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

Engineering Beyond Limits

MECDEZ 2K24



2023-2024

Volume 2

MEcdez 2k24 Engineering Beyond Limits

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Institutions vision mission

MEcdez 2k24 Engineering Beyond Limits

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

MEedex 2k24 Engineering Beyond Limits

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

MEcdez 2k24 Engineering Beyond Limits

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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MEcdez 2k24 Engineering Beyond Limits

MESSAGE FROM THE PRINCIPAL...



It gives me immense pleasure to convey my best wishes for the successful conduct of MECCDEZ 2K24, a National Level Technical Symposium organized by the Department of Mechanical Engineering, AAA College of Engineering and Technology. Such platforms provide students with opportunities to showcase their technical knowledge, creativity, teamwork, and competitive spirit. I appreciate the efforts of the organizing team in bringing together young minds from different institutions to share ideas and experiences. I am confident that MECCDEZ 2K24 will inspire innovation, encourage technical excellence, and create memorable learning experiences for all participants. I wish the symposium great success and extend my warm greetings to all the participants, coordinators, and organizers.

Dr. M. Sekar

Principal



MESSAGE FROM THE HOD...



MEcdez 2k24 Engineering Beyond Limits

It is a matter of great pride for the Department of Mechanical Engineering to organize MECCDEZ 2K24, a National Level Technical Symposium that brings together enthusiastic and talented students on a common platform. The symposium provides an opportunity for participants to demonstrate their technical skills, innovative ideas, creativity, and teamwork through various technical and non-technical events. I sincerely appreciate the efforts of the faculty members and student coordinators in making this event possible. I hope MECCDEZ 2K24 will encourage students to think beyond conventional boundaries, develop confidence, and celebrate the spirit of healthy competition. I extend my best wishes to all the participants and wish MECCDEZ 2K24 grand success.

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.

Engineering Beyond Limits

Objectives of MECCDEZ 2K24

MEcdez 2k24 Engineering Beyond Limits

- 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.



Organizing Committee.....

MCadez 2k24 Engineering Beyond Limits

	Name of the faculty	Desingnation
Convener	Dr.R.Selvabharathi	Professor/ HOD
Faculty Incharge	Mr.M.Kaliraj Mr.P.S.R Senthil Maharaj	AP/Mech AP/Mech
Students	T.VETRIVEL MANI S.VEERAKUMAR R.VIKRAM A.BHUVANESH	IV Mech IV Mech III Mech II Mech



Programme Schedule...

MEcdez 2k24 Engineering Beyond Limits

Program	Time	Venue
Project / Paper Presentation	11.00 AM-02.30 PM	Seminar Hall
CAD Design	11.00 AM-02.30 PM	CAD Lab
Technical Quiz Water Rocket	11.00 AM-02.30 PM	2111
Connections	11.00 AM-02.30 PM	2112
Treasure Hunt	11.00 AM-02.30 PM	Cambridge Bolck
Breakthe Hurdles	11.00 AM-02.30 PM	Ground
Photography	10.00 AM - 04.00 PM	College
Free Fire	01.00 PM -02.30 P,M	2221
Carnival Games	10.00 AM-3.30 P,M	2222






Event Rules & Guidelines

MEcdez 2k24 Engineering Beyond Limits

Program	Event Rules & Guidelines
Project / Paper Presentation	• Topic should be related to the Mechanical Engineering domain. • Presentation should contain 10–15 PPT slides. • Project model/prototype/project working video should be presented. • Graphical abstract is preferable. • Include problem identification/survey, methods and techniques, results and discussion. • 8 minutes for presentation and 2 minutes for judges' questions. • Certificate of Excellence for winners and participation certificates for all teams.
CAD Design	• Open to engineering students having knowledge of CREO. • Each team must prepare a 3D model of the given component. • Evaluation is based on completion of the model with all required details within the shortest time. • Incomplete, inconsistent or improper drawings may be rejected. • Jury decision is final and binding. • Certificates will be provided to winners and participants



