illegible]	AHAMED MUNASIM . S	28	16	44	17	32	49	24	24	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	3	3	2	3
5	[illegible]	AJMEER . T	31	[illegible]	49	18	[illegible]	49	[illegible]	24	48	A	2.82	2.82	2.82	2.74	2.78	2.80	[illegible]	[illegible]	3	2	[illegible]
6	[illegible]	AKASH. R	28	13	45	17	30	48	24	24	48	B+	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	3	3	3	3
7	[illegible]	ASMATH SHAFEE . S	31	17	49	17	32	49	[illegible]	24	47	B	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	3	3	2	3
8	[illegible]	ASRAR AHAMED IBRAHIM . M	32	18	50	17	[illegible]	46	24	24	48	[illegible]	[illegible]	[illegible]	2.28	2.33	2.33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	FARVES MUSHRAF . M.S	30	16	11	17	30	40	21	21	39	B	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	2	3	2	3
10	[illegible]	HAFEEZULLAH KHAN . R	31	17	48	17	[illegible]	47	[illegible]	25	50	[illegible]	2.19	2.18	2.16	2.33	2.33	[illegible]	3	2	3	3	2
11	[illegible]	HAMEED RAHMAN . M	32	18	50	18	32	50	23	23	46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	2	3	2	2
12	[illegible]	IRSHAD AHAMED . S	[illegible]	17	49	17	[illegible]	49	24	24	48	D	2.36	2.36	2.36	2.34	2.34	2.36	3	3	3	2	3

Figure 3.10. Micro analysis of COs attainment.

Direct Assessment

CO	Assessment Tool	Assessment	Average
CO1	Internal Assessment Test: 01 (>=50%)	100	94.8
	University Result (>= Grade 'B')	87	
CO2	Internal Assessment Test: 01 (>=50%)	100	94.8
	University Result (>= Grade 'B')	87	
CO3	Internal Assessment Test: 02 (>=50%)	100	94.8
	University Result (>= Grade 'B')	87	
CO4	Internal Assessment Test: 02(>=50%)	100	94.8
	University Result (>= Grade 'B')	87	
CO5	Internal Assessment Test: 03 (>=50%)	100	94.8
	University Result (>= Grade 'B')	87	

Indirect Assessment

CO	Questionnaire	Assessment
CO1	Do you know the basics of measurements in variou metrolgical instruments?	83
CO2	Have you understood the principles of linear and angular measurement tools for industrial	85
CO3	Have you understood the procedure for conduction computer aided inspection?	84
CO4	Have you understood the demonstrate techniques of form measurements?	83
CO5	Do you know the various measuring techniques of mechanical properties used in industrial	87

Attainment Level

Course Outcom	Mapping with PO	Assessment in %						Target Set	% of Total Assessme	Attainment Level	Remarks
		Direct (80%)			Indirect (20%)						
CO1	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	94.8	75.84	2.275	83	16.6	0.498	60%	92	2.77	
CO2	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	94.8	75.84	2.275	85	17	0.51	60%	93	2.79	
CO3	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	94.8	75.84	2.28	84	16.8	0.504	60%	93	2.78	
CO4	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	94.8	75.84	2.28	83	16.6	0.498	60%	92	2.77	
CO5	PO1,PO2,PO3,PO5,PO7,PO12,PSO1,PSO2	94.8	75.84	2.275	87	17.4	0.522	60%	93	2.80	
		94.80	**75.84**	**2.28**	**84.40**	**16.88**	**0.51**	**60%**	**92.72**	**2.78**	

PO-CO Average Attainment Level

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2.78	2.78	2.78	1.85	0.00	1.85	0.00	0.93	0.00	1.85	0.00	1.85	1.85	1.85
CO2	2.78	2.78	2.78	1.85	1.85	1.85	0.00	0.93	0.00	1.85	0.00	1.85	2.78	1.85
CO3	2.78	2.78	2.78	1.85	1.85	1.85	0.00	0.93	0.00	0.00	0.93	1.85	2.78	1.85
CO4	2.78	2.78	2.78	1.85	1.85	1.85	0.00	0.93	0.00	0.00	0.93	1.85	2.78	1.85
CO5	2.78	2.78	2.78	1.85	0.00	1.85	0.00	0.00	0.00	0.93	0.00	1.85	2.78	1.85
Average	**2.78**	**2.78**	**2.78**	**1.85**	**1.85**	**1.85**	**0**	**0.93**	**0**	**1.55**	**0.93**	**1.85**	**2.60**	**1.85**

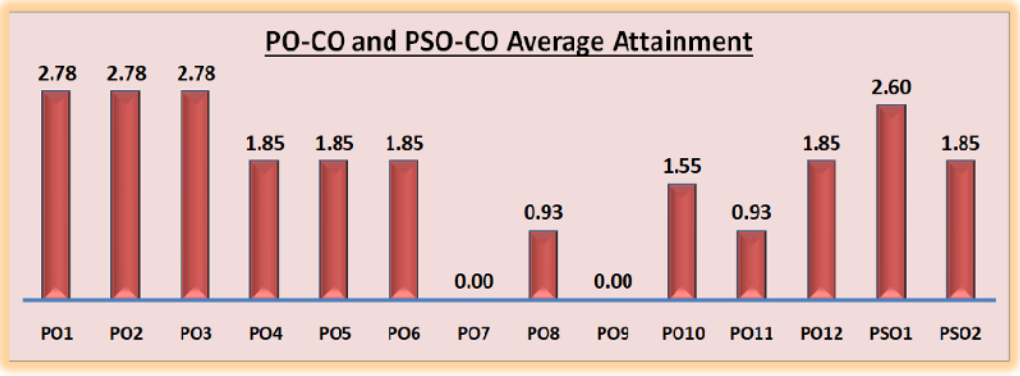


Figure 3.11. Final attainment of COs and POs.

A) VERIFY THE ATTAINTMENT LEVELS AS PER THE BENCHMARK SET FOR ALL COURSES

TABLE 3.3. Attaintment level as per benchmark.

POs	Statement	Benchmark	2018-22
PO1	Engineering knowledge	2.55	2.57
PO2	Problem analysis	2.18	2.35
PO3	Design/development of solutions	2.18	2.23
PO4	Conduct investigations of complex problems	2.18	2.06
PO5	Modern tool usage	1.45	1.75
PO6	The engineer and society	2.18	1.70

PO7	Environment and sustainability	1.45	1.56
PO8	Ethics	1.45	1.39
PO9	Individual and team work	1.45	1.62
PO10	Communication	1.82	1.54
PO11	Project management and finance	1.45	1.7
PO12	Life-long learning	2.18	2.44
PSO1	Assess, create, and develop solutions for social and industrial issues by utilizing engineering design principles.	2.55	2.36
PSO2	Utilizing new technologies and modern tools, to develop creative answers for current issues in the manufacturing sector.	1.82	2.32

TABLE 3.4. Attaintment levels.

S.CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	0	1.69	1.13	1.41	1.18	0.94	1.32	1.57	2.82	2.82	0.94	2.45	2.26	2.64
C102	2.15	1.58	0.72	2.15	0	1.58	0.90	0	0.72	0.72	1.58	1.58	2.15	2.15
C103	2.26	1.81	1.66	1.66	1.21	1.66	1.51	1.06	1.06	1.01	0	1.36	1.96	0.91
C104	2.51	1.67	1.84	1.88	0.84	1.67	1.40	0.84	1.34	1.17	0.84	1.84	2.51	2.51
C105	2.49	2.49	2.49	0.83	1.25	0	0	0	0	0	0	0	2.32	0.83
C106	2.70	2.70	1.80	0.90	2.34	1.80	0.90	0	0	0	0	2.70	1.80	2.70
C107	2.90	2.90	2.90	2.90	2.90	0.97	0.97	0	1.94	1.94	2.90	0	2.90	2.90
C108	2.69	2.69	2.11	1.92	1.92	2.49	2.30	1.15	1.54	1.73	1.34	2.11	1.92	1.92
C109	0	1.06	0.88	1.41	1.06	0.88	1.06	1.59	2.65	2.65	0.88	2.47	2.47	1.59
C110	2.31	2.31	1.98	1.98	0.83	1.16	0.83	0.83	0.83	1.49	1.49	1.98	2.48	2.48
C111	2.44	2.27	2.27	1.95	1.79	1.46	1.46	1.46	1.14	0.97	0.81	1.46	1.46	1.30
C112	1.90	1.75	1.61	1.46	1.46	1.46	1.31	0.73	0.73	1.17	1.31	2.19	0.73	1.17
C113	2.47	1.85	2.26	1.44	1.37	1.48	2.14	1.44	1.32	1.48	1.32	2.47	2.47	2.47
C114	2.16	1.59	1.15	0.90	0	1.44	0.72	0	1.44	1.08	1.44	1.44	2.02	1.59
C115	2.90	2.51	2.51	2.32	2.13	1.55	1.55	0.97	1.35	1.93	1.74	2.90	2.32	2.32
C116	2.72	2.35	2.35	2.17	1.99	1.45	1.45	0.91	1.27	1.81	1.63	2.72	2.17	2.17
C201	1.66	1.66	1.66	1.66	0	0	0	0	0	0	0	1.66	1.11	1.11
C202	1.71	1.55	1.09	2.02	0.78	0.78	1.55	0	0.78	0	0	2.33	1.55	1.55
C203	2.08	2.40	2.40	2.40	0	2.40	2.40	0	1.60	0	0	0	1.60	1.60
C204	2.56	1.54	2.56	2.56	2.56	2.56	2.56	0	1.71	0	0	2.56	2.56	2.56
C205	2.41	2.24	2.24	0	0	0	2.41	0	2.41	0	0	0	1.38	1.72
C206	3.00	2.00	3.00	1.00	1.20	1.00	1.80	1.00	1.00	1.00	1.20	3.00	3.00	3.00
C207	3.00	2.00	3.00	0	3.00	0	0	0	0	2.00	3.00	3.00	2.00	2.00
C208	2.20	2.60	2.20	2.60	1.40	2.20	2.20	1.80	2.20	1.40	2.00	2.20	1.00	1.80
C209	1.60	0.96	0.80	1.28	0.96	0.80	0.96	1.44	2.40	2.40	0.80	2.24	2.24	1.44
C210	2.95	2.95	2.95	2.76	1.58	1.97	0.98	0	1.48	0	2.76	2.17	2.95	2.95
C211	3.00	3.00	3.00	3.00	2.25	0	0	0	0	1.40	0	2.50	3.00	2.40
C212	3.00	1.80	2.60	2.20	1.40	3.00	2.20	0	2.00	1.00	1.00	3.00	3.00	3.00
C213	3.00	2.00	3.00	1.00	1.25	1.00	1.80	0	0	1.00	1.33	3.00	3.00	3.00
C214	2.80	2.60	2.80	3.00	3.00	3.00	1.00	1.00	1.00	1.00	1.00	3.00	3.00	3.00
C215	2.00	1.60	2.00	1.40	1.33	1.00	1.00	1.00	1.00	0	1.00	3.00	3.00	3.00
C216	2.20	2.60	2.20	2.60	1.40	2.20	1.80	1.80	2.20	1.40	2.00	2.20	1.00	1.80
C217	2.80	2.60	2.80	3.00	3.00	3.00	1.00	1.00	1.00	1.00	1.00	3.00	3.00	3.00
C218	0	1.80	1.20	1.60	1.25	1.00	1.40	1.67	3.00	3.00	1.00	2.60	2.40	2.80
C301	2.68	2.87	2.87	2.87	1.91	0	0	0	0	0	0.96	2.68	2.49	1.91
C302	2.85	2.85	2.85	2.85	0	1.90	1.90	0	0	1.90	1.90	1.71	2.85	2.85
C303	2.78	2.78	2.78	1.85	0	1.85	0	0	0	1.55	0	1.85	2.60	1.85
C304	2.86	2.86	2.10	2.29	0	0	0	0	0	1.71	0	2.86	2.86	1.90
C305	2.94	2.55	1.76	1.72	1.96	1.57	1.96	0	1.31	0.98	1.96	2.16	2.94	1.96
C306	2.99	1.99	2.99	1.00	1.20	1.00	1.79	1.00	1.00	1.00	1.20	2.99	2.99	2.99
C307	2.99	2.99	1.99	1.99	1.59	1.99	2.19	0	1.99	1.99	1.99	1.99	1.99	2.99
C308	2.99	2.79	1.99	1.99	2.19	1.99	1.39	1.00	1.99	1.19	1.79	2.79	1.99	2.99
C309	2.98	2.98	2.98	1.99	0	0.99	0	0	0	0	0	1.99	2.98	2.98
C310	2.98	2.98	2.98	1.99	2.39	1.99	1.99	1.99	1.99	1.39	1.99	1.59	2.79	2.79
C311	2.73	2.73	2.93	2.15	1.17	0	0.98	0	0	0	1.95	2.54	1.56	1.95
C312	2.79	2.99	2.99	2.99	0	0	0	0	0	0	0	2.99	2.99	2.19
C313	2.79	2.79	2.99	2.19	1.33	1.39	1.79	0	0	0	0	2.59	2.99	2.99
C314	2.19	2.39	2.19	2.49	1.59	1.99	1.59	1.49	1.99	1.20	1.59	2.19	2.99	2.39
C315	2.99	1.99	2.99	1.79	2.99	0	0	0	0	1.99	2.99	2.99	1.99	1.99

C316	2.79	2.79	2.59	2.59	2.39	1.99	1.00	1.79	2.39	2.19	2.39	2.79	2.99	2.99
C317	1.00	1.00	1.00	1.00	1.99	1.99	1.00	2.39	2.99	2.99	1.20	2.99	1.99	1.99
C401	2.97	1.59	1.39	0.99	0.99	1.98	2.18	1.39	0.99	0.99	1.98	1.78	2.58	1.98
C402	2.79	2.79	1.79	1.99	1.20	1.00	1.00	1.00	1.00	1.00	1.40	1.00	1.40	2.19
C403	2.98	2.98	2.98	1.99	1.39	0	0	0	0	0	0.99	2.98	2.98	2.98
C404	2.99	2.99	0	2.99	1.99	1.99	1.99	1.19	1.00	1.00	2.79	2.99	2.99	2.99
C405	2.99	2.99	0	2.66	2.99	1.00	2.39	1.79	1.79	0	0	2.99	2.99	2.99
C406	2.99	2.99	2.99	2.99	1.20	1.99	1.99	1.00	1.00	1.20	2.59	2.99	2.99	2.99
C407	2.19	2.59	2.19	2.59	1.39	2.19	1.39	1.79	2.19	1.39	1.99	2.19	1.00	1.79
C408	2.39	2.79	2.19	2.59	2.19	2.19	1.39	1.79	2.19	1.39	1.99	2.99	2.59	2.39
C409	2.71	2.87	2.46	2.76	1.95	1.87	1.83	1.51	1.63	1.25	2.34	2.83	2.51	2.63
C410	0.97	0	0	0	0	1.95	0	2.73	1.17	0	2.53	2.92	2.92	1.95
C411	2.92	2.73	1.56	2.53	0	0	0	0	0	0	1.95	2.92	2.14	2.92
C412	2.32	2.99	2.32	2.24	2.49	1.74	1.49	1.59	1.99	2.59	2.59	2.79	2.99	2.99

Table 3.5. CO attainment levels using direct assessment tools for (2018-22) batch

COURSES/COs	DIRECT ASSESSMENT				
	ATTAINMENT OF CO's				
	CO1	CO2	CO3	CO4	CO5
I SEMESTER					
C101	3.0	3.0	3.0	3.0	3.0
C102	2.4	2.4	2.4	2.4	2.4
C103	2.3	2.3	2.3	2.3	2.3
C104	2.6	2.6	2.6	2.6	2.6
C105	2.7	2.7	2.7	2.7	2.7
C106	2.8	2.8	2.9	2.9	2.9
C107	2.9	2.9	2.9	2.9	2.9
C108	3.0	3.0	3.0	3.0	3.0
II SEMESTER					
C109	3.0	3.0	3.0	3.0	3.0
C110	2.5	2.5	2.7	2.7	2.6
C111	2.4	2.4	2.6	2.6	2.6
C112	2.1	2.1	2.4	2.4	2.5
C113	2.5	2.5	2.8	2.8	2.8
C114	2.2	2.2	2.4	2.4	2.4
C115	2.9	2.9	2.9	2.9	2.9
C116	2.8	2.8	2.8	2.8	2.8
III SEMESTER					
C201	2.0	2.0	1.9	1.9	2.0
C202	2.3	2.3	2.3	2.3	2.3
C203	2.5	2.5	2.5	2.5	2.5
C204	2.7	2.7	2.7	2.7	2.7
C205	2.6	2.6	2.6	2.6	2.6
C206	3.0	3.0	3.0	3.0	3.0
C207	3.0	3.0	3.0	3.0	3.0
C208	3.0	3.0	3.0	3.0	3.0
C209	3.0	3.0	3.0	3.0	3.0
IV SEMESTER					
C210	1.8	1.8	2.2	2.2	2.1
C211	2.1	2.1	2.4	2.4	2.4
C212	2.4	2.4	2.4	2.4	2.4
C213	2.4	2.4	2.4	2.4	2.4
C214	2.1	2.1	2.2	2.2	2.1
C215	2.1	2.1	2.2	2.2	2.3
C216	3.0	3.0	3.0	3.0	3.0
C217	3.0	3.0	3.0	3.0	3.0
C218	3.0	3.0	3.0	3.0	3.0
V SEMESTER					
C301	2.4	2.4	2.4	2.4	2.4
C302	2.5	2.5	2.6	2.6	2.3
C303	2.4	2.4	2.4	2.4	2.4

C304	2.1	2.1	2.1	2.1	2.4
C305	2.3	2.3	2.5	2.5	2.6
C306	3.0	3.0	3.0	3.0	3.0
C307	3.0	3.0	3.0	3.0	3.0
C308	3.0	3.0	3.0	3.0	3.0
VI SEMESTER					
C309	2.9	2.9	3.0	3.0	3.0
C310	3.0	3.0	3.0	3.0	3.0
C311	2.9	2.9	3.0	3.0	3.0
C312	2.8	2.8	3.0	3.0	3.0
C313	3.0	3.0	3.0	3.0	3.0
C314	2.8	2.8	3.0	3.0	3.0
C315	3.0	3.0	3.0	3.0	3.0
C316	3.0	3.0	3.0	3.0	3.0
C317	3.0	3.0	3.0	3.0	3.0
VII SEMESTER					
C401	2.9	2.9	2.9	2.9	2.9
C402	2.8	2.8	2.8	2.8	2.8
C403	2.9	2.9	2.9	2.9	2.9
C404	2.9	2.9	2.9	2.9	2.9
C405	2.7	2.7	2.7	2.7	2.7
C406	2.6	2.6	2.6	2.6	2.6
C407	3.0	3.0	3.0	3.0	3.0
C408	3.0	3.0	3.0	3.0	3.0
C409	3.0	3.0	3.0	3.0	3.0
VIII SEMESTER					
C410	3.0	3.0	3.0	3.0	3.0
C411	3.0	3.0	3.0	3.0	3.0
C412	3.0	3.0	3.0	3.0	3.0

Table 3.6. CO attainment levels using indirect assessment tools for (2018-22) batch

COURSES/COs	INDIRECT ASSESSMENT				
	ATTAINMENT OF CO's				
	CO1	CO2	CO3	CO4	CO5
I SEMESTER					
C101	2.9	2.9	2.9	3.0	3.0
C102	2.9	2.9	2.9	3.0	3.0
C103	2.9	3.0	3.0	2.9	3.0
C104	2.9	3.0	2.9	3.0	2.9
C105	2.5	2.6	2.5	2.4	2.6
C106	2.9	3.0	3.0	2.9	2.9
C107	2.9	3.0	2.9	3.0	2.9
C108	2.9	3.0	2.9	3.0	2.9
II SEMESTER					
C109	2.9	2.9	2.9	2.9	2.9
C110	2.9	2.9	2.9	2.9	2.9
C111	2.9	2.9	2.9	2.9	2.9
C112	2.9	2.9	2.9	2.9	2.9
C113	2.9	2.9	2.9	2.9	2.9
C114	2.9	2.9	2.9	2.9	2.9
C115	2.9	2.9	2.9	2.9	2.9
C116	2.9	3.0	2.9	2.9	2.9
III SEMESTER					
C201	3.0	3.0	3.0	3.0	3.0
C202	2.9	3.0	3.0	3.0	2.9
C203	2.9	3.1	3.0	3.0	2.9
C204	2.9	3.0	2.9	2.9	2.9
C205	2.9	3.0	3.0	2.9	3.0
C206	3.0	3.0	3.0	3.0	3.0
C207	3.0	3.0	3.0	3.0	3.0
C208	2.9	3.0	3.0	3.0	3.0
C209	3.0	3.0	3.0	3.0	3.0
IV SEMESTER					
C210	3.0	3.0	3.0	2.9	3.0
C211	3.4	3.3	3.4	3.3	3.4
C212	3.2	3.2	3.2	3.2	3.2
C213	3.0	3.0	3.0	3.0	3.0
C214	3.0	3.0	3.0	3.0	3.0
C215	3.2	3.3	3.2	3.3	3.3
C216	3.0	3.0	3.0	3.0	3.0
C217	3.0	3.0	3.0	3.0	3.0
C218	3.0	3.0	3.0	3.0	3.0
V SEMESTER					
C301	2.9	3.0	2.9	2.9	3.0
C302	2.5	2.5	2.5	2.5	2.5
C303	2.9	2.9	2.9	2.9	2.9

C304	2.9	2.9	2.9	2.9	3.0
C305	2.5	2.5	2.5	2.5	2.4
C306	3.0	3.0	3.0	3.0	3.0
C307	3.0	2.9	3.0	3.0	3.0
C308	2.9	3.0	3.0	3.0	3.0
VI SEMESTER					
C309	2.9	2.9	2.9	2.9	2.9
C310	2.9	2.9	2.9	2.9	2.9
C311	2.5	2.8	2.5	2.8	2.5
C312	2.9	2.9	2.9	3.0	2.9
C313	2.9	2.9	2.9	2.9	2.9
C314	2.9	2.9	3.0	2.9	2.9
C315	2.9	3.0	3.0	3.0	3.0
C316	3.0	3.0	3.0	2.9	3.0
C317	3.0	3.0	3.0	3.0	3.0
VII SEMESTER					
C401	2.9	2.9	2.9	2.9	2.9
C402	2.9	2.9	2.9	2.9	2.9
C403	3.0	2.9	2.9	3.0	3.0
C404	2.9	2.9	3.0	2.9	2.9
C405	2.9	2.9	2.9	2.9	2.9
C406	3.0	2.9	2.9	2.9	3.0
C407	3.0	3.0	3.0	3.0	3.0
C408	2.9	2.9	3.0	3.0	3.0
C409	2.9	3.0	3.0	3.0	3.0
VIII SEMESTER					
C410	2.9	2.9	3.0	2.9	2.9
C411	2.9	2.9	2.9	2.9	2.9
C412	3.0	3.0	3.0	2.9	2.9

Table 3.7. Final CO attainment levels of all course outcomes for (2018-22) batch

COURSES/COs	FINAL ASSESSMENT				
	ATTAINMENT OF CO's				
	CO1	CO2	CO3	CO4	CO5
I SEMESTER					
C101	3.0	3.0	3.0	3.0	3.0
C102	2.5	2.5	2.5	2.5	2.5
C103	2.4	2.4	2.5	2.5	2.5
C104	2.7	2.7	2.7	2.7	2.7
C105	2.7	2.7	2.7	2.7	2.7
C106	2.8	2.9	2.9	2.9	2.9
C107	2.9	2.9	2.9	3.0	2.9
C108	3.0	3.0	3.0	3.0	3.0
II SEMESTER					
C109	3.0	3.0	3.0	3.0	3.0
C110	2.6	2.6	2.7	2.7	2.7
C111	2.5	2.5	2.7	2.7	2.7
C112	2.2	2.3	2.5	2.5	2.6
C113	2.6	2.6	2.8	2.8	2.8
C114	2.4	2.4	2.5	2.5	2.5
C115	2.9	2.9	2.9	2.9	2.9
C116	2.9	2.9	2.9	2.9	2.9
III SEMESTER					
C201	2.2	2.2	2.1	2.1	2.2
C202	2.4	2.4	2.4	2.4	2.4
C203	2.6	2.6	2.6	2.6	2.6
C204	2.8	2.8	2.8	2.8	2.8
C205	2.7	2.7	2.7	2.7	2.7
C206	3.0	3.0	3.0	3.0	3.0
C207	3.0	3.0	3.0	3.0	3.0
C208	3.0	3.0	3.0	3.0	3.0
C209	3.0	3.0	3.0	3.0	3.0
IV SEMESTER					
C210	2.1	2.1	2.4	2.4	2.3
C211	2.4	2.4	2.6	2.6	2.6
C212	2.6	2.6	2.6	2.6	2.6
C213	2.6	2.6	2.6	2.6	2.6
C214	2.3	2.3	2.3	2.3	2.3
C215	2.4	2.4	2.4	2.4	2.5
C216	3.0	3.0	3.0	3.0	3.0
C217	3.0	3.0	3.0	3.0	3.0
C218	3.0	3.0	3.0	3.0	3.0
V SEMESTER					
C301	2.5	2.5	2.5	2.5	2.5
C302	2.5	2.5	2.6	2.6	2.3
C303	2.5	2.5	2.5	2.5	2.5
C304	2.3	2.3	2.3	2.3	2.5

C305	2.4	2.4	2.5	2.5	2.6
C306	3.0	3.0	3.0	3.0	3.0
C307	3.0	3.0	3.0	3.0	3.0
C308	3.0	3.0	3.0	3.0	3.0
VI SEMESTER					
C309	2.9	2.9	3.0	3.0	3.0
C310	3.0	3.0	3.0	3.0	3.0
C311	2.8	2.9	2.9	2.9	2.9
C312	2.8	2.8	3.0	3.0	3.0
C313	3.0	3.0	3.0	3.0	3.0
C314	2.8	2.8	3.0	3.0	3.0
C315	3.0	3.0	3.0	3.0	3.0
C316	3.0	3.0	3.0	3.0	3.0
C317	3.0	3.0	3.0	3.0	3.0
VII SEMESTER					
C401	2.9	2.9	2.9	2.9	2.9
C402	2.8	2.8	2.8	2.8	2.8
C403	2.9	2.9	2.9	2.9	2.9
C404	2.9	2.9	2.9	2.9	2.9
C405	2.8	2.8	2.8	2.8	2.8
C406	2.7	2.7	2.7	2.7	2.7
C407	3.0	3.0	3.0	3.0	3.0
C408	3.0	3.0	3.0	3.0	3.0
C409	3.0	3.0	3.0	3.0	3.0
VIII SEMESTER					
C410	3.0	3.0	3.0	3.0	3.0
C411	3.0	3.0	3.0	3.0	3.0
C412	3.0	3.0	3.0	3.0	3.0

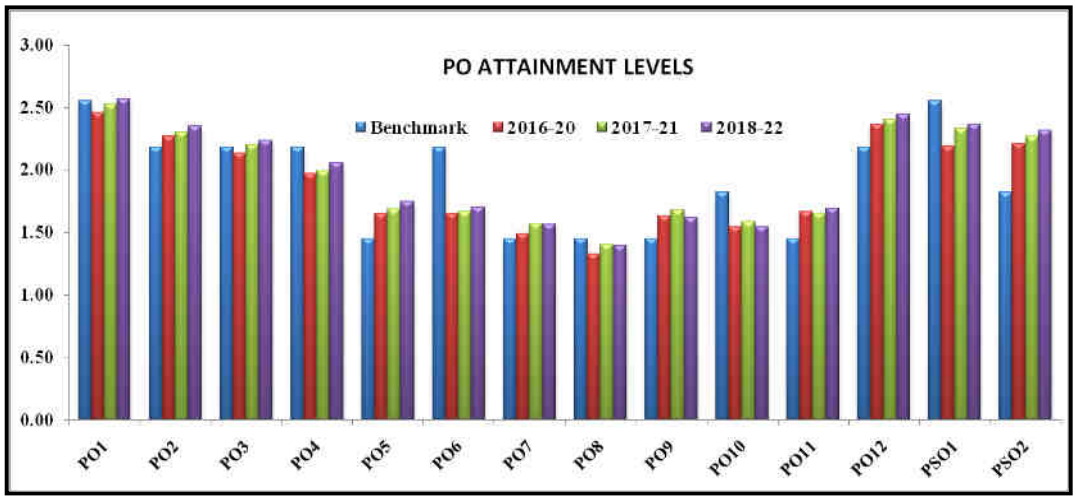


Figure 3.12. Attaintment level as per benchmark

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 evaluation of attainment of PO's & PSO's are based on direct assessment tools as well as indirect assessment tools. Direct assessment of PO's & PSO's is based on the student's performance in both internal tests and university examinations for all courses. Performance of the students in different assessments such as internal tests and university exams lead to attainment of CO's which subsequently leads to the attainment of PO's & PSO's based on the mapping of CO's.

To evaluate the attainment of PO's/PSO's, the following tools are used

Direct Assessment Tools:

a. Internal Evaluation

1. Theory Courses (Internal Semester Examination)

2. Lab courses (Continuous Assessment)

3. Project work (reviews)

b. University Exams

1. Theory Courses (End Semester Examination)

2. Lab Courses (Practical Assessment)

3. Project work (Viva-Voce)

Indirect Assessment Tools:

1. Course End Survey.

2. Alumni Feedback

3. Employer's Feedback

B) THE QUALITY / RELEVANCE OF ASSESSMENT PROCESSES & TOOLS USED

To know the effectiveness of the assessment process, the marks of internal theory and laboratory examinations, external theory and laboratory examinations are considered for assessing the performance of the student. To ensure quality the following steps are done.

1. Course Outcomes are prepared by faculty members and assessed by the Department Academic Committee (DAC).

2. The DAC Committee assesses a set of courses for PO's and fixes the target level.

3. Direct Assessment Tools are used for assessing the PO based on Internal Assessment, seminar and tutorials conducted during the academic year.

4. The process of direct assessment is established by the IQAC and is followed up by the DAC Committee.

5. Indirect assessment tools are used for assessing PO's though Course end surveys at the end of the program.

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	1.69	1.13	1.41	1.18	0.94	1.32	1.57	2.82	2.82	0.94	2.45
C102	2.15	1.58	0.72	2.15	0	1.58	0.90	0	0.72	0.72	1.58	1.58
C103	2.25	1.81	1.66	1.66	1.21	1.66	1.51	1.06	1.06	1.01	0	1.36
C104	2.51	1.67	1.84	1.88	0.84	1.67	1.40	0.84	1.34	1.17	0.84	1.84
C105	2.49	2.49	2.49	0.83	1.25	0	0	0	0	0	0	0
C106	2.70	2.70	1.80	0.90	2.34	1.80	0.90	0	0	0	0	2.70
C107	2.90	2.90	2.90	2.90	2.90	0.97	0.97	0	1.94	1.94	2.90	0
C108	2.69	2.69	2.11	1.92	1.92	2.49	2.30	1.15	1.54	1.73	1.34	2.11
C109	0	1.06	0.88	1.41	1.06	0.88	1.06	1.59	2.65	2.65	0.88	2.47
C110	2.31	2.31	1.98	1.98	0.83	1.16	0.83	0.83	0.83	1.49	1.49	1.98
C111	2.44	2.27	2.27	1.95	1.79	1.46	1.46	1.46	1.14	0.97	0.81	1.46
C112	1.90	1.75	1.61	1.46	1.46	1.46	1.31	0.73	0.73	1.17	1.31	2.19
C113	2.47	1.85	2.25	1.44	1.37	1.48	2.14	1.44	1.32	1.48	1.32	2.47

C114	2.16	1.59	1.15	0.90	0	1.44	0.72	0	1.44	1.08	1.44	1.44
C115	2.90	2.51	2.51	2.32	2.13	1.55	1.55	0.97	1.35	1.93	1.74	2.90
C116	2.72	2.35	2.35	2.17	1.99	1.45	1.45	0.91	1.27	1.81	1.63	2.72
C201	1.66	1.66	1.66	1.66	0	0	0	0	0	0	0	1.66
C202	1.71	1.55	1.09	2.02	0.78	0.78	1.55	0	0.78	0	0	2.33
C203	2.08	2.40	2.40	2.40	0	2.40	2.40	0	1.60	0	0	0
C204	2.56	1.54	2.56	2.56	2.56	2.56	2.56	0	1.71	0	0	2.56
C205	2.41	2.24	2.24	0	0	0	2.41	0	2.41	0	0	0
C206	3	2	3	1	1.20	1	1.8	1	1	1	1.20	3
C207	3	2	3	0	3	0	0	0	0	2	3	3
C208	2.20	2.60	2.20	2.60	1.40	2.20	2.20	1.80	2.20	1.40	2	2.20
C209	1.60	0.96	0.80	1.28	0.96	0.80	0.96	1.44	2.40	2.40	0.80	2.24
C210	2.95	2.95	2.95	2.76	1.58	1.97	0.98	0	1.48	0	2.76	2.17
C211	3	3	3	3	2.25	0	0	0	0	1.40	0	2.50
C212	3	1.80	2.60	2.20	1.40	3	2.20	0	2	1	1	3
C213	3	2	3	1	1.25	1	1.80	0	0	1	1.33	3
C214	2.80	2.60	2.80	3	3	3	1	1	1	1	1	3
C215	2	1.60	2	1.40	1.33	1	1	1	1	0	1	3
C216	2.20	2.60	2.20	2.60	1.40	2.20	1.80	1.80	2.20	1.40	2	2.20
C217	2.80	2.60	2.80	3	3	3	1	1	1	1	1	3
C218	0	1.80	1.20	1.60	1.25	1	1.40	1.67	3	3	1	2.60
C301	2.68	2.87	2.87	2.87	1.91	0	0	0	0	0	0.96	2.68
C302	2.85	2.85	2.85	2.85	0	1.9	1.9	0	0	1.9	1.9	1.71
C303	2.78	2.78	2.78	1.85	0	1.85	0	0	0	1.55	0	1.85
C304	2.86	2.86	2.10	2.29	0	0	0	0	0	1.71	0	2.86
C305	2.94	2.55	1.76	1.72	1.96	1.57	1.96	0	1.31	0.98	1.96	2.16
C306	2.99	1.99	2.99	1	1.20	1	1.79	1	1	1	1.2	2.99
C307	2.99	2.99	1.99	1.99	1.59	1.99	2.19	0	1.99	1.99	1.99	1.99
C308	2.99	2.79	1.99	1.99	2.19	1.99	1.39	1	1.99	1.19	1.79	2.79
C309	2.98	2.98	2.98	1.99	0	0.99	0	0	0	0	0	1.99
C310	2.98	2.98	2.98	1.99	2.39	1.99	1.99	1.99	1.99	1.39	1	1.59
C311	2.73	2.73	2.93	2.15	1.17	0	0.98	0	0	0	1.95	2.54
C312	2.79	2.99	2.99	2.99	0	0	0	0	0	0	0	2.99
C313	2.79	2.79	2.99	2.19	1.33	1.39	1.79	0	0	0	0	2.59
C314	2.19	2.39	2.19	2.49	1.59	1.99	1.59	1.49	1.99	1.20	1.59	2.19
C315	2.99	1.99	2.99	1.79	2.99	0	0	0	0	1.99	2.99	2.99
C316	2.79	2.79	2.59	2.59	2.39	1.99	1	1.79	2.39	2.19	2.39	2.79
C317	1	1	1	1	1.99	1.99	1	2.39	2.99	2.99	1.20	2.99
C401	2.97	1.59	1.39	0.99	0.99	1.98	2.18	1.39	0.99	0.99	1.98	1.78
C402	2.79	2.79	1.79	1.99	1.20	1	1	1	1	1	1.40	1
C403	2.98	2.98	2.98	1.99	1.39	0	0	0	0	0	0.99	2.98
C404	2.99	2.99	0	2.99	1.99	1.99	1.99	1.19	1	1	2.79	2.99
C405	2.99	2.99	0	2.66	2.99	1	2.39	1.79	1.79	0	0	2.99
C406	2.99	2.99	2.99	2.99	1.20	1.99	1.99	1	1	1.20	2.59	2.99
C407	2.19	2.59	2.19	2.59	1.39	2.19	1.39	1.79	2.19	1.39	1.99	2.19
C408	2.39	2.79	2.19	2.59	2.19	2.19	1.39	1.79	2.19	1.39	1.99	2.99
C409	2.71	2.87	2.46	2.76	1.95	1.87	1.83	1.51	1.63	1.25	2.34	2.83
C410	0.97	0	0	0	0	1.95	0	2.73	1.17	0	2.53	2.92
C411	2.92	2.73	1.56	2.53	0	0	0	0	0	0	1.95	2.92
C412	2.32	2.99	2.32	2.24	2.49	1.74	1.49	1.59	1.99	2.59	2.59	2.79

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.65	2.48	2.38	2.24	1.92	1.89	1.81	1.65	1.89	1.77	1.86	2.52
Direct Attainment	2.57	2.35	2.23	2.06	1.75	1.69	1.56	1.39	1.62	1.54	1.67	2.44
InDirect Attainment	2.99	2.98	2.97	2.97	2.6	2.7	2.8	2.7	2.99	2.71	2.64	2.84

PSO Attainment

Course	PSO1	PSO2
C101	2.26	2.64
C102	2.15	2.15
C103	1.96	0.91
C104	2.51	2.51
C105	2.32	0.83
C106	1.80	2.70
C107	2.90	2.90
C108	1.92	1.92
C109	2.47	1.59
C110	2.48	2.48
C111	1.46	1.30
C112	0.73	1.17
C113	2.47	2.47
C114	2.02	1.59
C115	2.32	2.32
C116	2.17	2.17
C201	1.11	1.11
C202	1.55	1.55
C203	1.60	1.60
C204	2.56	2.56
C205	1.38	1.72
C206	3.00	3.00
C207	2.00	2.00
C208	1.00	1.80
C209	2.24	1.44
C210	2.95	2.95
C211	3.00	2.40
C212	3.00	3.00
C213	3.00	3.00
C214	3.00	3.00
C215	3.00	3.00
C216	1.00	1.80
C217	3.00	3.00
C218	2.40	2.80
C301	2.49	1.91
C302	2.85	2.85
C303	2.60	1.85
C304	2.86	1.90
C305	2.94	1.96
C306	2.99	2.99
C307	1.99	2.99

C308	1.99	2.99
C309	2.98	2.98
C310	2.79	2.79
C311	1.56	1.95
C312	2.99	2.19
C313	2.99	2.99
C314	2.99	2.39
C315	1.99	1.99
C316	2.99	2.99
C317	1.99	1.99
C401	2.58	1.98
C402	1.40	2.19
C403	2.98	2.98
C404	2.99	2.99
C405	2.99	2.99
C406	2.99	2.99
C407	1.00	1.79
C408	2.59	2.39
C409	2.51	2.63
C410	2.92	1.95
C411	2.14	2.92
C412	2.99	2.99

PSO Attainment Level

Course	**PSO1**	**PSO2**
CO Attainment	2.48	2.45
Direct Attainment	2.36	2.32
InDirect Attainment	2.98	2.97

4 STUDENTS' PERFORMANCE (150) Total Marks 90.45

:

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)	60	60	60	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)	18	25	22	46	58	105	100
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	17	36	16	14	23	31
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	18	42	58	62	72	128	131

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)	18	0	0	0	0
2021-22 (CAYm1)	42	10	0	0	0
2020-21 (CAYm2)	58	21	2	0	0
2019-20 (CAYm3)	62	3	19	10	0
2018-19 (LYG)	72	8	5	5	5
2017-18 (LYGm1)	128	26	6	5	4
2016-17 (LYGm2)	131	24	21	11	6

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)	18	0	0	0	0
2021-22 (CAYm1)	42	25	0	0	0
2020-21 (CAYm2)	58	22	58	0	0
2019-20 (CAYm3)	62	46	61	59	0
2018-19 (LYG)	72	57	62	61	61
2017-18 (LYGm1)	128	104	122	115	115
2016-17 (LYGm2)	131	100	126	124	124

4.1 Enrolment Ratio (20) Total Marks 0.00

Institute Marks : 0.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2022-23 (CAY)	60	18	30.00
2021-22 (CAYm1)	60	25	41.67
2020-21 (CAYm2)	60	22	36.67

Average [(ER1 + ER2 + ER3) / 3] : 36.11

Assessment : 0.00

4.2 Success Rate in the stipulated period of the program (40) Total Marks 14.75

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	72.00	128.00	131.00
Y Number of students who have graduated without backlogs in the stipulated period	5.00	4.00	6.00
Success Index [SI = Y / X]	0.07	0.03	0.05

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

Assessment [25 * Average SI] : 1.25

4.2.2 Sucess rate in stipulated period (15)

Institute Marks : 13.50

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	72.00	128.00	131.00
Y Number of students who have graduated in the stipulated period	61.00	115.00	124.00
Success Index [SI = Y / X]	0.85	0.90	0.95

Average SI[(SI1 + SI2 + SI3) / 3]: 0.90

Assessment [15 * Average SI] : 13.50

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

4.3 Academic Performance in Third Year (15)

Total Marks 11.10

Institute Marks : 11.10

Academic Performance	CAYm3 (2019-20)	LYG (2018-19)	LYGm1 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	8.03	7.61	7.37
Total number of successful students(Y)	59.00	61.00	115.00
Totalnumber of students appeared in the examination(Z)	61.00	62.00	122.00
API [X*(Y/Z)]:	7.77	7.49	6.95

Average API [(AP1 + AP2 + AP3)/3] : 7.40

Assessment [1.5 * AverageAPI] : 11.10

4.4 Academic Performance in Second Year (15)

Total Marks 11.93

Institute Marks : 11.93

Academic Performance	CAYm2 (2020-21)	CAYm3 (2019-20)	LYG (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	8.40	8.84	7.74
Total number of successful students (Y)	58.00	61.00	62.00
Total number of students appeared in the examination (Z)	58.00	62.00	71.00
API [X * (Y/Z)]	8.40	8.70	6.76

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

Assessment [1.5 * AverageAPI] : 11.93

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 32.67

Institute Marks : 32.67

Item	LYG (2018-19)	LYGm1 (2017-18)	LYGm2 (2016-17)
Total No of Final Year Students(N)	61.00	115.00	124.00
No of students placed in the companies or government sector(X)	46.00	82.00	90.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	5.00	2.00	7.00
No of students turned entrepreneur in engineering/technology (Z)	4.00	3.00	1.00
x + y + z =	55.00	87.00	98.00
Placement Index [(X+Y+Z)/N] :	0.90	0.76	0.79

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

Assessment [40 * Average Placement] : 32.67

Program Name :

