AAA COLLEGE OF ENGINEERING & TECHNOLOGY

Accredited by NAAC with "A" Grade, Accredited by NBA (CIVIL, CSE, ECE, EEE, MECH) (An ISO 21001: 2018 Certified Institution) (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Amathur, Sivakasi - 626 005.

Department of Mechanical Engineering

(Approved Research Centre by Anna University)

CLUB ACTIVITIES

2023-2024



SAEINDIA
Society of Automotive Engineers INDIA

INDIAN SOCIETY OF HEATING REFRIGERATING & AIR CONDITIONING ENGINEERS
ISHRAE

VOLUME

02

INSTITUTIONS VISION MISSION

VISION of AAACET

Emerge as a Premier Institute for Quality Technical Education and Research with social responsibilities.

MISSION of AAACET

To offer state of the art infrastructure for under graduate, postgraduate and doctoral programs.

To provide holistic learning ambience blended with professional ethics, leadership qualities and social responsibilities.

To disseminate knowledge and undertake research in field of Engineering and technology.

To inculcate innovation and creativity among student community to become successful entrepreneurs.

To undertake collaborative projects with academic, research centres and industries to provide cost–effective solutions.

DEPARTMENT VISION MISSION

Vision of mechanical

Emerge as an eminent center of excellence in Mechanical Engineering for quality technical education and scientific research leading to social development.

Mission of mechanical

To impart quality education to create efficient Mechanical Engineers through eminent faculty.

To provide the state-of-the art infrastructure to facilitate the cutting edge research in emerging field of Mechanical Engineering.

To undertake multidisciplinary and collaborative projects with industries and research organizations.

To serve the society by developing competent engineers and entrepreneurs with outstanding leadership qualities and moral values.

Program Outcome

PO-1	Engineering knowledge; Apply the knowledge of mathematics, science, engineering fundamentals and Engineering to the solution of complex engineering problems.
PO-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.
PO-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.
PO-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.
PO-5	Modern tool usage - Create, select, and apply appropriate techniques, resources, and modern engineering and computer aided tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO-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.
PO-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.
PO-8	Ethics- Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO-9	Individual and team work - Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-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
PO-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.
PO-12	Life-long learning- Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program specified Outcome
&
Program Educational Outcome

Program Educational Objectives (PEOs)	
PEO 01	*The graduates will possess in-depth knowledge in the field of Mechanical Engineering and have a successful professional career in industry or by becoming an entrepreneur or by pursuing higher education and research.*
PEO 02	*The graduates will demonstrate profound problem solving skills and improved ability to design, develop economic and environment friendly Mechanical systems for multi-disciplinary societal needs.*
PEO 03	*The graduates will have ethical attitude and leadership quality to work efficiently with diverse teams, adapt to recent technologies by lifelong learning to solve real life problems.*

PROGRAM SPECIFIC OUTCOMES (PSOs) :	
PSO 01	*Ability to apply the basic knowledge to identify, formulate and solve problems in the domains of thermal, machine design, manufacturing and industrial engineering.*
PSO 02	*Ability to provide solutions to complex Mechanical Engineering problems by acquiring technological inputs and managerial skills and utilizing advanced technology with the help of modern CAD/CAM/CAE tools*
PSO 03	*Ability to develop mechanical and allied products with socio-economic concern by applying innovative ideas under ethical and professional constraints leading to a successful career.*

SUSTAINABLE DEVELOPMENT GOAL

SDG No.	SDG Goal
SDG 1	No Poverty
SDG 2	Zero Hunger
SDG 3	Good Health and Well-being
SDG 4	Quality Education
SDG 5	Gender Equality
SDG 6	Clean Water and Sanitation
SDG 7	Affordable and Clean Energy
SDG 8	Decent Work and Economic Growth
SDG 9	Industry, Innovation and Infrastructure
SDG 10	Reduced Inequalities
SDG 11	Sustainable Cities and Communities
SDG 12	Responsible Consumption and Production
SDG 13	Climate Action
SDG 14	Life Below Water
SDG 15	Life on Land
SDG 16	Peace, Justice and Strong Institutions
SDG 17	Partnerships for the Goals



Message from the Principal...



