TECHNICAL FEST

MECHXTROME

Every academic year Department of Mechanical Engineering organizes an intra-college technical fest for the aspirants assembling from various engineering colleges with a very high competitive spirit to participate and with a strong determination to include their achievements & accomplishments to their resumes.

These fests are organized every year to provide a platform for the students to showcase their talent with a competitive spirit. The event was successful enough to attract as many as 150 registrations across the region for a two-day state-level fest which includes all the events. The event was held on03/05/2024 & 04/05/2024.

Students actively participated in all the events and presented their work. The fest was executed with 09 events planned and organized at its best quality. Focusing on the types of events to include in the fest was decided consideration, with little emphasis on the fun full events behind the scene.

The events like paper presentations, poster presentations, project expo, Automobile quiz, caed modelling and many more events were equally planned, and executed and have managed to gather maximum response

<table>
<tr><th colspan="5">TECHNICAL FEST –03/05/2024
SCHEDULE</th></tr>
<tr><td>9:30 AM- 10:30 AM</td><td>10:30 AM -11:30 AM</td><td></td><td>2:00 PM- 3:00 PM</td><td>3: 30PM-4:30 PM</td></tr>
<tr><td>AUTOMOBILE QUIZ
Staff: Mr. Hemanth
Mr. Praveen K C

Venue: 401 (mech block)</td><td>TECHNICAL PAPER PRESENTATION
Staff: Dr. Satyanarayan
Dr. Suresh P S
Dr. Kumarswamy M C
Venue: CAMD LAB</td><td rowspan="4">LUNCH BREAK</td><td>GREEN SAND MOULDING
Staff: Mr. Ganesh M R
Mr. Deepak Kothari
Venue: Foundry & FORGING LAB</td><td>WATER ROCKET
Staff: Mr. Hemanth

Venue: Basket Ball Court</td></tr>
<tr><td colspan="2">10:30 AM-12:30 AM</td><td>2:00PM- 3:00 PM</td><td>3: 30PM-4:30 PM</td></tr>
<tr><td colspan="2">CAD Drawing
Staff: Dr. G B Vaggar
Mr. Srinivas C S
Venue: CAMD LAB</td><td>POSTER MAKING
Staff: Mr. Pramod V B
Student: Mr. Anvesh
Mr. Samarth
Venue: 401 (mech block)</td><td>AUTOMOBILE PARTS IDENTIFICATION
Staff: Mr. Kiran C H
Venue: AUTO CLUB</td></tr>
</table>

TECHNICAL FEST –04/05/2024 SCHEDULE	
9:30 AM- 10:30 AM	**10:30 AM -11:30 AM**
CLAY MODELLING Staff: Mr.Ganesh M R **Venue: FOUNDRY FORGING LAB**	**TECHNICAL PICK & SPEAK** Staff: Mr. Sharatchandra Prabhu **Venue: 401 (mech block)**
9:30 AM-12:30 AM	
TECHNICAL TREASURE HUNT **Staff: Mr. Pramod Kumar N** **Venue: AIET CAMPUS**	

CAED MODELLING EVENT

Venue: CAMD LAB

Introduction

The Department of Mechanical Engineering organizing MECHXTROME Tech Fest is an annual event that brings together students, and enthusiasts to showcase innovations, engage in competitions, and discuss advancements in mechanical engineering. One of the key highlights of this event is the CAED (Computer-Aided Engineering Design) Modeling competition, which emphasizes the integration of technology in engineering design and problem-solving.

Objectives

The primary objectives of the CAED Modeling competition are:

To encourage participants to utilize computer-aided design software for engineering applications.

To foster creativity and innovation in design.

To provide a platform for demonstrating proficiency in CAED tools.

Event Structure

The CAED Modeling competition is structured in several stages:

Preliminary Round: Participants submit initial design concepts based on given criteria. These submissions are evaluated on creativity, feasibility, and adherence to specifications.

Final Round: Shortlisted participants from the preliminary round compete in a live modeling challenge. They are given a design problem and a fixed time to create a detailed model using CAED software.

Participation

Participants in the CAED Modeling competition come from various backgrounds, including:

Undergraduate students in mechanical engineering. Enthusiasts with a keen interest in CAED.

Software Tools

Commonly used CAED software tools in the competition include:

Solid Edge: Known for its powerful simulation capabilities and intuitive interface.

Evaluation Criteria

The designs are evaluated based on:

Accuracy and Precision: How well the model adheres to the given specifications and dimensions.

Innovation and Creativity: The uniqueness and originality of the design.

Presentation: Clarity and professionalism in presenting the final model.

Complexity: The level of detail and complexity handled in the design.

Highlights

Innovative Designs: Participants showcased groundbreaking designs, including advanced mechanical systems and novel engineering solutions.