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	S. MOHAMED HUSSAIN	110118114023	M/S. AURORA INSTITUTE AND INSPECTION SERVICES	AMSCE/MECH/2022/AIS-1
2	AKASH	110118114008	M/s. BANGALORE STRATEGIC SOLUTIONS (P) LTD	AMSCE/MECH/2022/BSS-1
3	MOHAMED MUJEEB.S	110118114025	M/s. BANGALORE STRATEGIC SOLUTIONS (P) LTD	AMSCE/MECH/2022/BSS-2
4	MOHAMMED BILAL M	110118114034	M/s BOSCH	AMSCE/MECH/2022/BOS-1
5	AFZAL KHAN . A	110118114003	M/s BOSCH	AMSCE/MECH/2022/BOS-2
6	HAFEEZULLAH KHAN	110118114013	M/s BOSCH	AMSCE/MECH/2022/BOS-3
7	SARAVANAN A J	110118114309	M/S. BRAKES INDIA (P) LTD	AMSCE/MECH/2022/BIL-1
8	MOHAMED AFREETH I	110118114304	M/s. CATERPILLAR	AMSCE/MECH/2022/CTR-1
9	SYED RAZA ALI	110118114056	M/S. CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2022/CSC-1
10	MOHAMMED IRFAN	110118114039	M/s. GOODRICH GASKET (P) LTD	AMSCE/MECH/2022/GRG-1
11	M. MOHAMED AL HAFEES	110118114021	M/S. GREEN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2022/GCS-1
12	MOHAMED SHA KAJA JAVITH.M	110118114028	M/S. IGARASHI MOTORS INDIA LTD.,	AMSCE/MECH/2022/IMI-1
13	MOHAMMED AADHIL SHARIFF I	110118114031	M/s. iTREND SOLUTION	AMSCE/MECH/2022/ITS-1
14	ZIAUL FAYAZ Z	110118114059	M/S. KI MOBILITY SOLUTIONS PVT. LTD	AMSCE/MECH/2022/KMS-1
15	ZARAR AHAMED	110118114058	M/S. KI MOBILITY SOLUTIONS PVT. LTD.,	AMSCE/MECH/2022/KMS-2
16	B.MOHAMMED RASHEED	110118124040	M/S. KI MOBILITY SOLUTIONS PVT. LTD	AMSCE/MECH/2022/KMS-3
17	ASRAR AHAMED IBRAHIM M	110118114010	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-1
18	MOHAMED AL IMRAN	110118114305	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-2
19	MOHAMMED ABOOBACKER SIDDIQUE I	110118114032	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-3
20	ABDUL RAZITH M B	110118114301	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-4
21	IRSHAD AHAMED	110118114015	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-5
22	MOHAMED VASEEM	110118115030	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-6
23	AHAMED MUNASIM S	110118114006	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-7
24	MADHAN KUMAR S	110118114017	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-8
25	ABDUL BASITH	110118114002	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-9
26	FARVES MUSHRAF	110118114012	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-10
27	MOHAMED AYAS M	110118114022	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-11
28	MOHAMED IBRAHIM	110118114037	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-12
29	MOHAMED SALMAN FARZI A	110118114027	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-13
30	HAMEED RAHMAN M	110118114014	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-14
31	ASMATH SHAFEE S	110118114009	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-15
32	MOHAMED JAVITH L	110118114024	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-16
33	MOHAMMED IBRAHIM T	110118114308	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-17
34	MUHAMMED MUSHARRAF ALI	110118114042	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-18
35	NAVEEN KUMAR S	110118114045	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-19
36	YUVAN RAJ S	110118114057	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-20
37	SEYED ABU BACKER M I	110118114048	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-21
38	AHAMED RIYAZ KHAN A	110118114701	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-22
39	SHAHUL HAMEED J	110118114310	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-23
40	AHAMED DHANVEERUL IRFAN	110118114004	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-24
41	NAVEED KHAN	110118114044	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2022/NVH-25
42	SM ADIL REHMAN	110118114302	M/S. ORION ELECTROMECH CONTRACTING INDIA LLP	AMSCE/MECH/2022/OEC-1
43	SEYED MOHAMED AZHAR Q S	110118114049	M/s. PERFECT ENGINEERING SOLUTIONS	AMSCE/MECH/2022/PES-1
44	MOHAMED ASLAM	110118114306	M/s. QSPIDER	AMSCE/MECH/2022/QSP-1
45	MAHMOOTH NAFIL U	110118114018	M/s. TATA CONSULTANCY SERVICES	AMSCE/MECH/2022/TCS-1
46	SHOIAB KHAN	110118114053	M/s. WIPRO LTD	AMSCE/MECH/2022/WIP-1

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ANAS IBNU MUHAMMED SADIQUE	110117114011	M/s. ALLIANZ TECHNOLOGY	AMSCE/MECH/2021/ATS-1
2	MOHAMMED AAMIR SUHAIL.A.	110117114065	M/s. ASM DIGITAL ENGINEERING	AMSCE/MECH/2021/ADE-1
3	SURIYA KRISHNAN R	110117114095	M/s. BANGALORE STRATEGIC SOLUTIONS PRIVATE LIMITED	AMSCE/MECH/2021/BSS-1
4	MOHAMED FARHAN.M.	110117114043	M/s. BANGALORE STRATEGIC SOLUTIONS PRIVATE LIMITED	AMSCE/MECH/2021/BSS-2
5	MOHAMED MYDEEN M	110117114055	M/s. BANGALORE STRATEGIC SOLUTIONS PRIVATE LIMITED	AMSCE/MECH/2021/BSS-3
6	MALAIKKOLUNDHU.RM	110117114031	M/s. BUSINESS SOLUTIONS INTERNATIONAL	AMSCE/MECH/2021/BSI-1
7	MOHAMED AASIR MEERAN.M.S.	110117114034	M/s. CLARITRICS INDIA PRIVATE LIMITED	AMSCE/MECH/2021/CIP-1
8	ABDUL RAWOOF S	110117114006	M/s. CONTROL SERVE ENGINEERING	AMSCE/MECH/2021/CSE-1
9	SYED ALI BATHUSHA J	110117114099	M/s. CONTROL SERVE ENGINEERING	AMSCE/MECH/2021/CSE-2
10	SHAIK APSAR	110117114323	M/s. CSS CORP PRIVATE LIMITED	AMSCE/MECH/2021/CSS-1
11	MOHAMED ASIK.M	110117114039	M/s. EMMAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-1
12	MOHAMED HAMIM R	110117114045	M/s. EMMAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-2
13	MUBARAK A	110117114074	M/s. EMMAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-3
14	ABDUL SALAAM K	110117114007	M/s. INFOSYS LIMITED	AMSCE/MECH/2021/IFS-1
15	ABDULKAREEM M	110117114004	M/s. INFOSYS LIMITED	AMSCE/MECH/2021/IFS-2
16	SRI RAM D	110117114092	M/s. LEGGETT & PLATT AUTOMOTIVE INDIA PVT. LTD	AMSCE/MECH/2021/LPA-1
17	ANWAR AZEES.A	110117114013	M/s. NINGBO YUZHAN PRECISION MOULD CO. LTDv	AMSCE/MECH/2021/NYP-1
18	MUNEER AHAMED	110117114078	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-2
19	MOHAMED AHNAAF ALI M	110117114035	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-3
20	RAJESH KANNA S	110117114081	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-4
21	SUHAIB AHMED P A	110117114093	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-5
22	MOHAMED YASEEN	110117114063	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-6
23	ASATH ALI ME	110117114015	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-7
24	LAKSHMIPATHY N	110117114028	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-8
25	SHAMEER M	110117114091	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-9
26	KAVIN KUMAR V	110117114027	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-10
27	NAVEEN KUMAR K	110117114079	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-11
28	SYED ABDUL HASIB	110117114097	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-12
29	ABDUL AJEEZ N	110117114001	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-13
30	SHAHEEN AHMED S	110117114090	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-14
31	NITISH KUMAR J	110117114080	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-15
32	SAFWAN NAZEER AHAMED N	110117114083	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-16
33	HARI HARAN G	110117114019	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-17
34	MOHAMED ALI S	110117114037	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-18
35	RASIK FAREED M	110117114082	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-19
36	SAMSU KARIMULLAH	110117114322	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-20
37	MOHAMED AKEEF N	110117114036	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-21
38	AHAMED ABDUR RAHMAN S A	110117114008	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-22
39	MOHAMED HASAN P M I	110117114047	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-23
40	MOHAMMED UMAR	110117114073	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-24
41	FAZIL HUSSAIN S	110117114018	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-25
42	MOHAMMED NOWFEL S	110117114069	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-26
43	MAHATHU ABBAS	110117114030	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-27
44	ABDUL RAHEEM HAFIS T	110117114005	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-28
45	SYED MUHAMMAD BUHARI	110117114102	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-29
46	SAMEER RAJA S	110117114084	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-30
47	ARZATH AHAMED M	110117114014	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-31
48	SATHISH KUMAR T	110117114088	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-32
49	MOHAMEDS HASSAN S	110117114048	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-33

50	KRISHNARAJ M	110117114310	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-34
51	MOHAMED HAMDAN	110117114044	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-35
52	RAIHAN SHAH SAIKIA	110117114319	M/s. NVH INDIA AUTO PARTS PVT LTD	AMSCE/MECH/2021/NVH-36
53	MUHSIN KAMEEL A	110117114077	M/s. OPTIMAL MEP CONSULTANTS	AMSCE/MECH/2021/OMC-1
54	HARI HARAN U	110117114305	M/s. QSPIDER	AMSCE/MECH/2021/QSP-1
55	MOHAMED SIDDIQ K.N	110117114071	M/s. QSPIDER	AMSCE/MECH/2021/QSP-2
56	JAYA PRAKASH RAO C	110117114024	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-1
57	JITHESH KRISHNAN A	110117114026	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-2
58	MOHAMED DHALKHAN J	110117114041	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-3
59	SYED TAUQEER AHMED S	110117114103	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-4
60	MOHAMED ABUTHAHIR	110117114311	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-5
61	INDLA VIKRAMA RAO S	110117114021	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-6
62	MOHAMED ISBATH ALI A	110117114050	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-7
63	MOHAMMED ARIF A	110117114066	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-8
64	MOHAMED THAMEEMUL ANSARI S	110117114062	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-9
65	AMANULLAH Z	110117114301	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2021/SGS-11
66	MOHAMED RIZWAN S	110117114057	M/s. TATA CONSULTANCY SERVICES LIMITED	AMSCE/MECH/2021/TCS-1
67	SURYA KUMAR.H	110117114096	M/s. TVS EDUCATIONAL SOCIETY	AMSCE/MECH/2021/TVS-1
68	MUHAMMED ARSHATH M	110117114076	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2021/KMS-1
69	MOHAMED SAKEEL S A	110117114058	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2021/KMS-2
70	ABDUL KADHAR M	110117114003	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2021/GCH-1
71	IMRAN SHERIFF K	110117114020	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2021/GCH-2
72	MUHAMMED ARSHATH S	110117114038	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2021/GCH-3
73	MOHAMED RIYANUDEEN M	110117114056	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2021/GCH-4
74	SYED ABDUL RAHMAN S	110117114098	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2021/BSS-1
75	MOHAMED MUSHARAFF R	110117114053	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2021/BSS-2
76	MOHAMMED NABIDHU S	110117114067	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2021/BSS-3
77	RAJESH D	110117114320	EMAAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-1
78	AHAMED SHAMIL M	110117114009	EMAAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-2
79	GEROME XAVIUOR G	110117114025	EMAAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-3
80	MOHAMED FAIZAL D	110117114042	EMAAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-4
81	MOHAMED MUKTHAR KHAN A	110117114314	EMAAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-5
82	MOHAMED SHAFATH N	110117114060	EMAAR VALVES & CONTROLS	AMSCE/MECH/2021/EVC-6

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	KAMESH K	110116114028	M/s. BEULSTHAN TECHNOLOGIES	AMSCE/MECH/2020/BEUL-1
2	MOHAMMED HASHIM.J	110116114065	M/s. CloudQ	AMSCE/MECH/2020/CLD-1
3	KADER SHAHIB S	110116114025	M/s. CloudQ	AMSCE/MECH/2020/CLD-2
4	MOHAMED AL AFRIES M	110116114307	M/s. CloudQ	AMSCE/MECH/2020/CLD-3
5	MOHAMED FIAZ A	110116114041	M/s. CloudQ	AMSCE/MECH/2020/CLD-4
6	MOHAMMED SHAKIER S	110116114314	M/s. CloudQ	AMSCE/MECH/2020/CLD-5
7	DHANPAL M	110116114014	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-1
8	KARTHIKEYAN M	110116114031	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-2
9	MONESH K	110116114071	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-3
10	MUHAMMAD ABDUL WAHID K	110116114074	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-4
11	NIRMAL S	110116114077	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-5
12	BHARATH S	110116114013	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-6
13	AHASAN S	110116114303	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-7
14	MOHAMMED ZABEUR RAHMAN F	110116114317	M/s. DELPHI TVS TECHNNOLOGIES	AMSCE/MECH/2020/DTVS-8
15	ANEES AHMED B	110116114007	M/s. DOUBTNUT	AMSCE/MECH/2020/DNUT-1
16	MOHAMED SHALIH S	110116114056	M/s. KH EXPORTS INDIA PRIVATE LIMITED	AMSCE/MECH/2020/KHE-1
17	MOHAMMED IMRAN AZGHER.I	110116114066	M/s. LTIMINDTREE LIMITED	AMSCE/MECH/2020/LMT-1
18	MOHAMMED SAAD	110116114313	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-1
19	HEMA VIJAY S	110116114020	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-2
20	MOHAMED ISMAIL	110116114309	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-3
21	SAJITH AHAMED K	110116114322	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-4
22	UTHUMAN P	110116114325	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-5
23	AATHIL AMEEN J	110116114001	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-7
24	MOHAMED SHAMSUDEEN N	110116114057	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-9
25	MOHAMED IRFAN H	110116114046	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-10
26	ABDUL FASHID B	110116114002	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-11
27	MOHAMED HAMDAN S	110116114042	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-12
28	MOHAMED AL THAMEEM T	110116114038	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-13
29	RIZWAN BASHA M	110116114320	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-16
30	MOHESH KUMAR	110116114318	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/NVH-17
31	FAAIZUR RAHMAN A R	110116114017	M/s. NVH INDIA LIMITED	AMSCE/MECH/2020/QSP-1
32	MOHAMMED FARAAZ S	110116114064	M/s. QSPIDER	AMSCE/MECH/2020/QSP-2
33	KAASHIFF UR RAHMAN	110116114024	M/s. QSPIDER	AMSCE/MECH/2020/SGS-1
34	SYED MOHAMMED SIDDEEQ	110116114095	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-2
35	RANZIL RAHMAN	110116114081	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-3
36	MOHAMED RAZEEN. M	110116114051	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-4
37	SREE KRISHNA CHAITANYA. V	110116114092	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-5
38	VINOD EMMANUEL S	110116114099	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-6
39	ARIFF S	110116114010	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-7
40	ABRAR AHAMED A	110116114004	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-8
41	MOHAMED ASHIF RILWAN	110116114062	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/SGS-9
42	SHEIK ARSATH AHAMED S I	110116114089	M/s. SUTHERLAND GLOBAL SERVICES	AMSCE/MECH/2020/TI-1
43	SHA MOHAMED NASEERUDDIN BAKSHI	110116114088	M/s. TUBE PRODUCT OF INDIA	AMSCE/MECH/2020/TI-2
44	KALEEMULLAH	110116114027	M/s. TUBE PRODUCT OF INDIA	AMSCE/MECH/2020/TI-3
45	SYED MOHAMMED AFROZE ALAM	110116114703	M/s. TUBE PRODUCT OF INDIA	AMSCE/MECH/2020/TI-4
46	ANNAMALAI	110116114008	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2020/GCH-2
47	ANWAR	110116114009	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2020/GCH-3
48	DHANUSH	110116114016	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2020/GCH-4
49	HIDAYATHUR RAHMAN	110116114021	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2020/GCH-5

50	MOHAMMED BASID	110116114311	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2020/GCH-6
51	MOHAMMED YASEEN	110116114069	M/s. GRREN COMFORTS HVAC SYSTEMS	AMSCE/MECH/2020/GCH-7
52	ABSAR ALI J	110116114301	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-1
53	AHAMED HARISH N A	110116114005	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-2
54	ASIR SAMUEL	110116114011	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-3
55	MOHAMED AMEERUDEEN K	110116114039	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-4
56	MOHAMED RISWAN A	110116114053	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-5
57	MOHAMED SHADHIR H	110116114310	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-6
58	SUHAIL S	110116114324	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-7
59	THOUFIQ AHAMED A	110116114097	BANGALORE STRATEGIC SOLUTIONS PVT LTD	AMSCE/MECH/2020/BSS-8
60	AJMAL T	110116114006	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-1
61	FAYAZ V	110116114304	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-2
62	MOHAMED HARIES M	110116114043	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-3
63	MOHAMED IMTHIYAS M	110116114308	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-4
64	MOHAMED NAFIZ M	110116114049	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-5
65	NELSON P	110116114076	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-6
66	PRABHANJAN S	110116114079	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-7
67	KULAM B A MOOSA NAINA	110116114032	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-8
68	JAGADEESH P	110116114022	EMAAR VALVES & CONTROLS	AMSCE/MECH/2020/EVC-10
69	AZHAR MOHAMED S	110116114012	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-1
70	KARTHICK T	110116114030	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-2
71	MOHAMED AASSEER J	110116114035	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-3
72	MOHAMED RASHIM V	110116114050	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-4
73	MOHAMMED YOUSUF A	110116114316	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-5
74	MUHAMED SHARIFF	110116114073	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-6
75	PRAVEEN KUMAR G	110116114080	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-7
76	MOHAMED RAZIK K	110116114052	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-8
77	MOHAMMED YOUNUS M R	110116114070	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-9
78	MOHAMED ABUTHAHIR M	110116114037	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-10
79	SAFWAN S	110116114083	KI MOBILITY SOLUTIONS PRIVATE LTD	AMSCE/MECH/2020/KMS-11
80	JAHER USEN A	110116114023	CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2020/CES-2
81	MEHAR ALI J	110116114034	CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2020/CES-3
82	MOHAMED TARIQ M	110116114059	CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2020/CES-4
83	MUFEES AHAMED S	110116114072	CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2020/CES-5
84	SHAMEEM AHAMED P S S	110116114084	CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2020/CES-6
85	SATHISH KUMAR S	110116114323	CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2020/CES-7
86	VIJAYA BHARATHI J	110116114326	CONSISTENT ENGINEERING CONSULTANTS	AMSCE/MECH/2020/CES-8
87	MANIKANDAN G	110116114033	OPTIMAL MEP CONSULTANTS	AMSCE/MECH/2020/OMC-1
88	MOHAMED NAASEEF K	110116114048	OPTIMAL MEP CONSULTANTS	AMSCE/MECH/2020/OMC-2
89	THOUFIEK MOHAMMED S	110116114096	OPTIMAL MEP CONSULTANTS	AMSCE/MECH/2020/OMC-3
90	HUSSAIN MUHTHASIM R	110116114306	OPTIMAL MEP CONSULTANTS	AMSCE/MECH/2020/OMC-4

4.6 Professional Activities (20) Total Marks 20.00

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

Institute Marks : 5.00

A) AVAILABILITY & ACTIVITIES OF PROFESSIONAL SOCIETIES/CHAPTERS

Department of Mechanical Engineering have memberships in professional societies like ISTE, PALS and ICT Academy

Availability & Activities of Professional Societies/Chapters:

Table 4.1. List of Professional Societies.

S.No	Year	Name of the Professional Societies/Chapters	No. of Faculty membership	No. of student membership
1	CAY m1(2021-22)	ISTE	14	83
		PALS-IIT MADRAS	Institution membership	
		ICT		
2	CAY m2(2020-21)	PALS-IIT MADRAS		
		ICT		
3	CAY m3(2019-20)	PALS-IIT MADRAS		
		ICT		

Figure 4.1. Professional Society Membership - ISTE & PALS.

Table 4.2. Faculty members ISTE Professional membership.

S.No	Name of the Faculty	Designation	Membership ID
1	Dr.S.SATHISH	Professor & Principal	LM - 134411
2	DR.S.RAMKUMAR	Assistant Professor	LM - 134381
3	MR.AYAZ AHMED	Assistant Professor	LM - 134385
4	MR.P.MUNIRAJA CHANDRA	Assistant Professor	LM - 134377
5	MR.M.MOHAMMED YOUSUF	Assistant Professor	LM - 134383
6	MR.B.MOHAMMED YAHIYA	Assistant Professor	LM - 134384
7	MR.S.ABDUR RAHMAN	Assistant Professor	LM - 134382
8	MR.J.HABEEB RAHMAN	Assistant Professor	LM - 134387
9	MR.T.N.JAFAR ALI	Assistant Professor	LM - 134397
10	MR.M.SHEIK MOHAMED	Assistant Professor	LM - 134400
11	MR SAUVIK HOSSAIN S.K	Assistant Professor	LM - 134446

12	MR.B.ASHIQ	Assistant Professor	LM - 134458
13	MRS. RAMYA	Assistant Professor	LM - 110132
14	MR. R. MANIKANDAN	Assistant Professor	LM - 5535
15	MR. E. VIVEKNAND	Assistant Professor	LM - 136458

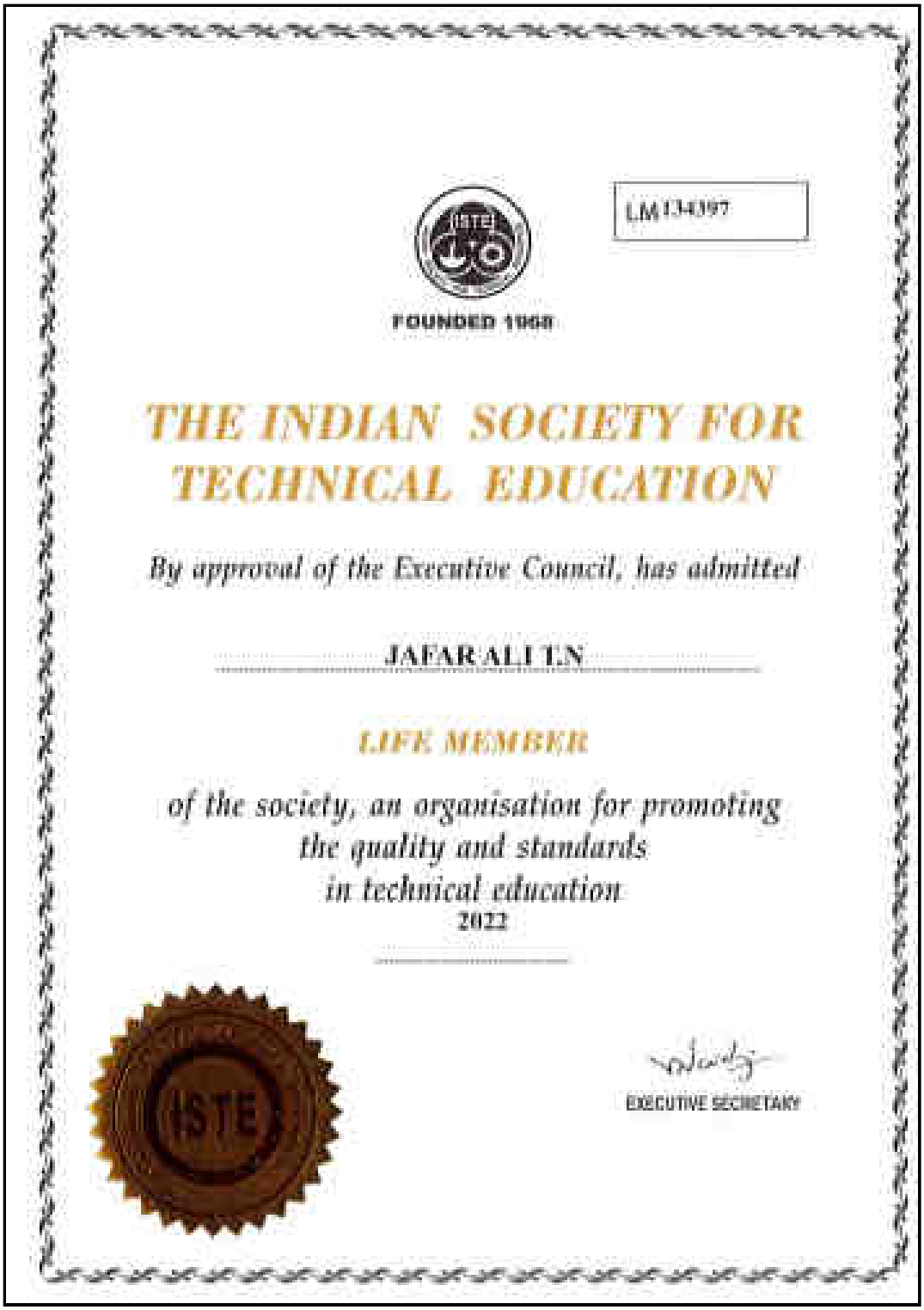


Figure 4.2. Professional Society Faculty Membership - ISTE

Table 4.3. Students ISTE membership details.

S.No	Name of the Student	Year	Membership No	Mail ID
1	ABDUL AJEEZ M	I	TN393000253	abdulajeez7426@gmail.com (mailto:abdulajeez7426@gmail.com)
2	ABDUL WAHID M	I	TN393000254	wahid052003@gmail.com

3	AHAMED BAISUL M	I	TN393000255	farookmohamed222@gmail.com (mailto:farookmohamed222@gmail.com)
4	AHAMED KABEER H	I	TN393000256	ahamedkabeer4744@gmail.com (mailto:ahamedkabeer4744@gmail.com)
5	AHZAN BARUDUS SAMAD S	I	TN393000257	ahzanbarudus@gmail.com
6	DILLIBABU V	I	TN393000258	dilliv1234@gmail.com (mailto:dilliv1234@gmail.com)
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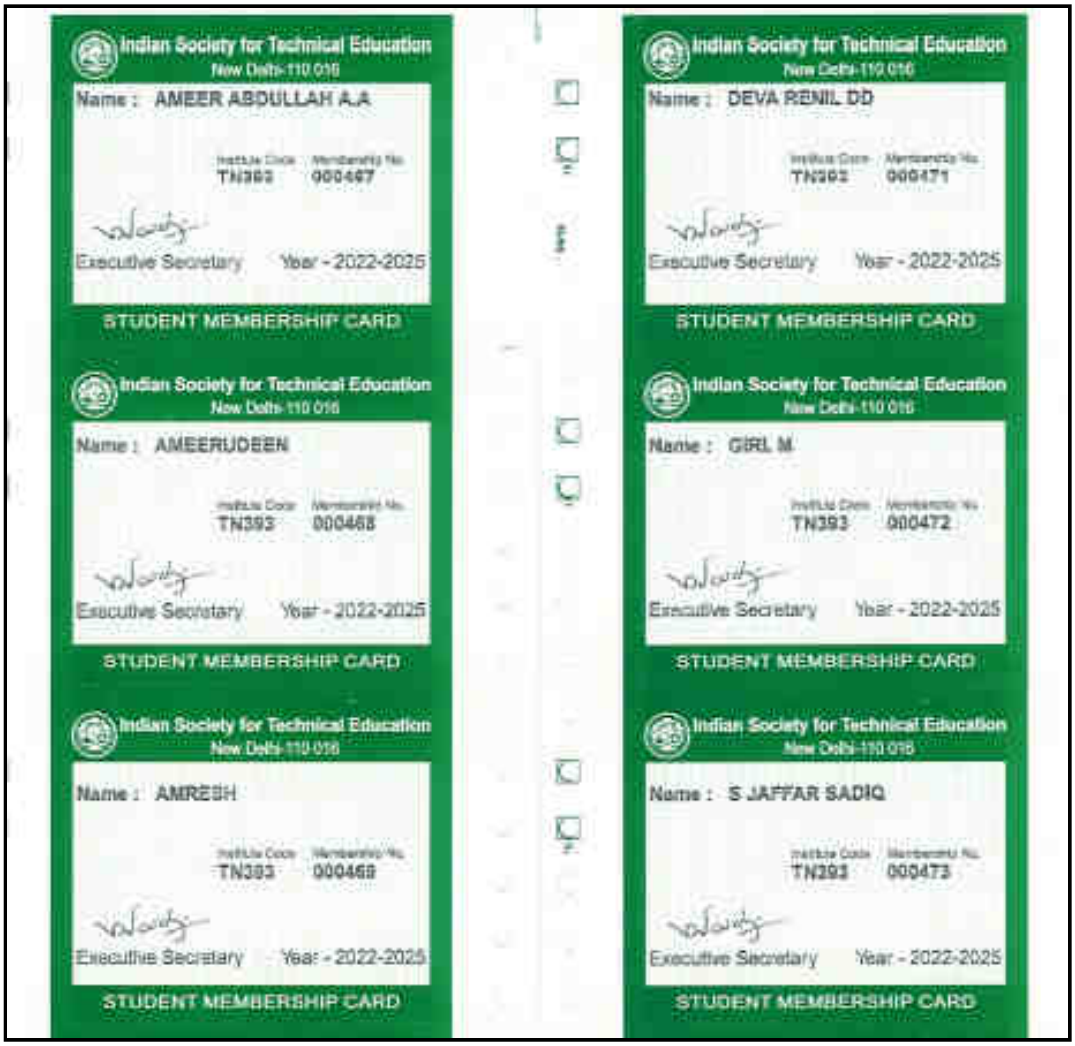


Figure 4.3. Professional Society Student Membership - ISTE.

B) NUMBER, QUALITY OF ENGINEERING EVENTS:

Table 4.4. List of Events Conducted through Professional Societies for CAY (2022-23).

S.No	Name of Professional Societies/Chapters	Date	Name of the Event	No.of Participants/Attendees	PO's Mapping
1	**ISTE**	**16.03.2023**	HorsePower 2k23 - National Level Technical Symposium	170	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO1
2	ISTE	22.02.2023	One day Workshop on 3D Printing	55	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
3	ISTE	21.01.2023	One day Workshop on 3D Printing	49	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
4	PALS	01.06.2022	Games for Glass room Teaching	25	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
5	PALS	12.08.2022	Gate -Jam study circle	111	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
5	PALS	21.09.2022	Skilling Tomorrow	15	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
6	PALS	22.09.2022	3D Printing and its Applications	40	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
7	PALS	27.10.2022	AI Driven trends in Healthcare	25	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
8	PALS	03.11.2022	Pathway from Engineering to Product Development and Entrepreneurship	52	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
9	PALS	28.01.2023	Talk on Sanitation Innovations	42	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
10	PALS	18.02.2023	Lab to Market conclave	30	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2

S.No	Name of Professional Societies/Chapters	Date	Name of the Event	No.of Participants/Attendees	PO's Mapping
11	PALS	09.03.2023	Industry 4.O: aplication in Foundary Industry	94	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
12	PALS	24.03.2023	Innowah	30	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
13	PALS	15.11.2022	Innowah	45	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
14	PALS	10.03.2023	Analyze	15	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
15	PALS	11.03.2023	Airport Passenger Feedback System	30	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2

Figure 4.4. National level Technical Symposium.

Table 4.5. List of Events Conducted through Professional Societies for CAY m1 (2021-22).

S. No	Name of Professional Societies/Chapters	Date	Name of the Event	No.of Participants/Attendees	PO's Mapping
1	ISTE	11/04/2022	Two days Workshop on "3D PRINTING"	80	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
2	PALS	18/02/2022	Industrial Visit- Sumetdhas Tech Solutions	10	PO1,PO2,PO3,PO4,PO5, PSO1, PSO2
3	PALS	31/01/2022	Virtual Industry Visit - Shanthi Gears	15	PO1,PO2,PO3,PO4,PO5, PSO1, PSO2
4	PALS	8/10/2021	PALS -Vlab Faculty Meet	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
5	PALS	7/10/2021	PALS INDUSTRY SPEAKS - DIGITAL - Trends in Cybersecurity - An IBM POV	15	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
6	PALS	6/10/2021	PALS - Aware Webinar Series - Presentation Tips and Tricks	20	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
7	PALS	2/10/2021	Online Engagement Platform - LITians for Impact	15	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
8	PALS	29-09-2021	Theory to Practice Lecture - Engine Testing - A practical Approach on Diesel Engine Combustion Development	25	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
9	PALS	21-09-2021	PALS Analyze - Burning of Automotive Starter Motor	30	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
10	PALS	18-09-2021	Online Engagement Platform - What is required to bring Green Hydrogen to commercial reality?	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2

11	PALS	16-09-2021	PALS INDUSTRY SPEAKS - CORE - Introduction to the world of Business	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
12	PALS	28-08-2021	PALS - Aware Webinar - Revenue Streams and Cost Structure	30	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
13	PALS	27-08-2021	PALS INDUSTRY SPEAKS - CORE - Product Reliability Engineering	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
14	PALS	25-08-2021	Theory to Practice Lecture - Cancer Therapy by Inhibition of Immune Checkpoints	30	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
15	PALS	21-08-2021	PALS - Aware Webinar Series - Marketing, Channels and Key Metrics	15	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
16	PALS	20-08-2021	PALS INDUSTRY SPEAKS - DIGITAL - Engineers - The Creative Doctors of Convenience	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
17	PALS	14-08-2021	PALS - Aware Webinar Series - Overview of the Lean Business Canvas Model	15	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2

18	PALS	14-08-2021	Online Engagement Platform - The SUTRA model for Pandemic Modeling from TIT Kanpur Looking back, looking forward	25	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
19	PALS	7/8/2021	PALS - Industry to Institute Meet	12	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
20	PALS	31-07-2021	PALS - EC Orientation	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
21	PALS	31-07-2021	Startup series - Journey of Planys Technologies	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
22	PALS	17-07-2021	Pals - Cares and Shares Web Series - Future of On-line & Blended Learning & Degrees - A game - Changer	30	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
23	PALS	26-06-2021	Pals - Indias first 3D printed house	10	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
24	PALS	17-06-2021 to 18-06-2021	Pals - Workshop - Psychological First Aid (PFA)	2	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
25	PALS	20.12.2021	Virtual Industry Visit - M/S. Mel Systems & Services	1	PO1,PO2,PO3,PO4,PO5, PSO1, PSO2
26	ICT	27.12.21 to 7.01.22	Oracle Java Programming	2	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2
27	ICT	23.03.22 to 02.04.22	Robotics	3	PO1,PO2,PO3,PO4,PO5,PO6, PO11
28	ICT	24.01.22 to 28.01.22	Digital Teaching Techniques	4	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11,PO12, PSO1, PSO2

Figure 4.5. Event Organised - 3D Printing Workshop.

Table 4.6. List of Events Conducted through Professional Societies for CAY m2 (2020-21).

S.No	Name of Professional Societies/Chapters	Date	Name of the Event	No.of Participants/Attendees	PO's Mapping
1	PALS	02-04-2021	Making things happen in the Govemement	30	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
2	PALS	01-04-2021	IITM Research Scholars Day - lnaugauration of RSD 2O21	30	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO7
3	PALS	26-03-2021	Pals - Virtual inciustry tour - Brakes lndia Foundry Division	55	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11, PSO1, PSO2

4	PALS	25/03/2021	IITM Research park visit	30	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2
5	PALS	20-03-2021	Innowah – Virtual exhibition	15	PO1,PO2,PO3,PO4,PO5,PO6,, PSO1, PSO2
6	PALS	17.03.2021	Virtual Industry Visit - M/S. Siemens Gamesha	2	PO1,PO2,PO3,PO4,PO6, PSO1, PSO2
7	PALS	12-03-2021	Campus Event - Medical Language Prooessing	15	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO1
8	PALS	04-03-2021	Campus Event - An overview of lndustrial Painting Requirements	10	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO0
9	PALS	03-03-2021	Theory to Practice Lecture - Visual Analytics with Self Organising Maps	20	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO1
10	PALS	27-02-2021	Pals - Cares and Shares Web Series lnciustry 4.0 and its Applications	30	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
11	PALS	27-02-2021	Pals Analyze - New age authentication in the digital world	30	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO1
12	PALS	26/02/2021	PALS ANALZE - ONLINE VOTING SYSTEM	20	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
13	PALS	25/02/2021	PALS ANALZE - DESIGN OF CLEANING SYS FOR HEAT EXCHANGER	25	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO11, PSO1, PSO2
14	PALS	24/02/2021	PALS ANALZE - AIRPORT PASSENGER FEEDBACK SYSTEM	45	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO11,PO12, PSO1, PSO2
15	PALS	22-12-2020	Pals - Cares and Shares Web Series Online Proctoring Solutions	10	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO11,PO12, PSO1, PSO3

16	PALS	25/11/2020	IITM Research park visit	30	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2
17	PALS	18/112020	PALS CAMPUS EVENT - ACQUIRE -	30	PO1,PO2,PO3,PO4,PO5,PO6,PO11, PSO1, PSO2
18	PALS	5/11/2020	Innowah - Innovation and Creativity	40	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11, PSO1, PSO2
19	PALS	4/11/2020	Virtual Industrial Visit - ALKYL AMINES CHEMICALS LTD	60	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO11, PSO1, PSO2
20	PALS	31-10-2020	Theory to Practice Lecture - Autonomous Ocean Observation System Newer Opportunities for Engineers	20	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11, PSO1, PSO2
21	PALS	16/10/2020	Virtual industry visit - Swati organics limited	60	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO11, PSO1, PSO2
22	PALS	01-10-2020	Campus Event - EV Component Techno|ogies for 2 & 3 Wheelers	30	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11, PSO1, PSO2
23	PALS	30/09/2020	PALS- Student leader workshop	35	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10, PSO1, PSO2
24	PALS	16/09/2020	Virtual Industry Visit - L&T HYDRO CARBON DIVISION	45	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO11, PSO1, PSO2
25	PALS	11-09-2020	PALS - lnnoWAH! - Innovation and Creativity	35	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11, PSO1, PSO2
26	ICT	20.08.20 to 22.08.20	Team Building and managing	4	PO1,PO2,PO3,PO4,PO5,PO6,PO12
27	ICT	May/June 2020	New India Leranathon	3	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11, PSO1, PSO2

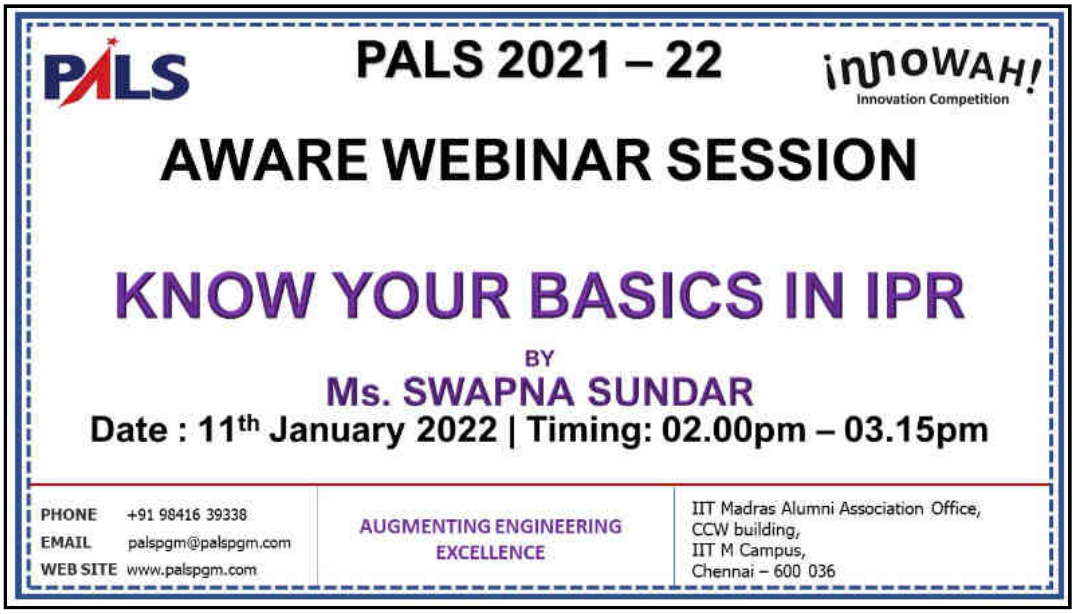


Figure 4.6. Event Organised - PALS.

Table 4.7. List of Events Conducted through Professional Societies for CAYm3 (2019-20).

S.No	Name of Professional Societies/Chapters	Date	Name of the Event	No.of Participants/Attendees	PO's Mapping
1	PALS	20-09-2019	Welcome to Acquire Lectures	35	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
2	PALS	16-11-2019	Education Excellence Summit	43	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
3	PALS	21-01-2020	Welcome to Aspires Lecturer	42	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
4	PALS	23-01-2020	From Product to Project - Design Journey of Standing Wheel Chair	40	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
5	PALS	24-01-2020	Smart Under Water Prbotic Cleaner	38	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
6	PALS	04-02-2020	Theory to Practice Lectures	50	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
7	PALS	05-02-2020	Augmented Reality and Future Technology	39	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
8	PALS	07-02-2020	Block Chain Technology	46	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
9	PALS	20-02-2020	Performance od Student Leaders	44	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
10	PALS	26-02-2020	Innowah Finals and Exihibition	40	PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO11, PSO1, PSO2

11	PALS	23-04-2020	Cares and Shares Virtual Series	42	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
12	PALS	03-05-2020	Cares and Shares Virtual Series - II	40	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
13	PALS	18-05-2020	Online Assessments and Remote Proctoring	44	PO1,PO2,PO3,PO4,PO5,PO6, PSO1, PSO2
14	PALS	18-06-2020	Virtual Sympasia on Digital Simulation for Design and Manufacturing	42	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
15	PALS	27-06-2020	Valediction and Award Ceremony	44	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
16	PALS	Sep. 2020	Aspire VIT 19	40	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
17	PALS	17-20 Dec 2020	Think Create Engineer	40	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2
18	ICT	26 & 27 July 2019	Introduction Python Programming	2	PO1,PO2,PO3,PO4,PO5,PO6,PO11,PO12
19	ICT	14,16 & 17 August 2019	Emotional Intelligence	1	PO1,PO2,PO3,PO4,PO5,PO6,PO11,PO12
20	ICT	05.09.2019	Innowah Q&A Workshop	5	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO10,PO11,PO12, PSO1, PSO2

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

Institute Marks : 5.00

A) QUALITY & RELEVANCE OF THE CONTENTS AND PRINT MATERIAL:

Table 4.8. List of Magazines/NewsLetters.

S.No	Year	Name of the Magazine/Letter	No.of Issues	Hardcopy/Softcopy
1	CAY m1 2021-22	AMSCE VOICE	1	Hardcopy & Softcopy
		AMSCE VOICE	1	Hardcopy & Softcopy
		MECHZ	1	Hardcopy & Softcopy
2	CAYm22020-21	AMSCE VOICE	1	Softcopy
		AMSCE VOICE	2	Softcopy
		MECHZ	1	Softcopy
3	CAYm32019-20	AMSCE VOICE	1	Softcopy
		AMSCE VOICE	1	Hardcopy & Softcopy
		MECHZ	1	Softcopy

Figure 4.7. Newsletter - AMSCE Voice.

B) PARTICIPATION OF STUDENTS FROM THE PROGRAM

Table 4.9. Publication of Magazines/News Letters for past 3 years.

S.No	Technical Magazine/News Letter	Name of the Magazine/Letter	Name of the Chief Editor	Name of the Associate Editor	Volume No/Month	Name of the Student Editor
CAY m1 2021-22						
1	News Letter	AMSCE VOICE	Dr.S.Ram Kumar	Er.Ayaz Ahamed Er.P.Muniraja Chandra	Volume 4 January-June 2022	Mr.Ahmed Riyaz Khan (IV Year) Mr.Ziaul Fayaz (IV Year)

2	News Letter	AMSCE VOICE	Dr.S.Ram Kumar	Er.R.Manikandan Er.P.Muniraja Chandra	Volume 5 June-December 2021	Mr.Tawfeeq Nasar (IV Year) Mr.Muhammad Bilal (IV Year)
3	Magazine	MECHZ	Dr.S.Sathish	Dr.S.Ram Kumar Er.Ayaz Ahamed Er.Abdur Rahman	Volume 3	Mr.R.Hafizullah Khan (IV Year) Mr.U.Mahmooth Nafil (IV Year)
CAY m2 2020-21						
4	News Letter	AMSCE VOICE	Dr.S.Sathish	Er.Abdur Rahman Er.HabeebRahman	Volume 4 January-June 2021	Mr.D.Sriram (IV Year) Mr.S.Rajesh Kanna (IV Year)
5	News Letter	AMSCE VOICE	Dr.S.Sathish	Dr.S.Ram Kumar Er.Ayaz Ahamed	Volume 5 July – December 2020	Mr.S.Syed Tauqeer Ahmed (IV Year) Mr.M.Mohamed Ahnaaf Ali (IV Year)
6	Magazine	MECHZ	Dr.S.Sathish	Dr.S.Ram Kumar Er.Ayaz Ahamed Er.Habeeb Rahman	Volume 2	Mr.M.Abdul Kareem (IV Year) Mr.G.Hariharan (IV Year)
CAY m3 2019-20						
1	News Letter	AMSCE VOICE	Dr.S.Sathish	Dr.Mohd.F.Shabir Er.B.Ashiq	Volume 5 January-June 2020	Mr.S.Mohammed Faraaz (IV Year) Mr.kaashiff ur Rahman (IV Year)
2	News Letter	AMSCE VOICE	Dr.S.Sathish	Dr.Anjan Kumar Sahu Er.C.Senthil Vel	Volume 4 July – December 2019	Mr.Mohammed Saad (IV Year) Mr.K.Monesh (IV Year)
3	Magazine	MECHZ	Dr.S.Sathish	Er.Anjan Kumar Sahu Er.R.Manikandan	Volume 1	Mr.S.Mohammed Faraaz (IV Year) Mr.kaashiff ur Rahman (IV Year)

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

Institute Marks : 10.00

A) EVENTS WITHIN THE STATE:

Table 4.10. List of Students Participated with in the State for CAY 2022-23.