It is with great pride that I present the achievements of our Department of Mechanical Engineering for 2023-24. At AAA College of Engineering and Technology, we believe a great engineer is shaped by real-world exposure as much as by classroom learning. This year, our students earned the Autodesk Fusion 360 International Certification, trained in advanced vehicle diagnostics with industry experts at the Bosch Centre of Excellence, and visited leading industries in Madurai, Sivakasi and Kochi. Our faculty development programme on Additive Manufacturing, inaugurated by a professor from NIT Trichy, attracted more than 120 participants, and our national-level symposium MECDEZ 2K24 drew students from colleges across the region. I congratulate the HoD, faculty and students on this remarkable year, and I invite aspiring engineers to join a campus that prepares them for Industry 4.0 and beyond.

Dr. M. Sekar
Principal

Message from the HoD...



Welcome to the Department of Mechanical Engineering, where learning goes beyond textbooks and into the world of industry. In 2023-24, our students sharpened their design skills through international Fusion 360 certification, explored automotive safety and vehicle diagnostics through expert workshops, and gained first-hand knowledge on industrial visits to Madurai, Sivakasi and Kochi. They also showed their creativity and teamwork at MECDEZ 2K24, with its CAD design, water rocket and quiz events, and in bike sketching contests and the SAE Trek. Our faculty kept pace through development programmes and expert sessions, so that every student is guided by teachers who keep learning. I thank our Principal, management, faculty and student coordinators for this success. If you love machines, ideas and innovation, your journey begins here. - Dr. R. Selvabharathi, Professor & HoD, Mechanical Engineering

Dr. S. Selvabharathi
Professor & Head
Department of Mechanical Engineering

Club Activities

1	SAE INDIA	SAE India Collegiate Club of AAACET 2023–2024 Inauguration	27.04.2023
2	ISHRAE	Installation Ceremony	05.08.2023
3	ISHRAE	Implementation of 5S	28.11.2023
4	ISHRAE	Inudustrial Visit - JB Hydraulics – Madurai	15.03.2024
5	SAE INDIA	Office Bearers Meeting	19.08.2023
6	SAE INDIA	Advancement in Automotive Safety	21.08.2023
7	SAE INDIA	Industrial Visit – SNP Diary, Madurai	28.08.2023
8	SAE INDIA	Industrial Visit -Anna Aluminium Company Pvt Ltd., Kochi	07.09.2023 - 09.09.2023
9	SAE INDIA	Industrial Visit - Kerala Electrical & Allied Engg. Co. Ltd., Kochi	07.09.2023 - 09.09.2023
10	SAE INDIA	Visit Auto Expo and Trekking	30.09.2023
11	SAE INDIA	Tier 1 Events Conducted	10.10.2023 - 17.10.2023
12	SAE INDIA	Bike Sketching Competitions	13.10.2023
13	SAE INDIA	Industrial Visit - JB Hydraulics – Madurai	13.10.2023
14	SAE INDIA	Industrial Visit - Ruby Food Products Pvt Ltd	13.10.2023
15	SAE INDIA	Industrial Visit - The Kaka Indian Foundry	27.10.2023
16	SAE INDIA	Industrial Visit - Devendran Plastics Pvt. Ltd	27.10.2023
17	SAE INDIA	Advanced Vehicle Diagnostics	22.04.2024 - 24.04.2024
18	SAE INDIA	Project Expo	24.04.2024

