



THE COTERIES BULLETIN

NEWSLETTER BY THE DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

INGENIUM 2026

Final Year Mechanical Engineering
Project Exhibition
Engineering Innovation in Action

Date: 30 March 2026
Time: 1:00 PM – 4:00 PM
Venue: Fluid Mechanics Lab

All are cordially invited

- Innovative Student Projects
- Live Demonstrations
- Real-world Engineering Solutions
- Interaction with Future Engineers

THIS ISSUE

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- FACULTY DEVELOPMENT PROGRAMMES
- STUDENT ACHIEVEMENTS
- THE HUB

OUR VISION

To make the Mechanical Engineering Program a Centre of Excellence in Professional Education and Research.

OUR MISSION

- To provide quality education for moulding competent professionals in Mechanical Engineering.
- To promote collaborative activities and positive contributions to society.
- To facilitate a continuous learning environment.

ADI SHANKARA
INSTITUTE OF
ENGINEERING & TECHNOLOGY



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DEPARTMENT OF MECHANICAL ENGINEERING

ABOUT ASIET

The Adi Shankara Institute of Engineering & Technology (ASIET), established in Kalady, aims to provide value-added technical education that fosters professional excellence and ethical values in students. Managed by the Adi Sankara Trust, a respected educational organisation under the blessings of His Holiness Jagadguru Sri Sri Bharati Tirtha Mahasannidhanam and His Holiness Jagadguru Sri Sri Vidhushekhara Bharati Sannidhanam of Dakshinamnaya Sri Sharada Peetham, Sringeri, the trust has operated various educational institutions for over 50 years.

Founded in 2001, ASIET is committed to the holistic development of its students. It is affiliated with A P J Abdul Kalam Technological University, approved by AICTE, and offers UG, PG, and PhD courses. Five of its streams (CE, CSE, ECE, EEE, and ME) are NBA accredited, reflecting its commitment to quality education.

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INSTITUTIONAL EVENTS



Student Union 2026 Inauguration

The Student Union 2026 of our college was formally inaugurated on March 26 at the Central Courtyard, marking the beginning of a new phase of student leadership and engagement. The event, held at 3:00 PM, brought together students, faculty, and organizers in an atmosphere of enthusiasm and unity. The inauguration highlighted the importance of student representation and active participation in campus life, setting the tone for a dynamic and inclusive academic year ahead.



Inspiring Innovation: Bhavans Eroor Students Visit Campus

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A Vibrant Women's Day Celebration on Campus

The Adi Shankara Institute of Engineering and Technology marked International Women's Day with a lively celebration on March 9. The main courtyard came alive with numerous stalls set up by students, showcasing creativity, talent, and entrepreneurial spirit.

The event witnessed enthusiastic participation, with students engaging in various activities and exploring the diverse stalls. The celebration created a joyful atmosphere on campus, highlighting unity, empowerment, and the spirit of togetherness.



IEDC Council Meet (ICM '26)

The Innovation and Entrepreneurship Development Centre (IEDC), ASIET, hosted the IEDC Council Meet (ICM '26) on 25th March 2026 at the Main Seminar Hall.

The event marked the formal transition of leadership from the 2025 Executive Committee to the newly elected team for 2026–27, in the presence of Heads of Departments and faculty members. The new Executive Committee, led by Abin, was officially inaugurated and presented with ID cards, alongside the introduction of the Junior Executive Committee.

SPORTS & ARTS



ASIET Clinches Glory at FISAT Cup '26

The Adi Shankara Institute of Engineering and Technology (ASIET) team emerged as the proud champions of the FISAT Cup 2026, securing the coveted first place with exceptional performance. Displaying outstanding teamwork, determination, and skill, the players dominated the tournament and proved their excellence on the court.