S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	Karthikeyan B	"tHINK cREATE eNGINEER"	PALS	IIT MADARS	Participated
2	Karthikeyan B	Mini Project - "Desighning a System that can Identify Free Parking Space"	PALS	IIT MADARS	Participated
3	Vishwa Hariharan & Crew	Short Film Contest	Anna University	Chennai (Online)	Participated
4	Anees Ahamed K	Short Film Contest	Anna University	Chennai (Online)	Participated
5	Karthikeyan B	BodyBuilding(District Level)	Thiruvallur Amateur Body Building Fedration	Thiruvallur	5th Plcae

Figure 4.8. Participation Certificate -Events with in the State.

Table 4.11. List of Students Participated with in the State for CAY m1 2021-22.

S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	Asmath Shafee	Webinar on Recent trends in Additive Manufacturing Technology	JCT College of Engineering and Technology	Coimbatore (Online Mode)	Participated
2	Naveen Kumar S	Webinar on Recent trends in Additive Manufacturing Technology	JCT College of Engineering and Technology	Coimbatore (Online Mode)	Participated
3	Ziaul Fayaz Z	Webinar on Recent trends in Additive Manufacturing Technology	JCT College of Engineering and Technology	Coimbatore (Online Mode)	Participated
4	Shoaib khan	Webinar on Friction Welding and Allied Process	Arasu engineering College	Kumbakonam (Online Mode)	Participated
5	Mohamed Vaseem	Webinar on Recent trends in automated testing	Sathyabama Institute of science and Technology	Chennai (Online Mode)	Participate

Figure 4.9. Certification of Participation.

Table 4.12. List of Students Participated with in the State for CAY m2 2020-21.

S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	A. Abdullah	International webinar on Oppertunities and Challeneges to fly Canada for Higher studies and Job	Nehru Institute of Engineering & Technology	Coimbatore (Online Mode)	Participated
2	M.Aufiq Hasmi	International webinar on Oppertunities and Challeneges to fly Canada for Higher studies and Job	Nehru Institute of Engineering & Technology	Coimbatore (Online Mode)	Participated
3	G. Karthick	International webinar on Oppertunities and Challeneges to fly Canada for Higher studies and Job	Nehru Institute of Engineering & Technology	Coimbatore (Online Mode)	Participated
4	S.Jaffar Sadiq	International webinar on Oppertunities and Challeneges to fly Canada for Higher studies and Job	Nehru Institute of Engineering & Technology	Coimbatore (Online Mode)	Participated
5	S.Vijay	International webinar on Oppertunities and Challeneges to fly Canada for Higher studies and Job	Nehru Institute of Engineering & Technology	Coimbatore (Online Mode)	Participated

Figure 4.10. Certification of Participation.

Table 4.13. List of Students Participated with in the State for CAY m3 2019-20.

S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	Mohammed Farman H	Vision20/Rover2.0	College Of Engineering	Guindy	First Place
2	Mohammed Farman H	Iyandhiram2020/Rc Racing	Anand Institute Of Higher Education	Chennai	First Place
3	Mohammed Farman H	Yugam2020/Water Rocketry	Kumaraguru Institutions	Coimbatore	First Place
4	Mohammed Zabeur Rahman	Kriya2020/AquaJet	PSG College Of Technology	Coimbatore	First Place
5	Mohammed Farman H	Eclecticbitz2020 / SJCE	St.Joshep College Of Engineering	Chennai	First Place
6	Mohammed Zabeur Rahman	Anokha2020/Hydro PowerRocket	Amrita Institutions	Coimbatore	Second Place
7	Mohammed Farman H	Anokha2020/Hydro PowerRocket	Amrita Institutions	Coimbatore	Third Place
8	Mohammed Zabeur Rahman	Agrona2K20/Aqua Missile	Jeppiaar Institute Of Technology	Chennai	Second Place
9	Mohammed Zabeur Rahman	Agrona2K20/Rc Electric	Jeppiaar Institute Of Technology	Chennai	Third Place
10	Mohammed Zabeur Rahman	Pragyotsav2020/Rc Racing	Eswari Engineering College	Chennai	First Place
11	Mohammed Farman H	Image2020/RoboRace	Knowledge Institute OfTechnology	Salem	First Place
12	Mohammed Farman H	TechnicalPremier League 2.0 / RCMayhem	Prathyusha Engineering College	Chennai	Second Place
13	Mohammed Farman H	EndhiraYugam3.0/Rc Rush	Jaya Engineering College	Chennai	First Place
14	Mohammed Farman H	Pratiyog2020 / Bottle Rocket	Jeppiaar Engineering College	Chennai	First Place
15	Mohammed Zabeur Rahman	Mcmavens19/ Water Rocket	JNN Institute Of Engineering	Chennai	First Place
16	Mohammed Farman H	Techfinix19/Water Rocketry	Paavai Engineering College	Namakkal	Second Place
17	Mohammed Zabeur Rahman	Techfinix19/Water Rocketry	Paavai Engineering College	Namakkal	First Place
18	Mohammed Farman H	Mechgust19/Mr Machinist	Chennai Institute Of Technology	Chennai	Second Place
19	Mohammed Zabeur Rahman	Mechgust19/Mr Machinist	Chennai Institute Of Technology	Chennai	First Place
20	Mohammed Farman H	Hakmech 19 / HydroRocketry	C.Abdul Hakeem College Of Engg &Tech	Vellore	First Place
21	Mohammed Zabeur Rahman	Hakmech 19 / HydroRocketry	C.Abdul Hakeem College Of Engg &Tech	Vellore	Second Place

22	Mohammed Farman H	Maquinas19/ Aqua Missile	RMK College Of Engg &Tech	Chennai	Second Place
23	Mohammed Zabeur Rahman	Maquinas19/RcRace	RMK College Of Engg &Tech	Chennai	Second Place
24	Mohammed Zabeur Rahman	Maquinas19/ Aqua Missile	RMK College Of Engg &Tech	Chennai	First Place
25	Mohammed Farman H	Xcaliber19/RcRce	Sriram Engineering College	Chennai	First Place
26	Mohammed Farman H	Black & White 19 / RcCarRacing	Parisutham Institute Of Engineering& Science	Thanjavur	First Place
27	Mohammed Farman H	Black&White19/WaterRocketry	Parisutham Institute Of Engineering & Science	Thanjavur	First Place
28	Mohammed Zabeur Rahman	Black&White19/WaterRocketry	Parisutham Institute OfEngineering&Science	Thanjavur	Second Place
29	Mohammed Farman H	DiagonalCadd/HydroRocketry	Meenakshi Sundararajan EnggCollege	Chennai	Second Place
30	Mohammed Zabeur Rahman	DiagonalCadd/HydroRocketry	Meenakshi Sundararajan EnggCollege	Chennai	First Place
31	Mohammed Farman H	Torq2K19/Water Rocketry	Loyola-Icam College Of Engg &Tech	Chennai	Second Place
32	Dhanapal M	EscaladePrelims/ RoboticsModule	Techniche	Chennai	First Place
33	Mufees Ahamed S	State level Inter Engineering College Tournament for Men/Women	S.A. Engineering College	Chennai	Winner
34	N. Mohamed Akeef	State level Inter Engineering College Tournament for Men/Women	S.A. Engineering College	Chennai	Winner
35	K. Mohamed Tharick	State level Inter Engineering College Tournament for Men/Women	S.A. Engineering College	chennai	Winner
36	Mufees Ahamed S	Volley Ball Men	VIT Chennai	Chennai	First Place
37	B.Abdul Fashid	Volley Ball Men	VIT Chennai	Chennai	First Place
38	K. Mohamed Tharick	Volley Ball Men	VIT Chennai	Chennai	First Place
39	N. Mohamed Akeef	Volley Ball Men	VIT Chennai	Chennai	First Place
40	B. Farish ahamed	Volley Ball Men	VIT Chennai	Chennai	First Place
41	Mufees Ahamed S	Anna University Zonal Tournaments	T.J.S Engineering College	Chennai	Winner
42	N. Mohamed Akeef	Anna University Zonal Tournaments	T.J.S Engineering College	Chennai	Winner
43	A. Mohammed Arshath	Anna University Zonal Tournaments	Paavai Engineering College	Namakkal	Winner
44	B.Abdul Fashid	Champions of Comrades	Rotract club of AC Tech	Chennai	First

Figure 4.11. Certification of Achievement.

B) EVENTS OUTSIDE THE STATE:

Table 4.14. List of Students participated in inter-institute events for CAY 2022-23.

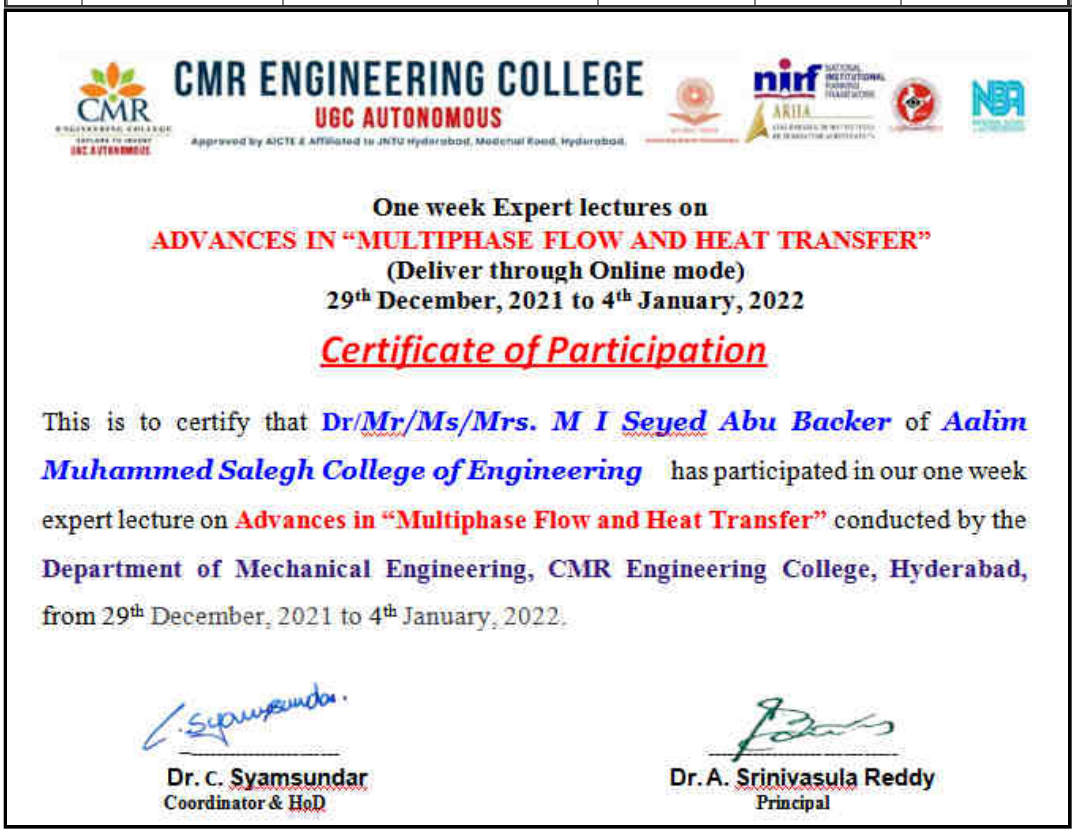
S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	Raiyan A S	Remark Skill Technical Workshop on Artificial Intelligence with Machine Learning	ELAN & ηVision IIT Hyderabad	Hyderabad	Participated
3	Mohamed Thameesudeen A	Remark Skill Technical Workshop on Artificial Intelligence with Machine Learning	ELAN & ηVision IIT Hyderabad	Hyderabad	Participated
4	Mohamed Thameesudeen A	Workshop on Automobile & IC Engine	ELAN & ηVision IIT Hyderabad	Hyderabad	Participated

Figure 4.12. Workshop completeion certificate - Outside the state.

Table 4.15. List of Students participated in inter-institute events for CAY m1 2021-22.

S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	M.I.Seyed Abu Backer	Expert lecture on Advances in Multiphase Flow and Heat Transfer	CMR Engineering College	Hyderabad (Online Mode)	Participated

2	Akash	Expert lecture on Advances in Multiphase Flow and Heat Transfer	CMR Engineering College	Hyderabad (Online Mode)	Participated
3	M.Mohammed Ayaz	International symposium on New Insights in Material and Metallurgy	Mandsaur University	Madya Pradhesh (Online Mode)	Participated
4	Mohammed Ibrahim T	International symposium on New Insights in Material and Metallurgy	Mandsaur University	Madya Pradhesh (Online Mode)	Participated
5	Naveen kumar S	International symposium on New Insights in Material and Metallurgy	Mandsaur University	Madya Pradhesh (Online Mode)	Participated
6	Yuvan Raj S	International symposium on New Insights in Material and Metallurgy	Mandsaur University	Madya Pradhesh (Online Mode)	Participated



CMR ENGINEERING COLLEGE
UGC AUTONOMOUS
Approved by AICTE & Affiliated to JNTU Hyderabad, Medchal Road, Hyderabad.

One week Expert lectures on
ADVANCES IN "MULTIPHASE FLOW AND HEAT TRANSFER"
(Deliver through Online mode)
29th December, 2021 to 4th January, 2022

Certificate of Participation

This is to certify that **Dr/Mr/Ms/Mrs. M I Seyed Abu Backer** of ***Aalim Muhammed Salegh College of Engineering*** has participated in our one week expert lecture on **Advances in "Multiphase Flow and Heat Transfer"** conducted by the **Department of Mechanical Engineering, CMR Engineering College, Hyderabad,** from 29th December, 2021 to 4th January, 2022.

Dr. C. Syamsundar
Coordinator & HoD

Dr. A. Srinivasula Reddy
Principal

Figure 4.13. Certification of Participation.

Table 4.16. List of Students participated in inter-institute events for CAY m2 2020-21.

S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	Abdur Rahim	Two Day National Level Online Workshop on Insightful Rudiments of Originating Google Forms & Generating Certificates	Balaji Institute of Technology & Science	Telangana (Online Mode)	Successfully Completed
2	D. Deva Renil	Two Day National Level Online Workshop on Insightful Rudiments of Originating Google Forms & Generating Certificates	Balaji Institute of Technology & Science	Telangana (Online Mode)	Successfully Completed
3	B.Farish Ahamed	Two Day National Level Online Workshop on Insightful Rudiments of Originating Google Forms & Generating Certificates	Balaji Institute of Technology & Science	Telangana (Online Mode)	Successfully Completed
4	Mohamed Hussain	Two Day National Level Online Workshop on Insightful Rudiments of Originating Google Forms & Generating Certificates	Balaji Institute of Technology & Science	Telangana (Online Mode)	Successfully Completed
5	Ameerudeen	Onlinr Quiz Contest On Renewable Energy and Conservation Energy	Hope Foundations Finolex Academy of Management & Technology	Ratnagiri (Online Mode)	Participated

6	S.M.Syed Mohamed Adil	Onlinr Quiz Contest On Renewable Energy and Conservation Energy	Hope Foundations Finolex Academy of Management & Technology	Ratnagiri (Online Mode)	Participated
7	N.Taufeek	Onlinr Quiz Contest On Renewable Energy and Conservation Energy	Hope Foundations Finolex Academy of Management & Technology	Ratnagiri (Online Mode)	Participated
8	M.Mohamed Abbas	E Quiz on Vocal for Local	MEPSC	New Delhi (Online Mode)	Successfully Completed
9	U.Mahmooth Nafil	E Quiz on Basics of Mechanical Engineering	Vidyavardhaka College of Engineering	Mysore	Successfully Completed
10	Z.Ziaul Fayaz	E Quiz on Basics of Mechanical Engineering	Vidyavardhaka College of Engineering	Mysore	Successfully Completed
11	A.Ahamed Riyaz Khan	Webinar on Virtual Manufacturing Planning	Mandsaur University	Madya Pradhesh	Successfully Completed
12	S.Yuvan Raj	Webinar on Virtual Manufacturing Planning	Mandsaur University	Madya Pradhesh	Successfully Completed

Balaji Institute of Technology & Science

Affiliated to JNTU Hyderabad, Approved by AICTE, New Delhi
Accredited by NBA (UG-CE, ME, ECE, CSE) & NAAC
Certified by ISO 9001-2015,
Laknepally, Narsampet, Warangal Rural-506331, Telangana

Certificate of Participation

ABDUR RAHIM
STUDENT
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

has successfully completed **Two Day National Level Online Workshop on Insightful Rudiments of Originating Google Forms & Generating Certificates- A Horde of Approaches Adaptable for Online Academic Motives on 25 & 26 September, 2020** organized by Department of Humanities & Sciences, **Balaji Institute of Technology & Science**, Narsampet, Warangal Rural, Telangana, India.

COORDINATOR — Mrs. F. Tabassum, Asst. Prof. Mathematics
COORDINATOR — Mr. D. Rayappa, Asst. Prof. English
CONVENER — Dr. V. Narayana, Assoc. Prof & HoD
PRINCIPAL — Dr. V. S. Hariharan

Figure 4.14. Certification of Participation.

Table 4.17. List of Students participated in inter-institute events for CAY m3 2019-20

S.No	Name of the Student	Name of the Event	Organizer	Place	Award
1	Mohammed Farman H	Conscientia2020/ WaterRocket	Indian Institute of Space Science & Tech	Kerala	First Place
2	A.Mohammed Arshath	All India Inter University Boxing Tournament	Samrat Prithviraj Chauhan (PG) College	Baghpat (UP)	Participated
3	Mohammed Farman H	Avega/AquaLauncher	Govt College of Engineering,Kannur	Kerala	Second Place
4	Mohammed Zabeur Rahman	Dyuksha20/Hydro Launch	NSS College of Engineering	kerala	Second Place
5	Mohammed Farman H	Dyuksha20/Hydro Launch	NSS College of Engineering	kerala	First Place
6	Mohammed Farman H	Tathva19/DeathRace	NIT,Calicut	kerala	Second Place

7	Mohammed Farman H	Tathva19/AquaStrike	NIT,Calicut	kerala	Second Place
8	Mohammed Zabeur Rahman	Tathva19/AquaStrike	NIT,Calicut	kerala	First Place
9	Dhanapal M	EscaladePrelims/ RoboticsModule	Techniche	Guwahati	First Place
TEAM POROS					
10	Ajmal T	Rally Car Design Challenge 2019	RCDC Committee	Rajasthan	Participated
11	Sheik Arsath Ahamed		RCDC Committee	Rajasthan	Participated
12	Abdul Fashid B		RCDC Committee	Rajasthan	Participated
13	Muhammad Abdul Wahid K		RCDC Committee	Rajasthan	Participated
14	Kulam.B. Moosa Naina		RCDC Committee	Rajasthan	Participated
15	Syed Ibrahim M		RCDC Committee	Rajasthan	Participated
16	Mohammed Aamir Suhail A		RCDC Committee	Rajasthan	Participated
17	Muhammed Sulaiman A		RCDC Committee	Rajasthan	Participated
18	Shabib Mohamed S		RCDC Committee	Rajasthan	Participated
19	Sha Mohamed Naseerudeen		RCDC Committee	Rajasthan	Participated
20	Bakshi M		RCDC Committee	Rajasthan	Participated
21	Vinod Emmanuel S		RCDC Committee	Rajasthan	Participated
22	Hema Vijay S		RCDC Committee	Rajasthan	Participated
23	Mohammed Arif A		RCDC Committee	Rajasthan	Participated
24	Anees Ahmed N		RCDC Committee	Rajasthan	Participated
25	Aathil Ameen J		RCDC Committee	Rajasthan	Participated
26	Wazil Sherif S		RCDC Committee	Rajasthan	Participated
27	Mohamed Uvaisulkarnee D		RCDC Committee	Rajasthan	Participated
28	Mohamed Shafiq A		RCDC Committee	Rajasthan	Participated
29	Mohammed Nowfel S		RCDC Committee	Rajasthan	Participated
30	Shameer M		RCDC Committee	Rajasthan	Participated
31	Nirmal S		RCDC Committee	Rajasthan	Participated
32	Mehar Ali J		RCDC Committee	Rajasthan	Participated
33	Mohamed Thameemul Ansari S		RCDC Committee	Rajasthan	Participated
34	Kamesh K	Rally Car Design Challenge 2019	RCDC Committee	Rajasthan	Participated
35	Ariff S		RCDC Committee	Rajasthan	Participated
36	Kaleem ullah A		RCDC Committee	Rajasthan	Participated
37	Anwar Ahmed S		RCDC Committee	Rajasthan	Participated
38	Shaheen Ahmed S		RCDC Committee	Rajasthan	Participated

Figure 4.15. Students Participation in RCDC 2019.

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 151.31

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	As Ty
DR. S. SATHISH	CUMPS7839F	ME/M. Tech and PhD	03/09/2011	PRODUCTION ENGINEERING	4	0	0	Professor	01/09/2021	06/07/2011	Re
DR. S. RAMKUMAR	AONPR0829R	ME/M. Tech and PhD	07/11/2020	PRODUCTION ENGINEERING	3	0	0	Assistant Professor		14/08/2015	Re
R.MANIKANDAN	BETPM7461R	M.E/M.Tech	01/06/2011	CAD/CAM	7	0	0	Assistant Professor		09/08/2010	Re
P. MUNI RAJA CHANDRA	APLPP2727B	M.E/M.Tech	02/07/2007	ENERGY MANAGEMENT	3	0	0	Assistant Professor		02/03/2011	Re
M. MOHAMMAD YOUSUF	BMAPM8502N	M.E/M.Tech	02/04/2008	ENGINEERING DESIGN	1	0	0	Assistant Professor		02/07/2012	Re
B. ASHIQ	BFGPA6413K	M.E/M.Tech	02/04/2012	ENGINEERING DESIGN	0	0	0	Assistant Professor		04/12/2012	Re
B. MOHAMED YAHIYA	BCNPM4191A	M.E/M.Tech	01/04/2014	AUTOMOBILE ENGINEERING	1	0	0	Assistant Professor		16/06/2014	Re
S. ABDUR RAHMAN	BRMPA1866Q	M.E/M.Tech	01/04/2014	THERMAL ENGINEERING	1	0	0	Assistant Professor		25/06/2014	Re
T.N. JAFAR ALI	BEDPJ1521F	M.E/M.Tech	01/04/2015	THERMAL ENGINEERING	2	0	0	Assistant Professor		22/07/2015	Re
Mrs. V. RAMYA	AJXPY6826F	M.E/M.Tech	01/09/2009	COMPUTER AIDED DESIGN	0	0	0	Assistant Professor		01/11/2016	Re
E. VIVEKANAND	BRAPV3639L	M.E/M.Tech	02/04/2018	INTERNAL COMBUSTION ENGINEERING	0	0	0	Assistant Professor		02/09/2019	Re
AYAZ AHMED	BBNPA0016K	M.E/M.Tech	01/06/2010	CAD	2	0	0	Assistant Professor		14/02/2011	Re
J. HABEEB RAHMAN	ALDPH0770Q	M.E/M.Tech	01/05/2014	MANUFACTURING ENGINEERING	2	0	0	Assistant Professor		22/09/2014	Re
M. SHEIK MOHAMED	FSDPS5256J	M.E/M.Tech	02/06/2014	THERMAL ENGINEERING	2	0	0	Assistant Professor		11/07/2016	Re
E. JEYABALAN	AZDPJ4841Q	M.E/M.Tech	01/11/2013	INTERNAL COMBUSTION ENGINEERING	0	0	0	Assistant Professor		16/06/2014	Re
DR. MOHD F SHABIR	AAIPF3899E	ME/M. Tech and PhD	01/12/2010	INTERNAL COMBUSTION ENGINEERING	2	0	0	Professor	01/12/2011	01/12/2011	Re
DR. ANJAN KUMAR SAHU	BEXPS6743G	ME/M. Tech and PhD	01/11/2018	THERMAL POWER ENGINEERING	0	0	0	Associate Professor	02/12/2019	09/08/2004	Re
B MOHAMED ABBAS	BETPM7462N	M.E/M.Tech	01/04/2005	CAD/CAM	1	0	0	Assistant Professor		03/05/2010	Re
C. SENTHILVEL	BCOPK3535K	M.E/M.Tech	01/04/2010	MECHATRONICS	0	0	0	Assistant Professor		01/07/2011	Re
E. JEYABALAN	AZDPJ4841Q	M.E/M.Tech	01/11/2013	INTERNAL COMBUSTION ENGINEERING	0	0	0	Assistant Professor		01/07/2022	Co
S.K. SAUVIK HOSSAIN	BMMPH3244N	M.E/M.Tech	01/04/2021	CAD/CAM	0	0	0	Assistant Professor		01/07/2021	Re

5.1 Student-Faculty Ratio (20)

Total Marks 10.00

Institute Marks : 10.00

UG

No. of UG Programs in the Department 1

MECHANICAL ENGINEERING						
Year of Study	**CAY (2022-23)**		**CAYm1 (2021-22)**		**CAYm2 (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	60	17	60	36	120	15
3rd Year	60	36	120	15	120	12
4th Year	120	15	120	12	120	23
Sub-Total	**240**	**68**	**300**	**63**	**360**	**50**
Total	**308**		**363**		**410**	

Grand Total	308	363	410

PG

No. of PG Programs in the Department 0

Grand Total			

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 0

Description	**CAY(2022-23)**	**CAYm1 (2021-22)**	**CAYm2 (2020-21)**
Total No. of Students in the Department(S)	308 **Sum total of all (UG+PG) students**	363 **Sum total of all (UG+PG) students**	410 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	12 **F1**	17 **F2**	18 **F3**
Student Faculty Ratio(SFR)	25.67 **SFR1=S1/F1**	21.35 **SFR2=S2/F2**	22.78 **SFR3=S3/F3**
Average SFR	23.27 **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)	11	1
CAYm1(2021-22)	17	0
CAYm2(2020-21)	18	0

Average SFR for three assessment years : 23.27

Assessment SFR : 10

5.2 Faculty Cadre Proportion (25) Total Marks 15.00

Institute Marks : 15.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2022-23)	1.00	1.00	3.00	0.00	10.00	10.00
CAYm1(2021-22)	2.00	2.00	4.00	0.00	12.00	15.00
CAYm2(2020-21)	2.00	1.00	4.00	2.00	13.00	15.00
Average Numbers	1.67	1.33	3.67	0.67	11.67	13.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 15.00

5.3 Faculty Qualification (25)

Total Marks 11.31

Institute Marks : 11.31

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2022-23(CAY)	2	10	15.00	10.00
2021-22(CAYm1)	3	14	18.00	11.94
2020-21(CAYm2)	4	14	20.00	12.00

Average Assessment : 11.31

5.4 Faculty Retention (25)

Total Marks 20.00

Institute Marks : 20.00

Description	2021-22	2022-23
No of Faculty Retained	16	11
Total No of Faculty	18	18
% of Faculty Retained	89	61

Average : 75.00

Assessment Marks : 20.00

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

Total Marks 20.00

Institute Marks : 20.00

Table 5.1. Innovative Teaching Methods.

S.No	Pedagogical Methods
1	On-Site Teaching
2	Case Study Demonstration
3	Google Class Room
4	Seminar / Assignments
5	NPTEL Virtual Class Room
6	Demonstration Through Working Models
7	Demonstration Through Online Videos (Youtube)

A) THE WORK MUST BE MADE AVAILABLE ON INSTITUTE WEBSITE

1. The department web page, a seperate link (https://www.aalimec.ac.in/departments/me/study-material/) for study material with e-Learning resource is provided.
2. Academic course study material resources available on website is free to access.
3. Our faculty members will regularly create video lectures and upload in Youtube website and the link (https://www.youtube.com/@engineertech8250/featured) for the same will be made available in our web page.
4. Study materials will be reviewed and updated according to the curriculum.

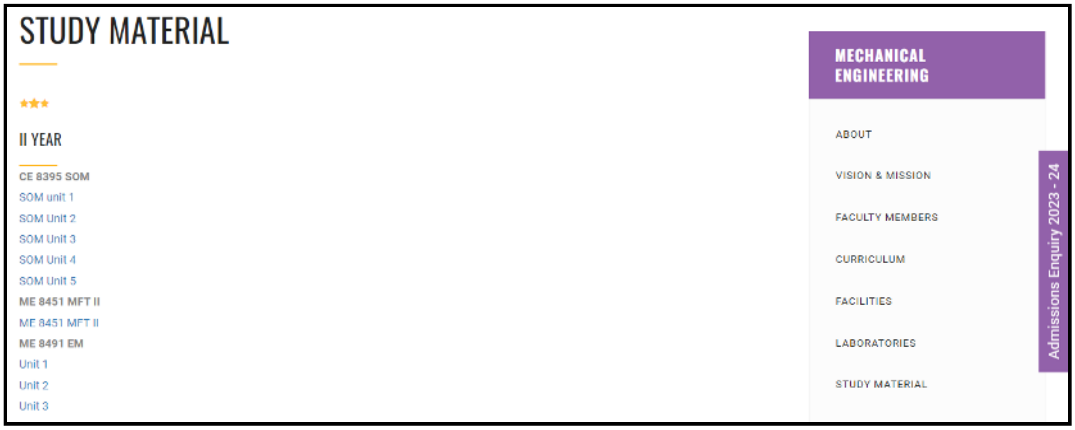


Figure 5.1. Department page with e-Learning materials.

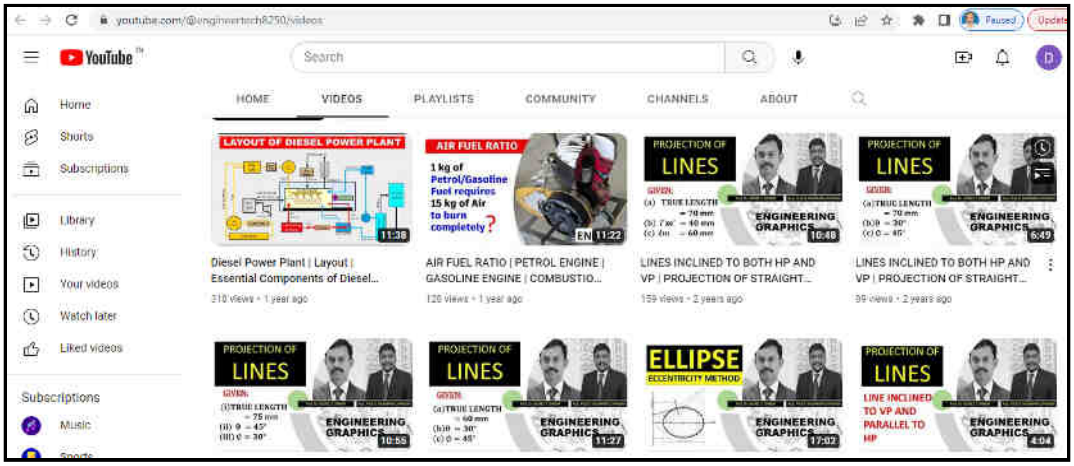


Figure 5.2. Video lectures from faculty members.

B) THE WORK MUST BE AVAILABLE FOR PEER REVIEW AND CRITIQUE

1. A separate link is provided in the department e-Learning webpage to obtain critique and feedback.
2. The video lectures published online will have critique as comments and the quality can be assesed in terms of Likes, Comments and Subscribers.

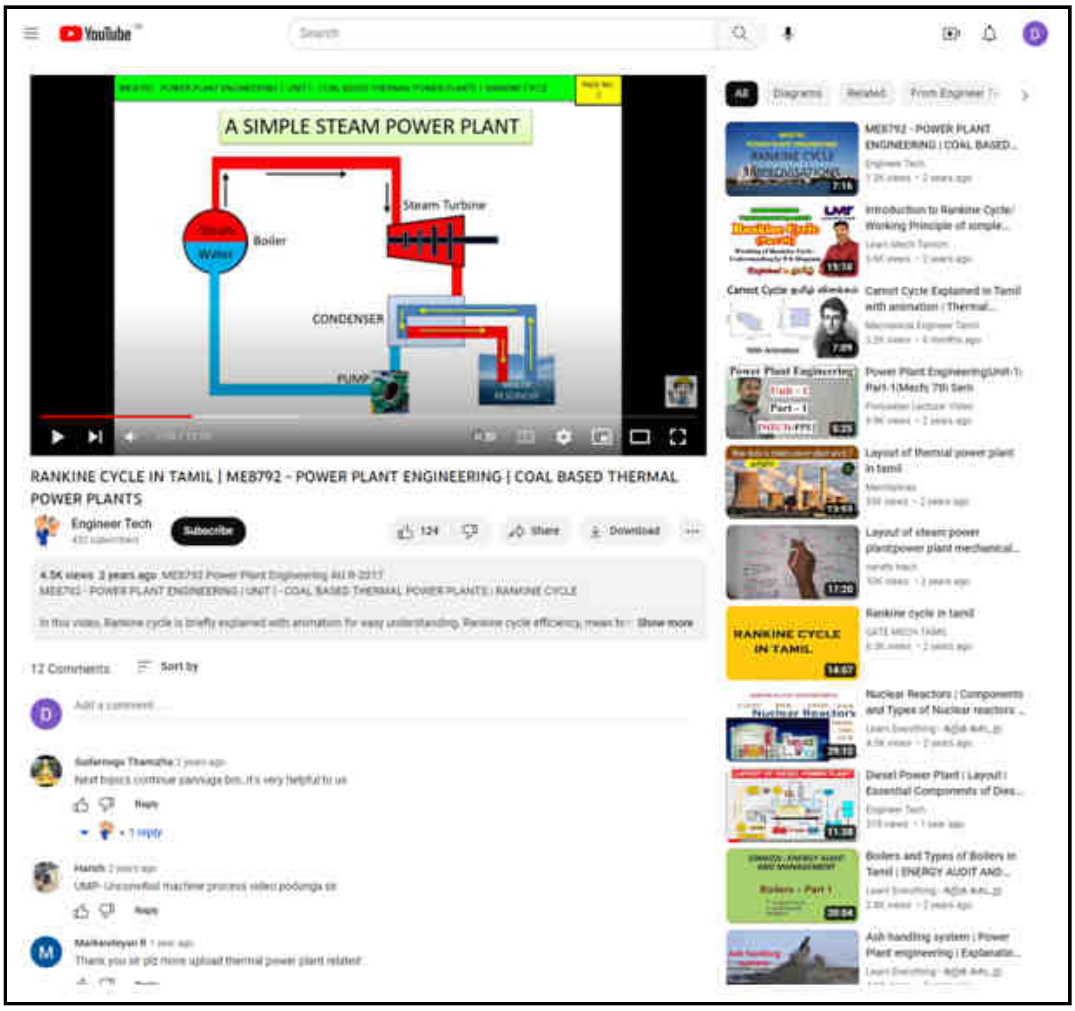


Figure 5.3. Comments and FeedBacks of video lectures.

C) <u>THE WORK MUST BE REPRODUCIBLE AND DEVELOPED FURTHER BY OTHER SCHOLARS</u>

1. The CAD models used for 3D printing is made available in department webpage in .stl file format.
2. All the thesis of the project work will be made available in library and free for any one to access.

3. The physical working models developed inhouse will be displayed in project laboratory and future batches will be provided permission to upgrade it.

Figure 5.4. Upgraded model with Non Conventional Energy Source (Solar).

D) <u>STATEMENT OF CLEAR GOALS, USE OF APPROPRIATE METHODS, SIGNIFICANCE OF RESULTS, EFFECTIVE PRESENTATION AND REFLECTIVE CRITIQUE</u>

1. Continuous improvement of the same project work done in the third year for design and facbrication project to final year project work.
2. 3D printed cross section models of different prisms and pyramids for enhance the understanding of students in Engineering Graphics subject.
3. To enhance the teaching and learning process in a particular course multiple choice questions are given to the students through google form in quiz format that will create competition amoung students and also make them to concentrate more on technical oriented subjected matters.

Figure 5.5. Fabricated Experimental Setup.

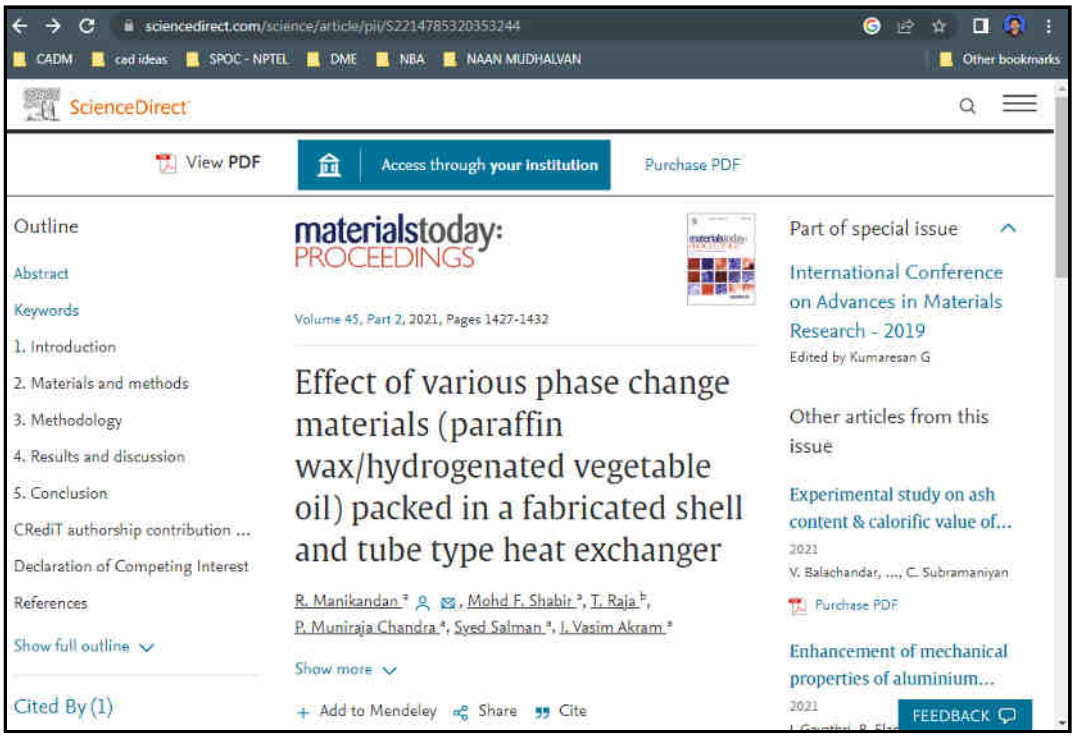


Figure 5.6. Experimental Results Published in Scopus indexed Journal.

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)
S. SATHISH	5.00	5.00	5.00
DR. S. RAMKUMAR	5.00	5.00	5.00
R. MANIKANDAN	5.00	5.00	5.00
P. MUNI RAJA CHANDRA	5.00	5.00	5.00
M. MOHAMMAD YOUSUF	5.00	5.00	5.00
B. ASHIQ	5.00	5.00	5.00
B. MOHAMED YAHIYA	5.00	5.00	5.00
S. ABDUR RAHMAN	5.00	5.00	5.00
T.N. JAFAR ALI	5.00	5.00	5.00
Mrs. V. RAMYA	5.00	5.00	5.00
E. VIVEKANAND	5.00	5.00	5.00
AYAZ AHMED	5.00	5.00	5.00
J. HABEEB RAHMAN	5.00	5.00	5.00
M. SHEIK MOHAMED	5.00	5.00	5.00
E. JEYABALAN	5.00	5.00	5.00
DR. MOHD F SHABIR	5.00	5.00	5.00
DR. ANJAN KUMAR SAHU	0.00	5.00	5.00
B MOHAMED ABBAS	0.00	0.00	5.00
C. SENTHILVEL	0.00	5.00	5.00
E. JEYABALAN	5.00	5.00	5.00
S.K. SAUVIK HOSSAIN	5.00	0.00	0.00
Sum	90.00	95.00	100.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	15.40	18.15	20.50
Assessment [3*(Sum / 0.5RF)]	35.06	31.40	29.27

Average assessment over 3 years: 31.91

5.7 Research and Development (30) Total Marks 20.00

5.7.1 Academic Research (10)

Institute Marks : 10.00

A) NUMBER OF QUALITY PUBLICATIONS IN REFEREED / SCI JOURNALS, CITATIONS, BOOKS / BOOK CHAPTERS ETC

Table 5.2. Faculty member publications.

S.NO	NAME OF THE FACULTY	TITLE OF THE PAPER	LINK	JOURNAL NAME	IMPACT FACTOR	ASSESSMENT YEAR
1	Asst. Prof. R. Manikandan	An investigation on thermo-mechanical characterization of activated carbon/coconut shell powder reinforced natural composites	https://doi.org/10.1177/09544089221132721	Journal of Process Mechanical Engineering (SCI / SCOPUS)	1.822	2022-23
2	Prof. Dr. S. Sathish / Principal	Properties of Plasma Sprayed Al_2O_3-13TiO_2 and ZrO_2 Blended Coatings on Biomedical Alloy	https://doi.org/10.1080/0371750X.2021.1978865	Transactions of the Indian Ceramic Society (SCI)	2.355	2021-22
3	Asst. Prof. R. Manikandan	Tribology Characterization of Plasma Sprayed Zirconia-Alumina and Fused Zirconia-Alumina Composite Coated Al-Si Alloy at Different Sliding Velocity and Load Conditions	https://doi.org/10.1007/s12633-021-01234-w	Silicon (SCI/SCOPUS)	2.941	2021-22
4	Asst. Prof. R. Manikandan	A Study on Mechanical and Morphological Analysis of Banana/Sisal Fiber Reinforced IPN Composites	https://doi.org/10.1007/s12221-021-0917-x	Fibers and Polymers (SCI)	2.347	2020-21
5	Asst. Prof. P. Muniraja Chandra Asst. Prof. R. Manikandan Prof. Dr. Mohd F Shabir	A Study on Developing 3-Dimensional Architecture Array of Solar Park above Railways	https://doi.org/10.1016/j.matpr.2020.11.018	Materials Today Proceedings (SCOPUS)	1.46	2020-21
6	Asst. Prof. R. Manikandan	Experimental analysis of basalt fiber reinforced egg shell/water hyacinth loaded epoxy composites	https://doi.org/10.1016/j.matpr.2020.08.557	Materials Today: Proceedings (SCOPUS)	1.46	2020-21

7	Asst. Prof. P. Muniraja Chandra Asst. Prof. R. Manikandan Prof. Dr. Mohd F Shabir	Effect of Various Phase Change Materials (Paraffin Wax /Hydrogenerated Vegetable Oil) Packed in a Fabricated Shell and Tube type Heat Exchanger	https://doi.org/10.1016/j.matpr.2020.07.231	Materials Today Proceedings (SCOPUS)	1.46	2020-21
8	Asso. Prof. Dr. S. Ramkumar	Experimental Investigation of the Effect of Independent Parameters in the Face MIlling of Aluminium 6082 Alloy	https://doi.org/10.1007/s12666-020-02161-x	Springer (SCI / SCOPUS)	1.391	2020-21
9	Asst. Prof. R. Manikandan	Effect of Cascara/testa natural fiber reinforced (epoxy based) hybrid composites	doi:10.1088/1742-6596/1921/1/012093	Journal of Physics: Conference Series (SCOPUS)	0.48	2020-21
10	Prof. Dr. S. Sathish / Principal	Preparation and characterization of tensile and bending properties of basalt-kenaf reinforced hybrid polymer composites	https://doi.org/10.1080/1023666X.2020.1781480	International Journal of Polymer Analysis and Characterization (SCI)	1.837	2019-20
11	Prof. Dr. S. Sathish / Principal	Effect of laser remelting on the microstructure and mechanical properties of meta inert gas welded low carbon mild steel	http://op.niscair.res.in/index.php/IJEMS/article/view/45968	Indian Journal of Engineering and Material Sciences (SCI / SCOPUS)	0.615	2019-20
12	Asso. Prof. Dr. S. Ramkumar	Selective laser Ablation of CFRP Composite to enhance adhesion bonding	https://doi.org/10.1080/10426914.2019.1644453	Materials and Manufacturing Processes (SCI)	4.783	2019-20
13	Asso. Prof. Dr. S. Ramkumar	Acoustic Emission Based Deep Learning Technique to Predict Adhesive Bond Strength of Laser Processed CFRP Composites	DOI: 10.5937/fme2003611S	FME Transactions (SCOPUS)	1.370	2019-20

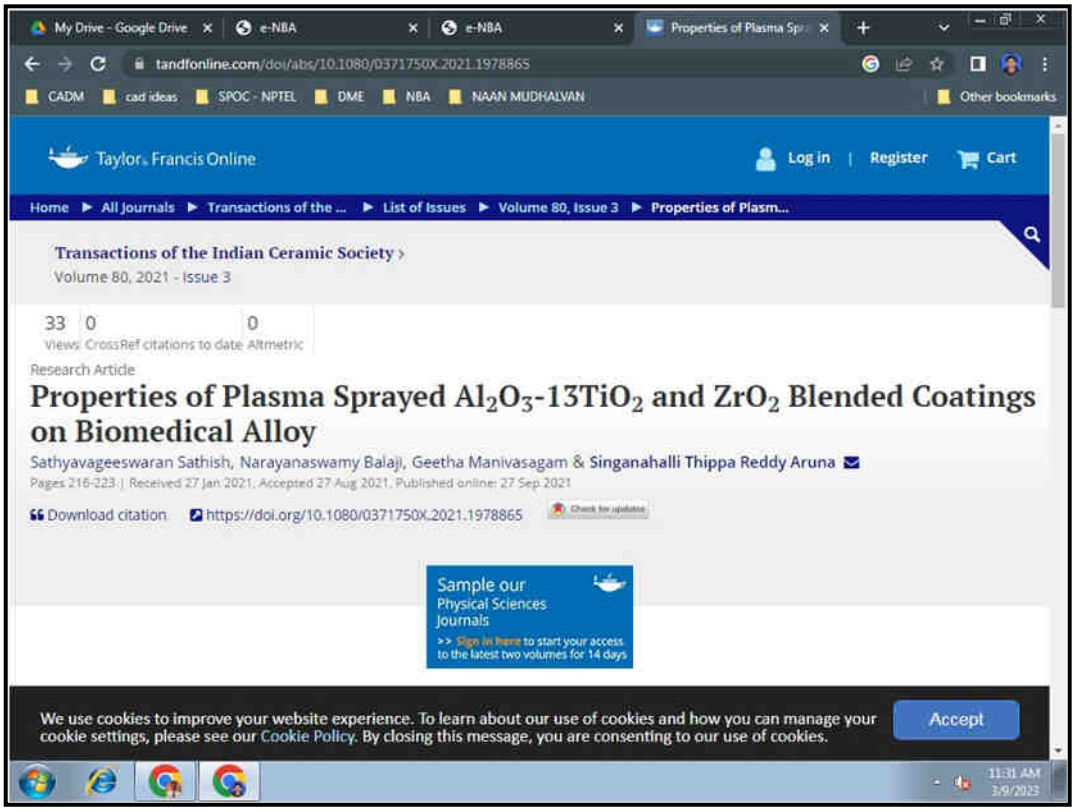


Figure 5.7. Faculty member publication academic year (2021 - 2022).