Event Rules & Guidelines

MEcdez 2k24 Engineering Beyond Limits

Program	Event Rules & Guidelines
Technical Quiz	Team size: 2 members. • Round 1 – Elimination: • Written MCQ test. Mechanical Fundamentals – 70%; Basic Science – 30%. • Top 5 teams qualify for Round 2. • Round 2 – Main Quiz: Mechanical – 70%; Basic Science – 15%; General Awareness – 15%. • Top 3 teams receive prizes.
Water Rocket	• Rocket and its components should be handmade. • Participants should follow the instructions provided by the organizers. • Performance is evaluated based on the event criteria.
Connection	• At least 2 players are required. • Players connect adjacent dots using horizontal or vertical lines. • Diagonal/slanting lines are not allowed. • Completing a square earns a point and allows another turn. • The player/team with the highest score wins.





Event Rules & Guidelines

MEcdez 2k24 Engineering Beyond Limits

Program	Event Rules & Guidelines
Photography	• Photographs should be submitted within the specified deadline. • For the original MECDEZ_2K24 announcement, the deadline was 6 March 2024.
Treasure Hunt	• Participants search for clues/treasure according to the instructions given. • Treasure items should be returned to exactly the location where they were found. • The team completing the task in the best time wins.
Break the Hurdle	• Participants should check their physical fitness before participating. • Track suit and proper T-shirt are required.
Free Fire	• Classic Duo format only. • Participants must use their own network. • Headphones are mandatory. • Use of hacks is prohibited; teams identified using hacks will be disqualified.



MEcdez 2k24 Engineering Beyond Limits

Participartion Details

MECCDEZ 2K24 witnessed enthusiastic participation from 80 students representing various Engineering and Polytechnic Colleges.

Students from Kamaraj College of Engineering and Technology, Sethu Institute of Technology, Velammal Engineering College, AGP Polytechnic College, and Sivakasi Institute of Printing Technology, along with participants from other institutions, actively took part in the various technical and non-technical events.

The symposium provided an excellent platform for students to showcase their technical knowledge, creativity, teamwork, problem-solving abilities, and competitive spirit, while also interacting and exchanging ideas with students from different institutions.

The active participation of 80 students contributed significantly to the success and vibrant atmosphere of MECCDEZ 2K24.



MEcdez 2k24 Engineering Beyond Limits

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.



Symposium Highlights

MECCDEZ 2K24 Engineering Beyond Limits

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 Water Rocket and Break the Hurdles events were conducted in the Open Ground, providing an energetic environment for the participants.

The non-technical events were also organized successfully at their designated venues. Photography was conducted at various locations across the College Campus, while the Treasure Hunt was organized throughout the campus. Free Fire was conducted in the Computer Laboratory, Connection in the Classroom, and Carnival Games in the Open Ground. All the events were effectively coordinated and completed as planned.

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

MEcdez 2k24 Engineering Beyond Limits



Registration

Innaguration





Lighting

MECCDEZ 2K24 - PHOTO GALLERY

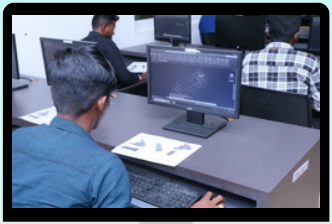
MEcdez 2k24 Engineering Beyond Limits



Honouring the Chief Guest

Students Paper Presentation





CAD design

MECCDEZ 2K24 - PHOTO GALLERY

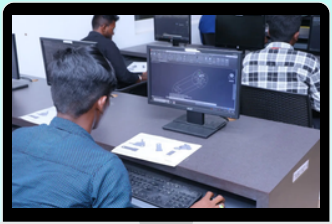
MEcdez 2k24 Engineering Beyond Limits



Honouring the Chief Guest

Students Paper Presentation





CAD design

MECCDEZ 2K24 - PHOTO GALLERY

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Quiz

Water Rocket





Break the Hurdles

MECCDEZ 2K24 - PHOTO GALLERY

MEcdez 2k24 Engineering Beyond Limits



Break the Hurdles

Students





Lighting



EDITORIAL



Role	Name	Desingnation
Chief Editor	Dr.R.Selvabharathi	Professor/ HOD
Editor	Mr.M.Nagendran	AP/Mech
Students Members	Mr.M. Prabhakaran 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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