Students Members 2023-2024

SL. No.	Member ID	Name of the students	Last Name	Grade
1	7230422201	Ramkumar	C	Student
2	7230422200	Seenivasan	S	Student
3	7230422199	Issac Reinhard	A	Student
4	7230422198	Jeyaprakash	M	Student
5	7230422197	Sam Sila Mercury	C	Student
6	7230422196	Anbuselvam	P	Student
7	7230422195	Vishwanath	P	Student
8	7230422194	Sethuraj	S	Student
9	7230422193	Nishanth	P	Student
10	7230422192	Suresh	G	Student
11	7230422191	Dhineshraj	S	Student
12	7220421481	Satheshkumar	G	Student
13	7220421480	Azhagu	K	Student
14	7220421452	Veerakumar	S	Student
15	7220421451	Thilagaraj	SS	Student
16	7220421450	Sudhakar	P	Student
17	7220421449	Sriramadesikan	R	Student
18	7220421448	Sakthish Balan	M	Student
19	7220421447	Rahamathulla	S	Student
20	7220421446	Raghul Sharma	M	Student

SAHARA SOUTHERN SECTION

Students Members 2023-2024

SL. No.	Member ID	Name of the students	Last Name	Grade
21	7220421445	Nataraja	CSK	Student
22	7220421444	Mohamed Hanifa	S	Student
23	7220421443	Hariharan	K	Student
24	7220421442	Hariharan	S	Student
25	7220421441	Athish Yuaraj	KT	Student
26	7220421440	Ajith Kumar	V	Student
27	7220421439	Vikram A	AR	Student
28	7220421438	Vijayasurya	M	Student
29	7220421437	Vetrivelmani	T	Student
30	7220421436	Vijayasurya	M	Student
31	7220421435	Satheeskumar	P	Student
32	7220421434	Saravanakumar	S	Student
33	7220421433	Sarathi Kannan	S	Student
34	7220421432	Sanjay	N	Student
35	7220421431	Prabhakaran	M	Student
36	7220421430	Prabhakaran	K	Student
37	7220421429	Muneeswaran	R	Student
38	7220421428	Mohammed Usman	A	Student
39	7220421427	Manojkumar	M	Student
40	7220421426	Kishore Pandiarajan	K	Student

SAHARA SOUTHERN SECTION

Students Members 2023-2024

SL. No.	Member ID	Name of the students	Last Name	Grade
41	7220421425	Kishore	L	Student
42	7220421424	Jeyarajasekar	K	Student
43	7220421423	Kaviyarasan	V	Student
44	7220421422	Kamalutheen	E	Student
45	7220421421	Hariharan	P	Student
46	7220421420	Gopalakrishnan	M	Student
47	7220421419	Ganesan	M	Student
48	7220421418	Balasubrmanian	K	Student
49	7220421417	Ayyanar	P	Student
50	7220421416	Anandharaman	M	Student
51	7220421415	Abimanyu	T	Student

SAHINDRA SOUTHERN SECTION

Students Members 2023-2024

SL. No.	Member ID	Name of the students	Grade
1	S00109527	R VIKRAM	Student
2	S00109528	M VAIRAVAN	Student
3	S00109529	V SETHUMATHAVAN	Student
4	S00109530	M VIMAL KUMAR	Student
5	S00109531	M RAJ KUMAR	Student
6	S00109532	K MADHUBALA	Student
7	S00109533	V SHANMUGA SELVAM	Student
8	S00109534	A BHUVANESH	Student
9	S00109535	T PRAKASH	Student
10	S00109536	S HARIHARAN	Student
11	S00109537	B RAM LAXMANA PRASAD	Student
12	S00109539	VISHNU M	Student
13	S00109545	MUTHAIYA M	Student
14	S00109546	PREM KUMAR P	Student
15	S00109547	M SURYA PRABAHARAN	Student
16	S00109548	R MANMATHAN	Student
17	S00111011	M VEERAMANIKANDAN	Student
18	S00111014	V NAVEENKUMAR	Student
19	S00111016	S KAJENDHRAN	Student
20	S00111018	ARUN PANDI C	Student

Club Activities

“Implementation of 5S system” was conducted on 28.11.2023 for the faculty of Civil Engineering Department of AAA College of Engineering and Technology. Dr.R.Meby Selvaraj, Assistant Professor, Senior Grade, Department of Mechanical Engineering, AAA College of Engineering and Technology handled the session. All faculty from Civil Department actively participated in the programme.