Figure 5.8. Faculty member publication academic year (2020 - 2021).

5.7.2 Sponsored Research (5) Institute Marks : 0.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount
nil	0	nil	0.00
			Total Amount(X): 0.00

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

5.7.3 Development Activities (10)

Institute Marks : 10.00

A) PRODUCT DEVELOPMENT

The faculty members along with the students developed projects in the following areas as shown in below table

Table 5.3. Products developed.

S.No	Name of the product
1	Safety case for Mobile Phones
2	Skid plate for engine protection
3	HC refrigeration system
4	Compacting apparatus
5	All Terrain Vehicle
6	Solar car
7	Mobile Phone Holders
8	Customized Key chains
9	Scrap collecting movable trolley
10	Human Jaw from CT Scan Data

Figure 5.9. Safety case for mobile phones.

Figure 5.10. Skid plate for engine protection.

Figure 5.11. HC refrigeration system.

COMPACTING APPARATUS

Figure 5.12. Compacting apparatus.

Figure 5.13. All terrain vehicle.

SOLAR CAR

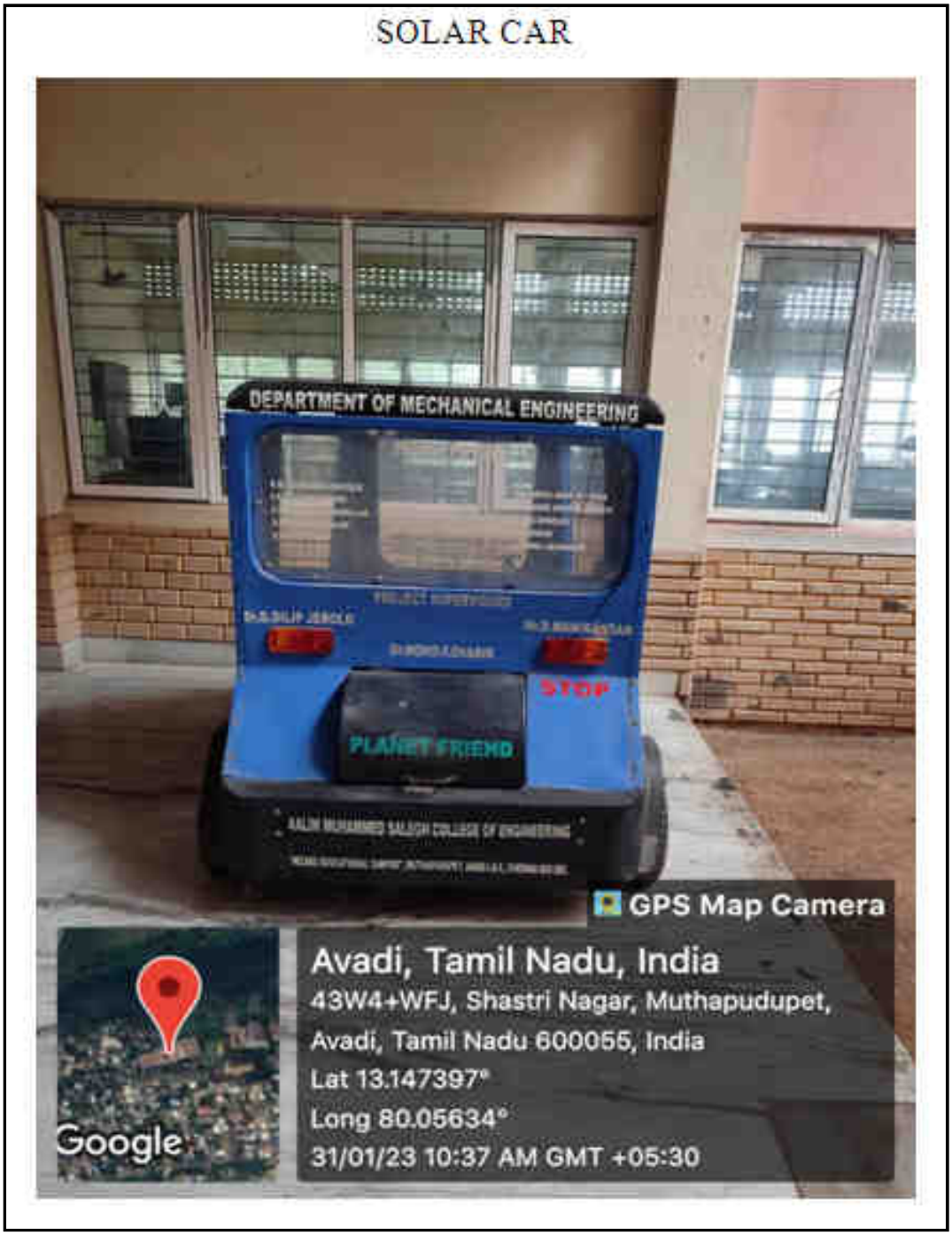


Figure 5.14. Solar car.

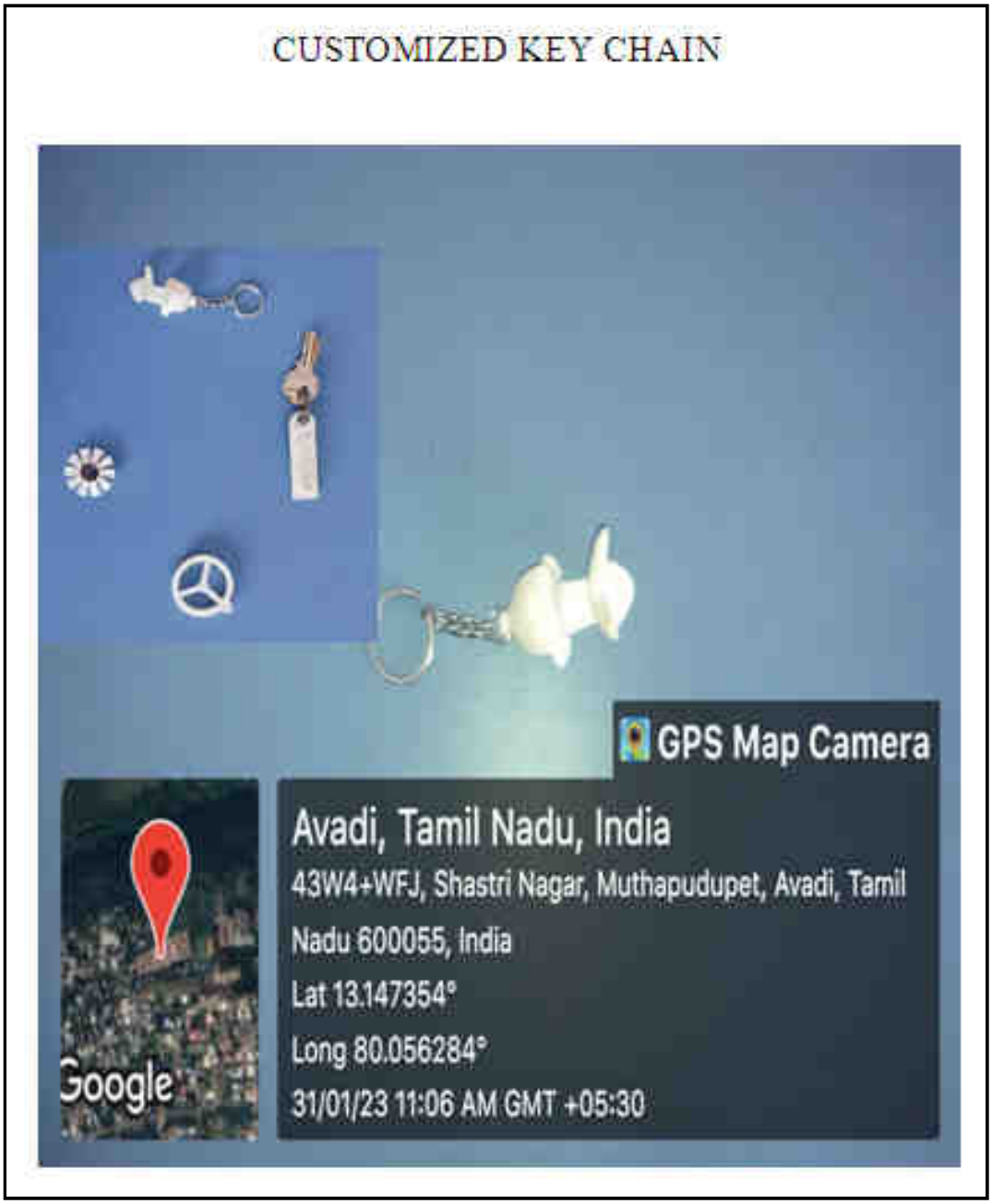


Figure 5.15. Customized key chains.

Figure 5.16. Scrap collecting movable trolly.

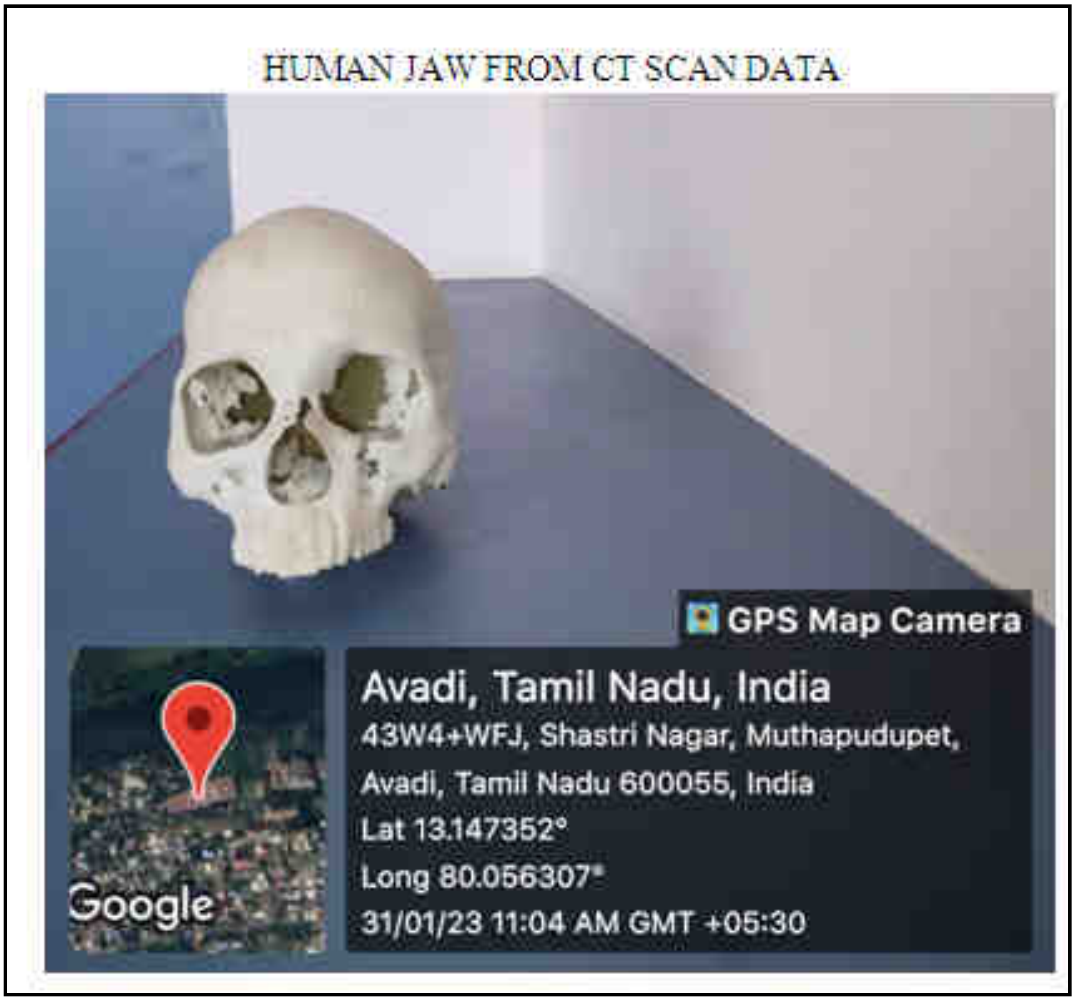


Figure 5.17. Human jaw from CT scan data.

B) RESEARCH LABORATORIES

The details of Research laboratories in the department are shown in the table below

Table 5.4. Research laboratories.

S.No	Name of the Research lab	Faculty Members Name
1	Materials Laboratory	Dr S Ramkumar
2	Project Laboratory	R. Manikandan
3	R & D lab	Dr S Ramkumar

C) INSTRUCTIONS MATERIAL:

1. E-Content Development:

Every subject handled faculty member will provide video instructional material for the subject taught and laboratory conducted by them. Also oriented with the open source books through google drive.

(https://www.aalimec.ac.in/departments/me/study-material/)

Digital library is available in central library where in students can access all kinds of e-journals and books at their leisure.

2. Laboratory Manuals:

All laboratory manuals are developed and updated with the latest experiments by our faculty members are given in the below table

Table 5.5. List of lab manuals.

S.No	Name of the Laboratory	Faculty Member Name
1	Manufacturing Technology Lab I	Mohamed Yahiya B
2	Computer Aided Machine Drawing Lab	E. Vivekanand
3	Manufacturing Technology Lab II	Mohamed Yahiya B
4	Strength of Materials and Fluid Mechanics and Machinery Lab	M Mohammed Yousuf
5	Kinematics and Dynamics Lab	B Ashiq
6	Thermal Engineering Lab	T N Jafar Ali
7	Metrology and Measurements Lab	M. Moahammad Yousuf
8	CAD/CAM Lab	E. Vivekanand
9	Simulation and Analysis Lab	E. Vivekanand
10	Mechatronics Lab	R. Manikandan
11	Engineering Practice Laboratory	P. Muniraja Chandra

D) WORKING MODELS/ CHARTS/ MONOGRAMS:

The details of working models developed by faculty members are given in the below Table

Table 5.6. Working models.

S.No	Name of the Product	Faculty name
1	Shell and Tube Heat exchanger	R Manikandan
2	Hydraulic Trainee Kit	C Senthilvel
3	3D CAD model	M Sheik Mohamed
4	Fluid Flow Modelling	Dr S Ramkumar
5	Simulation of Beam Deflection	Ayaz Ahmed
6	Basic shapes of Engineering Graphics	B Mohamed Yahiya
7	Spiral Coil Heat exchanger setup	T N Jafar Ali
8	Assembly and Dissaambly of 4 Stroke SI Engine Setup	P. Muniraja Chandra

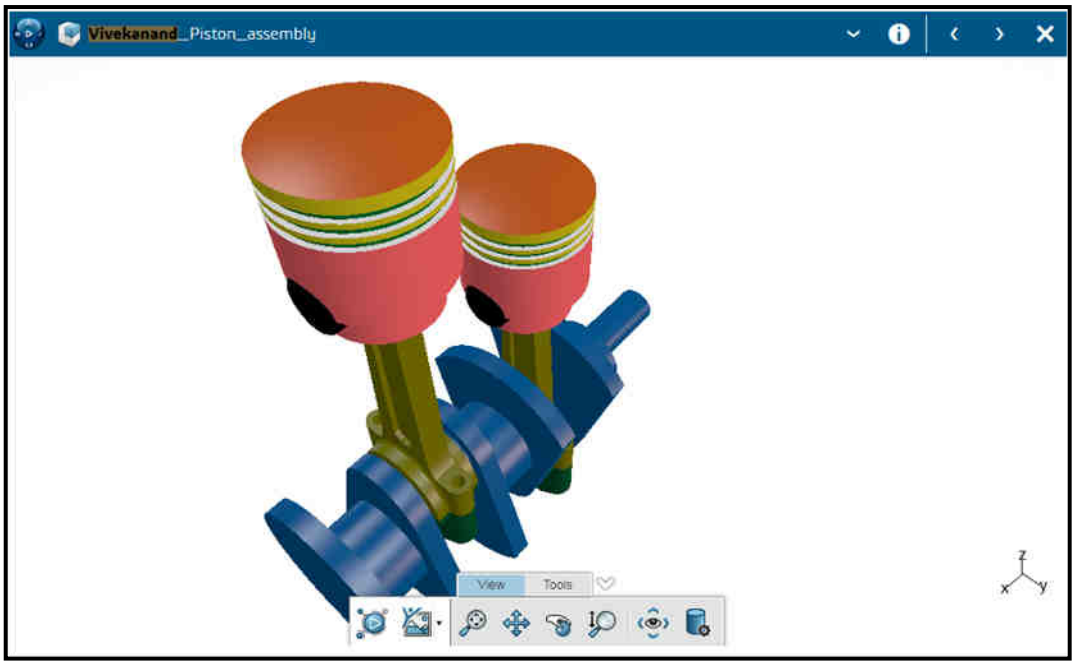


Figure 5.18. 3D CAD model created using 3DEXPERIENCE.

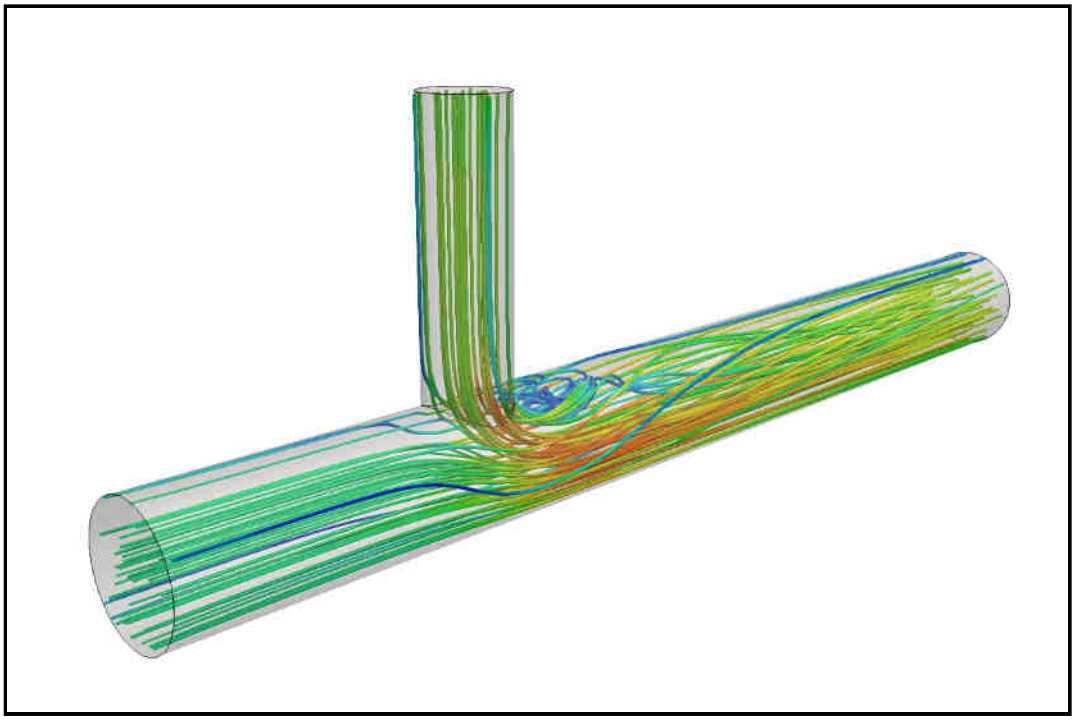


Figure 5.19. Flow simulation of fluid inside a tube using Fluent software.

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

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

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

Institute Marks : 30.00

A) A WELL DEFINED PERFORMANCE APPRAISAL AND DEVELOPMENT SYSTEM INSTITUTED FOR ALL THE ASSESSMENT YEARS

1. At the end of each semester, faculty member will be provided with two forms namely students feedback form and faculty appraisal form.

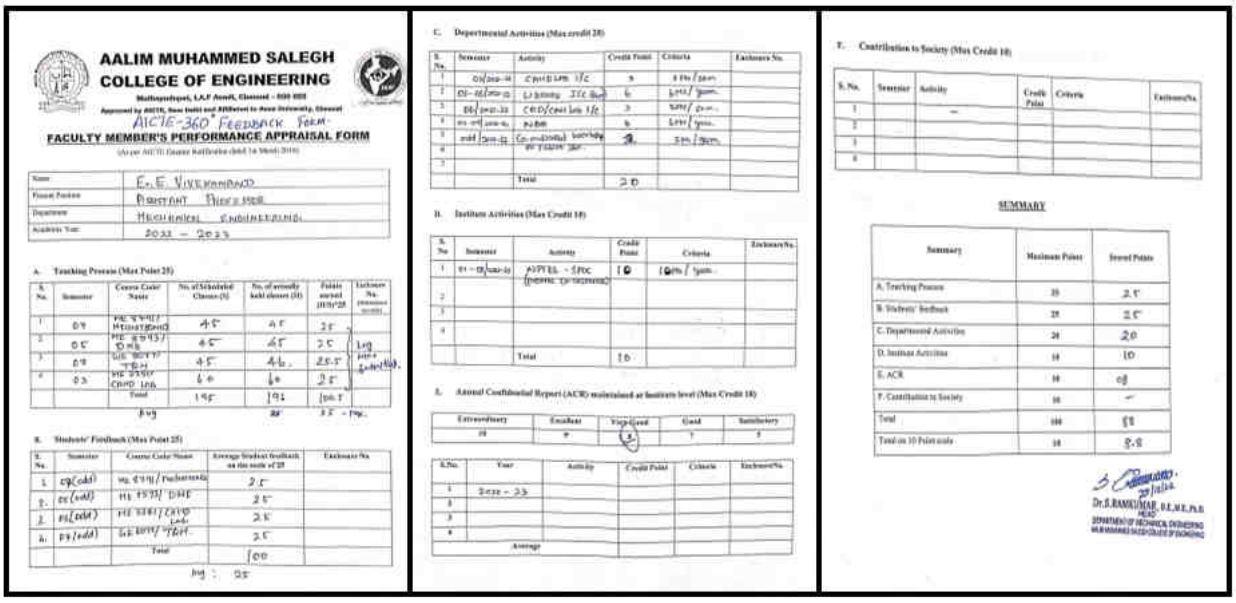
2. At the end of each academic year faculty member will be provided with annual confidentiality report in addition to student feedback form and faculty appraisal form.

3. The Student feedback form will be distributed among the students at the end of the semester after completing the syllabus.

4. The assigned student will collect the form and submit it to the HOD in person to avoid any influence and the details of the student is made optional.

5. The faculty member will submit the filled faculty self appraisal form to the HOD in person.

6. Every faculty member will be assessed in terms of conduct of classes, research and societal activities.


AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

FACULTY MEMBER'S PERFORMANCE APPRAISAL FORM

AICTE-360° Feedback Form

SUMMARY

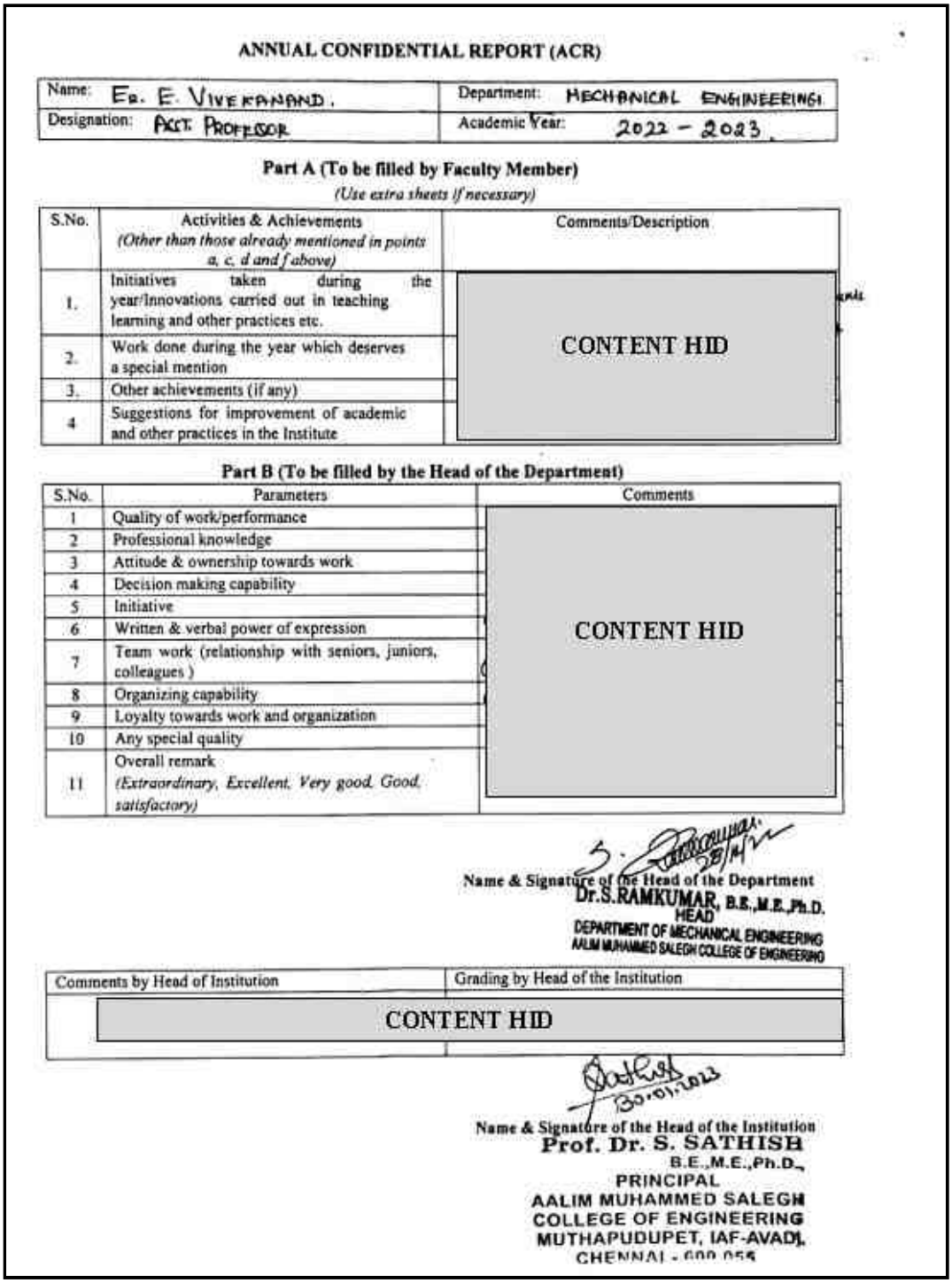
Figure 5.20. AICTE 360^0 Feedback report.

B) ITS IMPLEMENTATION AND EFFECTIVENESS

1. The feedback obtained from the student at the end of the semester, feedback received in class committee meeting and the self appraisal form will be analyzed by the HOD.

2. At the end of every academic year HOD will prepare a annual confidential report (ACR) and submit a comparative analysis to The Principal.

3. ACR will be refered for the purpose of accessing the faculty member performance and promotions.



ANNUAL CONFIDENTIAL REPORT (ACR)

Name: Er. E. VIVEKANAND.	Department: MECHANICAL ENGINEERING
Designation: ASST. PROFESSOR	Academic Year: 2022 - 2023

Part A (To be filled by Faculty Member)

(Use extra sheets if necessary)

S.No.	Activities & Achievements *(Other than those already mentioned in points a, c, d and f above)*	Comments/Description
1.	Initiatives taken during the year/Innovations carried out in teaching learning and other practices etc.	CONTENT HID
2.	Work done during the year which deserves a special mention	
3.	Other achievements (if any)	
4	Suggestions for improvement of academic and other practices in the Institute	

Part B (To be filled by the Head of the Department)

S.No.	Parameters	Comments
1	Quality of work/performance	CONTENT HID
2	Professional knowledge	
3	Attitude & ownership towards work	
4	Decision making capability	
5	Initiative	
6	Written & verbal power of expression	
7	Team work (relationship with seniors, juniors, colleagues)	
8	Organizing capability	
9	Loyalty towards work and organization	
10	Any special quality	
11	Overall remark *(Extraordinary, Excellent, Very good, Good, satisfactory)*	

28/1/23

Name & Signature of the Head of the Department
Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Comments by Head of Institution	Grading by Head of the Institution
CONTENT HID	

30.01.2023

Name & Signature of the Head of the Institution
Prof. Dr. S. SATHISH
B.E.,M.E.,Ph.D.,
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
MUTHAPUDUPET, IAF-AVADI,
CHENNAI - 600 055

Figure 5.21. Annual confidential report.

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

Institute Marks : 10.00

1. Dr.Junaid Basha
   Retired Scientist
   DRDO

2. Er. Manisekar
   CEO
   AKS Engineering,
   Ambattur, Chennai.

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	Engineering Practice Laboratory	30	1.Center lathe 2.Arc welding setup 3.Bench drilling machine 4.Hand shearing machine 5.Bench grinding machine 6.Power tools	BE & B.TECH- I-Year, II SEMESTER	T. HARUN	Lab Instructor	Diploma in Mechanical engineering
2	Computer Aided Machine Drawing Laboratory	50	1.Server- HP Proliant ML 150 HP Z230-Core i5-2Gb Graphics-4Gb RAM	BE-MECHANICAL, II-YEAR / III-SEMESTER and BE-CIVIL, II-YEAR / III-SEMESTER	A.NIZAMUDEEN	System Admin	Diploma in Computer Engineering,B.C.A
3	Manufacturing Technology Laboratory-I	30	1.Center lathe 2.Cylindrical grinding machine 3.Shaper machine 4.Horizontal milling machine 5.Surface grinding machine	BE-MECHANICAL, II-YEAR / III-SEMESTER	R.MOHAN BABU	Lab Instructor	I.T.I in Fitter
4	Manufacturing Technology Laboratory-II	30	1.Capstan lathe 2.Turret lathe 3.Centerless grinding machine 4.Tool and cutter grinder 5.Bench grinding machine 6.Radial drilling machine 7.Vertical milling machine 8.Gear hobbing machine	BE-MECHANICAL, III-YEAR / IV-SEMESTER	R.MOHAN BABU	Lab Instructor	I.T.I in Fitter
5	Kinematics & Dynamics Laboratory	30	1.Universal governor setup 2.Vibrating table 3.Cam analyser 4.Dynamic balancing machine 5.Whirling of shaft apparatus 6.Motorized gyroscope 7.Two rotor vibrating setup 8.Spring mass vibrating setup 9.Torsional vibration of single rotor system setup 10.Gear models 11.Kinematic models 12.Turn table apparatus 13.Transverse vibration setup	BE-MECHANICAL, III-YEAR / VI-SEMESTER	K.SELVI	Lab Instructor	Diploma in Mechanical engineering
6	Thermal Engineering Laboratory I	30	1.Single cylinder 2.Petrol engine 3.Single cylinder 4.Diesel engine with electrical loading 5.Single cylinder diesel engine with hydraulic loading 6.Single cylinder diesel engine with mechanical loading 7.Multi cylinder petrol engine 8.Boiler with steam turbine and generator 9.Two stroke petrol engine model 10.Four stroke petrol engine model 11.Open and Closed cup apparatus	BE-MECHANICAL, II-YEAR / IV-SEMESTER	S.PARTHASARATHY	Lab Instructor	Diploma in Mechanical engineering
7	Thermal Engineering Laboratory II	30	1.Pin fin apparatus Composite wall apparatus 2.Refrigeration test rig 3.HC refrigeration test rig 4.Air conditioning rig 5.Stefan-boltzmann apparatus 6.Emissivity measurement apparatus 7.Guarded plate apparatus 8.Lagged pipe apparatus 9.Parallel and Counterflow Heat exchanger 10.Reciprocating air compressor 11.Thermal conductivity of insulating powder apparatus 12.Natural-convection vertical cylinder apparatus 13.Forced-convection inner tube apparatus	BE-MECHANICAL, III-YEAR / V-SEMESTER	S.PARTHASARATHY	Lab Instructor	Diploma in Mechanical engineering
8	Metrology & Measurement Laboratory	30	1.Micrometer 2.Vernier caliper setup 3.Slip gauge set 4.Autocollimator 5.Bore gauge 6.Telescope gauge 7.Floating carriage micrometer 8.Sine bar 9.Tool makers microscope 10.Profile projector 11.Comparator setup 12.Coordinate measuring machine 13.Surface finish measuring equipment	BE-MECHANICAL, III-YEAR / V-SEMESTER	S.SYED MUNAWAR HUSSAIN	Lab Instructor	I.T.I in Fitter

9	CAD/CAM laboratory	50	1.Server- HP Proliant ML 10 2.CNC lathe 3.CNC milling machine	BE-MECHANICAL, III-YEAR / VI-SEMESTER	A.NIZAMUDEEN	System Admin	Diploma in Computer Engineering,B.C.A
10	Simulation & Analysis Laboratory	30	1.Server- HP Proliant ML 150 HP Z230-Core i5-2Gb Graphics-4Gb RAM	BE-MECHANICAL, IV-YEAR / VII-SEMESTER	A.NIZAMUDDIN	System Admin	Diploma in Computer Engineering,B.C.A
11	Mechatronics Laboratory	30	1.Basic hydraulic and pneumatic trainer kit 2.8051-microcontroller kit with stepper motor 3.Image processing system	BE-MECHANICAL, IV-YEAR / VII-SEMESTER	S.SYED MUNAWAR HUSSAIN	Lab Instructor	I.T.I in Fitter

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	PLOTTER	1.HP designjet 500 mono roll printer 2. length:24 inch	Modern Tool Usage	Ansys Model Printouts	Visual Interpretation on Graphics	PO1,PO3,PO5,PO10,PO11
2	SLOTTING MACHINE	1.stroke:(10-150)mm 2.longitudinal movement:200mm 3.cross movement:110mm 4.ram adjustment:150mm 5.motor:1HP	Design Development of Solutions	Fabrication Work	Manufacturing	PO1,PO2,PO3,PO5,PO9,PO10,PO11,PSO1,PSO2
3	PLANER MACHINE	1.stroke length:4 ½" 2.table length:4'½" 3.table width:24" 4.height under cross rails:30" 5.motor:3HP	To Train Students as per Industrial Standards	Machining Larger Components	Production	PO1,PO2,PO3,PO5,PO9,PO10,PO11,PSO1,PSO2
4	SPOT WELDING MACHINE	Type: Pedal type Spot Welding Machine Max. Capacity : 10 KVA	Thin Sheet Metal Joining	Welding	Solid State Welding	PO1,PO3,PO5,PO9,PO10,PO11,PSO1,PSO2
5	REDWOOD VISCOMETER	Temperature range : 40-50 0C	Fuel / Oil Viscosity Measurements	Alternate Fuels Testing	Academic Research - Engine Testing	PO1,PO3,PO5,PO9,PO10,PO11,PSO1,PSO2
6	SHELL AND TUBE HEAT EXCHANGER	Type: Shell & Tube Medium: Oil, Water, Air	Effectiveness Calculation	Thermal Engineering Lab	Heat Transfer	PO1,PO3,PO5,PO9,PO10,PO11,PSO1,PSO2
7	ASSEMBLY AND DISASSEMBLY OF IC ENGINE	Multi cylinder 4- stroke petrol Car Engine	Engineering Knowledge	Engine Assembly	IC Engine Fundamentals	PO1,PO3,PO5,PO9,PO10,PO11,PSO1,PSO2
8	ADDITIVE MANUFACTURING	3-D PRINTER	Modern Tool Usage	Product Development	Academic Research - Manufacturing	PO1,PO3,PO5,PSO1,PSO2

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

Institute Marks : 10.00

MAINTENANCE AND OVERALL WORKING AMBIENCE

1. Laboratories in the Department are well equipped with Components and tools as per required for conducting experiments given in the syllabus and beyond.

2. CAD - CAM Laboratory, Mechatronics Laboratory, Simulation and Analysis and Computer Aided Machine Drawing Laboratories are provisioned with wall mounted projector & screen for distortion free viewing.

3. CAD - CAM, Mechatronics, Simulation and Analysis and Computer Aided Machine Drawing Laboratories are fully air conditioned.

4. Laboratories are provided with Intercom Telephone Facilities and Fire safety measures.

5. Laboratories are manned with well trained technical supporting staff available during working hours and beyond.

6. Laboratories are naturally well ventilated with wide windows fitted with sound and leak proof UPVC fittings.

7. CAD - CAM and Mechatronics lab windows are cladded with sun control film for better optical comfort.

8. Cushioned Push-back rolling chairs were provided in CAD - CAM and Mechatronics laboratories to make the students fatigue free.

9. A faculty member incharge and a lab instructor are incharge of maintenance & operationability of each lab.

10. Registers are in place to mention and monitor the optimum operationability of lab.

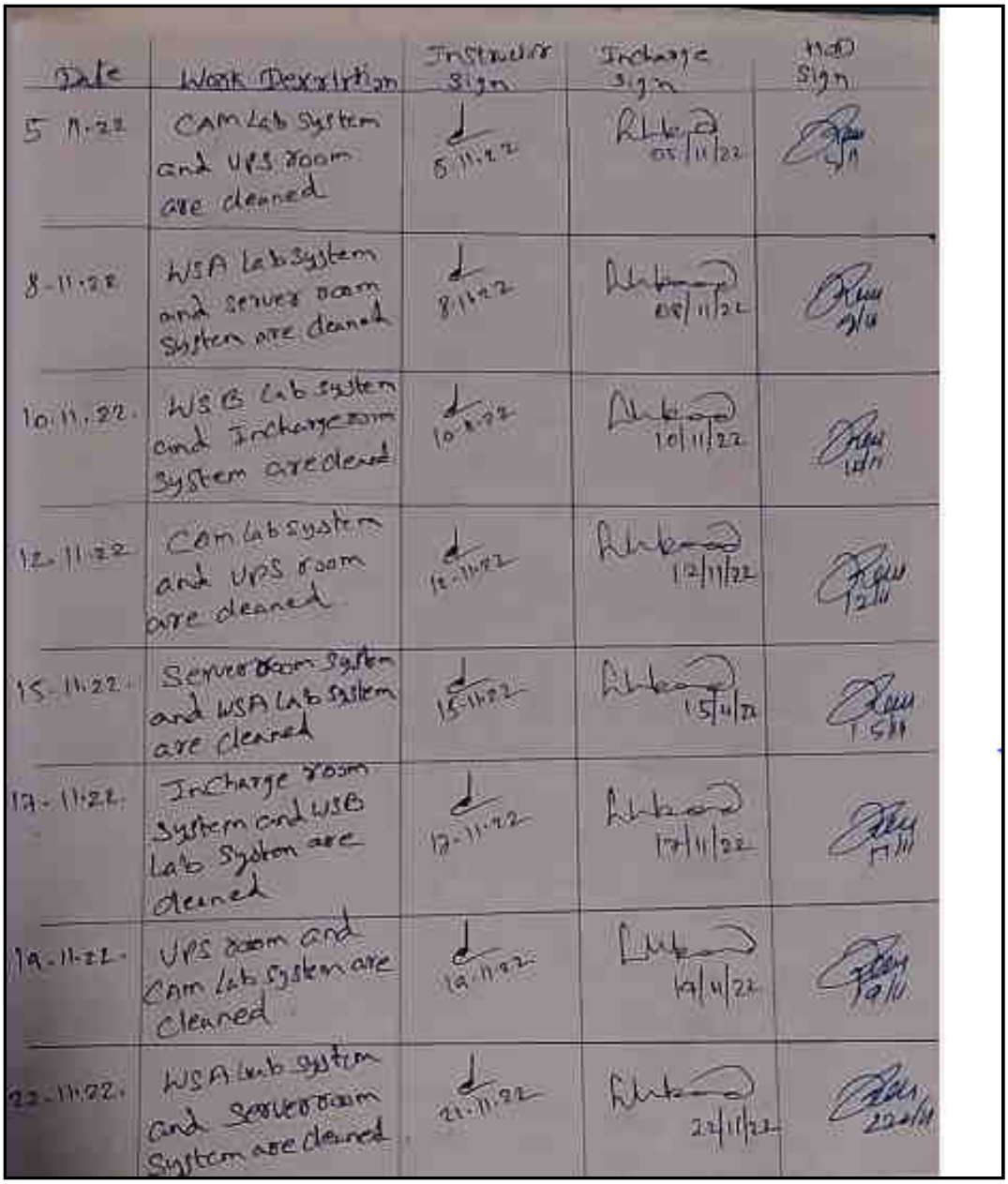
11. Regular check up of equipments were conducted, fitness of the training tools are periodically verified with physical verification in every academic year.

12. Faculty member incharge of inventory are reported to HOD to augment the training support if necessary.

13. A student complaint register is placed and the students are previleged to mention any non operationability. If any where in, it is followed by the technical adminstrator.