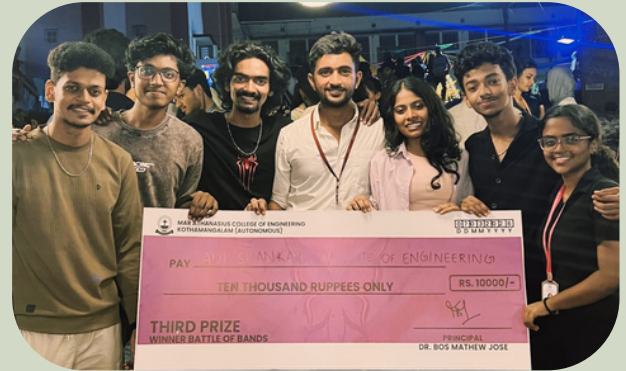
Runner Ups at CUSAT Cup 2026: ASIET Men's Volleyball Team Shines

The ASIET men's volleyball team delivered an impressive performance at the CUSAT Cup 2026, proudly securing the 2nd Runner-Up position in the tournament. Competing with determination and teamwork, the squad demonstrated excellent coordination, resilience, and sportsmanship throughout the matches. Congratulations to the entire D Team for bringing pride to ASIET and inspiring future athletes.



Dhruvam Strikes a Chord: Third Prize Triumph at Battle of Bands

The college music band Dhruvam from Adi Shankara Institute of Engineering and Technology delivered an impressive performance at the Battle of Bands hosted by Mar Athanasius College of Engineering last month. Their electrifying stage presence and musical talent earned them a well-deserved third prize.



The team secured a cash prize of ₹10,000, marking a proud achievement for both the band and their institution. Their success reflects dedication, teamwork, and a deep passion for music.

DEPARTMENT EVENTS



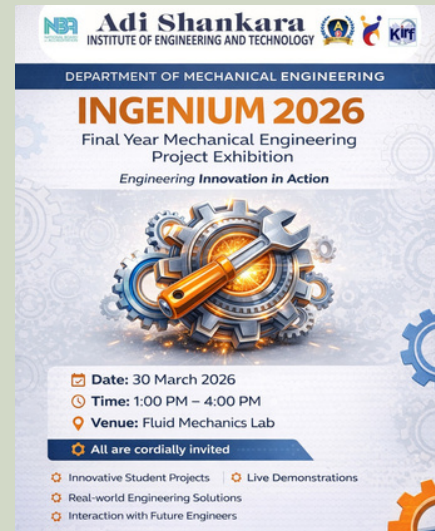
A Warm Farewell to Final Year Students

A farewell lunch was lovingly organised by the faculty for the fourth-year students, marking a memorable end to their academic journey. The gathering provided an opportunity for students and teachers to share heartfelt moments, express gratitude, and reminisce about their time together. Faculty members conveyed their best wishes for the students' future endeavors, while students expressed appreciation for the guidance and support received over the years. The event concluded on a joyful note, filled with smiles, laughter, and cherished memories.

Ingenium 2026

Engineering Innovation in Action

Ingenium 2026 was an impressive showcase of innovation and technical excellence by the final-year (S8) students. The event featured a diverse range of projects developed as part of their academic journey, reflecting creativity, practical knowledge, and strong problem-solving skills. Each project demonstrated the dedication and effort of the graduating batch in applying theoretical concepts to real-world challenges. Ingenium 2026 served as a platform for inspiration, encouraging students across all semesters to innovate and excel.