Conclusion

The CAED Modeling competition at the Mechanical Engineering Tech Fest successfully highlighted the importance of computer-aided design in modern engineering. It provided a platform for participants to demonstrate their skills.

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TECHNICAL PAPER PRESENTATION

Overview

The technical paper presentation competition was held on May 3, 2024, with the aim of providing a platform for students to showcase their research, critical thinking, and communication skills. A diverse range of papers were presented, covering various technical domains.

Event Highlights

Participation: Around 30 participants have participated, representing different departments . The presented papers encompassed a wide spectrum of technical areas, including [mention some key topics].

Presentations: The presentations were well-structured, informative, and delivered with confidence. The students demonstrated a deep understanding of their research topics and were able to effectively convey their key findings and insights.

Judging Criteria: The presentations were evaluated based on [mention the judging criteria, such as clarity, originality, technical content, and presentation skills].

Winners: The [mention the winners] team was declared the overall winner, impressing the judges with their exceptional paper and presentation.

Key Takeaways

Student Engagement: The competition fostered a strong sense of engagement among the students, who were eager to share their research and learn from their peers.

Skill Development: The event provided an excellent opportunity for students to develop their technical writing, public speaking, and critical thinking skills.

Overall, the technical paper presentation competition was a resounding success, providing a valuable learning experience for all participants.

TECHNICAL TREASURE HUNT REPORT

The Department of Mechanical Engineering at AIET organized an engaging and challenging Technical Treasure Hunt for the students on May 4, 2024. The event aimed to foster teamwork, critical thinking, and technical knowledge among the participants. A total of 10 teams, each comprising 4 members, participated in the hunt.

Objective

The primary objective of the Technical Treasure Hunt was to engage students in a series of technical challenges and puzzles that required both theoretical knowledge and practical skills to solve. The event was designed to**:**

- Encourage collaboration and teamwork.
- Enhance problem-solving abilities.
- Apply technical knowledge in practical scenarios.
- Develop time management and strategic planning skills.

Event Structure

Registration and Briefing:

The event commenced with the registration of participants at 9:30 AM, followed by a detailed briefing session. The rules and instructions for the treasure hunt were explained to all teams.

Distribution of Clues:

Each team was given the first clue at 10:00 AM.

The clues were technical in nature, requiring the application of engineering principles to decode and find the next location.

Hunt Progression:

Teams followed a sequence of clues, with each clue leading them to a specific location on the AIET campus. At each location, teams encountered a task or puzzle that needed to be completed to receive the next clue

Completion and Time Tracking:

The time taken by each team to complete the treasure hunt was recorded.The first and second teams to find the final treasure were determined based on their completion time.

Clue Details and Challenges

The treasure hunt included a variety of technical challenges, such as: Mechanical Puzzles: Requiring knowledge of mechanical systems and principles.Circuit Assembly: Tasks involving basic electronics and circuit design. Engineering Problems: Situations that required the application of mechanical engineering concepts to solve practical problems. Each clue was carefully designed to test the participants' technical knowledge and problem-solving skills, ensuring a balanced mix of difficulty levels to keep the competition engaging and fair.

Winners and Prizes

The performance of each team was assessed based on the time taken to complete the treasure hunt. The first and second prize winners were as follows:

First Prize-Team

Second Prize:Team

The winning teams were awarded prizes during a concluding ceremony held at 4:30 PM.

Conclusion

The Technical Treasure Hunt was a resounding success, providing an excellent platform for students to apply their technical skills in a fun and competitive environment. The event not only enhanced the participants' engineering knowledge but also promoted teamwork and strategic thinking.

The Department of Mechanical Engineering at AIET looks forward to organizing similar events in the future to continually engage and challenge its students.

A REPORT ON AUTOMOBILE QUIZ

On May 3, 2024, the Department of Mechanical Engg, Alvas Institute of Engineering & Technology hosted an exciting Automobile Quiz as a part of its annual technical fest. The event saw enthusiastic participation from students across various engineering disciplines, highlighting their knowledge and passion for the automotive industry.

Prof. Hemanth Suvarna was the Staff coordinator & Mr. Nithin was the student Coordinator of the event.

Objective

The primary objective of the quiz was to encourage students to delve deeper into the automotive field, enhancing their understanding of theoretical concepts and practical advancements in automobile technology. The event also aimed to foster participants' competitive spirit while promoting teamwork and collaboration.

Participants

The quiz witnessed the participation of about 25 students. The participants included from inter-branch engineering streams, showcasing the interdisciplinary interest in automotive technologies.