CLUB ACTIVITIES

National Level Technical Symposium "MECDEZ 2K24"

A National Level Technical Symposium "MECDEZ" On March 7, 2024, at AAA College of Engineering and Technology in Sivakasi, was held on behalf of the Department of Mechanical Engineering. This National Level Technical Symposium had 80 participants from various engineering colleges and polytechnic colleges. At the opening ceremony, A. Bhuvanesh, a third-year student, gave the welcoming address. Dr. R. Selvabharathi, Head of Department, delivered the inauguration speech on that particular occasion. As the Chief Guest of this event, Mr. A. Balachandar, M.B.A., Manager of Human Resources, joined. The memento is given to the principal guest as a symbol of affection by Dr. M. Sekar and Dr.R. Selvabharathi.



Advanced Vehicle Diagnostics

The Bosch center of excellent – CAR and SAE Collegiate club was conducting the three-day workshop on Advanced Vehicle Diagnostics aimed to provide participants with comprehensive insights into diagnosing and troubleshooting complex issues in modern vehicles. Led by industry experts, Mr. A. Vignesh Moorthy Pandian and Mr. M. Nagendran, the workshop focused on advanced techniques and methodologies essential for automotive technicians and engineers. From 22.04.2024 to 24.04.2024

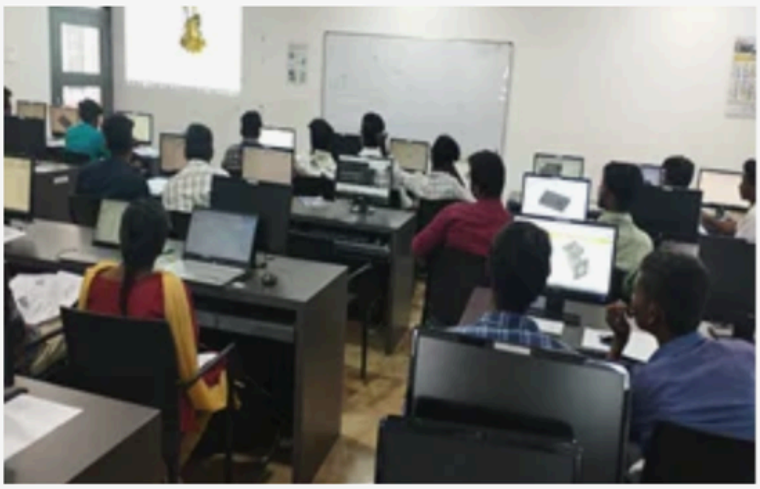




Autodesk Fusion 360 International Certification Course

The Department of Mechanical Engineering at AAACET conducted the Autodesk Fusion 360 International Certification course in collaboration with ICT Academy. This course aimed to equip our students with essential skills in computer-aided design (CAD) using Autodesk Fusion 360, leading software in the field. The training was conducted from January 22, 2024, to January 30, 2024, followed by the International Certification exam scheduled for February 2024. It was compulsory for all 3rd-year Mechanical Engineering students to participate in this course.





SAE Trekking events

The SAE Trek was conducted as a one-day event to promote relaxation, enjoyment, teamwork, and friendship among students. Around 15 members participated in the trek, accompanied by Mr. A. Vignesh Moorthy Pandian. The students trekked through Alagarkoil Hills, enjoying the greenery, pleasant weather, and scenic surroundings, and visited Pazhamudhircholai. The team then visited Madurai Auto Expo 2023 at Tamukkam Ground, showcasing the latest developments in the automobile industry. The event also created awareness about road safety and accident prevention.