Title: IMPROVEMENT OF THERMAL AND CORROSION RESISTANCE OF COBALT-BASED SUPERALLOY HAYNES 25 USING AIR PLASMA SPRAY COATING

Guide: Dr. Jithesh K

Members:

AKASH SANTHOSH (LASI22ME030)
DENIL GEORGE M G (ASI22ME035)
ATHULKRISHNA A V (ASI22ME033)

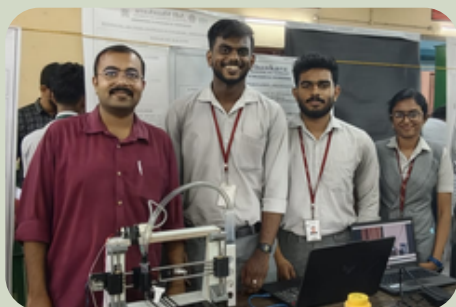


Title: EXPERIMENTAL STUDY OF PROPERTIES OF ALUMINIUM-ALLOYED BRASS

Guide: Dr. Nidhin Raj A

Members:

AHAMMED YASEEN M A (LASI22ME026)
AJUMAL ALI K N (LASI22ME029)
MUHAMMED FAIEZ (LASI22ME038)



Title: NOVEL 3D PRINTING STRATEGY FOR FABRICATING SCAFFOLDED MATERIALS WITH MICROCAVITY USING MICROBUBBLES

Guide: Dr. SANDEEP O S

MEMBERS:

ABHINAV RAJ P (ASI22ME001)
ASLAM MUHAMMED AJI (ASI22ME005)
NANDHANA T R (ASI22ME017)



TITLE: EXPERIMENTAL STUDY ON COCONUT SHELL POWDER BIOCOSMOSITES FOR 3D PRINTED AUTOMOTIVE INTERIORS

Guide: Mr. ELDHOSE K JOY

MEMBERS

Muhammed Akthar M N (ASI22ME013)
Afnan Abdul Khader Nassar M (ASI22ME003)
Reshma V M (ASI22ME020)



Title: DESIGN AND FABRICATION OF REAL-TIME FUEL QUALITY AND QUANTITY ANALYSER

Guide: Mr. Goutham D

Members:
ANATH V BIJU (LASI22ME031)
DANIS ANTONY (LASI22ME034)
M B AMAL (LASI22ME036)



Title: EFFECT OF BUILD ORIENTATION AND HEAT TREATMENT ON THE MICROSTRUCTURE AND MECHANICAL BEHAVIOUR OF ADDITIVELY MANUFACTURED INCONEL 625

Guide: Mr. ARUN P DAS

Members:
DARSHAN KISHORE(ASI22ME007)
FATHIMA MAJEED (ASI22ME008)
MUHAMMAD RISHAM K Y (ASI22ME016)



TITLE: DESIGN AND FABRICATION OF A 5-DOF SELECTIVE COMPLIANCE ASSEMBLY ROBOTIC ARM WITH INVERSE KINEMATICS

GUIDE: Mr. LEO FRANCIS

Members:
AADIL SADIQUE
MOHAMMED ISMAIL V M
MUHAMMED HAFIS K A



TOPIC-"DESIGN AND FABRICATION OF SELF-LOADING WATER DISPENSER MECHANISM."

GUIDE: Mr. Kiran KS.

MEMBERS:
ADHIL ABU- (ASI22ME002).
MUHAMMMED ASHRAF - (ASI22ME0140)
(KAILAS E- ASI22ME011)



TITLE:- "FLOW VISUALISATION AND SCALAR CHARACTERISTICS ANALYSIS OF WALL JETS"

GUIDE: Dr RAHUL S ARACKAL

MEMBERS:-
ROHITH JAMES ASI22ME021
PAVAN U KUMAR ASI22ME019
SREERAG S ASI22ME023



TOPIC: DESIGN AND FABRICATION OF SOLAR COLLECTOR AND PERFORMANCE ENHANCEMENT USING NANOFLUID

Guide: MR Eldho Mathew
MEMBERS

AJO DAVIS - LASI22ME028
MUHAMMAD SHAMIL - LASI22ME040
SREERAG V K - LASI22ME043



TOPIC: INVESTIGATION ON THE EFFECT OF NANO MQL ON THE MACHINING PERFORMANCE OF AISI 304

GUIDE: Dr. VINAY VARGHESE
MEMBERS
AJMAL K P - LASI22ME027
MUHAMMED RIYAS P A - LASI22ME039
SETHULAKSHMI T S - LASI22ME042