Quiz Structure

The quiz was divided into three rounds:

1. **Preliminary Round**: A written test consisting of multiple-choice questions covering fundamental concepts of automobile engineering, recent technological advancements, and general knowledge about the automotive industry. The top 10 teams from this round advanced to the semi-finals.
2. **Semi-Final Round**: This round involved a buzzer-based quiz where teams had to answer questions related to automotive mechanics, history, and current trends. The top 5 teams from this round progressed to the finals.
3. **Final Round**: The final round was an interactive and intense session with complex questions focusing on advanced automotive technologies, industry case studies, and problem-solving scenarios. This round tested the depth of knowledge, analytical skills, and quick thinking of the participants.

Conclusion

The Automobile Quiz at the Alva's Institute of Engineering & Technology was a grand success, providing a platform for students to showcase their knowledge and passion for the automotive industry. The event not only stimulated intellectual curiosity but also encouraged students to stay updated with the latest developments in the field. The organizing committee received commendable feedback from participants and attendees, ensuring that such events will continue to be a part of the institute's annual technical fest.


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Green Sand moulding Competition

Department of Mechanical engineering was organized Technical fest on 03/05/2024 in AIET campus for all branches of engineering students. Many completions was organized by the department. In those events Green sand moulding competition was organized in Foundry and Forging lab. Students created many casting moulds by using green sand according to given model image and specifications.


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PICK & SPEAK

Venue: CAMD LAB

Introduction

The department of Mechanical Engineering organizing **MECHXTROME** Tech Fest is an annual event that brings together students, enthusiasts to showcase innovations, engage in competitions, and discuss advancements in mechanical engineering. One of the key highlights of this event is the Pick and Speak, which emphasizes the communication skill of student

Objectives

The primary objectives of the Pick and Speak are:

1. To encourage participants to utilize communication skills
2. To foster creativity and innovation in thinking.
3. To provide a platform for analyze and present about the topic requirement.

Event Structure

The Pick and Speak was single stage participants are required to pick a topic from the box and present for tree minutes

Participation

Participants in the Pick and Speak come from various backgrounds, including:

- Undergraduate students in mechanical and Agriculture engineering

Winners and Awards

The competition concluded with an award ceremony where winners were recognized for their outstanding designs.

Conclusion

Pick and Speak competition at the Mechanical Engineering Tech Fest successfully highlighted the importance of communication skill and understanding of technical term. It provided a platform for participants to demonstrate their skills..

APPENDIX

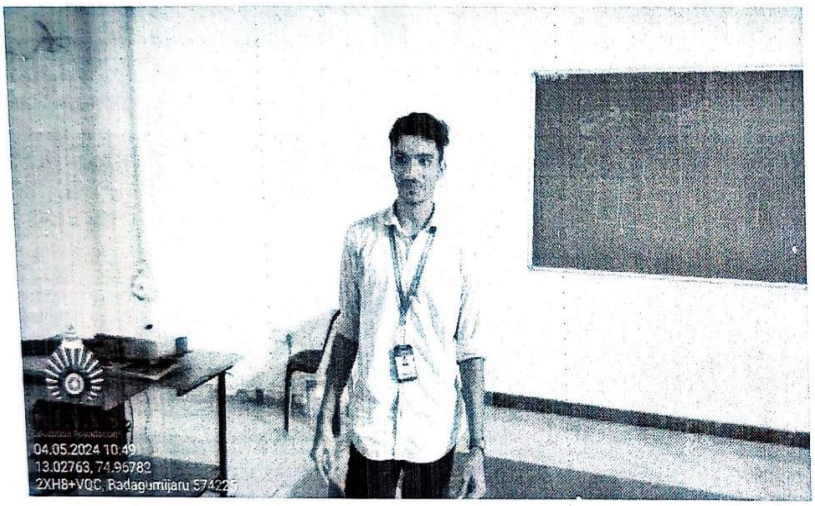

Photo1. Students participation.

LIST OF PRIZE WINNERS

SL. NO.	EVENT	PRIZE WINNER & PLACE	DEPARTMENT
1	TECHNICAL PAPER PRESENTATION	1. Mr. Tejas Kumar	Agriculture Engineering
2	AUTOMOBILE QUIZ	1. Mr. Chiranth H S 2. Mr. Manoj Kumar Karnam	Mechanical engg
3.	CAD Modelling	1. Mr. Manoj S C	Mechanical engg
4	TECHNICAL PICK & SPEAK	1. Mr. Chiranth H S	Mechanical engg
5	GREEN SAND MODELLING	1. Mr. Abhinandan	Computer science department
6	POSTER MAKING	1. Ms.Chaya	Computer science Design engg
7	TREASURE HUNT	**1. TEAM GLADIATORS** a) Sushan b) Nishanth c) Sunil d) Shyamprasad **2. TEAM MIND INDEX** a) Preeti b) Reshma c) Namitha d) Dhanya	MBA