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.

SOUVENIR FOR SYMPOSIUM

MECDEZ 2024 2025



One Platform. Many Minds. Endless Innovation.

Volume 03

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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.



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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 and receive
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

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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

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MESSAGE FROM THE PRINCIPAL...



It gives me immense pleasure to present the souvenir of MECDEZ 2K24 – National Level Technical Symposium, held on 25 October 2024. The symposium provided students with opportunities to showcase their knowledge, creativity and technical skills through Project/Paper Presentation, Think and Design, Mech Mindspark and Wheel Wars. The Mastermind Quiz, Free Fire, Connection, Movie Buzz and Fun Games added enthusiasm and team spirit. I appreciate the efforts of the faculty and student coordinators and wish the event great success.

Dr. M. Sekar
Principal



MESSAGE FROM THE HOD...



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It is my pleasure to welcome all participants to ME CDEZ 2K24 – National Level Technical Symposium, organized by the Department of Mechanical Engineering on 25 October 2024. The symposium brings together students from different institutions to share knowledge, demonstrate technical skills and explore their creativity. The technical events—Project/Paper Presentation, Think and Design, Mech Mindspark and Wheel Wars—provide opportunities for innovation and practical learning, while Mastermind Quiz, Free Fire, Connection, Movie Buzz and Fun Games encourage interaction and team spirit. I sincerely appreciate the support of the management, faculty members and student coordinators in organizing this symposium. I wish all the participants a successful, enjoyable and memorable experience.

Dr. R.Selva Bharathi
Professor & Head
Department of Mechanical Engineering

About the Mecdez 2k24

- MECCDEZ 2K24 is a National Level Technical Symposium organized by the Department of Mechanical Engineering, AAA College of Engineering and Technology, Amathur, Sivakasi. The symposium provides a vibrant platform for students to showcase their technical knowledge, creativity, innovation, problem-solving abilities, and competitive spirit.
- The symposium features a diverse range of technical and non-technical events, including Project/Paper Presentation, CAD Design, Technical Quiz, Water Rocket, Photography, Treasure Hunt, Break the Hurdles, Free Fire, Connection, and Carnival Games. These events are designed to encourage students to explore their talents beyond the classroom and interact with participants from different institutions.
- MECCDEZ 2K24 aims to promote technical excellence, teamwork, innovation, and healthy competition, while creating an engaging and memorable experience for all participants. The symposium brings together young aspiring engineers to think creatively, share ideas, demonstrate their skills, and celebrate the spirit of engineering.



Objectives of MECCDEZ 2K24

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- To provide a platform for students to showcase their technical knowledge, creativity, and innovative ideas.
- To develop problem-solving, analytical, and practical skills through technical competitions.
- To encourage students to explore emerging technologies and modern engineering concepts.
- To promote teamwork, communication, leadership, and healthy competitive spirit.
- To facilitate interaction and knowledge sharing among students from different institutions.
- To provide opportunities for students to identify and develop their individual talents through technical and non-technical events.
- To inspire young engineers to think creatively and pursue excellence in engineering and technology.



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Organizing Committee.....

Role	Name of the faculty	Desingnation
Convener	Dr.R.Selvabharathi	Professor/ HOD
Faculty Incharge	Dr.M.Kaliraj Mr.M.karthikeyan	AP/Mech AP/Mech
Students	R.VIKRAM M.MUNESHBABU	IV Mech III Mech



Programme Schedule...

Program	Time	Venue
Project / Paper Presentation	11.00 AM-02.30 PM	Seminar Hall
Think and Design	11.00 AM-02.30 PM	CAD Lab
Mech Mindspark	11.00 AM-02.30 PM	2211
Wheel Wars – Own Electric Bike	11.00 AM-02.30 PM	Cambridge Bolck
Mastermind Quiz	11.00 AM-02.30 PM	2212
Movie Buzz	11.00 AM-02.30 PM	CAM Lab
Connection	10.00 AM - 4.00 PM	2223
Free Fire	01.00 PM -2.30 P,M	2221
Fun games	10.00 AM-3.30 P,M	Library

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Rules & Regulations

Program	Event Rules & Guidelines
Paper Presentation	• Topic should be related to Mechanical Engineering or allied areas. • Presentation time is limited to 8 minutes. • Judges' decision is final.
Think and Design	• Complete the given design challenge within the allotted time. • Creativity and technical feasibility will be considered. • Judges' decision is final.
Mech Mind Spark	• Answer the given mechanical engineering questions. • Complete each round within the specified time. • Highest score wins.
Wheel Wars – Own Electric Bike	• Participants must bring their own electric bike. • Helmet and safety equipment are compulsory. • Fastest successful completion wins.