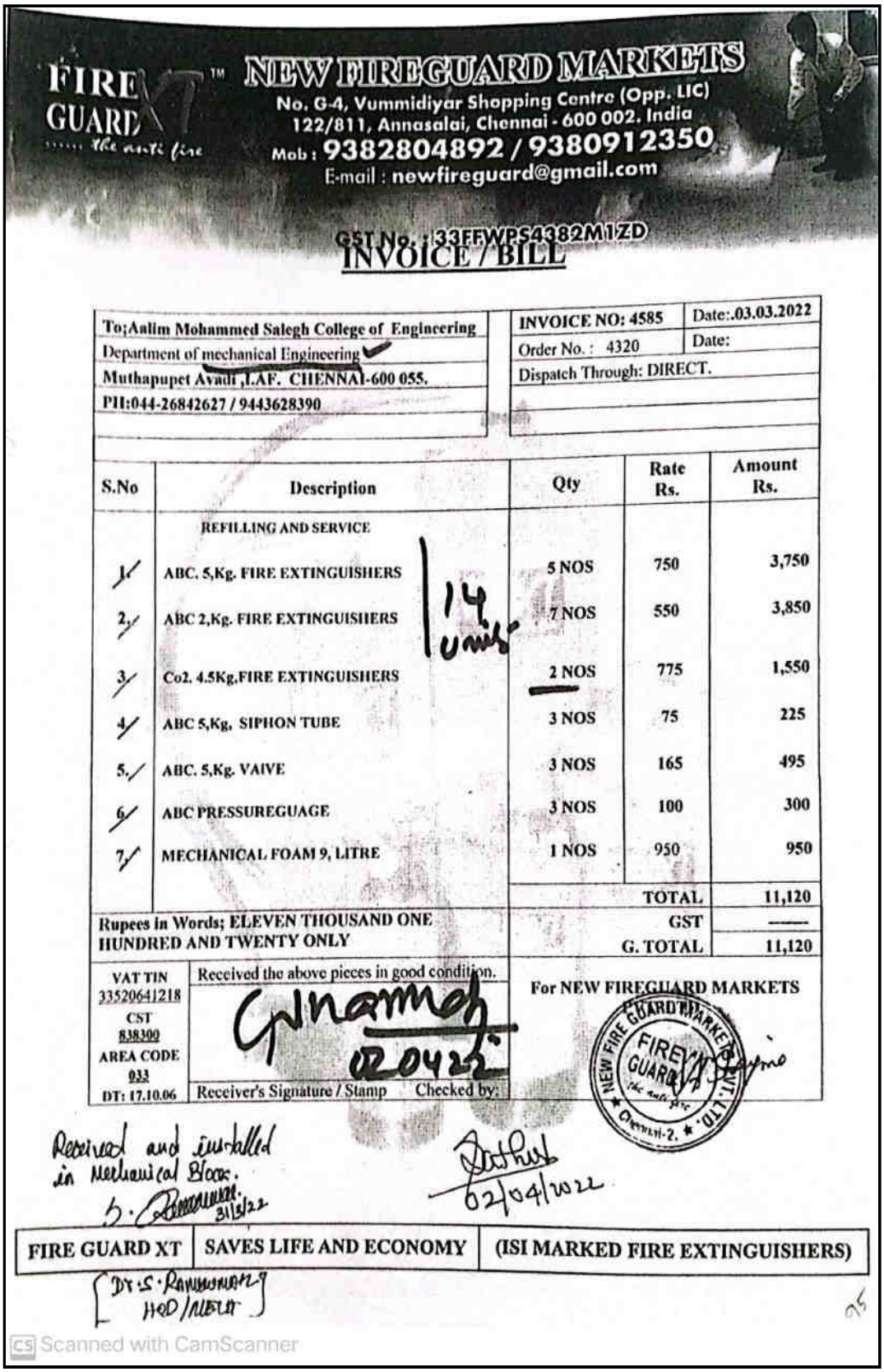
Figure 6.1. Ambience of Manufacturing Technology Laboratory.

Figure 6.2. Ambience of CAD/CAM Laboratory.



Date	Work Description	Instructor Sign	Incharge sign	HOD Sign
5.11.22	CAM Lab System and UPS room are cleaned	5.11.22	05/11/22	
8.11.22	WSA Lab System and server room System are cleaned	8.11.22	08/11/22	
10.11.22	WSB Lab system and Incharge room system are cleaned	10.11.22	10/11/22	
12.11.22	Cam Lab System and UPS room are cleaned	12.11.22	12/11/22	
15.11.22	Server Room System and WSA Lab System are cleaned	15.11.22	15/11/22	
17.11.22	Incharge room System and WSB Lab System are cleaned	17.11.22	17/11/22	
19.11.22	UPS room and Cam Lab System are cleaned	19.11.22	19/11/22	
22.11.22	WSA Lab system and Server room System are cleaned	21.11.22	22/11/22	

Figure 6.3. CAD/CAM Laboratory maintenance register.



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Department of mechanical Engineering	Order No. : 4320 Date:
Muthapupet Avadi ,T.AF. CHENNAI-600 055.	Dispatch Through: DIRECT.
PH:044-26842627 / 9443628390	

S.No	Description	Qty	Rate Rs.	Amount Rs.
	REFILLING AND SERVICE			
1.	ABC. 5,Kg. FIRE EXTINGUISHERS	5 NOS	750	3,750
2.	ABC 2,Kg. FIRE EXTINGUISHERS	7 NOS	550	3,850
3.	Co2. 4.5Kg,FIRE EXTINGUISHERS	2 NOS	775	1,550
4.	ABC 5,Kg, SIPHON TUBE	3 NOS	75	225
5.	ABC. 5,Kg. VAIVE	3 NOS	165	495
6.	ABC PRESSUREGUAGE	3 NOS	100	300
7.	MECHANICAL FOAM 9, LITRE	1 NOS	950	950
			TOTAL	11,120
			GST	———
			G. TOTAL	11,120

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Figure 6.4. Fire extinguisher maintenance.

6.4 Project laboratories (5) Total Marks 5.00

Institute Marks : 5.00

FACILITIES & UTILIZATION

Table 6.1. List of laboratories with details.

S.No	Name of the Laboratory	Name of the Equipments / Software	Purpose	Lab Incharge	Qualification
1	Engineering Practice Laboratory	1.ARC Welding 2.Power Hacksaw 3.Centre Lathe 4.Drilling 5.Bench Grinding 5.Gas Welding 6.Hand Shearing 7.Power Tools	Academic Projects	Asst.Prof. P. Muniraja Chandra	M.Tech.,
2	Manufacturing Technology Laboratory	1. Lathe 2. Milling 3. Shaper 4. Surface Grinding 5. Cylindrical Grinding 6. Drilling 7. Gear Hobbing	Academic Projects	Asst.Prof. B. Mohammed Yahiya	M.E.,
3	Thermal Engineering Laboratory	1. Four Stroke Diesel Engine with Mechanical /Electrical & Hydraulic Loading 2. Multi-cylinder Petrol Engine 3. Single Cylinder Petrol Engine 4. Steam Boiler with turbine (Evaporation Rate: 400kg/hr & Pressure: 10 bar) 5. Reciprocating Air Compressor 6. Refrigeration Test Rig 7. Air-conditioning Test Rig	Academic Projects	Asst.Prof. T.N.Jafar Ali	M.E.,
4	CAD/CAM laboratory	1. CNC Lathe 2. CNC Milling Machine 3. AutoCad Software 4. Creo 3D Modelling Software 5. Autodesk Inventor 3D Modelling Software 6. Fusion 360 3D modelling Software 7. Adequate Computer Workstations	Academic Projects	Asst.Prof. E. Vivekanand	M.E.,
5.	Project laboratory	Display facility - students project fabricated	Academic Projects	Asst.Prof. R. Manikandan	M.E.,
6.	Mechatronics Laboratory	1. Pneumatic Trainer Kit 2. Hydraulic Trainer Kit 3. 8051 - Microcontroller Kit with Stepper Motor & Drive Circuit Set 4. PID Controller 5. PLC Electro Pneumatic Kit 6. Autosim Software 7. 25 numbers of Computers	Academic Projects	Asst.Prof. R. Manikandan	M.E.,
7.	Kinematics & Dynamics Laboratory	1. Cam Follower 2. Governor Apparatus - Watt, Portel, Proel & Hartnell Governors 3. Spring Mass Vibration System 4. Dynamic Balancing Machine	Academic Projects	Asst.Prof. M. Moahammad Yousuf	M.E.,

8.	Metrology & Measurements Laboratory	1. Vernier Height Guage 2. Vernier Depth Guage 3. Slip Guage 4. Floating Carriage Micrometer 5. Comparator 6. AutoCollimator 7. Sine Bar 8. Force / Torque Measuring Instrument 9. Surface Roughness Tester	Academic Projects	Asst.Prof. M. Moahammad Yousuf	M.E.,

Figure 6.5. Safety line marking in Manufacturing Technology Laboratory.

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Engineering Practice Laboratory	1.Safety measure awareness class 2.Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory 3. First Aid Box 4. Fire Safety Extinguishers 5. Hand Gloves 6. Safety Shoes 7. Welding Goggles 8. Hand sanitizer 9. Face mask 10.Social distancing
2	Computer Aided Drafting & Modeling Laboratory	1. Specific Safety Rules in the form of Do's and Don'ts are Displayed in the Laboratory 2. First Aid Box 3. Fire Safety Extinguishers 4. Hand sanitizer 5. Face mask 6. Social distancing
3	Manufacturing Technology Laboratory-I	1.Safety measure awareness class 2.Specific Safety Rules in the form of Do's and Don'ts are displayed in the laboratory 3. First Aid Box 4. Fire Safety Extinguishers 5. Hand sanitizer 6. Face mask 7. Social distancing
4	Manufacturing Technology Laboratory-II	1. Safety measure awareness class 2.Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory 3. First Aid Box 4. Fire Safety Extinguishers 5..Machine protective cover 6. Hand sanitizer 7. Face mask 8. Social distancing
5	Dynamics Laboratory	1. Specific Safety Rules in the form of Do's and Don'ts are Displayed in the Laboratory 2. First Aid Box 3. Fire Safety Extinguishers 4. Hand sanitizer 5. Face mask 6. Social distancing
6	Thermal Engineering Laboratory I	1.Safety measure awareness class 2.Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory 3. First Aid Box 4. Fire Safety Extinguishers 5. Hand sanitizer 6. Face mask 7. Social distancing
7	Thermal Engineering Laboratory II	1.Safety measure awareness class 2.Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory 3. First Aid Box 4. Fire Safety Extinguishers 5. Hand sanitizer 6. Face mask 7. Social distancing
8	Metrology & Measurement Laboratory	1. Specific Safety Rules in the form of Do's and Don'ts are Displayed in the Laboratory 2. First Aid Box 3. Fire Safety Extinguishers 4. Hand sanitizer 5. Face mask 6. Social distancing
9	CAD/CAM laboratory	1. Specific Safety Rules in the form of Do's and Don'ts are Displayed in the Laboratory 2. First Aid Box 3. Fire Safety Extinguishers 4. Hand sanitizer 5. Face mask 6. Social distancing
10	Simulation & Analysis Laboratory	1. Specific Safety Rules in the form of Do's and Don'ts are Displayed in the Laboratory 2. First Aid Box 3. Fire Safety Extinguishers 4. Hand sanitizer 5. Face mask 6. Social distancing
11	Mechatronics Laboratory	1. Specific Safety Rules in the form of Do's and Don'ts are Displayed in the Laboratory 2. First Aid Box 3. Fire Safety Extinguishers 4. Hand sanitizer 5. Face mask 6. Social distancing

7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Total Marks 20.00

Institute Marks : 20.00

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

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.55	2.57	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Engineering Thermodynamics (ME8391) Fluid Mechanics and Machinery (CE8394) Thermal Engineering-I (ME8493) Automobile Engineering (ME8091) Engineering Mechanics (GE8292) Heat and Mass Transfer (ME8693) Manufacturing Technology (ME8361) Finite Element Analysis (ME8692)
ACTIONS: 1. Engineering basics of subject was taught at the beginning of each unit in the syllabus. 2. Selected topics to reinforce the basic engineering knowledge was taught in the laboratory with related equipment. 3. For subjects Finite Element Analysis, Fluid Mechanics and Machinery and Heat and Mass Transfer, Fundamentals of Linear algebra, Integration and Matrices were discussed before starting the syllabus. 4. Mechanical engineering basics was discussed in University Preparatory classes.			
PO 2 : Problem Analysis			
PO 2	2.18	2.35	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Engineering Thermodynamics (ME8391) Manufacturing Technology-I (ME8361) Manufacturing Technology-II (ME8451) Engineering Metallurgy (ME8491) Power Plant Engineering (ME8792) Thermal Engineering-I (ME8493) Design and Fabrication Project (ME8682) Project Work (ME8811)
ACTIONS: 1. One question in each subject was dedicated to simulate real life applications in Internal Examination. 2. Real World Problems are provided as Assignments and Case studies. 3. Third Year Projects and Final Year Projects were approved in recent technologies after the batch of students identified the problem statement after deep analysis.			
PO 3 : Design/development of Solutions			
PO 3	2.18	2.23	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Finite Element Analysis (ME8692) Thermodynamics(ME8391) Thermal Engineering-I(ME8493) Dynamics of Machines(ME8594) Internal Combustion Engineering(OAT552) Power Plant Engineering(ME8792) Process Planning and Cost Estimation(ME8793) Design and Fabrication Project (ME8682) Project Work (ME8811)
ACTIONS: 1. Highest priority provided in product development in third year projects. 2. Students were asked to assessed the environmental impact and personal safety of the project work and made to present during the reviews. 3. Safety and Health advice was provided during zeroth review. 4. Finite Element Analysis subject was taught with the aid of ANSYS-APDL for 2D problems.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.18	2.06	TARGET NOT ATTAINED. Below mentioned subjects are identified for Improving the Attainment Level: Pre-Project Work Project Work (ME8811) Design and Fabrication Project (ME8682) Engineering Thermodynamics(ME8391) Thermal Engineering- I(ME8493) Internal combustion engine(OAT552) Design of Transmission systems(ME8651) Computer Aided Design and Manufacturing(ME8691) Heat and Mass Transfer(ME8693)
ACTIONS: 1. Workshop on Simulation will be conducted periodically. 2. Project reviews are rigorously monitored to improve the quality of the work. 3. Design of Experiments, Optimization Technique and Prototyping to be taught during Pre-Project Work.			
PO 5 : Modern Tool Usage			
PO 5	1.45	1.75	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Manufacturing Technology-II (ME8451) Hydraulics and pneumatics (ME8694) Mechatronics (ME8791) CAD/CAM Laboratory (ME8681)
ACTIONS: 1. 3D Printer was procured and added as an experiment in CAD/CAM Laboratory. 2. Latest Softwares such as 3DEXPERIENCE, Fusion 360, AutoCAD 2023 and Scilab were taught. 3. Workshop on 3D CAD modelling was conducted periodically.			
PO 6 : The Engineer and Society			
PO 6	2.18	1.70	TARGET NOT ATTAINED. Below mentioned subjects are identified for Improving the Attainment Level: Power Plant Engineering(ME8792) Automobile Engineering(ME8091) Manufacturing Technology (ME8361) Thermal Engineering-I(ME8493) Thermal Engineering laboratory(ME8512) Internal Combustion Engine(OAT552) Hydraulics and Pneumatics (ME8694) Design and Fabrication Project(ME8682)
ACTIONS: 1. Arranging more industrial visit for better understand the environmental effect of industry and production. 2. Testing of Materials subject is selected as open elective to make students aware of Engineering Standards and legal issues. 3. Seminars will be provided with case study of industrial accidents to make the students aware of the personal and societal issues.			
PO 7 : Environment and Sustainability			
PO 7	1.45	1.56	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Manufacturing Technology-I (ME8361) Manufacturing Technology-II (ME8451) Power Plant Engineering(ME8792) Thermal Engineering-I(ME8493)

ACTIONS: 1. Awareness about renewable energy was provided as assignments and seminars of Power Plant Engineering subject. 2. Guest lectures was arranged about energy audit and energy conservation. 3. Comparison of Additive manufacturing with traditional manufacturing was performed in Manufacturing Technology-I subject.			
PO 8 : Ethics			
PO 8	1.45	1.39	TARGET NOT ATTAINED. Below mentioned subjects are identified for Improving the Attainment Level: Principles of Management (MG8591) Production Planning and Control (IE8693)
ACTIONS: 1.Alumni talks will be arranged. 2. Guest lectures will be arranged			
PO 9 : Individual and Team Work			
PO 9	1.45	1.62	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Pre-Project Work Project Work (ME8811) Design and Fabrication Project (ME8682)
ACTIONS: 1. Individual student contribution and participation was rigorously assessed in third year and final year projects during reviews. 2. Students are made to participate in preparing and compiling Department Newsletter and Magazine. 3. Students are mandated to organize and manage the Department events like seminars and symposium.			
PO 10 : Communication			
PO 10	1.82	1.54	TARGET NOT ATTAINED. Below mentioned subjects are identified for Improving the Attainment Level: Technical Seminar(ME8712) Advanced Reading and Writing (HS8461)
ACTIONS: 1. IELTS coaching are conducted in Soft Skills Training Program. 2. Seminars are arranged for every subjects. 3. Students are encouraged to participate in conference and seminars conducted in other college.			
PO 11 : Project Management and Finance			
PO 11	1.45	1.70	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Pre-Project Work Project Work (ME8811) Design and Fabrication Project (ME8682) Production Planning and Control (IE8693)
ACTIONS: 1. Importance of budget preparation and work plan was explained with example in Pre-Project work in VII Semester. 2. Adherence to budget and work plan will be monitored in project reviews. 3. Student members are mandated to manage the finance of students events like seminars and symposium.			
PO 12 : Life-long Learning			
PO 12	2.18	2.44	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Design of Machine Elements(ME8593) Metrology and Measurements(ME8501) Internal combustion engine(OAT552) Design of Transmission systems(ME8651) Computer Aided Design and Manufacturing(ME8691) Power Plant Engineering(ME8792) Engineering Metallurgy (ME8491)
ACTIONS: 1. Seminars was arranged periodically to motivate students to pursue higher education. 2. In Engineering Metallurgy subject, application of material coatings and welding metallurgy was taught as content beyond syllabus. 3. In the subjects, Design of Machine Elements, Power Plant Engineering and Design of Transmission systems basics of materials and metallurgy will be discussed before the start of actual syllabus.			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Assess, create, and develop solutions for social and industrial issues by utilizing engineering design principles.			
PSO 1	2.55	2.36	TARGET NOT ATTAINED. Below mentioned subjects are identified for Improving the Attainment Level: Engineering Thermodynamics (ME8391) Fluid Mechanics and Machinery (CE8394) Design of Transmission systems(ME8651) Computer Aided Machine Drawing (ME8381) Manufacturing Technology Laboratory – II (ME8462) Thermal Engineering- II (ME8595) Thermal Engineering Laboratory (ME8512) Metrology and Measurements Laboratory (ME8513) CAD / CAM Laboratory (ME8681)
ACTIONS: 1. More Industrial visits will be arranged to understand industrial issues. 2. Students will be motivated to participate in internships.			
PSO 2 : Utilizing new technologies and modern tools, to develop creative answers for current issues in the manufacturing sector.			
PSO 2	1.82	2.32	TARGET ATTAINED. Below mentioned subjects are identified for Sustaining the Attainment Level: Engineering Thermodynamics(ME8391) Fluid Mechanics and Machinery(CE8394) Manufacturing Technology Laboratory – II(ME8462) Simulation and Analysis Laboratory(ME8711)
ACTIONS: 1. Utilizing latest design and modelling software for laboratory and project work. 2. Workshop and seminars on technological advancement and latest tools were conducted by industrial experts. 3. Upgrading the facilities to match up with technological advancements.			

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

Institute Marks : 10.00

A) ASSESSMENT SHALL BE BASED ON CONDUCT AND ACTIONS TAKEN IN RELATION TO CONTINUOUS IMPROVEMENT

The process consists of internal audits and inter-departmental audits. Audits are conducted for Faculty Members, Laboratories, and departmental activities.

Academic Administration Audit:

The following academic records maintained by faculty members are verified during the academic audit for meaningful outcomes.

1. Calendar of events
2. Competency skills
3. Course File

In addition to the above mentioned parameters, the following parameters are audited for Laboratory probing:

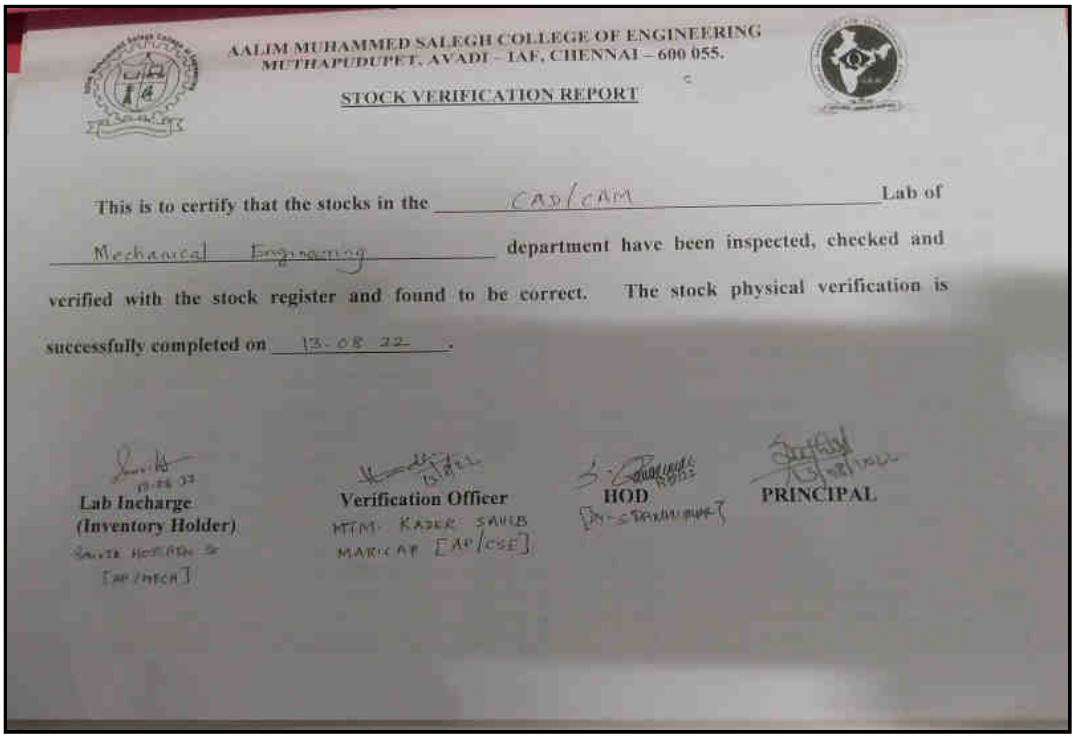
Laboratory Audit:

1. Lab Course File & Manual.
2. Stock Report - Availability of SOP (Standard Operating Procedures).
3. Laboratory Experiment Completion Status Report - Additional Facilities Created, Content Beyond Syllabus.

Academic auditing is done through 3 levels to measure quality as follows.

Table 7.1. Levels of Academic Auditing.

S.No	Name of the Auditing	Level
1	CC	Faculty Members
2	DAC	Department
3	IQAC	Institute


AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
MUTHAPUDUPET, AVADI – IAF, CHENNAI – 600 055.

STOCK VERIFICATION REPORT

This is to certify that the stocks in the CAD/CAM Lab of Mechanical Engineering department have been inspected, checked and verified with the stock register and found to be correct. The stock physical verification is successfully completed on 13.08.22.

Lab Incharge (Inventory Holder)

Verification Officer

HOD

PRINCIPAL

Figure 7.1. Audit certificate for stock and operationability.

Table 7.2. List of events that are conducted to improve attainment of POs and PSOs for CAY (2022-23).

S.No	Gaps Identified	Seminars/ Workshops/ Value added Courses	No. of Hours	Resource Person with designation	No. of Students Attended	Relevance to POs, PSOs
1	Solid Works Essentials	Value Added Courses	40	Mr. M. Sathish, B.E., M.S., (London), Head Technical Training	45	PO1,PO2,PO3,PO4,PO5,PO6, PO9,PO10,PO11,PO12, PSO1, PSO1

2	AMP Career Guidance Seminar: Human Capital Skill Gaps - Industry Ready	Seminar	1.5	Mr. Yahya Rasheed, Global Head - Learning & Development, Business Continuity Planning, head Global delivery Center Chennai,Madurai & Sri Lanka. HCLTech - Digital Workplace Services	25	PO1,PO2,PO3,PO4,PO5,PO6, PO9,PO10,PO11,PO12, PSO1, PSO2
3	AMP Career Guidance Seminar: Drug Abuse - Alarming Rise Prevention and Safe Guards	Seminar	1.5	Dr. Niha Rumaisa, MBBS, MD (Psychiatry) Consultant Psychiatrist at ARK Hospital, Velachery	35	PO1,PO2,PO4,PO5,PO6 ,PO9,PO10,PO12, PSO1, PSO2
4	TANCAM Workshop on Design & Manufacturing, 3D Printing (Metal & Plastic Printing) and AR/VR EXPERIENCE	Workshop	6	Mr. U Om Ezhilan, Student Ambassador, 9841205474,8925012225, Tamil Nadu Centre of Excellance for Advanced Manufacturing(TANCAM), TIDEL Park, Tharamani.	30	PO1,PO2,PO3,PO4,PO5,PO6, PO9,PO10,PO11,PO12, PSO1, PSO2
5	One day Workshop on 3D Printing	Workshop	6	Dr. S. Ramkumar, Er.R.Manikandan, Department of Mechanical Engineering, Aalim Muhammed Salegh College of Engineering.	55	PO1,PO2,PO3,PO4,PO5,PO6, PO9,PO10,PO11,PO12, PSO1, PSO2
6	One day Workshop on 3D Printing	Workshop	6	Dr. S. Ramkumar, Er.R.Manikandan, Department of Mechanical Engineering, Aalim Muhammed Salegh College of Engineering.	49	PO1,PO2,PO3,PO4,PO5,PO6 ,PO9,PO10,PO11,PO12, PSO1, PSO2
7	Webinar on " OCCUPATIONAL HEALTH AND SAFETY"	Workshop	3	Dinesh Moses, Team Lead – TSD Operations, NIST Institute Pvt. Ltd. +91-9150087722.	45	PO1,PO2,PO3,PO4,PO5,PO6, PO9,PO10,PO11,PO12, PSO1, PSO2
8	Online Workshop on "FUSION 360"	Workshop	3	Mr. Aadhi, Technical - USAM Technology Solutions, Chennai	42	PO1,PO2,PO3,PO4,PO5,PO6, PO9,PO10,PO11,PO12, PSO1, PSO2
9	Indusrtial Visit - Rail Museuem	Industrial Visit	6	Mr. SS Jaganathan, Zonal Incharge, South Zone Integral Coach Factory, Perambur	51	PO1,PO2,PO3,PO4,PO5,PO6, PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2
10	Industrial Visit - Diamond Engineering	Industrial Visit	6	Mr. P. Mohanraj, Chairman & Managing Director, Diamond Engineering India Pvt Ltd.	59	PO1,PO2,PO3,PO4,PO5,PO6, PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2
11	Industrial Visit - Neyveli Lignite Corporation Limited	Industrial Visit	6	Mr. Krishnan, Public Relation Department, Neyveli Lignite Corporation Limited, Neyveli	64	PO1,PO2,PO3,PO4,PO5,PO6, PO7,PO8,PO9,PO10,PO11,PO12, PSO1, PSO2

Figure 7.2. Brochure of "AMP Career guidance Seminar" event.

Table 7.3. List of events that are conducted to improve attainment of POs and PSOs for CAYm1 (2021-22).

S.No	Gaps Identified	Seminars / Workshops / Value Added Courses	No. of Hours	Resource Person with Designation	No. of Students Attended	Relevance to POs, PSOs
1	Industrial Engineering – An Overview	Webinar	1	S Amazing Comfortson, Process Executive Manager, Ather Energy Pvt. Ltd, Bengaluru	98	PO1, PO3, PO6, PO7, PO11, PO12, PSO1, PSO2
2	Industrial Design	Seminar	1.30	P.K Venkataramana, Business Head IID	55	PO1, PO2, PO3, PO5, PO11, PSO1, PSO2
3	High Power Compact Powerpack For Military Application	Guest Lecture	3	Dr. S. Krishnakumar, Sr.Technical Officer CVRDE, Avadi, Chennai	350	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PSO1, PSO2
4	The Future of Manufacturing Business: Role of Digital Technologies	NPTEL	48	Prof. R. K. Amit, IIT Madras Prof. U. Chandrasekhar Wipro 3D	3	PO1, PO3, PO4, PO5, PO7, PO8, PO11, PO12, PSO1, PSO2
5	Advances in welding and joining technologies	NPTEL	48	Prof. Swarup Bag, IIT K	1	PO1, PO2, PO3, PO4, PO6, PO7, PO11, PO12, PSO1, PSO2
6	Fundamentals of manufacturing processes	NPTEL	72	Prof. D K Dwivedi, IIT R	6	PO1, PO2, PO3, PO11, PSO1,PSO2

Figure 7.3. Brochure of "Industrial Engineering – An Overview" event.

Table 7.4. List of events that are conducted to improve attainment of POs and PSOs for CAYm2 (2020-21).

S.No	Gaps Identified	Seminars / Workshops / Value Added Courses	No. of Hours	Resource Person with Designation	No. of Students Attended	Relevance to POs, PSOs
1	Materials Joining in Power Sector Present & Future	Webinar	1.30	Dr. K Devakumaran, Manager – Advanced Technology Products, BHEL, Trichy	115	PO1, PO2, PO3, PO8, PO11, PSO1, PSO2
2	Research Perspectives in Ceramic Engineering	Online Seminar	3	Dr. S T Aruna, Senior Principal Scientist CSIR – National Aerospace Laboratories, Bengaluru	55	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
3	Industry 4.0	Webinar	1	C S Swaminathan, Director-Strategic Planning – FMCG Industry, Germany	105	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO11, PO12, PSO1, PSO2

4	Project Funding Through Journal Publications	Webinar	3	Dr. N R Shanker Director, Chase Research and Development Solutions, Chennai	45	PO4, PO5, PO6, PO7, PO8, PO11, PSO1, PSO2
5	Manufacturing Processes - Casting and Joining	NPTEL	24	Dr. Sounak Kumar Choudhury, Department of Mechanical Engineering, IIT Kanpur	4	PO1, PO3, PO5, PO6, PO11, PSO1
6	Manufacturing Process Technology I & II	NPTEL	72	Prof. Shantanu Bhattacharya, Associate Professor, IIT Kanpur	8	PO1, PO3, PO5, PO6, PO11, PO12, PSO1, PSO2
7	Product Design and Development	NPTEL	24	Prof. Inderdeep Singh, IIT Roorkee	8	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO11, PO12, PSO1, PSO2
8	Aircraft Maintenance	NPTEL	24	Prof. A K Ghosh, IIT Kanpur	1	PO1, PO2, PO3, PO5, PO6, PO11, PSO1, PSO2
9	IC Engines and Gas Turbines	NPTEL	72	Prof. Pranab K Mondal, IIT Guwahati Prof. Vinayak N Kulkarni, IIT Guwahati	3	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO11, PO12, PSO1, PSO2
10	Fundamentals of manufacturing processes	NPTEL	72	Prof. D K Dwivedi, IIT Roorkee	3	PO1, PO3, PO5, PO6, PO11, PO12, PSO1, PSO2

Figure 7.4. Brochure of the event.

Table 7.5. List of events that are conducted to improve attainment of POs and PSOs for CAYm3 (2019-20).

S.No	Gaps Identified	Seminars / Workshops / Value added Courses	No. of Hours	Resource Person with designation	No. of Students Attended	Relevance to POs, PSOs
1	Non – Destructive Testing	Guest Lecture	2	K Venkatesh, SMEC Labs, Chennai	65	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO11, PO12, PSO1, PSO2
2	Introduction to Ansys	Guest Lecture	2	Er. Ranjith, Technical Head, i3 Design Technologies, Chennai	60	PO1, PO3, PO5, PO11, PO12, PSO1,PSO2
3	Preparing Research Proposals and Writing Journal Papers	Workshop	2.30	Dr. V Balasubramanian, Professor & Head, Director of CEMAJOR, Annamalai University	45	PO4, PO5, PO6, PO7, PO8, PO11, PSO1, PSO2
4	Manufacturing Automation	NPTEL	24	Prof. Sonuak Kumar Choudhury, IIT Kanpur	5	PO1, PO2, PO3, PO5, PO6, PO11, PSO1, PSO2
5	Introduction to Airplane Performance	NPTEL	48	Prof. A K Ghosh, IIT Kanpur	1	PO1, PO2, PO3, PO5, PO6, PO11, PSO1, PSO2
6	Aircraft Maintenance	NPTEL	24	Prof. A K Ghosh, IIT Kanpur	5	PO1, PO2, PO3, PO5, PO6, PO11, PSO1, PSO2
7	Engineering Mechanics - Statics and Dynamics	NPTEL	48	Prof. Anubhab Roy, IIT Madras	5	PO1, PO2, PO3, PO4, PO12, PSO1
8	Inspection and Quality Control in Manufacturing	NPTEL	24	Prof. Kaushik Pal, IIT Roorkee	4	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO11, PO12, PSO1
9	IC Engines and Gas Turbines	NPTEL	72	Prof. Pranab K Mondal, IIT Guwahati Prof. Vinayak N Kulkarni, IIT Guwahati	43	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO11, PO12, PSO1, PSO2

Figure 7.5. Students practicing the Dye Penetrant Test in Workshop.

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

Institute Marks : 10.00

A) IMPROVEMENT IN PLACEMENT NUMBERS,QUALITY,CORE HIRING INDUSTRY AND PAY PACKAGES

Table 7.6. Placement data for CAYm1(2021-22)

S.NO	NUMBER OF STUDENTS PLACED	PLACEMENT COMPANY	CTC PER ANNUM
1	1	M/s. AURORA INSTITUTE AND INSPECTION SERVICES	1.44 LPA
2	2	M/s. BANGALORE STRATEGIC SOLUTIONS (P) LTD	2.16 LPA
3	3	M/s BOSCH	4.00 LPA
4	1	M/s. BRAKES INDIA (P) LTD.,	1.44 LPA
5	1	M/s. CATERPILLAR	2.30 LPA
6	1	M/s. CONSISTENT ENGINEERING CONSULTANTS	8.04 LPA
7	1	M/s. GOODRICH GASKET (P) LTD	1.98 LPA
8	1	M/S. GREEN COMFORTS HVAC SYSTEMS	1.56 LPA
9	1	M/s. IGARASHI MOTORS INDIA LTD.,	2.07 LPA
10	1	M/s. iTREND SOLUTIONS	1.80 LPA
11	3	M/s. KI MOBILITY SOLUTIONS PVT. LTD.,	1.80 LPA
12	25	M/s. NVH INDIA AUTO PARTS PVT LTD	1.44 LPA
13	1	M/s. ORION ELECTROMECH CONTRACTING INDIA LLP	2.23 LPA
14	1	M/s. PERFECT ENGINEERING SOLUTIONS	3.50 LPA
15	1	M/s. TATA CONSULTANCY SERVICES	3.36 LPA
16	3	M/s. QSPIDER	1.44 LPA
17	1	M/s. WIPRO LTD	3.50 LPA

BANGALORE STRATEGIC SOLUTIONS PRIVATE LIMITED

7th October 2022

Mr. Akash
No. 15, Thiruvalluvar Street, ICF Colony,
Muthapudupet, Avadi, Chennai - 600055.

Subject: Appointment for post of Graduate Engineer Trainee - Purchase.

Dear Mr. Akash,

We are pleased to offer you, the position of Graduate Engineer Trainee - Purchase with **Bangalore Strategic Solutions Pvt. Ltd** on the following terms and conditions:

1. Commencement of employment
Your employment will be effective, as of 7th October 2022.

2. Job title
Your job title will be Graduate Engineer Trainee - Purchase and you will be an employee of BSS deployed at Surin Automotive Private Limited.

3. Salary
Your salary and other benefits will be as set out in Schedule 1, hereto.

4. Place of posting
You will be posted at Surin Automotive Private Limited, 6A, Peenya Industrial Area, Phase-1, Bengaluru, Karnataka 560058. You may however be required to work at any place of business which the Company has or may later acquire.

5. Hours of Work
The normal working days are Monday through Saturday. You will be required to work for such hours as necessary for the proper discharge of your duties to the Company. You are expected to work not less than 9 hours each day, and if necessary, for additional hours depending on your responsibilities.

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

PRINCIPAL

Bangalore Strategic Solutions Pvt. Ltd

Schedule I - Compensation Details

Name of the Employee: Mr. Akash

Designation: Graduate Engineer Trainee - Purchase.

Salary Structure

Basic Salary	1,08,600
House rent allowance	43,440
Fixed Special allowance	19,200
Fixed Special allowance	19,428
Gross Salary	**1,90,668**
PF Contribution	19,140
ESI Contribution	6,192
CTC PA	**2,16,000**

Note: You will receive salary, and all other benefits forming part of your remuneration package subject to, and after, deduction of tax at source in accordance with applicable law.
Salary will be processed on or before the 7th of every month.

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

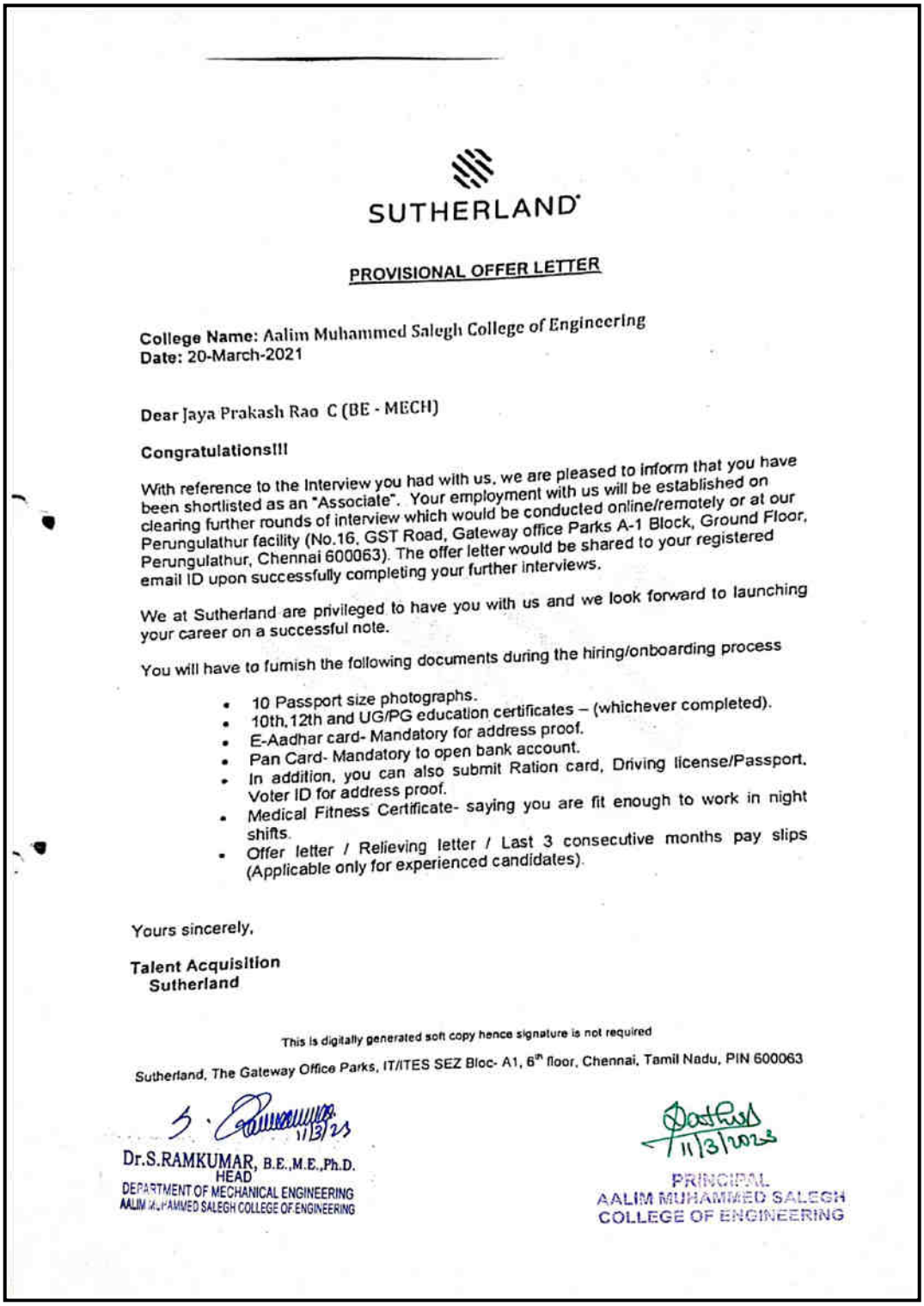
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 7.6. Sample offer attached for the placement of CAYm1 (2021-22)

Table 7.7. Placement data for CAYm2 (2020-21).

S.NO	NUMBER OF STUDENTS PLACED	PLACEMENT COMPANY	CTC PER ANNUM
1	1	M/s. ALLIANZ TECHNOLOGY	3.00 LPA
2	1	M/s. ASM DIGITAL ENGINEERING	3.00 LPA
3	6	M/s. BANGALORE STRATEGIC SOLUTIONS PRIVATE LIMITED	2.16 LPA
4	1	M/s. BUSINESS SOLUTIONS INTERNATIONAL	3.66 LPA
5	1	M/s. CLARITRICS INDIA PRIVATE LIMITED	3.60 LPA
6	2	M/s. CONTROL SERVE ENGINEERING	1.44 LPA
7	1	M/s. CSS CORP PRIVATE LIMITED	1.79 LPA
8	9	M/s. EMAAR VALVES & CONTROLS	1.20 LPA

9	4	M/s. GREEN COMFORTS HVAC SYSTEMS	1.56 LPA
10	2	M/s. INFOSYS LIMITED	3.60 LPA
11	2	KI MOBILITY SOLUTIONS PRIVATE LTD	1.80 LPA
12	1	M/s. LEGGETT & PLATT AUTOMOTIVE INDIA PVT. LTD	1.62 LPA
13	1	M/s. NINGBO YUZHAN PRECISION MOLD CO. LTD	2.76 LPA
14	35	M/s. NVH INDIA AUTO PARTS PVT LTD	1.44LPA
15	1	M/s. OPTIMAL MEP CONSULTANTS	1.20 LPA
16	2	M/s. Qspider	1.44 LPA
17	10	M/s. SUTHERLAND GLOBAL SERVICES	2.50 LPA
18	1	M/s. TATA CONSULTANCY SERVICES LIMITED	3.36 LPA
19	1	M/s. TVS EDUCATIONAL SOCIETY	1.86 LPA



SUTHERLAND

PROVISIONAL OFFER LETTER

College Name: Aalim Muhammed Salegh College of Engineering
Date: 20-March-2021

Dear Jaya Prakash Rao C (BE - MECH)

Congratulations!!!

With reference to the Interview you had with us, we are pleased to inform that you have been shortlisted as an "Associate". Your employment with us will be established on clearing further rounds of interview which would be conducted online/remotely or at our Perungulathur facility (No.16, GST Road, Gateway office Parks A-1 Block, Ground Floor, Perungulathur, Chennai 600063). The offer letter would be shared to your registered email ID upon successfully completing your further interviews.

We at Sutherland are privileged to have you with us and we look forward to launching your career on a successful note.

You will have to furnish the following documents during the hiring/onboarding process

- 10 Passport size photographs.
- 10th,12th and UG/PG education certificates – (whichever completed).
- E-Aadhar card- Mandatory for address proof.
- Pan Card- Mandatory to open bank account.
- In addition, you can also submit Ration card, Driving license/Passport, Voter ID for address proof.
- Medical Fitness Certificate- saying you are fit enough to work in night shifts.
- Offer letter / Relieving letter / Last 3 consecutive months pay slips (Applicable only for experienced candidates).