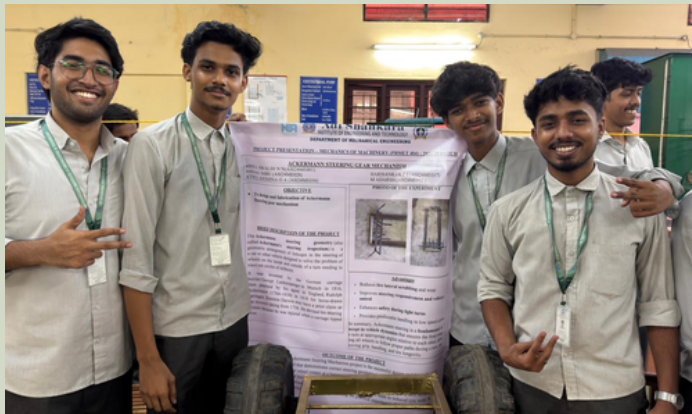


TOPIC: RECYCLING OF CELLULOSE AETATE INTO 3D PRINTING FILAMENT

GUIDE: Mr. JITHESH S R
Members
Alen Renjan
Belwin Baby
Hariharan M K
Sooraj Krishna M R

S4 Course Project Exhibition

The S4 Project Exhibition, based on Mechanics of Machinery, showcased the creativity and technical skills of fourth-semester students through innovative models and prototypes. Students demonstrated strong teamwork and practical understanding of mechanical concepts. A proud highlight was that S4 students received an award for the best project, recognizing their hard work and dedication.



Department of Mechanical Engineering Hosts Arduino Training Workshop



The Department of Mechanical Engineering, in association with the ISME Student Chapter, successfully conducted an Arduino Training Workshop on March 12, 2026, at the Mechanical Seminar Hall.

The workshop was facilitated by Mr. Shinu M.M., Assistant Professor, Department of Electronics and Bio-Medical Engineering, ASIET, and was held from 2:00 PM to 4:00 PM. The event was graced by the presence of HOD Prof. Jithesh K.K., along with faculty members and students from the 1st, 2nd, and 3rd years.

Technical Talk on Coating and Welding

A technical talk on “Coating and Welding” was conducted in association with ISME for S8 and S6 Mechanical Engineering students at the ME Seminar Hall. The session focused on the fundamentals of coating operations and various inspection methods followed in the oil and gas industries. The speaker highlighted practical applications, industry standards, and quality control practices.



Workshop on Welding 4.0: Advancing Skills for Industry 4.0

A team led by Dr. Jithesh K, including students Nithin Raj A B, Fathima Nesrin V B, Sreelekshmi S, and Syed Mohammed N M, attended the workshop “Welding 4.0: Latest and Future Developments in Welding Technologies” on March 7, 2026, at IEI Bhavan, Kochi. The workshop provided valuable insights into advanced welding technologies, automation, and Industry 4.0 trends, enhancing participants' knowledge and practical understanding.



NSS EVENT



NSS Unit Leads Environmental Clean-Up

The NSS Unit carried out two key environmental activities in March 2026. On March 20, using NSS RD Office funds, volunteers held a Beach Cleaning Programme at Kuzhupilly Beach under Programme Officer Mr. Sijo. On March 28, volunteers joined Trash Hunt 4.0 in Fort Kochi, organised by Captains NGO with UNICEF and YuWaah. Both efforts highlight the unit's strong commitment to caring for the environment.

FACULTY DEVELOPMENT PROGRAMMES

Shaping the Future: Faculty Advances in Digital & Green Manufacturing



Dr. Sivaprasad P V

Sivaprasad P V attended a six-day International Faculty Development Programme on "Converging Materials Science & Additive Manufacturing" from March 9 to 14, 2026, organized by the Department of Mechanical Engineering at the Federal Institute of Science and Technology, Angamaly, with the Industry Institute Interaction Cell (IIIC).