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Rules & Regulations

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Program	Event Rules & Guidelines
Mastermind Quiz	• Questions will be based on general knowledge and logical thinking. • Answer within the given time. • Highest score wins.
Free fire	• Participants must follow the game rules. • Use of hacks or unfair means is prohibited. • Violation of rules leads to disqualification.
Connection	• Participants must follow the given connection rules. • Complete the maximum number of connections within the time limit. • Highest score wins.
Movie Buzz	• Identify the given movie-related clues. • Answers must be given within the time limit. • Maximum correct answers win.
Fun Games	• Follow the instructions given by the coordinators. • Complete the challenges within the given time. • Judges' decision is final.

Participartion Details

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A total of 101 students from various Engineering and Arts & Science Colleges across Tamil Nadu participated in MECDEZ 2K24. The participants represented institutions from Madurai, Virudhunagar, Sivaganga, Dindigul, Coimbatore and Chennai, making the symposium a platform for students from different regions to interact and share their talents.

The students actively participated in the technical events, including Project/Paper Presentation, Think and Design, Mech Mindspark and Wheel Wars (Own Electric Bike). Their enthusiasm, creativity and technical knowledge were clearly reflected in the various activities, providing an opportunity for participants to demonstrate their engineering skills and innovative ideas.

The non-technical events, including Mastermind Quiz, Free Fire, Connection, Movie Buzz and Fun Games, also received enthusiastic participation from the students. Their active involvement, teamwork and competitive spirit created an energetic atmosphere throughout the symposium and contributed significantly to the successful conduct of MECDEZ 2K24.



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Prize Distribution

The Prize Distribution Ceremony of MECCDEZ 2K24 was conducted to honour the outstanding performances of the participants in various technical and non-technical events. Dr. R. Selvabharathi, Professor, Department of Mechanical Engineering, distributed the prizes and certificates to the winners and runners-up. He congratulated the students for their enthusiastic participation, creativity, technical skills, and competitive spirit, and appreciated their efforts in making MECCDEZ 2K24 a successful and memorable symposium.







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gmposium Highlights

MECCDEZ 2K24 was successfully conducted from 9:10 a.m. to 4:40 p.m., with all the technical and non-technical events effectively completed at their respective designated venues. The Project/Paper Presentation was conducted in the Seminar Hall, CAD Design in the CAD Laboratory, and the Technical Quiz in the Classroom.

The non-technical eveMECDEZ 2K24 witnessed the enthusiastic participation of more than 100 students from various Engineering and Arts & Science Colleges across Tamil Nadu. Students actively participated in all the technical and non-technical events with great enthusiasm, creativity and competitive spirit.

Another major highlight was the display of new, modern high-CC bikes, which attracted considerable attention among the participants. The combination of technical innovation, automobile displays, electric vehicle activities and creative decorations made ME CDEZ 2K24 a vibrant and successful symposium.

The students took complete responsibility for organizing and managing their respective events, ensuring smooth execution throughout the programme. The participants actively engaged in all the activities and thoroughly enjoyed the entire function. Their enthusiastic participation, teamwork, creativity, and competitive spirit contributed significantly to making MECCDEZ 2K24 a vibrant, successful, and memorable National Level Technical Symposium.

MECCDEZ 2K24 – Photo Gallery

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Registration





Registration

Degradation





Degradation

Reception





Tamil thai vallthu

Hourning the chief guest



MECCDEZ 2K24 – Photo Gallery

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Chief Guest Address





Paper Presentation

Welcome Address





Think Design

FUn Games





Fun Games

Free Fire



MECCDEZ 2K24 - Photo Gallery

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Master mind





Connection

BIke Event





Bike Race

Starting Point





Back bone of event -Faculty

Back bone of evemt - Students



Editorial Board

Role	Name	Desingnation
Chief Editor	Dr.R.Selvabharathi	Professor/ HOD
Editor	Mr.M.Nagendran	AP/Mech
Students Members	Mr.T. Vetrivel Mani Mr. Rohit Gurubala Mr.Maheshwaran	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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