Yours sincerely,

Talent Acquisition
Sutherland

This is digitally generated soft copy hence signature is not required

Sutherland, The Gateway Office Parks, IT/ITES SEZ Bloc- A1, 6th floor, Chennai, Tamil Nadu, PIN 600063

11/3/23
Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

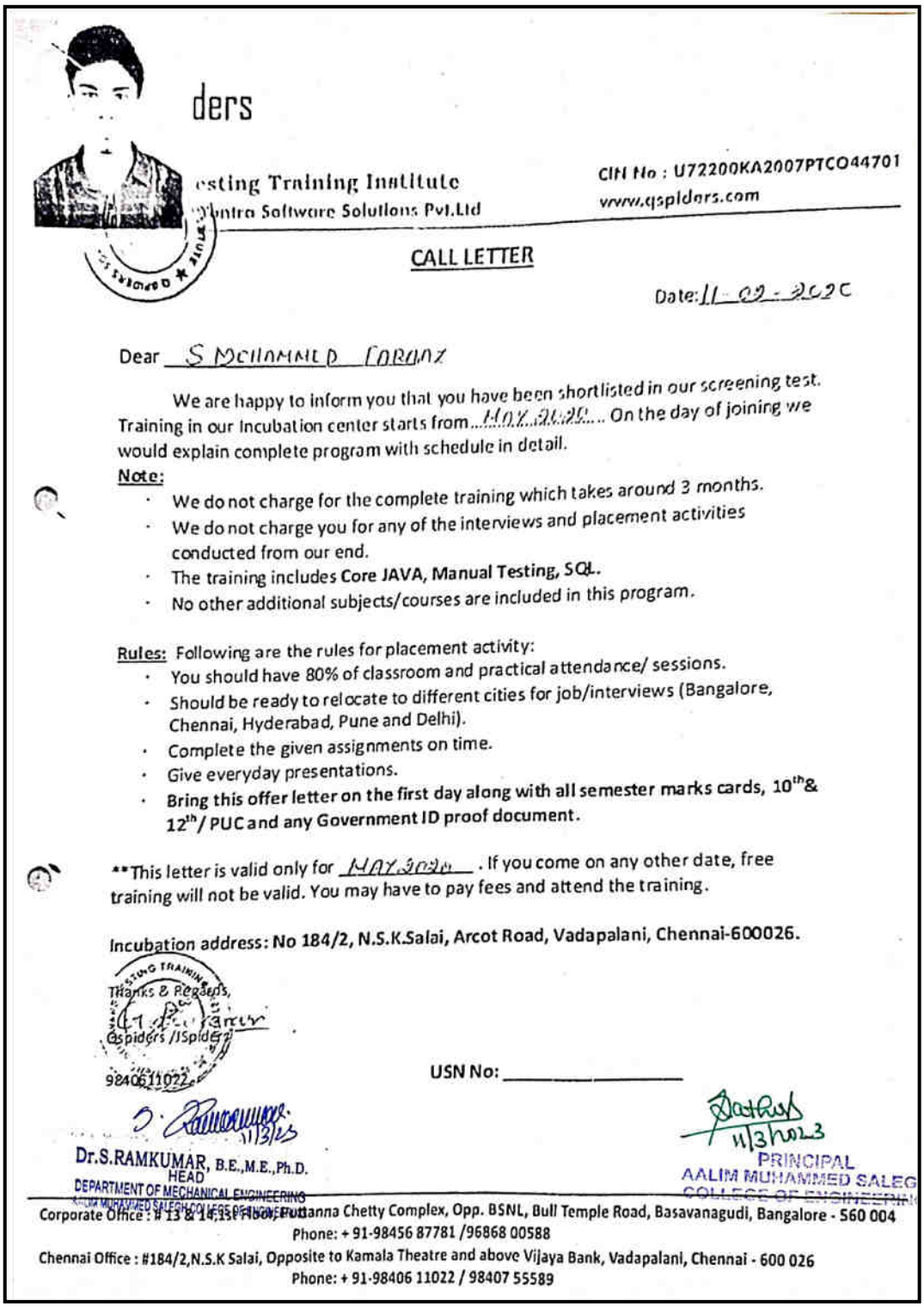
11/3/2023
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 7.7. Sample offer attached for the placement of CAYm2 (2020-21).

Table 7.8. Placement data for CAY m3 (2019-20).

S.NO	NUMBER OF STUDENTS PLACED	PLACEMENT COMPANY	CTC PER ANNUM
1	1	M/s. BEULSTHAN TECHNOLOGIES	1.20 LPA
2	8	M/s. BANGALORE STRATEGIC SOLUTIONS PRIVATE LIMITED	2.16 LPA
3	5	M/s. CloudQ	1.92 LPA
4	7	M/s. CONSISTENT ENGINEERING CONSULTANTS	2.16 LPA
5	8	M/s. DELPHI TVS TECHNOLOGIES	2.16 LPA
6	1	M/s. DOUBTNUT	3.60 LPA

7	9	M/s. EMAAR VALVES & CONTROLS	1.20 LPA
8	6	M/s. GREEN COMFORTS HVAC SYSTEMS	2.16 LPA
9	1	M/s. KH EXPORTS INDIA PRIVATE LIMITED	2.16 LPA
10	11	KI MOBILITY SOLUTIONS PRIVATE LTD	2.16 LPA
11	1	M/s. LTI MINDTREE LIMITED	3.12 LPA
12	14	M/s. NVH INDIA AUTO PARTS PVT LTD	1.44 LPA
13	4	M/s. OPTIMAL MEP CONSULTANTS	1.20 LPA
14	2	M/s. Qspider	1.44 LPA
15	9	M/s. SUTHERLAND GLOBAL SERVICES	2.50 LPA
16	3	M/s. TUBE PRODUCT OF INDIA	2.50 LPA



ders

esting Training Institute
Qontra Software Solutions Pvt.Ltd

CIN No : U72200KA2007PTC044701
www.qspiders.com

CALL LETTER

Date: 11-03-2023

Dear S MOHAMED FARAAZ

We are happy to inform you that you have been shortlisted in our screening test. Training in our Incubation center starts from MAY 2023. On the day of joining we would explain complete program with schedule in detail.

Note:

- We do not charge for the complete training which takes around 3 months.
- We do not charge you for any of the interviews and placement activities conducted from our end.
- The training includes **Core JAVA, Manual Testing, SQL.**
- No other additional subjects/courses are included in this program.

Rules: Following are the rules for placement activity:

- You should have 80% of classroom and practical attendance/ sessions.
- Should be ready to relocate to different cities for job/interviews (Bangalore, Chennai, Hyderabad, Pune and Delhi).
- Complete the given assignments on time.
- Give everyday presentations.
- **Bring this offer letter on the first day along with all semester marks cards, 10th& 12th/ PUC and any Government ID proof document.**

**This letter is valid only for MAY 2023. If you come on any other date, free training will not be valid. You may have to pay fees and attend the training.

Incubation address: No 184/2, N.S.K.Salai, Arcot Road, Vadapalani, Chennai-600026.

Thanks & Regards,
Qspiders /JSpiders
9840611022

USN No: _____

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

11/3/2023
PRINCIPAL
AALIM MUHAMMED SALEG
COLLEGE OF ENGINEERING

Corporate Office : # 13 & 14,1st Floor, Puttanna Chetty Complex, Opp. BSNL, Bull Temple Road, Basavanagudi, Bangalore - 560 004
Phone: + 91-98456 87781 /96868 00588
Chennai Office : #184/2,N.S.K Salai, Opposite to Kamala Theatre and above Vijaya Bank, Vadapalani, Chennai - 600 026
Phone: + 91-98406 11022 / 98407 55589

Figure 7.8. Sample offer attached for the placement of CAYm3 (2019-20).

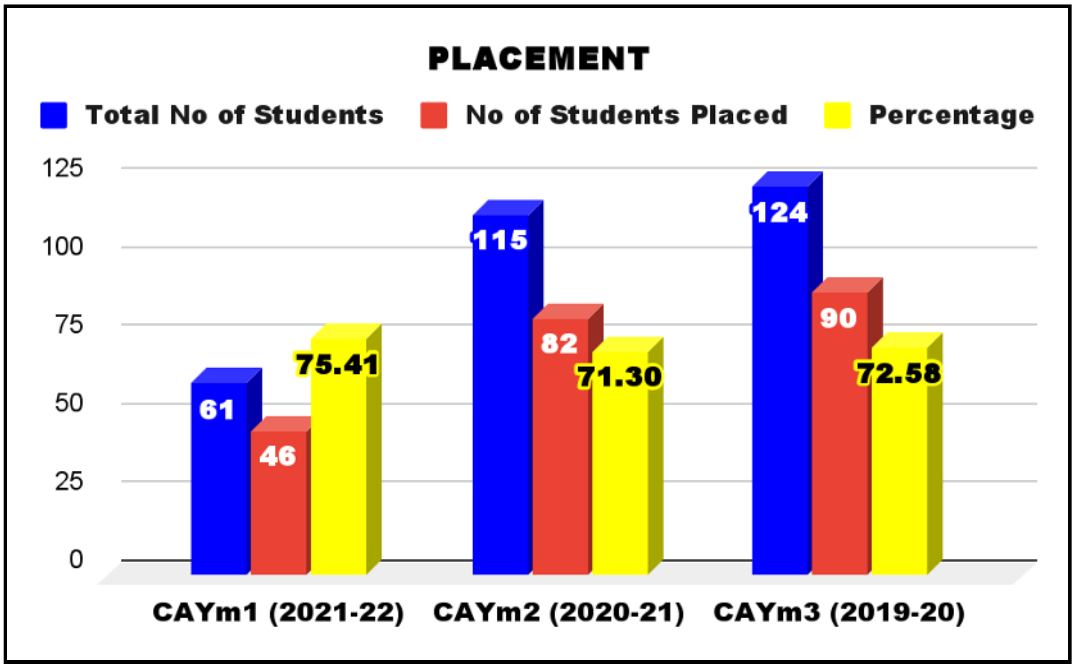


Figure 7.9. Students Strength Vs Number of Students Placed & Percentage of Placement.

B) IMPROVEMENT IN HIGHER STUDIES ADMISSIONS FOR PURSUING PHD, IN PREMIER INSTITUTIONS

Table 7.9. Number of students joined for higher studies for past 3 years.

	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)
Total	61	115	124
Higher Studies	5	2	7
Percentage	8.20	1.74	5.65

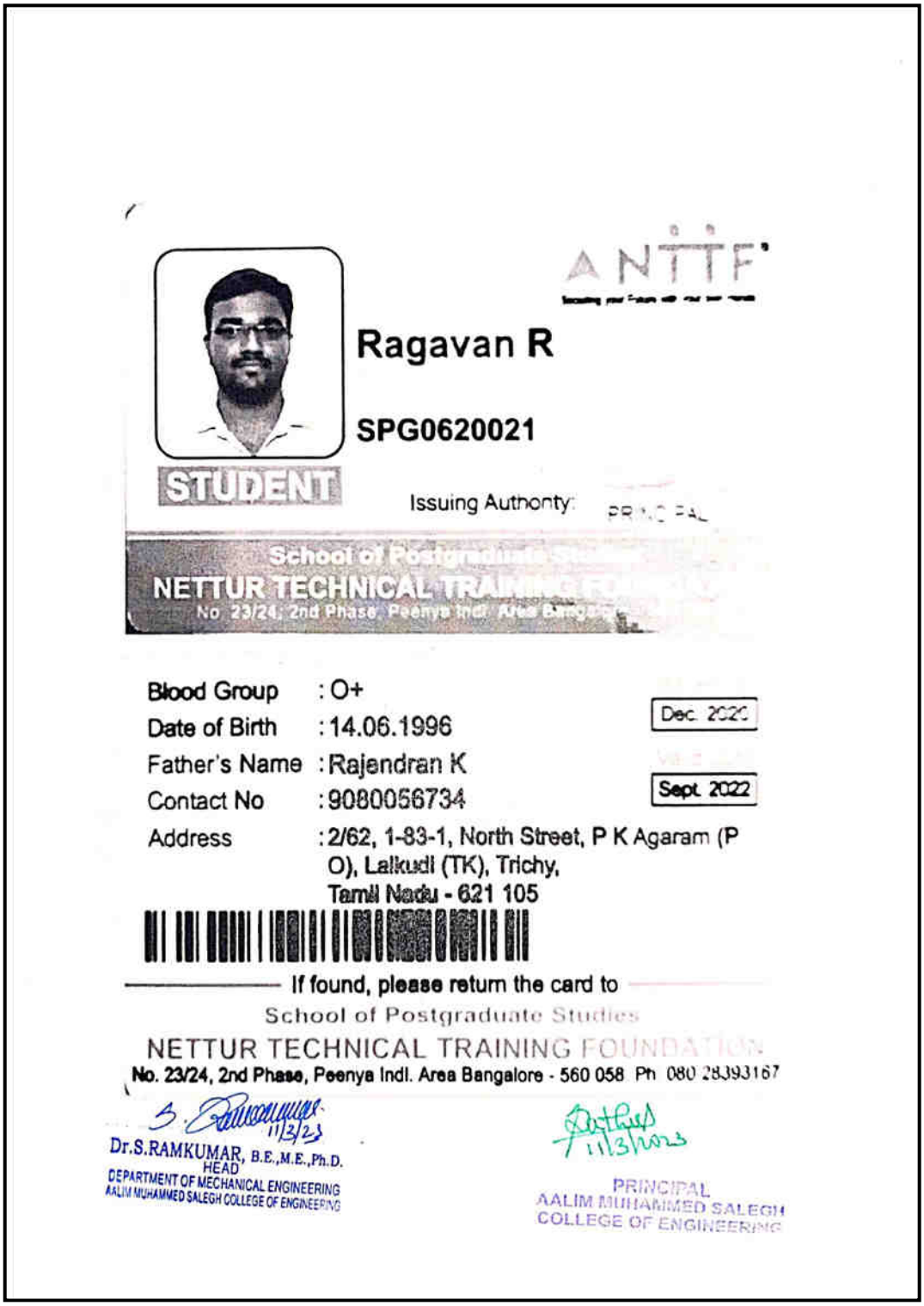


Figure 7.10. Sample proof for Higher education

ANNA UNIVERSITY, CHENNAI - 600 025

PROVISIONAL CERTIFICATE

Folio No.: 1631149

This is to certify that the undermentioned candidate has qualified for the award of Degree through:

SRI SAI RAM INSTITUTE OF TECHNOLOGY, CHENNAI

an autonomous college affiliated to Anna University as detailed below:

Name	:	MAZHARULLAH SHERIFF MD
Register No.	:	412419423003
Degree	:	M.E.
Branch/Specialization	:	INDUSTRIAL SAFETY ENGINEERING
Month & Year of Passing	:	JUNE 2021
Classification	:	FIRST CLASS WITH DISTINCTION

Chennai - 600 025
Date: 17-SEP-21

Controller of Examinations

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 7.11. Sample proof for Higher education

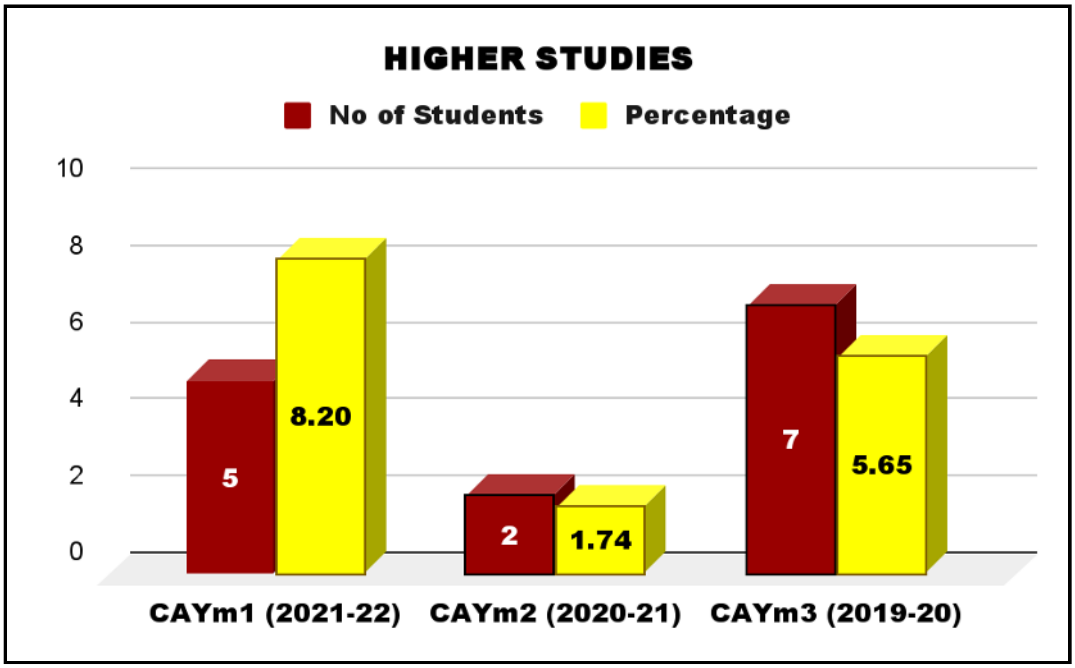
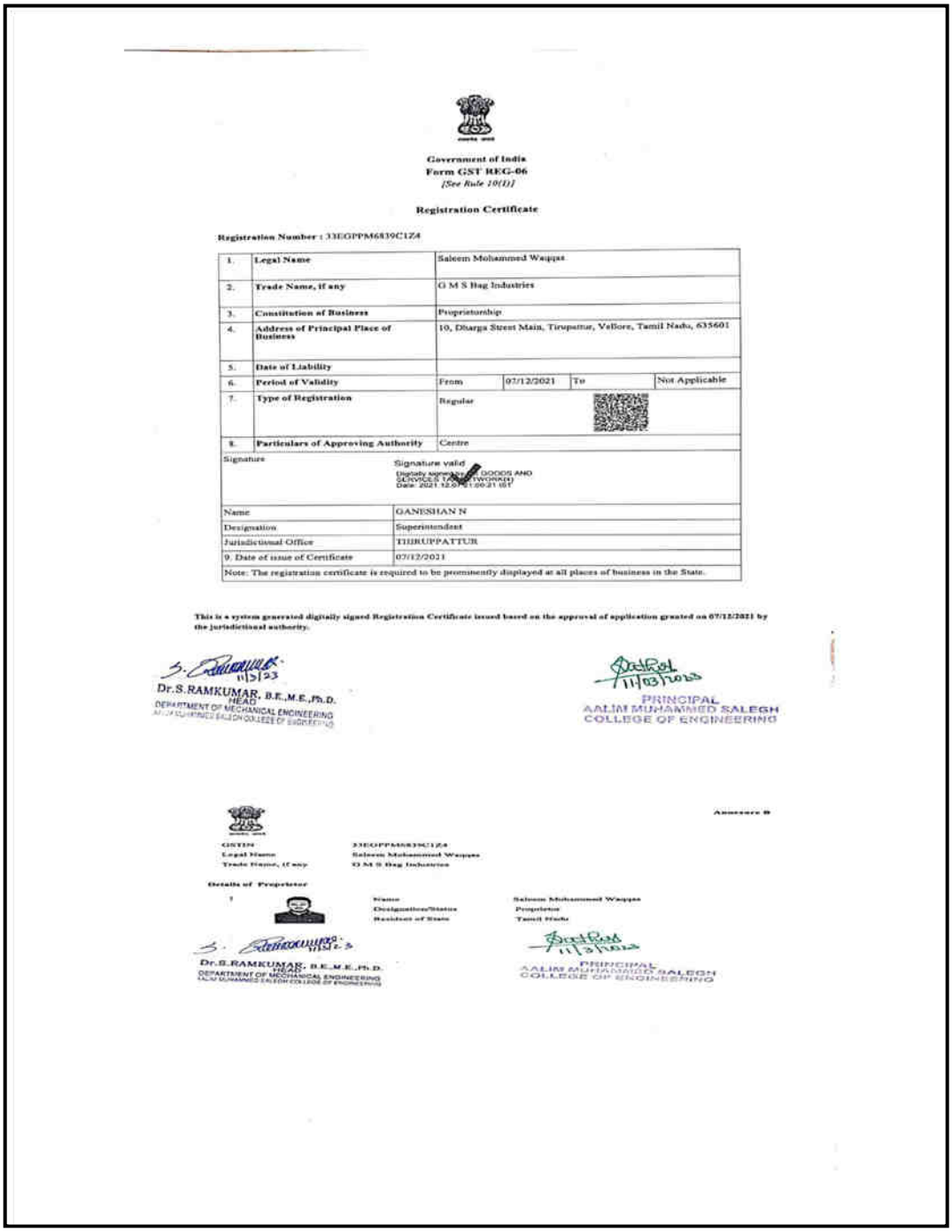


Figure 7.11. Higher Studies.Vs Academic Year.

C) IMPROVEMENT IN NUMBER OF ENTREPRENEURS

Table 7.10. Entrepreneurship details for past 3 years.

	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)
Total	61	115	124
Entrepreneurship	4	3	1
Percentage	6.56	2.61	0.81



Government of India
Form GST REG-06
[See Rule 10(1)]

Registration Certificate

Registration Number : 33EGPPM6839C1Z4

1.	Legal Name	Saleem Mohammed Waqqas			
2.	Trade Name, if any	G M S Bag Industries			
3.	Constitution of Business	Proprietorship			
4.	Address of Principal Place of Business	10, Dharga Street Main, Tirupattur, Vellore, Tamil Nadu, 635601			
5.	Date of Liability				
6.	Period of Validity	From	07/12/2021	To	Not Applicable
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority	Centre			

Signature: Signature valid (Digitally signed by GOODS AND SERVICES TAX NETWORK(1) Date: 2021.12.07 11:00:21 IST)

Name	GANESHAN N
Designation	Superintendent
Jurisdictional Office	THIRUPPATTUR
9. Date of issue of Certificate	07/12/2021

Note: The registration certificate is required to be prominently displayed at all places of business in the State.

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 07/12/2021 by the jurisdictional authority.

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Annexure B

GSTIN 33EGPPM6839C1Z4
Legal Name Saleem Mohammed Waqqas
Trade Name, if any G M S Bag Industries

Details of Proprietor

1 Name Saleem Mohammed Waqqas
Designation/Status Proprietor
Resident of State Tamil Nadu

Dr.S.RAMKUMAR, B.E.,M.E.,Ph.D.
HEAD
DEPARTMENT OF MECHANICAL ENGINEERING

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 7.13. Proof of Entrepreneurship.

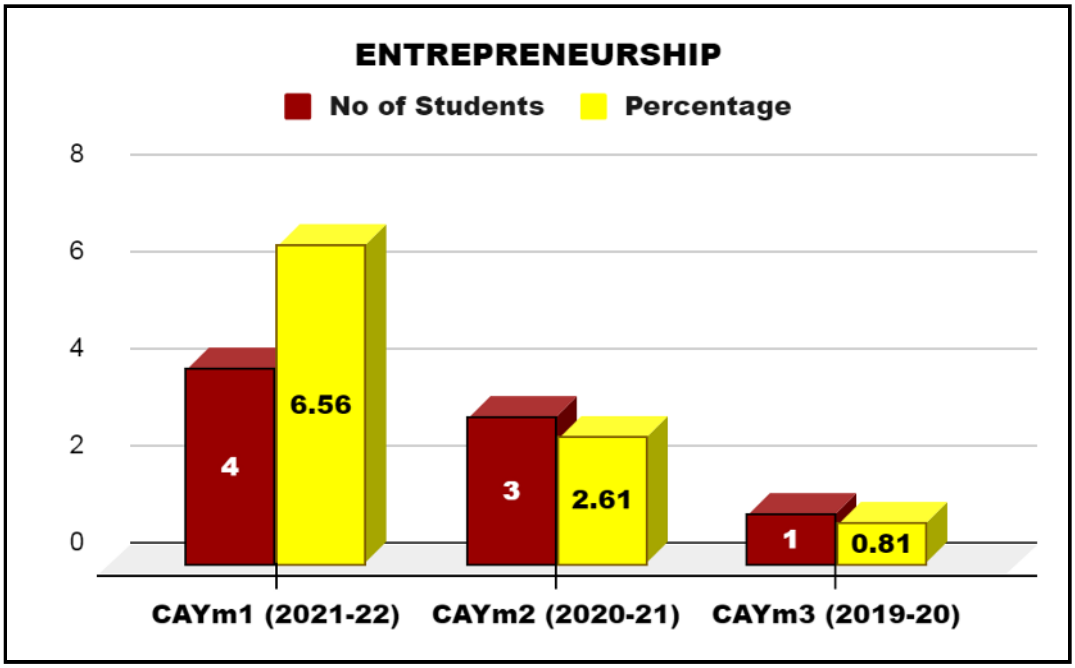


Figure 7.14. Entrepreneurship.Vs Academic Year.

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
State/ University/ Level Entrance Examination/ Others	No of students admitted	18	27	22
	Opening Score/Rank	212	286	282
Tamil Nadu Engineering Adı	Closing Score/Rank	127	123	130
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	17	36	15
	Opening Score/Rank	3866	3487	3792
Tamil Nadu Engineering Adı	Closing Score/Rank	2922	2773	2600
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		0	0	0

8 FIRST YEAR ACADEMICS (50) Total Marks 47.30

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 leavi case Curr Asso 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. MOHAN	ACKPI4307E	M.Sc. and PhD	16/05/2022	CHEMISTRY	Associate Professor	02/06/2014	100	100	100	Yes	Regular	
DR. T. TITUS S	AQIPT4100E	M.A and Ph.D	19/10/2005	TAMIL LITERATURE	Assistant Professor	25/08/2022	100	0	0	Yes	Regular	
DR. D. ZUNAIT	ABCPZ6831B	ME/M. Tech and PhD	28/07/2022	CIVIL ENGINEERING	Assistant Professor	01/12/2020	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	
DR. K.CHAND	AGMPC7535J	ME/M. Tech and PhD	27/12/2013	ELECTRICAL AND ELECTRONICS ENGINEERING	Associate Professor	01/03/2013	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	
MR. K. SHAGU	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. MOHAN	BAGPM7489E	M.Phil	06/04/1999	PHYSICS	Assistant Professor	04/08/2020	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	
MS. A. JUVIN I	BKZPJ3024M	M.Phil	30/08/2016	PHYSICS	Assistant Professor	16/08/2018	0	100	100	No	Regular	30/07
MS. D. BHAGY	BIVPB2278K	M.Phil	29/04/2017	PHYSICS	Assistant Professor	25/10/2017	0	0	100	No	Regular	03/07
MS. N.S. NANC	AOQPN9330N	M.Phil	30/09/2010	ENGLISH	Assistant Professor	01/07/2019	0	100	100	No	Regular	31/03
MS. R. SHAZA	NLDPS1047G	MA	28/04/2017	ENGLISH	Assistant Professor	05/08/2020	0	100	100	No	Regular	31/03
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 E	OESPS0914H	MA	07/12/2021	ENGLISH	Assistant Professor	04/08/2021	100	100	0	Yes	Regular	
MS. BHUVANE	BDAPB4872P	M.Sc	30/04/2008	MATHEMATICS	Assistant Professor	03/11/2008	100	100	100	Yes	Regular	
MR. P. VINAYA	ASUPV0992Q	M.Phil	31/08/2013	MATHEMATICS	Assistant Professor	04/08/2020	0	100	100	No	Regular	23/07
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	30/07
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	
MS. M. DEEPA	CFOPM8365R	M.Phil	30/11/2012	MATHEMATICS	Assistant Professor	01/07/2019	0	0	100	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. S.F. SYED	BPTPS1959H	M.E/M.Tech	30/06/2006	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	06/07/2009	0	100	100	No	Regular	30/07
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	
MR. J. MOHAN	BQEPM1093E	M.Phil	28/09/2013	MATHEMATICS	Assistant Professor	04/08/2014	0	100	100	No	Regular	30/07
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	
MR. A. SARAV	CHUPS1689G	M.E/M.Tech	30/06/2012	ELECTRICAL AND ELCTRONICS 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	10/06
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	31/01
MR. A. RAVIKU	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. MUBEENA	ATLPM2402N	MA	30/04/1999	LIBRARY SCIENCE	Assistant Professor	05/01/2009	100	100	100	Yes	Regular	
MR. M.F. NAZE	AVGPN9253M	M.E/M.Tech	28/06/2013	CIVIL ENGINEERING	Assistant Professor	11/07/2016	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	
DR. A. MARIAN	ANSPM0427E	M.A and Ph.D	30/07/2009	LIBRARY SCIENCE	Assistant Professor	01/10/2000	100	100	100	Yes	Regular	
MS. S. GOPIK	BUZPG9923J	M.Phil	16/05/2022	ENGLISH	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	30/07
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. T. BIBIN J	CKCPB4195F	MCA	30/06/2018	COMPUTER APPLICATIONS	Assistant Professor	02/07/2019	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 7.97

Institute Marks : 7.97

Academic Performance	2022-23	2021-22	2020-21
Mean of CGPA or mean percentage of all successful students(X)	7.76	8.34	8.01
Total Number of successful students(Y)	25.00	22.00	46.00
Total Number of students appeared in the examination(Z)	25.00	22.00	46.00
API [X*(Y/Z)]	7.70	8.30	7.91

Average API[(AP1+AP2+AP3)/3] : 7.97

Assessment [1.5 * Average API] : 7.97

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

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

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.

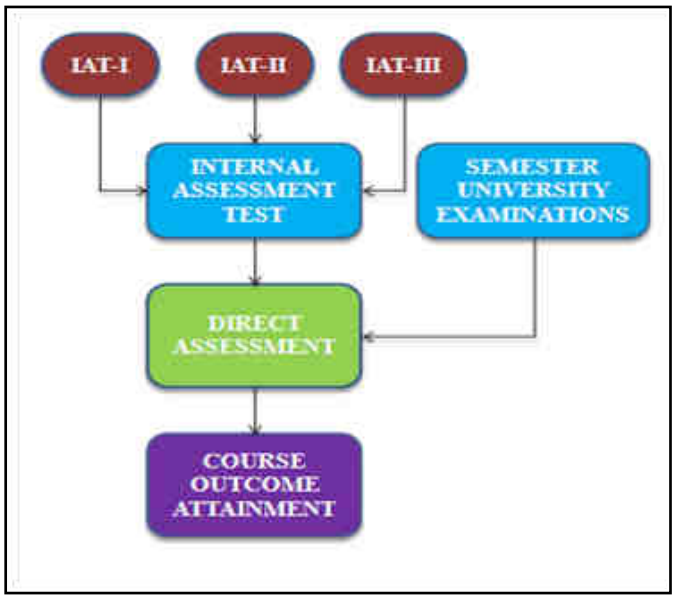


Figure.8.4.1.1. Process of CO attainment

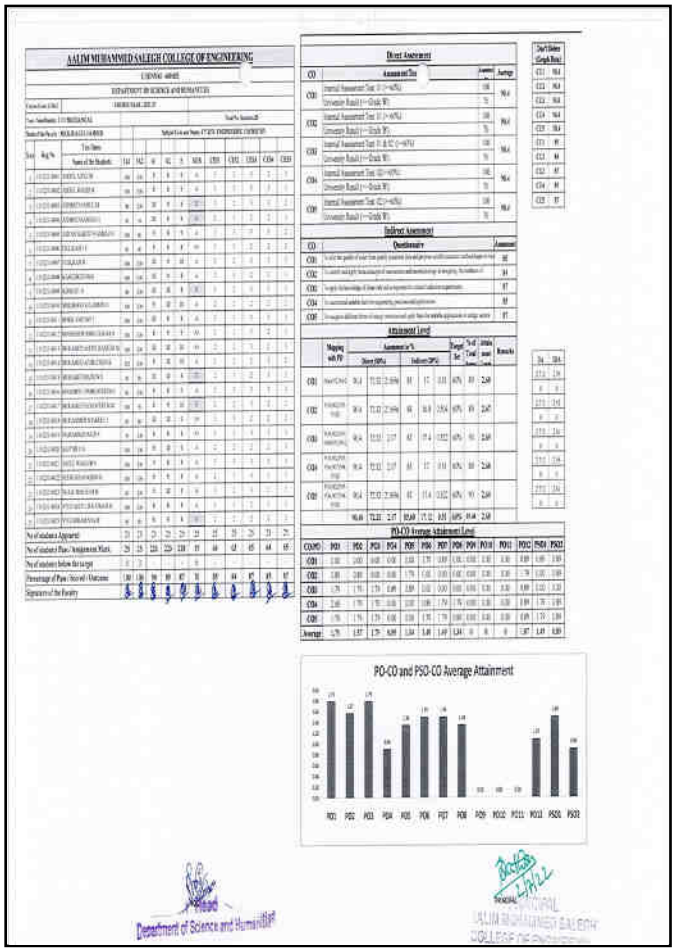


Figure.8.4.1.2. A Sample for the process of CO Attainment

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:

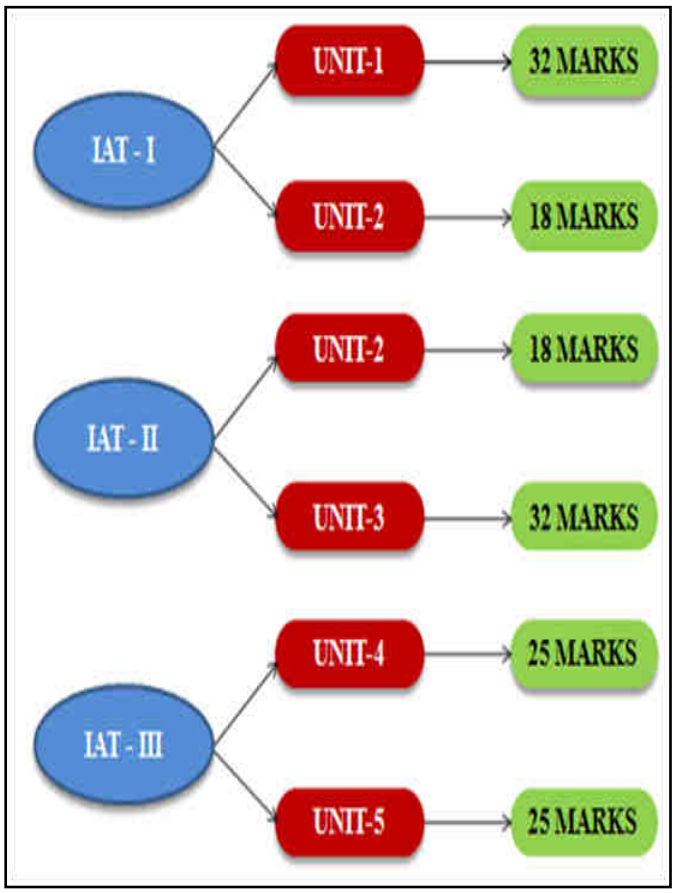
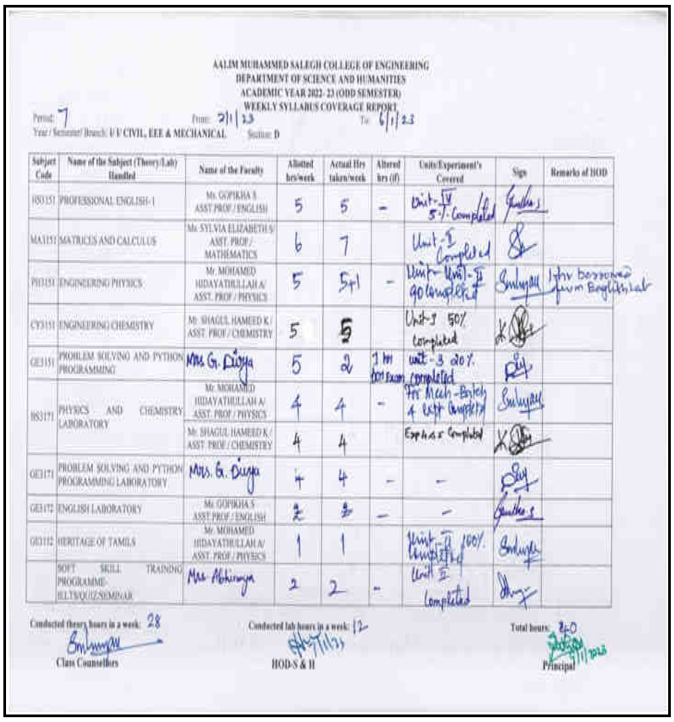


Figure.8.4.1.3. Allocation of marks for each unit of Syllabus (Regulations 2017)

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 MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF SCIENCE AND HUMANITIES
ACADEMIC YEAR 2022-23 (ODD SEMESTER)
WEEKLY SYLLABUS COVERAGE REPORT

Period: 7 From: 2/1/23 To: 6/1/23
Year / Semester/ Branch: I/ I/ CIVIL, EEE & MECHANICAL Section: D

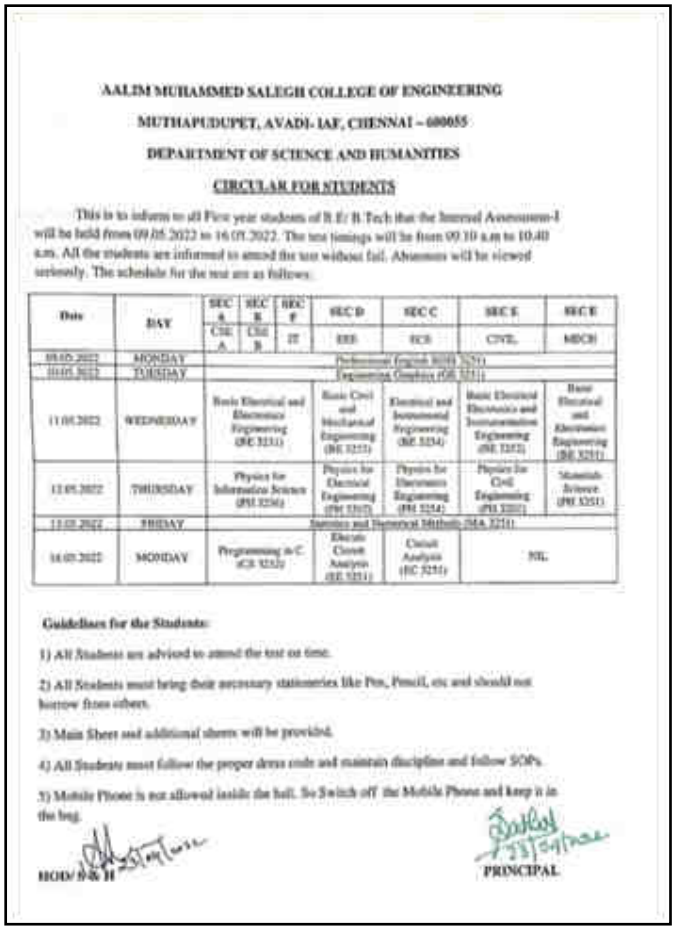
Subject Code	Name of the Subject (Theory/Lab) Handled	Name of the Faculty	Allotted hrs/week	Actual Hrs taken/week	Altered hrs (if)	Units/Experiment's Covered	Sign	Remarks of HOD
HS3151	PROFESSIONAL ENGLISH-1	Ms. GOPIKHA S ASST PROF / ENGLISH	5	5	-	Unit-IV 5% Completed	[illegible]	
MA3151	MATRICES AND CALCULUS	Ms. SYLVIA ELIZABETH S/ ASST. PROF / MATHEMATICS	6	7		Unit-I Completed	[illegible]	
PH3151	ENGINEERING PHYSICS	Mr. MOHAMED HIDAYATHULLAH A/ ASST. PROF / PHYSICS	5	5+1	-	Unit-II 90 completed	[illegible]	1 hr borrowed from English lab
CY3151	ENGINEERING CHEMISTRY	Mr. SHAGUL HAMEED K / ASST. PROF / CHEMISTRY	5	5		Unit-I 50% completed	[illegible]	
GE3151	PROBLEM SOLVING AND PYTHON PROGRAMMING	Mrs. G. Divya	5	2	1 hr for exam	unit-3 20% completed	[illegible]	
BS3171	PHYSICS AND CHEMISTRY LABORATORY	Mr. MOHAMED HIDAYATHULLAH A/ ASST. PROF / PHYSICS	4	4	-	For Mech-Batch 4 expt completed	[illegible]	
		Mr. SHAGUL HAMEED K / ASST. PROF / CHEMISTRY	4	4		Exp 4 & 5 completed	[illegible]	
GE3171	PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	Mrs. G. Divya	4	4	-	-	[illegible]	
GE3172	ENGLISH LABORATORY	Ms. GOPIKHA S ASST PROF / ENGLISH	2	2	-	-	[illegible]	
GE3152	HERITAGE OF TAMILS	Mr. MOHAMED HIDAYATHULLAH A/ ASST. PROF / PHYSICS	1	1		Unit-II completed 100%	[illegible]	
	SOFT SKILL TRAINING PROGRAMME-IELTS/QUIZ/SEMINAR	Mrs. Abhirami	2	2	-	Unit I Completed	[illegible]	

Conducted theory hours in a week: 28 Conducted lab hours in a week: 12 Total hours: 40

Class Counsellors HOD-S & H Principal

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 MUHAMMED SALEGH COLLEGE OF ENGINEERING

MUTHAPUDUPET, AVADI- IAF, CHENNAI – 600055

DEPARTMENT OF SCIENCE AND HUMANITIES

CIRCULAR FOR STUDENTS

This is to inform to all Five 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 a.m 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-II(HS 3251)						
10.05.2022	TUESDAY	Engineering Graphics (GE 3251)						
11.05.2022	WEDNESDAY	Basic Electrical and Electronics Engineering (BE 3251)			Basic Civil and Mechanical Engineering (BE 3253)	Electrical and Instrumental Engineering (BE 3254)	Basic Electrical Electronics and Instrumentation Engineering (BE 3252)	Basic Electrical and Electronics Engineering (BE 3251)
12.05.2022	THURSDAY	Physics for Information Science (PH 3256)			Physics for Electrical Engineering (PH 3257)	Physics for Electronics Engineering (PH 3254)	Physics for Civil Engineering (PH 3255)	Materials Science (PH 3251)
13.05.2022	FRIDAY	Statistics and Numerical Methods (MA 3251)						
16.05.2022	MONDAY	Programming in C (CS 3252)			Electric Circuit Analysis (EE 3251)	Circuit Analysis (EC 3251)	NIL	

Guidelines for the Students:

1) All Students are advised to attend the test on time.

2) All Students must bring their necessary stationeries like Pen, Pencil, etc and should not borrow from others.

3) Main Sheet and additional sheets will be provided.

4) All Students must follow the proper dress code and maintain discipline and follow SOPs.

5) Mobile Phone is not allowed inside the hall. So Switch off the Mobile Phone and keep it in the bag.