Bike Sketching Event

On October 13, 2023, at 3:00 PM, a Bike Sketching Event was conducted at Department of Mechanical Engineering. This event was organized for the students of the third year of the Mechanical Engineering department. The purpose of the event was to encourage students' creativity and provide them with an opportunity to highlight their sketching skills related to automotive design



SAEINDIA
SOUTHERN SECTION

Advanced Additive Manufacturing & Nano Materials Coating with Industrial Application

The Department of Mechanical Engineering organized a three-day Faculty Development Programme on “Advanced Additive Manufacturing & Nano Materials Coating with Industrial Application” from 01st to 03rd November 2023. The programme was inaugurated by Dr. N. Shiva Shanmugam, Associate Professor, NIT Trichy, with felicitation by Principal Dr. M. Sekar and inaugural address by Dr. R. Selvabharathi, Professor & HoD/Mech. The resource persons highlighted the challenges and opportunities in Additive Manufacturing. More than 120 students, research scholars, and faculty members participated and received certificates. The programme was coordinated by Mr. M. Kaliraj, AP/Mech and Mr. M. Karthikeyan, AP/Mech.



INDUSTRIAL VISITS

Department of Mechanical Engineering organized a one day Industrial Visit to Madurai for Third Year Mechanical Engineering Students on 28.08.2023. A team of 39 students along with 05 faculty members participated in the Industrial Visit.. The students and faculty gain knowledge through this Industrial visit.



SNP DIARY

Department of Mechanical Engineering organized a one day Industrial Visit to madurai for Final Year Mechanical Engineering Students on 13.10.2023. A team of 49 students along with 02 faculty members participated in the Industrial Visit. The students and faculty gain knowledge through this Industrial visit.JB Hydraulics-SIDCO INDUSTRIAL ESTATE, SIDCO Shortcut Ln, Industrial Estate, K.Pudur, Madurai, Tamil Nadu 625007. Ruby Food Products Pvt Ltd-AS 2, Melur Main Rd, Mellur, Industrial Estate, K.Pudur, Madurai, Tamil Nadu 625007.

JB HYDRAULICS



INDUSTRIAL VISITS

The Kaka Indian Boundary

Department of Mechanical Engineering organized a one day Industrial Visit to Sivakasi for Second Year Mechanical Engineering Students on 27.10.2023. A team of 52 students along with 03 faculty members participated in the Industrial Visit. The students and faculty gain knowledge through this Industrial visit. The Kaka Indian Foundry, 729, Sivakasi Virudhunagar Road, Thiruthangal– 626 130

The KAKA Indian Boundary





INDUSTRIAL VISITS

Anna Aluminum , Kerala

Department of Mechanical Engineering organized a three days Industrial Visit to Kochi and Vagamon for Third Year Mechanical Engineering Students on 07.09.2023 to 09.09.2023. A team of 35 students along with 03 faculty members participated in the Industrial Visit.. The students and faculty gain knowledge through this Industrial visit. Anna Aluminium Company Pvt Ltd., Kizhakkmabalam, Kochi, Kerala 683562 Kerala Electrical & Allied Engg. Co. Ltd., Mamala P.O., Kochi – 682 305, Kerala





Role	Name	Desingnation
Chief Editor	Dr.R.Selvabharathi	Professor/ HOD
Editor	Mr.M.Nagendran	AP/Mech
Students Members	Mr.Kishor Pandian Mr.Vetrivel Mr. Rohit Gurubala	VII Sem/ IV Year V Sem /III Year III Sem / II Year

IN THE PRESENCE OF

Shri. P. Panjurajan
Founder, AAA Group of Institutions

Dr. P. Karvannan
Chairman & Secretary

Dr. P. Ganesan
Correspondent

Dr. M. Sekar
Principal

Dr. K. Vignesh Kumar
Joint Secretary

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