Faculty Development Achievement: NEP 2020 Orientation Programme



Mr. Leo Francis

Mr. Leo Francis, Assistant Professor, Department of Mechanical Engineering, completed the NEP 2020 Orientation & Sensitisation Programme under the Malaviya Mission Teacher Training Programme (UGC), organised by Kannur University.

STUDENT ACHIEVEMENTS

Congratulations to the S1 Toppers

Congratulations

KTU S1 RESULTS - TOPPERS
ME 2025 - 2029 BATCH

MIDHULAJ J
SGPA : 8.63

VAISHNAV U PAI
SGPA : 9.37

KARUN SIDHARTH
SGPA : 8.63

AASHIN JOSEPH
SGPA : 8.37

LIYA MARIYA SAJI
SGPA : 8.26

**DEPARTMENT OF
MECHANICAL ENGINEERING**

The Department of Mechanical Engineering extends its heartfelt congratulations to the S1 toppers for their remarkable academic achievements. Their diligence, dedication, and passion for learning have brought great pride to our department. We wish them ongoing success and many more accomplishments in the future.

Congratulations to the S3 Toppers

CONGRATULATIONS
S3 TOPPERS
DEPARTMENT OF MECHANICAL ENGINEERING
KTU UNIVERSITY EXAM RESULTS
2024-2028 BATCH

ARMAAN MANOJ MENON
SGPA 8.88

ADARSH K S
SGPA 8.86

SYED MOHAMMED N M
SGPA 8.74

AMISHA SANTOSH
SGPA 8.44

KARTHIK RAMESH
SGPA 8.34

JOSEPH P GEORGE
SGPA 8.30

ADITHYAN M S
SGPA 8.14

HARISANKAR P S
SGPA 8.04

MAHADEV V S
SGPA 8.02

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Kirf
NAAC A GRADE

NBA
NATIONAL BOARD
OF ACCREDITATION
Accredited Programmes
CE, COE, ECE, EE, ME

The Department of Mechanical Engineering proudly congratulates the S3 toppers on their outstanding academic achievements. Their hard work, commitment, and enthusiasm for learning have filled our department with immense pride. We wish them continued success and many more accomplishments in the future.

THE HUB

Back to the Moon: The Journey of Artemis II



Artemis II is NASA's first crewed mission under the Artemis program, aimed at returning humans to the Moon and advancing deep-space exploration. Following the success of Artemis I, this mission will send four astronauts aboard the Orion spacecraft on a journey around the Moon and safely back to Earth.

The mission will be launched on NASA's Space Launch System (SLS), the agency's most powerful rocket. During the flight, Orion will perform a lunar flyby, travelling far beyond the Moon before re-entering Earth's atmosphere.

This mission is designed to test vital systems, including life support, navigation, communication, and crew safety, in a real deep-space environment.

From a mechanical engineering perspective, Artemis II offers valuable insights into advanced propulsion systems, structural design, and material behaviour under extreme temperatures and stresses. The mission will also validate the spacecraft's thermal protection system during high-speed re-entry and assess overall system reliability.

Artemis II is a crucial step toward long-term human presence on the Moon, including future missions involving the Lunar Gateway and surface exploration. It highlights how engineering innovation continues to drive progress in space exploration and inspires the next generation of engineers.



Article by:

Adithyan E S
S4 ME

CHIEF EDITOR

STAFF EDITOR



Dr. Jithesh K



Dr. Sandeep O S

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ARMAAN MANOJ MENON

AMISHA SANTOSH

ADARSH KS

NITHIN RAJ A B

FATHIMA NESRIN V B

MAHADEV V S

VAISHNAV U PAI

LIYA MARIYA SAJI

MIZPAH MARIA MATHEWS

KARUN SIDHARTH

ALAN SANJO

JOSEPH J

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