HOD/ S & H

PRINCIPAL

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:

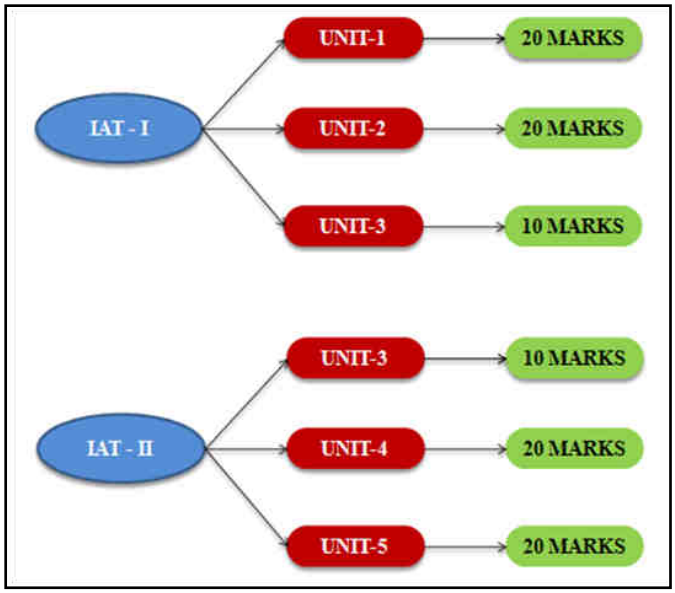
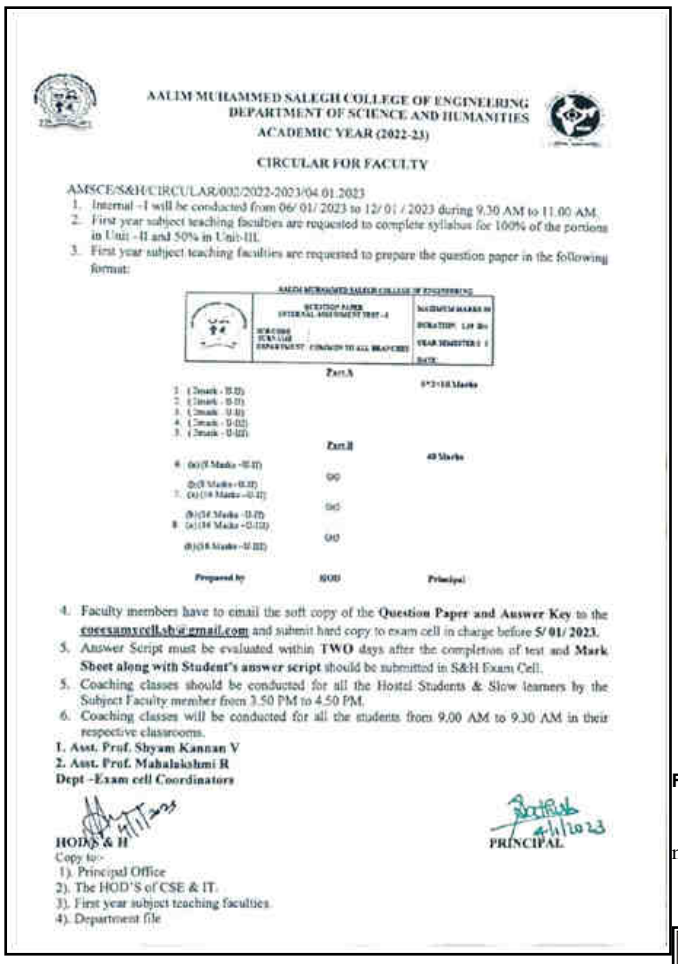


Figure.8.4.1.6. Allocation of marks for each unit of Syllabus (Regulations 2021)



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

1. Internal –I will be conducted from 06/ 01/ 2023 to 12/ 01 / 2023 during 9.30 AM to 11.00 AM.
2. First year subject teaching faculties are requested to complete syllabus for 100% of the portions in Unit –II and 50% in Unit-III.
3. First year subject teaching faculties are requested to prepare the question paper in the following format:

4. Faculty members have to email the soft copy of the **Question Paper and Answer Key** to the **coeexamcell.sh@gmail.com** and submit hard copy to exam cell in charge before **5/ 01/ 2023.**
5. 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.
5. 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.
6. 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

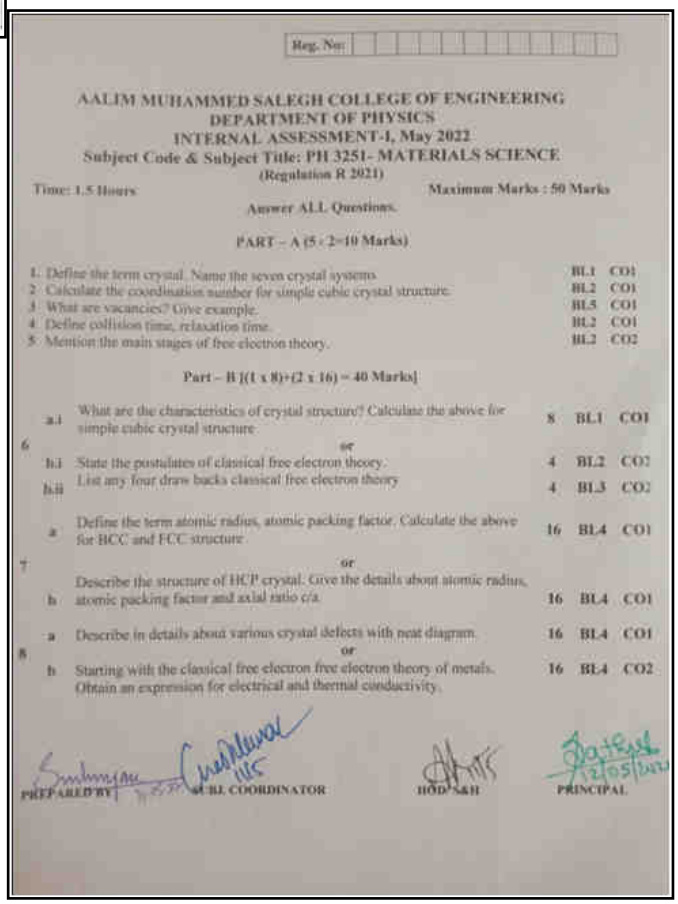
HOD/S & H
PRINCIPAL

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

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.



Reg. No:

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF PHYSICS
INTERNAL ASSESSMENT-I, May 2022
Subject Code & Subject Title: PH 3251- MATERIALS SCIENCE
(Regulation R 2021)

Time: 1.5 Hours Maximum Marks : 50 Marks

Answer ALL Questions.

PART – A (5 x 2=10 Marks)

1.	Define the term crystal. Name the seven crystal systems.	BL1	CO1
2	Calculate the coordination number for simple cubic crystal structure.	BL2	CO1
3	What are vacancies? Give example.	BL5	CO1
4	Define collision time, relaxation time.	BL2	CO1
5	Mention the main stages of free electron theory.	BL2	CO2

Part – B [(1 x 8)+(2 x 16) = 40 Marks]

6	a.i	What are the characteristics of crystal structure? Calculate the above for simple cubic crystal structure	8	BL1	CO1
		or			
	b.i	State the postulates of classical free electron theory.	4	BL2	CO2
	b.ii	List any four draw backs classical free electron theory	4	BL3	CO2
7	a	Define the term atomic radius, atomic packing factor. Calculate the above for BCC and FCC structure	16	BL4	CO1
		or			
	b	Describe the structure of HCP crystal. Give the details about atomic radius, atomic packing factor and axial ratio c/a.	16	BL4	CO1
8	a	Describe in details about various crystal defects with neat diagram.	16	BL4	CO1
		or			
	b	Starting with the classical free electron free electron theory of metals. Obtain an expression for electrical and thermal conductivity.	16	BL4	CO2

PREPARED BY | COURSE COORDINATOR | HOD/S&H | PRINCIPAL

Figure.8.4.1.8. Specimen question paper - Internal Assessment Test

1. b. Internal Practicals Test :

Model practical tests were conducted and uploaded to the Affiliating University.

2. University Semester Examinations: University Semester examinations are conducted as per Affiliating University Schedule.

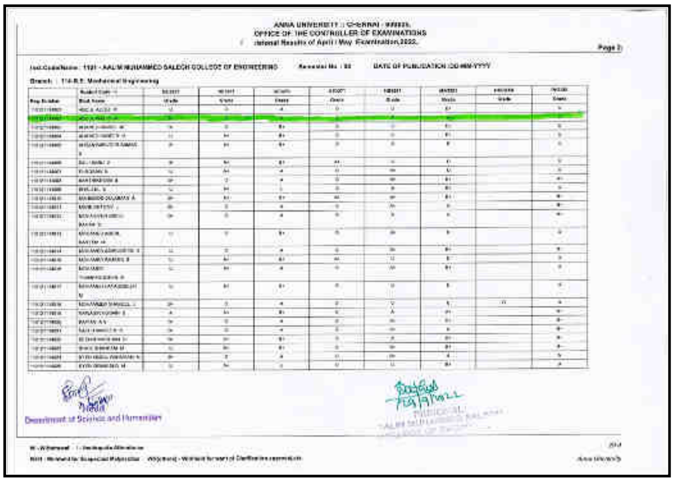


Figure.8.4.1.9. Affiliating University Results Published Copy of Mechanical Engineering students for the academic year 2021-22

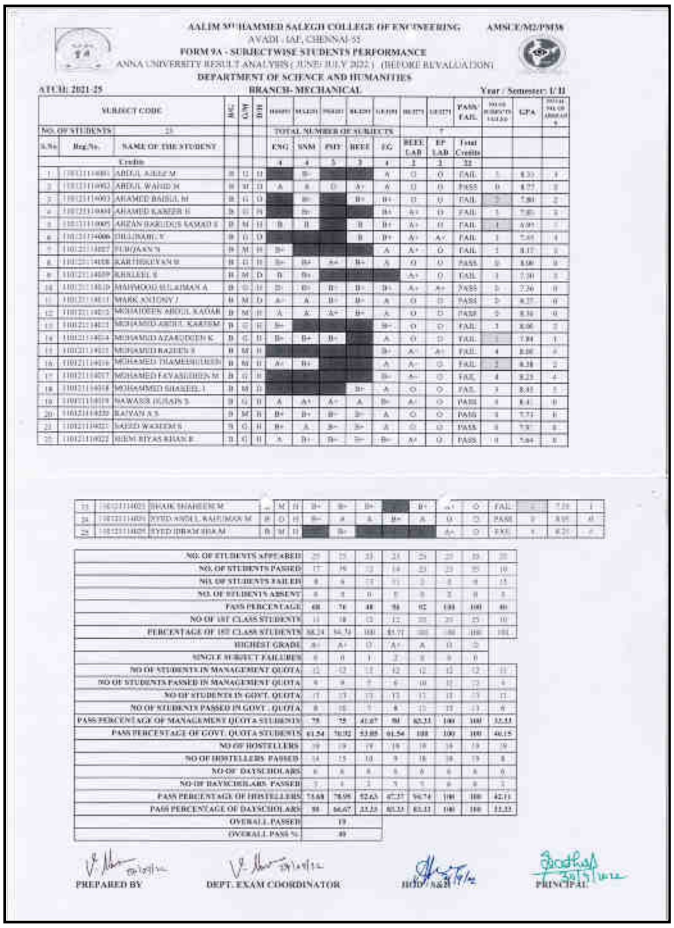


Figure.8.4.1.10. Calculation of CGPA for second semester Mechanical Engineering students of the year 2021-22

Overall Direct Assessment including Internal and University Semester Examinations:

1. Affiiating University Examinations evaluated to : 80%
2. Internal Examinations evaluated to: 20%

8.4.2 Record the attainment of Course Outcomes of all first year courses (5) Institute Marks : 5.00

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:

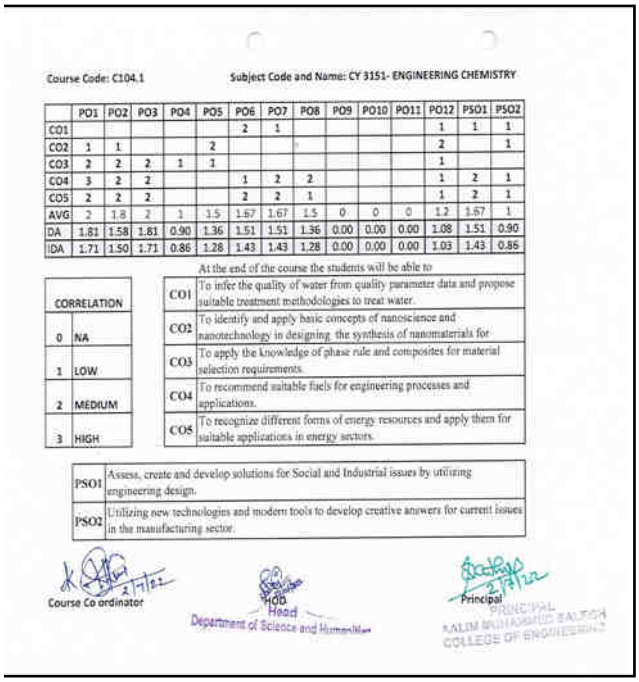
Evaluation of course attainment levels for Internal Assessment Tests and Affiliating University Examinations:

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: C104.1 Subject Code and Name: CY 3151- ENGINEERING CHEMISTRY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1						2	1					1	1	1
CO2	1	1			2							2		1
CO3	2	2	2	1	1							1		
CO4	3	2	2			1	2	2				1	2	1
CO5	2	2	2			2	2	1				1	2	1
AVG	2	1.8	2	1	1.5	1.67	1.67	1.5	0	0	0	1.2	1.67	1
DA	1.81	1.58	1.81	0.90	1.36	1.51	1.51	1.36	0.00	0.00	0.00	1.08	1.51	0.90
IDA	1.71	1.50	1.71	0.86	1.28	1.43	1.43	1.28	0.00	0.00	0.00	1.03	1.43	0.86

CORRELATION	
0	NA
1	LOW
2	MEDIUM
3	HIGH

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

CO1	To infer the quality of water from quality parameter data and propose suitable treatment methodologies to treat water.
CO2	To identify and apply basic concepts of nanoscience and nanotechnology in designing the synthesis of nanomaterials for
CO3	To apply the knowledge of phase rule and composites for material selection requirements.
CO4	To recommend suitable fuels for engineering processes and applications.
CO5	To recognize different forms of energy resources and apply them for suitable applications in energy sectors.

PSO1	Assess, create and develop solutions for Social and Industrial issues by utilizing engineering design.
PSO2	Utilizing new technologies and modern tools to develop creative answers for current issues in the manufacturing sector.

Course Co ordinator HOD Head Department of Science and Humanities Principal PRINCIPAL KALIM MUHAMMED SAJEEVA COLLEGE OF ENGINEERING

Figure.8.4.2.1. A Sample of CO-PO Mapping of the subject Engineering Chemistry for Mechanical Engineering Students

le.8.4.2.1. List of subjects with Course code and Subject code 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
C110.1.3	PH3251	MATERIALS SCIENCE
C111.1.1	GE3251	ENGINEERING GRAPHICS
C112.1.1	BE3251	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING
C113.1.3	BE3271	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LABORATORY
C114.1.1	GE3271	ENGINEERING PRACTICES 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	2.65	2.64	2.63	2.67	2.67	**2.65**
C102.1	2.73	2.74	2.76	2.73	2.72	**2.74**
C103.1	2.71	2.74	2.73	2.74	2.73	**2.73**
C104.1	2.68	2.67	2.69	2.68	2.69	**2.68**
C105.1	2.77	2.76	2.74	2.75	2.74	**2.75**
C106.1	2.91	2.87	2.91	2.90	2.92	**2.90**
C107.1	2.91	2.91	2.90	2.91	2.93	**2.91**
2nd Semester						
C108.1.1	2.57	2.63	2.57	2.60	2.63	**2.60**
C109.1.1	2.65	2.69	2.64	2.72	2.66	**2.67**
C110.1.3	2.43	2.39	2.38	2.40	2.40	**2.40**
C111.1.1	2.80	2.83	2.81	2.79	2.85	**2.81**
C112.1.1	2.49	2.48	2.48	2.51	2.46	**2.48**
C113.1.3	2.89	2.88	2.90	2.88	2.91	**2.89**
C114.1.1	2.91	2.91	2.90	2.92	2.88	**2.90**

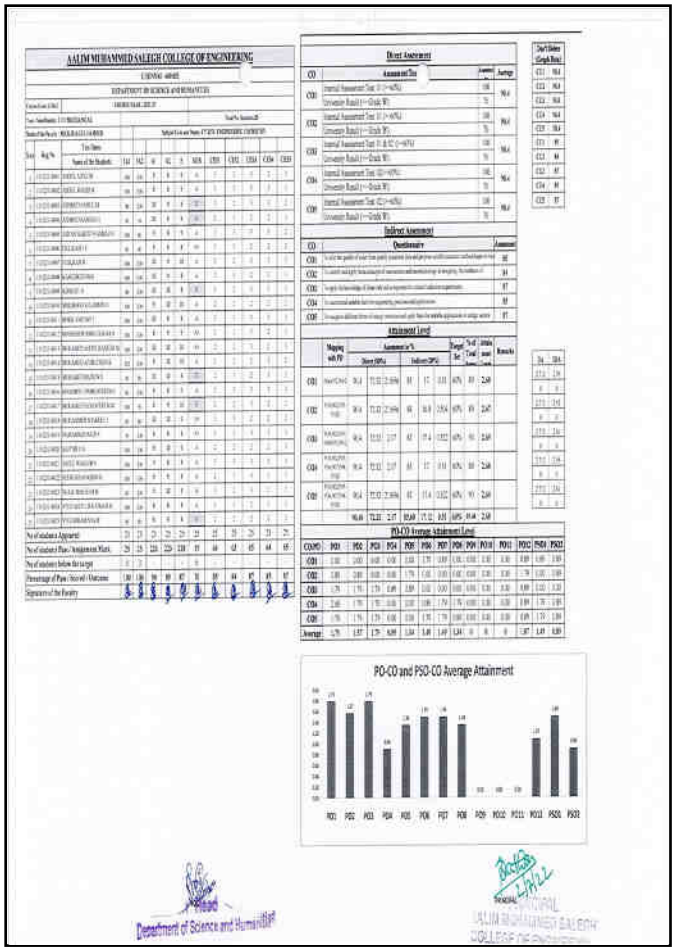


Figure.8.4.2.2. A Sample for CO-PO Attainment for the subject Engineering Chemistry of Mechanical Engineering Students of the year 2021-22

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

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

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	0	0	0	0	0	0	0	0	0	2.71	0	0.90
C102.1	2.81	2.81	2.25	2.62	0	1.25	0	0	0	0	0	1.68
C103.1	2.76	2.39	1.84	0	2.21	1.84	0.92	0	0	0.92	0	1.84
C104.1	1.81	1.58	1.81	0.90	1.36	1.51	1.51	1.36	0	0	0	1.08
C105.1	2.81	2.06	1.87	0.94	1.12	0	0	0	0	0.94	0	0.94
C106.1	1.60	2	1.60	1.60	1.60	2.20	1.20	1	1.60	1.33	1	2
C107.1	3	3	2.60	2.60	2.40	2.60	0	1	2.60	1.80	0	2.20
C108.1.1	0	0	0	0	0	0	0	0	0	2.62	0	0.87
C109.1.1	2.71	2.71	2.71	2.71	0	2.71	1.99	0	1.81	0.90	1.27	1.63
C110.1.3	2.22	1.58	1.43	1.43	0.79	0.79	0.79	0.79	0	0	0	1.43
C111.1.1	2.90	2.26	2.42	2.26	0.97	0	0	0	0	2.90	0	0.97
C112.1.1	1.32	1.98	1.65	1.85	1.44	1.65	0.82	0	0	0	0.82	1.24
C113.1.3	2.60	2.40	2.40	1.40	2	2	1.80	1	2.20	1.80	2.40	2.20
C114.1.1	2.20	2	1.80	1.40	0	0	1	0	2.20	1	0	3

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.40	2.23	2.03	1.79	1.54	1.84	1.25	1.03	2.08	1.69	1.37	1.57
CO Attainment	2.40	2.23	2.03	1.79	1.54	1.84	1.25	1.03	2.08	1.69	1.37	1.57

PSOs Attainment:

Course	PSO1	PSO2
C101.1	0.90	0.90
C102.1	1.87	1.87
C103.1	1.84	0.92
C104.1	1.51	0.90
C105.1	0.94	0.94
C106.1	1	2
C107.1	1	1.33
C108.1.1	0.87	0
C109.1.1	1.99	1.99
C110.1.3	1.43	0.99
C111.1.1	1.94	1.16
C112.1.1	1.32	1.48
C113.1.3	1.60	1.80
C114.1.1	3	2.40

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.52	1.44
CO Attainment	1.52	1.44

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

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

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.05	2.40	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	2.23	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	2.03	For the proceeding year, the target would be progressive.
Action 1: Students would improve on the different aspects of designing solutions of Engineering Problems. Action 2: To enhance comprehension levels, courses taught by introducing and encouraging to participate in NPTEL Courses , a positive response is noticed from Students.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.98	1.79	Better interactive Programmes for varied research ideas will achieve desired.
Action 1: Access to complex Problem Analysis,and solutions in implementing real time industry needs in their respective academic Projects.			
PO 5 : Modern Tool Usage			
PO 5	1.98	1.54	Usage of modern techniques inculcated are insufficient to achieve the target.
Action 1: Awareness Programmes relevant to enhance the student activity in comprehension and modern IT tool usages were introduced.			
PO 6 : The Engineer and Society			
PO 6	1.98	1.84	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	1.25	Lack of awareness on environment and Sustainable development of the Society..
Action 1: Students are encouraged to listen to the talks of industrial experts.			
PO 8 : Ethics			
PO 8	1.90	1.03	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	2.08	For the proceeding year, the target would be progressive.
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	1.69	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	1.37	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	1.95	1.57	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 : Assess, create, and develop solutions for social and industrial issues by utilizing engineering design principles.			
PSO 1	1.90	1.52	Target is not attained. Better improvement in Mathematics, Science and Engineering Fundamentals is needed to achieve the target.
Action 1: Workshops can be arranged for the students to create awareness in Design and Prototype models.			
PSO 2 : Utilizing new technologies and modern tools, to develop creative answers for current issues in the manufacturing sector.			
PSO 2	1.90	1.44	Target is not attained. Better progress in the potential to analyze engineering problems to achieve the target.
Action 1: Students can be taken to the Industrial visits to learn the practical aspects of courses in the manufacturing sectors.			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

Institute Marks : 5.00

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:

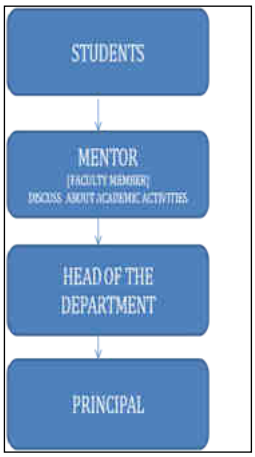


Figure 9.1.1 Mentoring Process

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

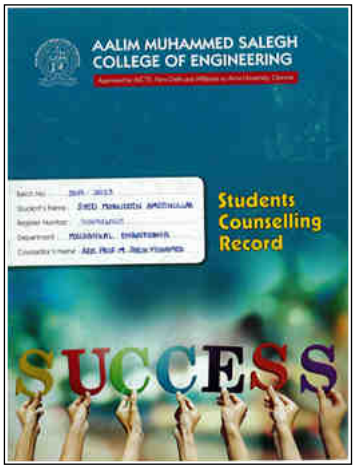


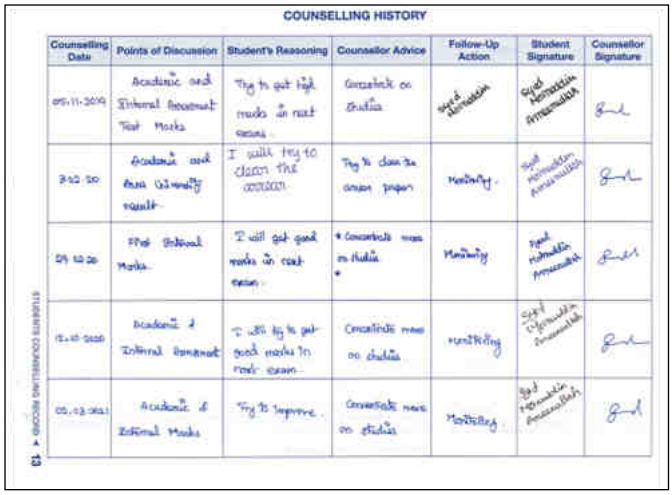
Figure 9.1.2 Student Academic performance book

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 exams.	Concentrate on studies	Good motivation	Good motivation Appreciable	
3-12-20	Academic and Anna University result	I will try to clear the arrears	Try to clear the arrear papers	Monitoring.	Good motivation. Appreciable	
09-12-20	Final Internal Marks.	I will get good marks in next exam.	* Concentrate more on studies *	Monitoring	Good motivation Appreciable	
12-10-2020	Academic & Internal Assessment	I will try to get good marks in next exam.	Concentrate more on studies	monitoring	Good Appreciable	
05-03-2021	Academic & Internal Marks	Try to improve.	Concentrate more on studies	Monitoring	Good motivation Appreciable	

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.

THE HINDU

EDUCATION PLUS

YOUR WINDOW TO COURSES AND CAREERS

MONDAY, JUNE 27, 2005

Focus on engineering studies

Well-done, Tamil Nadu

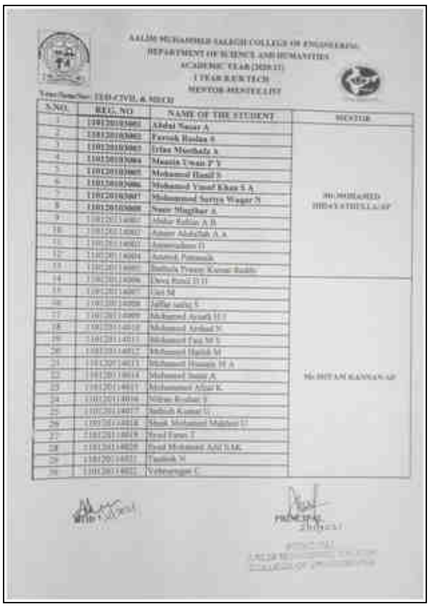
Here's one more reason for Tamil Nadu's engineering colleges to feel proud.

The All-India Council for Technical Education has recorded some of the 'best practices' followed by colleges all over the country and the list has many names from Tamil Nadu, under various categories.

● Introduction of teacher-guardian system wherein the teacher monitors the progress of the student in studies and extra-curricular activities and provide necessary counselling and support - Aalim Muhammed Salegh College of Engineering, Muthapudupet, Chennai.

DHARINI PARTHASARATHY

Figure 9.1.1 In the Year 2005, AI.CTE, New Delhi Placed on record Institution's Mentor



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF SCIENCE AND HUMANITIES
ACADEMIC YEAR (2020-21)
I YEAR B.E/B.TECH
MENTOR-MENTEE LIST

Year/Sem/Sec: EEE-CIVIL & MECH

S.NO.	REG. NO	NAME OF THE STUDENT	MENTOR
1	110120103001	Abdul Nasar A	Mr. MOHAMED HIDAYATHULLA AP
2	110120103002	Farook Baslan S	
3	110120103003	Irfan Musthafa A	
4	110120103004	Maazin Umair P Y	
5	110120103005	Mohamed Hanif S	
6	110120103006	Mohamed Yusuf Khan S A	
7	110120103007	Mohammed Suriya Waqar N	
8	110120103008	Nasir Shagthar A	
9	[illegible]	Abdur Rahim A R	
10	[illegible]	Ameer Abdullah A A	
11	[illegible]	Ameeruddeen D	
12	[illegible]	Ashwin Pattnaik	
13	[illegible]	Bathula Pranav Kumar Reddy	
14	[illegible]	Devi Rusil D D	Mr. JEEVAN KANNAN AP
15	[illegible]	Giri M	
16	[illegible]	Jaffar sadiq S	
17	[illegible]	Mohamed Arsath H I	
18	[illegible]	Mohamed Arshad N	
19	[illegible]	Mohamed Faiz M S	
20	[illegible]	Mohamed Harish M	
21	[illegible]	Mohamed Hussain H A	
22	[illegible]	Mohamed Junid A	
23	[illegible]	Mohammed Afzal K	
24	[illegible]	Nithin Roshan S	
25	[illegible]	Sathish Kumar U	
26	[illegible]	Shaik Mohamed Mujibur U	
27	[illegible]	Syed Faris T	
28	[illegible]	Syed Mohamed Adil S.M.	
29	[illegible]	Tauheek N	
30	[illegible]	Velmurugan C	

HOD PRINCIPAL

Figure 9.1.5 Mentor-Mentee list

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

Institute Marks : 10.00

METHODOLOGY BEING FOLLOWED FOR ANALYSIS OF FEEDBACK AND ITS EFFECTIVENESS

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 collected from 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

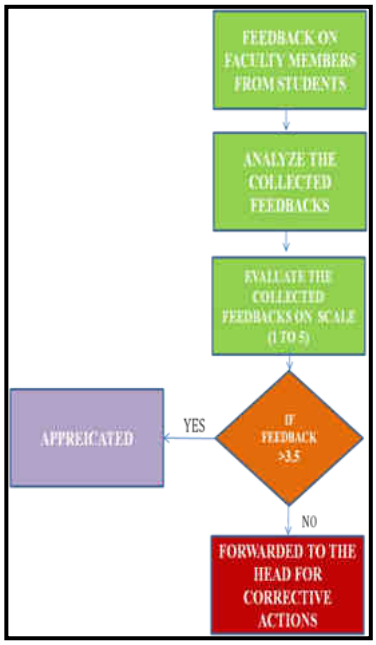
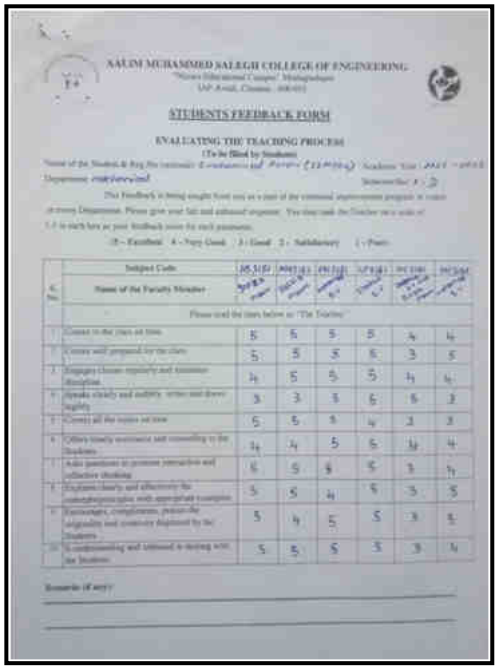


Figure 9.2.1. Flowchart- Feedback analysis process for faculty members.

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.



NAUM MUHAMMED SALEGH COLLEGE OF ENGINEERING

STUDENTS FEEDBACK FORM

EVALUATING THE TEACHING PROCESS

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

Remarks (if any):

Figure 9.2.2. Students feedback on teaching Faculty member.

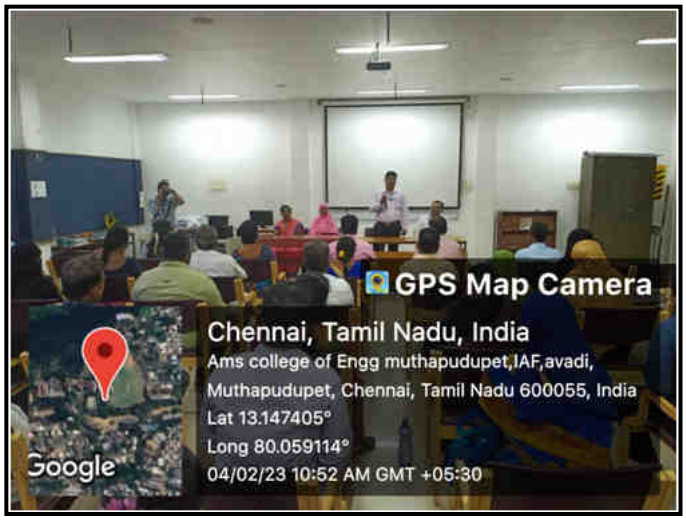
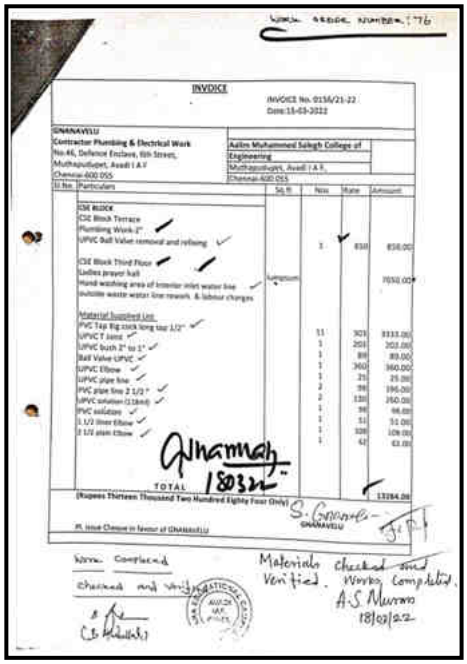


Figure 9.2.3. Parent and Teachers Meeting.

B. RECORD OF CORRECTIVE MEASURES TAKEN

Procurement of electrical/carpentry/plumbing/water purifier items by the management directly for speedy redressal of problems.



INVOICE

INVOICE No. 0156/21-22
Date:15-03-2022

GNANAVELU
Contractor Plumbing & Electrical Work
No.46, Defence Enclave, 6th Street,
Muthapudupet, Avadi I A F
Chennai-600 055

To M/s Aalim Muhammed Saleqh College of Engineering
Muthapudupet, Avadi I A F,
Chennai-600 055

Sl.No	Particulars	Sq.ft	Nos	Rate	Amount
	CSE BLOCK				
	CSE Block Terrace				
	Plumbing Work-1"				
	UPVC Ball Valve removal and refixing		1	850	850.00
	CSE Block Third Floor				
	Ladies prayer hall				
	Hand washing area of Interior inlet water line outside waste water line rework & labour charges	Lumpsum			7050.00
	Material Supplied by				
	PVC Tap Big stock long tap 1/2"		11	303	3333.00
	UPVC T Joint		1	203	203.00
	UPVC bush 2" to 1"		1	89	89.00
	Ball Valve UPVC		1	360	360.00
	UPVC Elbow		1	25	25.00
	UPVC pipe line		2	98	196.00
	PVC pipe line 2 1/2 "		2	130	260.00
	UPVC solution (118ml)		1	98	98.00
	PVC solution		1	51	51.00
	1 1/2 liner Elbow		1	108	108.00
	2 1/2 plain Elbow		1	63	63.00
	TOTAL				13284.00

(Rupees Thirteen Thousand Two Hundred Eighty Four Only)

S. Gnanavelu
GNANAVELU

M. Issue Cheque in favour of GNANAVELU

Work Completed
Checked and verified

Materials checked and Verified. Works Completed.
A.S. Murrays
18/03/22

Figure 9.2.4. Plumbing Materials invoice.

9.3 Feedback on facilities (5) Total Marks 5.00

Institute Marks : 5.00

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 tittles 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.

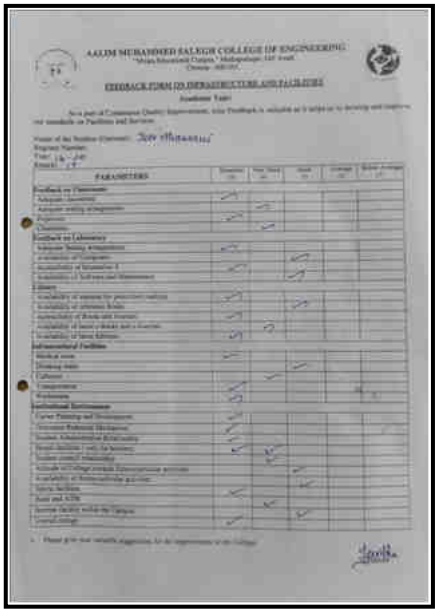


Figure 9.3.1. Feedback forms on Infrastructure and Facilities.

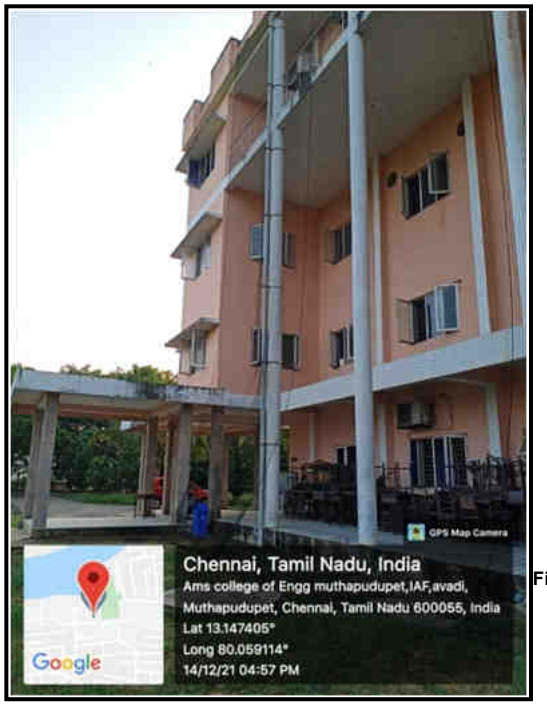


Figure 9.3.2. Rain Water Harvesting Arrangement in the Campus.

Figure 9.3.3. 20 KW Rooftop Solar Panel.

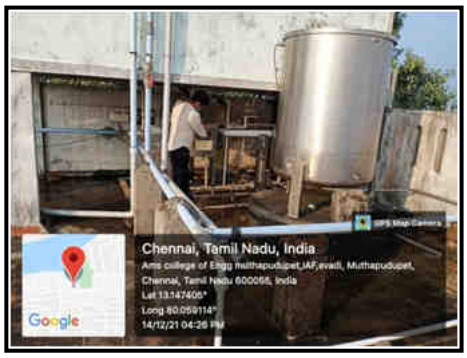


Figure 9.3.4. R-O WATER PLANT Facilities with a capacity of 500 l/hr.

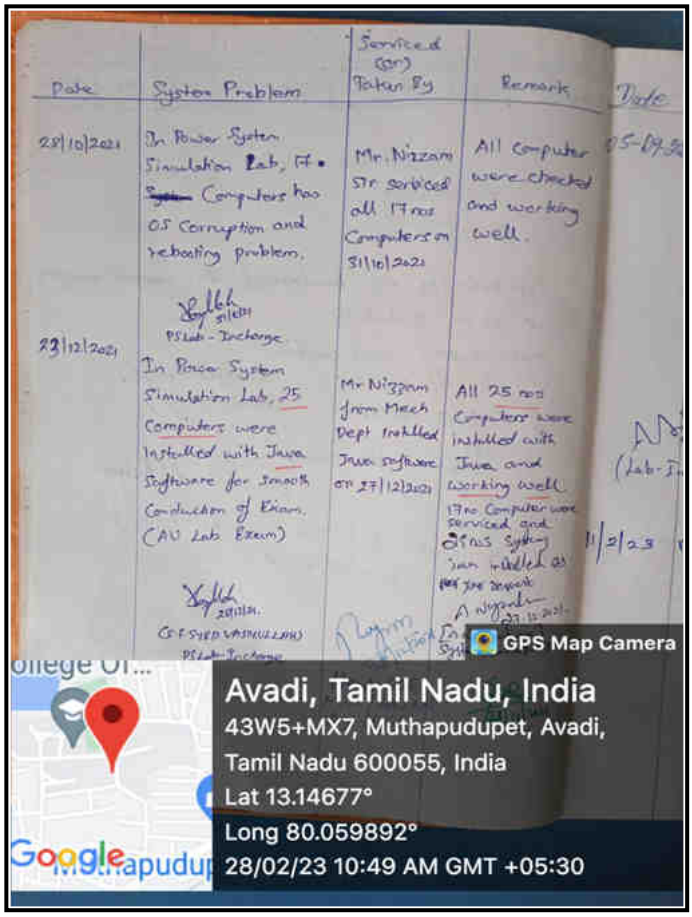


Figure 9.3.5. PS Laboratory Service Register.

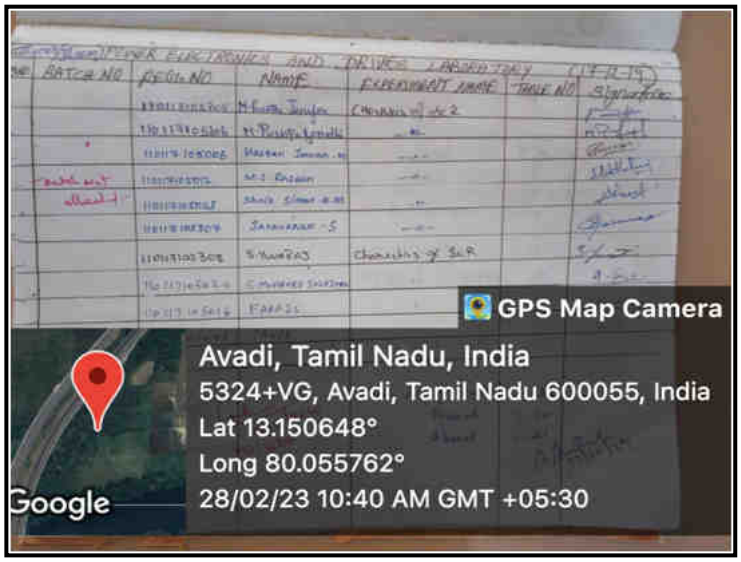


Figure 9.3.6. Power Electronics and Drives Laboratory student register.

Figure 9.3.7. Complaint box outside Principal's Chamber.

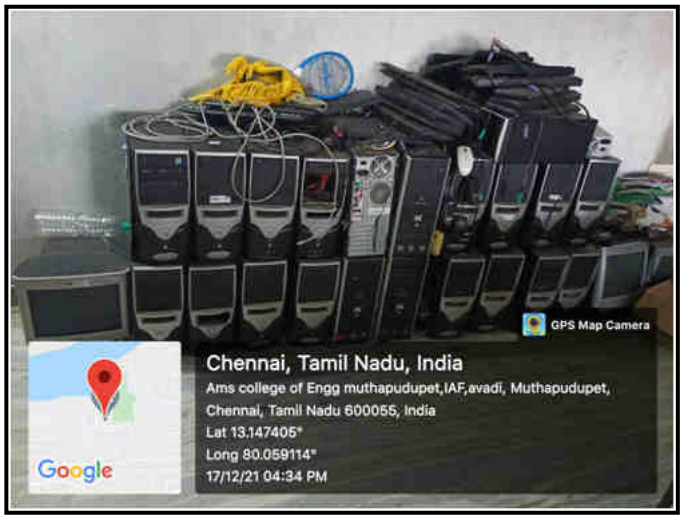


Figure 9.3.8. e-Waste Disposal.

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks : 5.00

A. Scope of 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

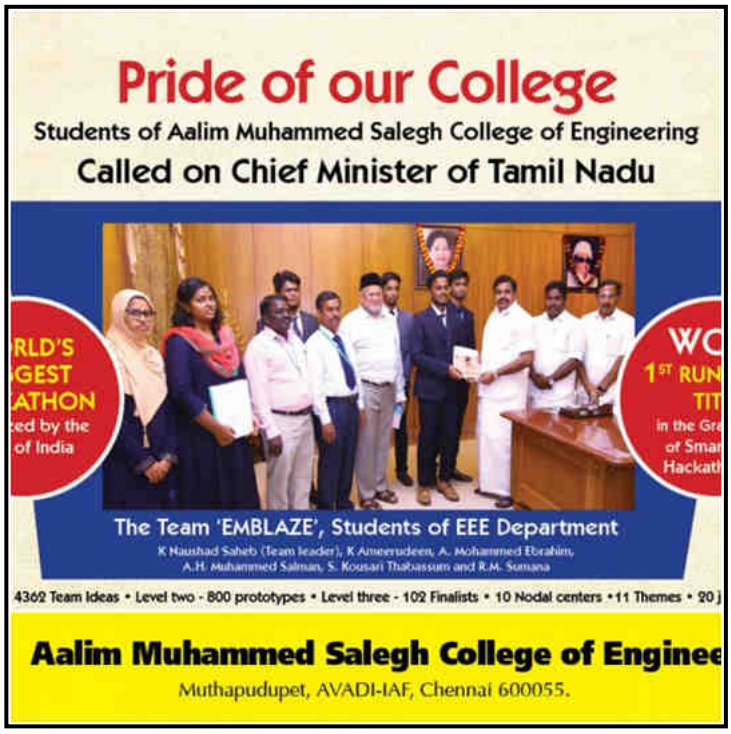


Figure 9.4.1 Team EMBLAZE Students of EEE won the First Runner Up award SMART INDIA HACKATHON 2018

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 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
   - ❖ Central Library
   - ❖ Digital Library
   - ❖ Department Library
2. NPTEL / Online Courses
3. Mini Projects
4. Industrial Visits
5. SOFT 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 tittles 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

b.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.

c.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.

NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING

NPTEL

2015-12-01

To
The Principal
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
NIZARA EDUCATIONAL CAMPUS, MUTHAPUDUPET, AVADI IAF
CHENNAI - 600055
TAMIL NADU

Dear Sir/Madam,

Sub: Establishing SWAYAM NPTEL Local Chapter in your college

Greetings from the NPTEL office.

This is to acknowledge the receipt of your letter accepting to host SWAYAM NPTEL Local Chapter in your institution.

The **Single Point of Contact (SPOC)** nominated from your college is

Name of SPOC: VIVEKANAND E
Designation: ASSISTANT PROFESSOR
Department: MECHANICAL ENGINEERING
Contact No: [illegible]
E-mail id: [illegible]@aalimec.ac.in

We wish to inform you that all future correspondence related to NPTEL contents and online courses will be made to the afore-mentioned SPOC. He/she will be constantly updated with all the latest NPTEL initiatives which then may be circulated among the students.

We are also happy to share that a dedicated SWAYAM NPTEL Local Chapter web page is being created and your institution will have a separate page on it (http://nptel.ac.in/Local/Chapter

Thanking you.

Sincerely,

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT MADRAS

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.

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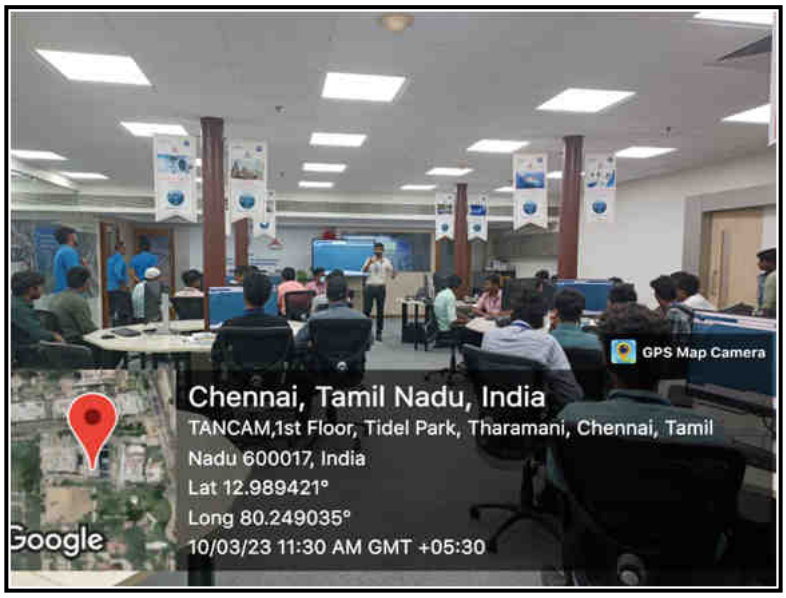


Figure 9.4.7 .II Year Students of Mechanical Engineering Department went for Industrial visit to Tamilnadu Centre of Excellence for Advanced Manufacturing (TANCAM) in TIDEL Park, Chennai on 10.03.2023

5. Soft Skill Training Programme (SSTP):

We also provide SSTP for the First and Second year Students in order to develop various skills like Interpersonal skills, Communications skills, Social skills, etc.

Figure 9.4.8 SSTP for Professional development

6. INTERNSHIPS / IN-PLANT TRAININGS:

To improve hands-on experimentation in desired fields, many students are encouraged to participate in Internship and In- plant training in several government/private industries.

TAMILNADU GENERATION &DISTRIBUTION CORPORATION LIMITED
NORTH CHENNAI THERMAL POWER STATION-I
CERTIFICATE

This is to certify that Thiru. K.Babu , BE-Electrical and Electronics Engineering, Aalim Muhammed Salegh college of Engineering, Avadi,Chennai-,600 055, has undergone In-plant Training From 09.01.2023 to 13.01.2023 at North Chennai Thermal Power Station-I,TANGEDCO (TNEB),Chennai - 120.

Place: Chennai - 120.
Date: 13.01.2023

13/01/23
ASSISTANT EXECUTIVE ENGINEER,
TRAINING,
NCTPS-I / CHENNAI - 120.

Figure 9.4.9 In-Plant training certificate

7. PROFESSIONAL BODIES:

The Institution avails the memberships of various professional bodies such as ISTE, IET, CSI, etc. Wherein the students get the chance to enhance their subject knowledge globally. In Connection to this, the ISTE student's chapter is established in the year 2021.

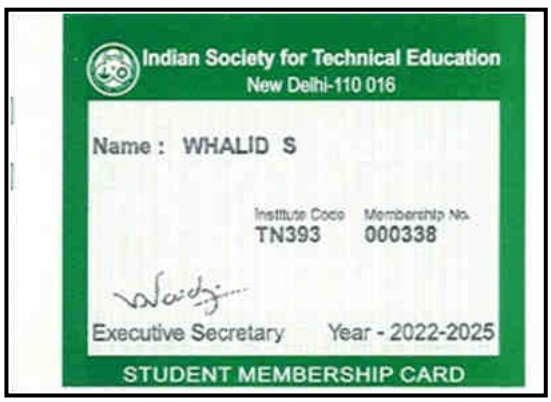
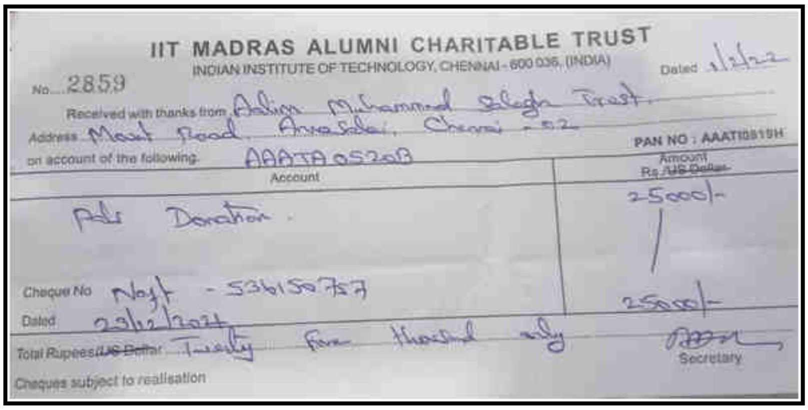


Figure 9.4.10 ISTE Student Membership Card

8. PALS:

As an initiative to make the students expose to the scientific and technological development, we collaborate with PALS which is an educational initiative by volunteers from Alumni Fraternity of various IITs, for the benefit of students of engineering colleges in Tamil Nadu.

Figure 9.4.11 PALS –INNOWAH Participation by our college faculty members and Students



IIT MADRAS ALUMNI CHARITABLE TRUST
INDIAN INSTITUTE OF TECHNOLOGY, CHENNAI - 600 036. (INDIA)

No. 2859 Dated 1/2/22

Received with thanks from Adiga Muhammad Sleigh Trust.
Address Mount Road, Anna Salai, Chennai - 52
PAN NO : AAATI0519H
on account of the following. AAATA0520B

Account	Amount Rs./~~US Dollar~~
Pals Donation.	25000/-
Cheque No Neft - 536150757 Dated 23/12/2021	25000/-

Total Rupees/~~US Dollar~~ Twenty five thousand only

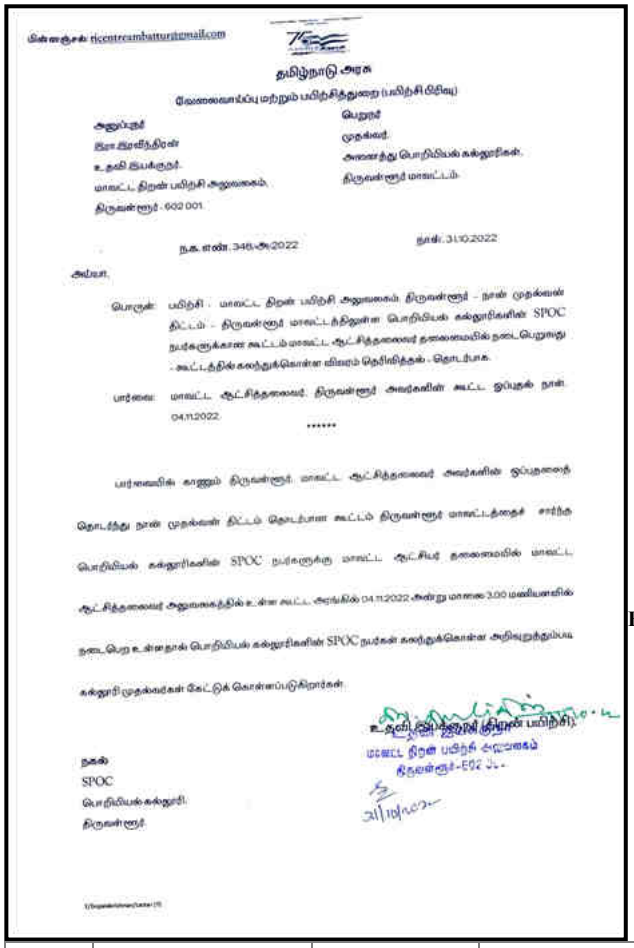
Secretary

Cheques subject to realisation

Figure 9.4.12 PALS Renewal Receipt

9. NAAN MUDHALVAN - States Skill Development Scheme

The Tamil Nadu Naan Mudhalvan Scheme was unveiled on March 1^{st}, 2022 by MK Stalin, the state's chief minister. The main Objective is to Provide Skill Development Training to impart current industry skill gap. Through this flagship program the students will be able to get trained and ensure they get jobs according to their skill sets. Now II and III year total 577 Students of our College were part of the scheme.



மின்னஞ்சல் ricentreambatturi@gmail.com

தமிழ்நாடு அரசு

தேவைவைப்பு மற்றும் பயிற்சித்துறை (பயிற்சி பிரிவு)

அனுப்புநர்
ஜோ.இரவிந்திரன்
உதவி இயக்குநர்,
மாவட்ட திறன் பயிற்சி அலுவலகம்,
திருவள்ளூர் - 602 001.

பெறுநர்
முதல்வர்,
அனைத்து பொறியியல் கல்லூரிகள்,
திருவள்ளூர் மாவட்டம்.

ந.க. எண். 346/அ/2022 நாள்: 31.10.2022

அய்யா,

பொருள்: பயிற்சி - மாவட்ட திறன் பயிற்சி அலுவலகம், திருவள்ளூர் - நான் முதல்வன் திட்டம் - திருவள்ளூர் மாவட்டத்திலுள்ள பொறியியல் கல்லூரிகளின் SPOC நபர்களுக்கான கூட்டம் மாவட்ட ஆட்சித்தலைவர் தலைமையில் நடைபெறுவது - கூட்டத்தில் கலந்துக்கொள்ள விவரம் தெரிவித்தல் - தொடர்பாக.

பார்வை: மாவட்ட ஆட்சித்தலைவர், திருவள்ளூர் அவர்களின் கூட்ட ஒப்புதல் நாள் 04.11.2022.

.....

பார்வையில் காணும் திருவள்ளூர் மாவட்ட ஆட்சித்தலைவர் அவர்களின் ஒப்புதலைத் தொடர்ந்து நான் முதல்வன் திட்டம் தொடர்பான கூட்டம் திருவள்ளூர் மாவட்டத்தைச் சார்ந்த பொறியியல் கல்லூரிகளின் SPOC நபர்களுக்கு மாவட்ட ஆட்சியர் தலைமையில் மாவட்ட ஆட்சித்தலைவர் அலுவலகத்தில் உள்ள கூட்ட அரங்கில் 04.11.2022 அன்று மாலை 3.00 மணியளவில் நடைபெற உள்ளதால் பொறியியல் கல்லூரிகளின் SPOC நபர்கள் கலந்துக்கொள்ள அறிவுறுத்தும்படி கல்லூரி முதல்வர்கள் கேட்டுக் கொள்ளப்படுகிறார்கள்.

உதவி இயக்குநர் (திறன் பயிற்சி)
மாவட்ட திறன் பயிற்சி அலுவலகம்
திருவள்ளூர்-602 001.

31/10/2022

நகல்
SPOC
பொறியியல் கல்லூரி,
திருவள்ளூர்.

Figure 9.4.13 NAAN MUDHALVAN SCHEME SPOC Communication Letter

Table 9.4.1: Number of students benefitted through Self Learning

S.No.	CONTENT	No. of Students benefitted in CAY 2021-22	No. of Students benefitted in CAYm1 2020-21	No. of Students benefitted in CAYm2 2019-20
1-a	Central Library	243	124	266
1-b	Department Library	148	92	111
2	NPTEL / Online Courses	74	71	61
3	Mini Project	98	124	200
4	Industrial Visit	627	139	347
5	SSTP	518	416	472
6	Internships / In-plant Training	52	312	907
7	Professional Bodies	43	-	-
8.	PALS	7	68	872
9.	Naan Mudhalvan Scheme	577	NA	NA

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

Institute 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:

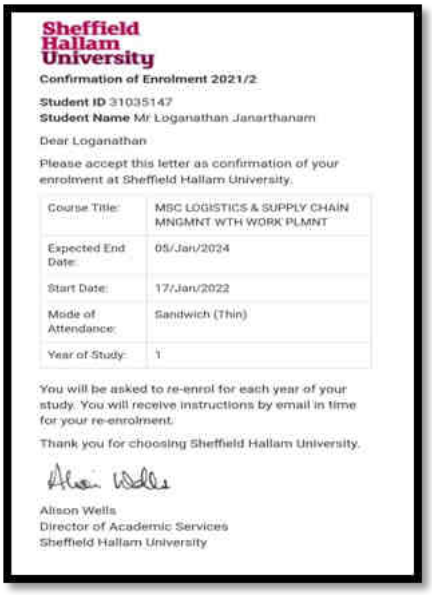
Table 9.5.1 Career Guidance, Training & Placement Cell.

S.NO.	NAME	DESIGNATION	PARENT DEPARTMENT
1	Mr. RAVI KUMAR R	PLACEMENT OFFICER	CPD Cell
2	Ms. RAJALAKSHMI B	PLACEMENT CO- ORDINATOR	CIVIL Engineering
3	Mr. MOHAMMED YOUSUF M	PLACEMENT CO- ORDINATOR	MECHANICAL Engineering
4	Ms. AMARSHREEE V	PLACEMENT CO- ORDINATOR	CSE
5	Ms.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:

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 sector 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)



Sheffield Hallam University

Confirmation of Enrolment 2021/2

Student ID 31035147
Student Name Mr Loganathan Janarthanam

Dear Loganathan

Please accept this letter as confirmation of your enrolment at Sheffield Hallam University.

Course Title:	MSC LOGISTICS & SUPPLY CHAIN MNGMNT WTH WORK PLMNT
Expected End Date:	05/Jan/2024
Start Date:	17/Jan/2022
Mode of Attendance:	Sandwich (Thin)
Year of Study:	1

You will be asked to re-enrol for each year of your study. You will receive instructions by email in time for your re-enrolment.

Thank you for choosing Sheffield Hallam University.

Alison Wells
Director of Academic Services
Sheffield Hallam University

Figure 9.5.2 Mr. LOGANATHAN JANARTHANAM of Mechanical Engineering has joined M.Sc at Sheffield Hallam University

Table 9.5.2 Higher Studies Details

Academic Year 2021-22

DEPARTMENT	NO. OF STUDENTS- TAKING UP HIGHER STUDIES
MECHANICAL	8
ECE	10
CSE	5
IT	12

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 List of Soft Skills Provided

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	Aptitude Mr. T. Karthik Verbal Asst. Prof. Janani.L Technical 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	Aptitude & Technical 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	Aptitude Mr. T. Karthik	CSE	NA	33
				ECE	NA	22
				EEE	NA	22
				IT	NA	10

Table 9.5.5 Students Placed Details

Academic Year 2021-22

DEPARTMENT	NO. OF STUDENTS PLACED
MECHANICAL	46
ECE	30
CSE	39
IT	09

Table 9.5.6 CPD Cell Weblink

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

Institute Marks : 5.00

Entrepreneurial Development Cell (EDC)

Entrepreneurial Development Cell (EDC) was established on its own initiative on 15th February 2012.ED Cell has been conducting programs in entrepreneurship with concerted initiatives to promote entrepreneurship among the students.

A. Entrepreneurship Initiatives

Objective:

To prompt 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:

1. To create awareness on entrepreneurship among students,
2. To inculcate entrepreneurial spirit and culture among the Engineering graduates.
3. To conduct programs in entrepreneurship enabling skills.
4. To identify and motivate budding entrepreneurs.
5. To assist entrepreneurs in sourcing finance, identifying markets, preparation of business plan and product development.
6. To guide the prospective entrepreneurs in knowledge based ventures.
7. To help entrepreneurs to acquire necessary skills to run the industry effectively.
8. To bridge the gap between Industries and Institutions by carrying out the research activities for the industries.
9. To conduct skill industrial development training programs with updated technologies.
10. To provide need-based consultancy services & industries.

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

Figure 9.6.1 Entrepreneurship Development by Er.Mohammed Adhil Founder & CEO, Ifelse Technologies, Chennai

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	ENTERPRENEUR CLUSTER DEVELOPMENT TALK(ECDT)	Ms.SYEDALI FATHIMA., TEAM LEAD, ACCENTURE Pvt Ltd,CENNAI.
5.	11.11.2021	ENTERPRENEURSHIP PROGRAMME –STUDENT INDUCTION PROGRAMME 20221-22	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 Enterpreneurs 2021-22

DEPARTMENT	NO. OF ENTERPRENEURS
MECHANICAL	4

ECE	2
CSE	2
IT	3

GSTIN 33EGPPM6839C1Z4

Legal Name Saleem Mohammed Waqqas

Trade Name, if any G M S Bag Industries

Details of Proprietor

1

Name Saleem Mohammed Waqqas

Designation/Status Proprietor

Resident of State Tamil Nadu

Figure 9.6.2 Sample for Entrepreneurship

Table 9.6.5 ED Cell Web link

ENTREPRENEURSHIP DEVELOPMENT CELL	**https://www.aalimec.ac.in/facilities/entrepreneurship-development-cell/**

9.7 Co-curricular and Extra-curricular Activities (10) Total Marks 10.00

Institute 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 Muhammed Salegh College of Engineering
2.	**ENGLISH LITERARY AND INNOVATIVE FORUM (ELIF) CLUB**	Ms.C.ABHINAYA., M.A., M.Phil., Asst.Prof. English , Aalim Muhammed Salegh College of Engineering

1. ROBOTICS CLUB

The Aalim Mohammed Salegh College 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 EEE and ECE 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:

1. Debate
2. Shipwreck

3. Stress Interview
4. 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-CURICULLAR 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

3. 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 Outdoor and Indoor 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 7/12/22and 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 congratulates all the winners.

Table 9.7.4 STUDENTS PARTICIPATED IN SPORTS EVENTS

ACADEMIC YEAR	STUDENTS PARTICIPATED IN SPORTS EVENTS
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/)**

B. NCC, NSS and other clubs

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, Puliyur, 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)

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. PULIYUR 4. KADAVUR 5. PANDESWARAM.**

Figure 9.7.7 Student rural visit in Palavedu village, Tiruvallur Dist

Figure 9.7.8 UBA College Participation Poster

Table 9.7.6 STUDENTS PARTICIPATED IN NSS EVENTS

ACADEMIC YEAR	STUDENTS PARTICIPATED IN NSS EVENTS
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://www.aalimec.ac.in/nss/ (https://www.aalimec.ac.in/nss/)

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 PRGRAMME	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

Table 9.7.9 Academic year 2021-22 Events/ Activities

S.NO.	NAME OF THE EVENT / ACTIVITY	DATE	NO.OF PARTICIPANTS	NO.OF PEOPLE BENEFITED
1	A AWARENESS PROGRAMME ON STRATEGIC APPROACH TOWARDS OMICRON	25.01.2022	280	280
2	REPUBLIC DAY 2022	26.01.2022	80	80
3	ROLE OF YOUTH IN FUTURE INDIA-ONE DAY SEMINAR	22.12.2021	400	400
4	MEDICAL CAMP AND COVID-19 VACCINATION CAMP	09.12.2021	158	158
5	COVID-19 MEGA VACCINATION DRIVE	03.12.2021	215	215
6	IMPORTANCE OF AGRICULTURE	18.11.2021	282	320
7	ONLINE PLASTIC ERADICATION AWARENESS PROGRAMME	15.11.2021	282	320
8	DENGUE , MALARIA AND COVID-19 AWARENESS PROGRAMME,	09.11.2021	232	285
9	RASHRIYA EKTA DIWAS (NATIONAL UNITY DAY)	02.11.2021	560	560
10	VIGILANCE AWARENESS WEEK	27.10.2021 to 3.11.2021	560	560
11	COVID-19 VACCINATION CAMP	27.08.2021	5	67
12	INDEPENDENCE DAY CELEBRATION	15.08.2021	155	155
13	BHARAT KI AZADI KA AMRIT MAHOTSAV CELEBRATIONS	12.08.2021	50	50
14	INTERNATIONAL DAY OF YOGA	21.06.2021	170	560
15	FIELD ACTIVITIES IN THE CRITICAL COVID -19 PANDEMIC SITUATIONS	29.05.2021	9	160

5. 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 9.7.10 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)

Table 9.7.11 YOUTH RED CROSS WEBLINK

YOUTH RED CROSS	https://www.aalimec.ac.in/yrc/ (https://www.aalimec.ac.in/yrc/)

6. National Cadet Corps (NCC)

The **NCC** of **1(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 Feburary 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 Day ceremony

Figure 9.7.11 NCC Students collecting the plastic and other waste products in Marina Beach

Table 9.7.12 Students participated in NCC Events

ACADEMIC YEAR	STUDENTS PARTICIPATED IN NCC EVENTS
2022-2023	**01**
2021-2022	**04**

Table 9.7.13 NCC WEBLINK

NCC	**https://www.aalimec.ac.in/national-cadet-corps/ (https://www.aalimec.ac.in/national-cadet-corps/)**

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 :

To achieve the vision, the institutional Mission envisages dedicated efforts:

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 SETUP

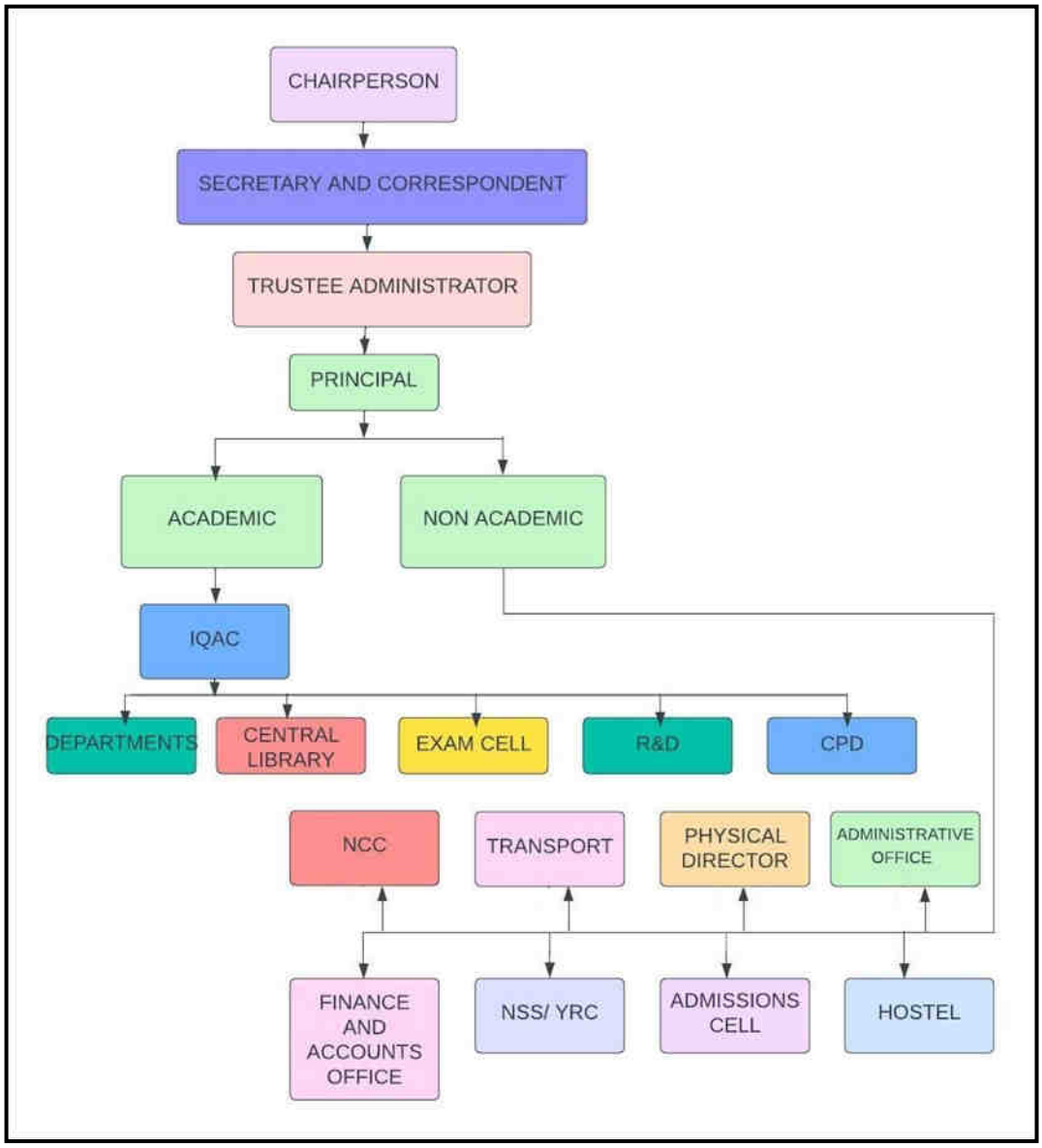


Figure 10.1.2.1 ORGANIZATION CHART

GOVERNING COUNCIL

The Governing Council meets once in every year once, where the Principal presents information on the academic performance, all activities carried out and the achievements of the faculty members and students during the previous semester. Deliberations and discussions are held and decisions are taken on Policy changes if any, budgetary allocations and on any other issue that needs to be addressed for the forthcoming year. The members are drawn from distinguished cross sections of the society as shown in the table below.

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 activity of the institution is supervised by the Academic Committee for which, Principal is the Chairman and all heads of the departments are members. The Committee meets every six months once to discuss the academic performance and to take decisions on critical 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
1	Dr. S. Sathish	Principal	Chairperson
2	Dr. N.R.Shanker	Director IQAC	Member
3	Dr. S. Arif Abdul Rahuman	Head/IT	Member
4	Dr. A.S. Salma Banu	Head/ECE	Member
5	Dr. S. Ramkumar	Head / MECH	Member
6	Mr. Ahsan Sheriff	Head/CSE	Member
7	Er. M.S Rajan	Head/EEE	Member
8	Dr. M. Afzal Ali Baig	Head/CIVIL	Member
9	Ms. A. Ashma	Head/S&H	Member
10	Dr. K. Suresh Kumar	NSS Programme Officer	Member
11	Er. K. Khaja Mohideen	ED Cell Coordinator	Member
12	Er.P. Muni Raja Chandra	Exam Cell Coordinator	Member
13	Dr. A. Saleem	Admissions Coordinator	Member
14	Mr. R. Ravikumar	CPD Cell Coordinator	Member
15	Dr. Mariamma Alex	Chief Librarian	Member
16	Mr. G. Vinoth Kumar	Physical Director	Member
17	Er. Abdullah B	Campus Manager	Member

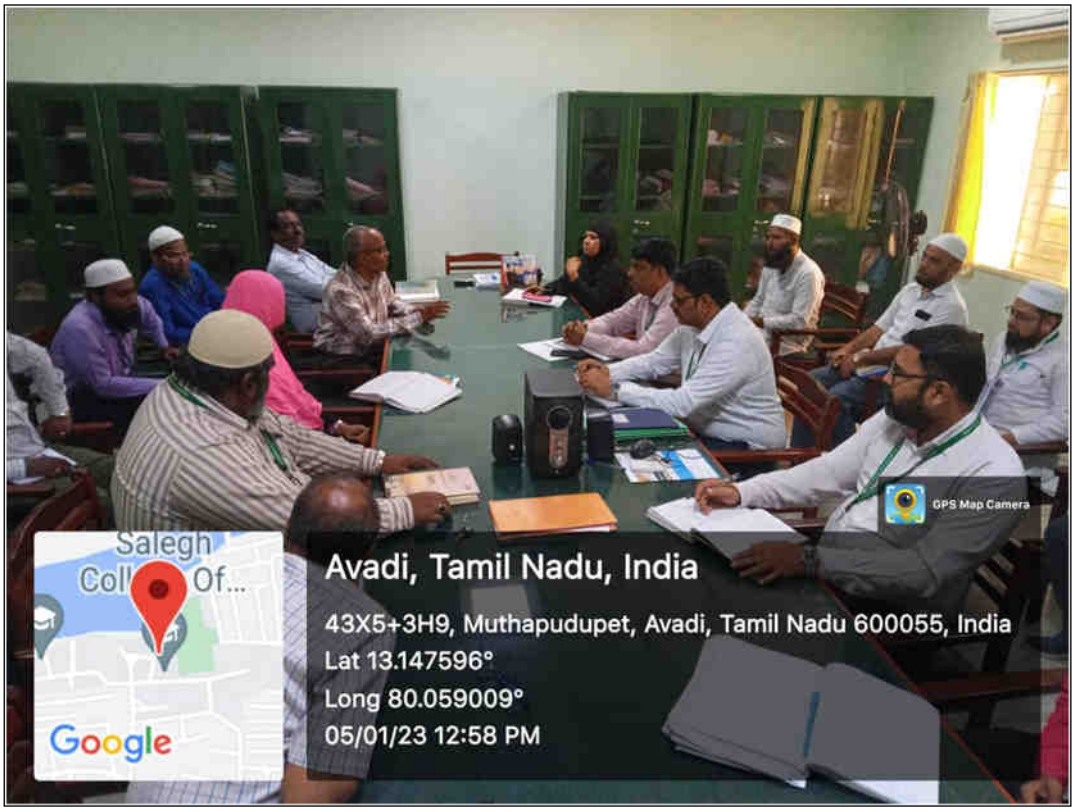


Figure 10.1.2.2 Academic monitoring Committee held on 05.01.2023 at IQAC

FUNCTIONS OF VARIOUS BODIES

The college has several committees constituted by the Academic Council which nominates the Coordinators of the various committees with their duties and responsibilities. The committees are

Table 10.1.2.3 Committees and its role

S. No	Name of the Committee / Cell	Purpose of the Committee / Cell	Incidence of Committee Assemblage
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 helps the institution to continuously improve and innovate in its pursuit of excellence in education and related services.	General Meeting once in a Academic year
2	Faculty Appraisal Committee	The role of the appraisal committee is to assess the employees performance based on a set of criteria or goals established by the organization, and to provide feedback and guidance on how the employee can improve their performance in the future.	General Meeting once in a Academic year
3	Research and Development Cell (R&D)	The Role of R&D Cell is to promoting research and innovation, creating a research culture, and contributing to the growth and development of the institution.	General Meeting twice in a Academic year
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 and Welfare Committee	To examine the various measures taken for the welfare of employees/ students and recommend any further improvements, if required.	General Meeting Once in a Academic year and Circumstantial meeting if necessary

7	Anti-Ragging Committee	To ensure compliance with the provisions of the Regulations as well as the provisions of any law for the time being in force concerning ragging in the Institution.	General Meeting Once in a Academic year and Circumstantial meeting if necessary
8	Hostel Committee	To Keep a check on the daily issues regarding the hostel infrastructure, the housekeeping issues, mess facilities, etc. ensures an enriching stay at the campus.	General Meeting Once in a Academic year and Circumstantial meeting if necessary
9	Mess Committee	To Keep a check on the daily issues regarding the mess facilities and quality of food, etc.	General Meeting Once in an Academic year.
10	Transport Committee	To review the transportation administrative procedures and provide feedback to the Board of Management.	General Meeting Once in a Academic year
11	SC/ST Development 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 Grievances and Redressal 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 encourage the students to utilize Sports and Gym facilities available in the college.	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 has published a hand book under the guidance of the Governing Council detailing all service rules and regulations.

2. Awareness is created every year among the employees and students, by placing the rules and regulations of the college, promotional and recruitment policies in the website.

Recruitment Process

1. Recruitment policy is the backbone for the achievement of academic goals of the institution.

2. The recruitment to the teaching cadre is both by direct recruitment and by promotion. The minimum qualification for the faculty is M.E., M. Tech., and M.Sc., with Ph. D/SET/NET.

3. The senior positions like Associate Professor or Professor are filled by promotion or sometimes by direct requirement.

4. The selection of the candidates is completely based upon competence, Knowledge, skill, attitude and values required for the profession.

5. Subsequently an order will be given in popular magazines, College websites and the Faculty Plus Website.

6. On receipt of applications, as per the number of posts and specialization, required candidates will be short listed and called for an interview.

7. At the time of Interview, the selection committee comprising of Management, Principal, HOD and external Subject Expert will assess the candidate.

8. Based on the evaluation made by the Selection Committee, Appointment Letter will be issued.

9. The Appointed Faculty Members should report to Principal and submit a Joining Letter at the time of joining the Institution.

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 for 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.

Group 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 360^0 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

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.

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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

10.1.2.6 Mess Committee		
Date	**Issues**	**Action Taken**
26.10.2022	RO drinking water availability should be ensured	A Separate R.O. Line was installed for the dining hall.
	Delayed purchasing of Groceries	Purchase of Groceries is done in One Week advance to avoid any deficit in the Store
	Instruction was given to Committee members to change the Mess timings to avoid ragging	For a ragging Free Environment, Mess Timings both Lunch as well as Evening Snacks Timings were changed.
	Follow up should be maintained 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 Purchased has to be verified	Milk quality was ensured with the help of Lactometer and the readings were entered for follow up
	LPG Cylinder Purchase to be done before two days	LPG Cylinder delivery is maintained in a separate Note for Effective follow up.
06.08.2021	Hand Sanitizers and Soaps are not available in common places and toilets	Campus manager was informed about the Hand Sanitizers and Soaps in each Toilets
	COVID-19 SOPs are not maintained	Instructed the Mess In-charge to adhere the SOPs
	Social Distance markings are not proper	Campus manager was informed about the markings

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MESS COMMITTEE ACTION TAKEN REPORT

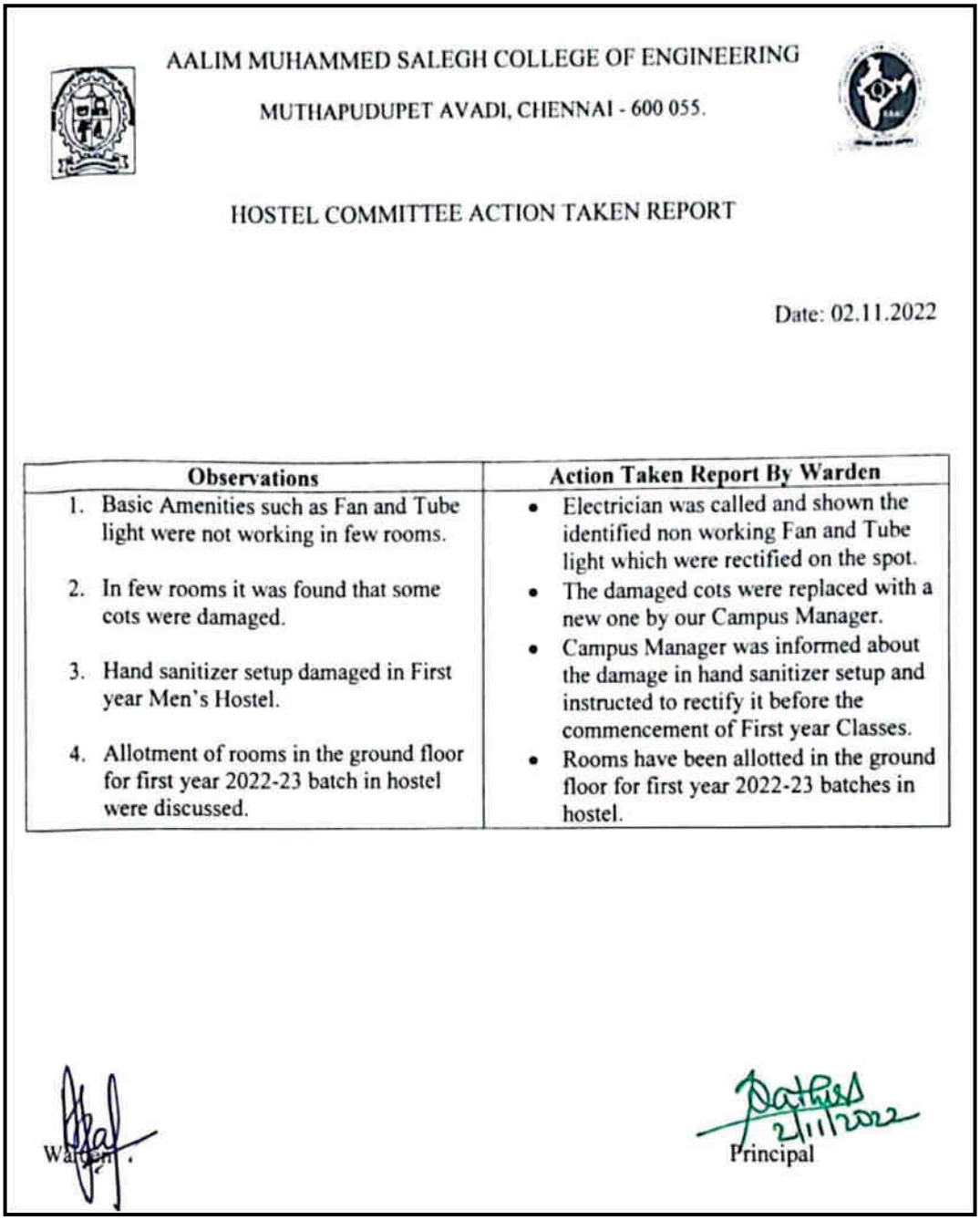
Date & Day: 26.10.2022 (Wednesday)

OBSERVATIONS	ACTION TAKEN
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.	• 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

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 on 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

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HOSTEL COMMITTEE ACTION TAKEN REPORT

Date: 02.11.2022

Observations	Action Taken Report By Warden
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.	• 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

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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Discipline and Welfare committee

Action Taken Report

Date: 19.01.2023

Observations	Action Taken Report by Principal
1) 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.
2) 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.
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

Co-convener Convener Principal

Figure 10.1.2.7 Discipline and Welfare Committee Action Taken Report

10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks : 10.00

Decentralization in working & grievance redressal mechanism

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 HODis 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 Conducton and off campusinterviews
7	Entrepreneurial Development Cell Coordinator	To create awareness regarding entrepreneurship as a career option through conducting ED programs andarranging 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 redressel cell.**

Grievance Redressal Cell

After meticulous inquiry genuine grievances are addressed and confident level restored of the complainant

Grievance Redressal Committees

Table 10.1.3.2 Women Grievances and Redressal Committee

S.No	Name	Designation	Role
1	Dr.A.S. Salma Banu	Assoc. Professor	Faculty
2	Mrs. Bhuvaneswari 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.SRajan	Head/EEE	Member
5	Ms. A. Ashma	Head/S&H	Member
6	Ms. Bhuvaneswari 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

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

10.1.4 Delegation of financial Powers.

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

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.
4.

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.

The information is also disseminated to the newly joined faculty members during the faculty orientation program.

B. Dissemination of the Student and Staff Information:

Table 10.1.5.2. Website link for the 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/lib20/Desktop/C%2010%20All%20Metrics/%C2%A0https:/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/ (https://www.aalimec.ac.in/departments/ce/)
5	INFORMATION AND TECHNOLOGY	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 liks are given below.

Events:

https://www.aalimec.ac.in/departments/me/events/ (https://www.aalimec.ac.in/departments/me/events/)

Club Activities:

http://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:

http://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.

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

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.

10.2.1 Adequacy of budget allocation (10) Institute Marks : 10.00

Adequacy of budget allocation.

A. Quantum of budget allocation for 4 Years

Table 10.2.1.1

S.No.	Year	Budget (INR)	Utilized (INR)
1	2021-22 (INR)	63870000	61373349.46
2	2020-21 (INR)	56000000	49711704.4
3	2019-20 (INR)	102000000	93615516.1
4	2018-19 (INR)	90850000	90235880.7

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 and the institution never had any serious budget crunch that affected the normal functioning of the institution.

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

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

Table 1 - CFY 2022-23

Total Income 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	0	0	0	0

Table 2 - CFYm1 2021-22

Total Income 60522726.5				Actual expenditure(till…): 61373349.30			Total No. Of Students 1016
Fee	Govt.	Grants	Other sources(specify) Interest from bank, by Misc. Receipts, By Sale of Applications, By rent from Bank(PNB0, By Excess of Expenditure over income	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
51273300	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(PNB), By Misc Receipts, By Sale of Applications, By rent from Bank, By Guest lectures, Workshop, Softskill dpmt etc., By excess of Expenditure	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
50289802	0	0	3194202.01	45437785	4273918		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 rent from Bank, By Guest Lect., Workshop, Softskill dpmt etc, 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**

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

10.3.2 Utilization of allocated funds (20) Institute Marks : 20.00

Utilization of Allocated Funds

(Program needs to state how the budget was utilized during the last four assessment years)

A. Budget Utilization for 3 years

A. 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.)**
200000	**119287**	**190000**	**120862**	**655000**	**560537**

Utilization of allocated funds for past 3 years

	CAY (2021-22)	CAY m1(2020-21)	CAYm2(2019-20)
Utilization of allocated funds	**59.6 %**	**63.6 %**	**85.5 %**

10.3.1 Adequacy of budget allocation (10) Institute Marks : 10.00

Adequacy of Budget Allocation

A. Quantum of Budget Allocation for 3 Years

Details of Budget allocated and utilized for the years 2021 - 2022, 2020 - 2019, 2019 -2020 are provided as follows.

Table 10.3.1.1

CAY (2021-22)	CAY (2020-21)	CAYm1(2019-20)
Budget Allocation (Rs.)	**Budget Allocation (Rs.)**	**Budget Allocation (Rs.)**
200000	**190000**	**655000**

B. Justification of Budget Allocated for 3 years

The HoD seeks the letter of intent of budgetary proposals from the Laboratory In charges for upkeep the maintenance of Laboratories in conjunction with Academic Programmes of Affiliating University. In addition, the faculty members also required to propose the budget for various departmental activities such as Industrial Visits, Expert Lectures, Conferences, Maintenance of the department, etc. Based on the budget provided by lab in charges and Faculty Members, the final budget will be proposed. The Management is very conscious of the responsibility in managing the Institution and very responsive in allocating requisite 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
0	0	0	0	0

Table 2 :: CFYm1 2021-22

200000		Actual expenditure (till…): 119287		Total No. Of Students 178
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
50000	150000	24816	94471	670.15

Table 3 :: CFYm2 2020-21

190000		Actual expenditure (till…): 120862		Total No. Of Students 237
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
40000	150000	24853	96009	509.97

Table 4 :: CFYm3 2019-20

655000		Actual expenditure (till…): 560537		Total No. Of Students 316
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
105000	550000	76275	484262	1773.85

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	25000	1593	25000	20001	50000	44256
Software	0	0	0	0	0	0	0	0
Laboratory consumable	0	0	50000	28161	50000	30669	150000	121280
Maintenance and spares	0	0	25000	22723	5000	250	50000	32019
R & D	0	0	0	0	0	0	0	0
Training and Travel	0	0	100000	66310	100000	65340	400000	362982
	0	0	0	500	10000	4602	5000	0
Total	**0**	**0**	**200000**	**119287**	**190000**	**120862**	**655000**	**560537**

10.4 Library and Internet (20) Total Marks 20.00

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

Institute Marks : 10.00

Library and Internet

Quality of Learning resource:

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
5. e-Kumbh
6. IEI
7. Sleek

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
Muthapiduppet, Avadi – IAF, Chennai – 600055
CENTRAL LIBRARY

Name of the ILMS Software	Version	Year of automation
INSPIRO PLUS ERP 6.1	ERP VERSION 6.1	2013

	Existing (Acc. No 32871-Acc.No 44034)		Newly added in the year 2022-2023 (Acc. No 44035-Acc.No 44367)		Total	
	No.	Value (Rs.)	No.	Value (Rs.)	No.	Value (Rs.)
Text Books	11036	3,960,860.99	321	103119.2	11357	4103980.19
Reference Books	128	102,494.80	7	5159	135	107653.8
e-Books	783		30		813	
Journals	73	3360728.34	5	214849	78	3575577.34
e-Journals	Delnet, NDL, IEI & IETE,	54286	Delnet	13570	Delnet, NDL, IEI & IETE,	67856
CD & Video	2720		-		2720	
Library automation	INSPIRO PLUS ERP 6.1					
Weeding (Hard & Soft)	778				778	
Others (New Papers)		5594				5594
TOTAL		76,83,908.33		426697.2		8110605.33

Prepared by
LIBRARIAN
Central Library
Aalim Muhammed Salegh
College of Engineering

CHIEF LIBRARIAN
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Principal
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Figure 10.4.1.1. Index of available Library Resources.

Figure 10.4.1.2. Receipt of DELNET Subscription

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:

1. **Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

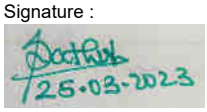
PSO1	Assess, create, and develop solutions for social and industrial issues by utilizing engineering design principles.
PSO2	Utilizing new technologies and modern tools, to develop creative answers for current issues in the manufacturing sector.

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 :

Place : I.A.F Avadi, Chennai
Date : 25-03-2023 16:55:17