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NBA Programmes (CE, CS, EC, EE, ME, MR)  
Jyothi Hills, P. O. Vettikkattiri, Cheruthuruthy  
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A Centre of Excellence in Science and Technology by the Catholic Archdiocese of Trichur

## DEPARTMENT OF MECHATRONICS ENGINEERING

# NEWS LETTER

### *As the HOD,*

It gives me great pleasure to present the January–July 2026 edition of our Departmental Newsletter. This has been an exceptional semester marked by outstanding academic achievements, technical workshops, industry collaborations, and meaningful outreach initiatives. Our students have excelled in intercollegiate competitions, earned prestigious NPTEL certifications, and secured placements in leading companies including TEAL (A TATA Enterprise), INDO-MIM Limited, TVS SUNDARAM, and AXIS GLOBAL. Our faculty continue to advance research through patents and professional certifications. The department has strengthened its industry linkages through strategic MoUs and comprehensive Industry 4.0 training programs. I extend my heartfelt gratitude to our dedicated faculty, hardworking students, and the editorial team for their tireless efforts. Together, let us continue striving for excellence and innovation in Mechatronics Engineering.



**DR. ANAND KRISHNAN N.**  
HEAD OF THE DEPARTMENT

### VISION

Create eminent and ethical leaders committed to their profession and society in the field of Mechatronics through quality professional education to excel in industrial automation and innovation.

### MISSION

- To impart orientation and to meet the challenges of the modern industry and provide motivation for research.
- To provide quality education to create graduates with professional and social commitment.



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### Brief Note :-

Mechatronics engineering is a collaborative amalgamation of the various fields of engineering, forming an interdisciplinary branch that focuses on the engineering of electronic, electrical, computer and mechanical engineering systems. It also encompasses robotics, telecommunications, systems, control, and product engineering.

## Departmental Activities

### MRE Department Hosted Workshop on Visual Computing with MATLAB — January 5, 2026

The NBA-accredited Department of Mechatronics Engineering, in association with MESA and the Institution of Engineers (India) [IE(I)], organized a full-day workshop on Visual Computing with MATLAB: Core Techniques in Image Processing on January 5, 2026 (9:00 AM – 4:00 PM) at the MR CAD and Embedded AI Lab. The session was led by Mr. Dhanoop K. Dhanpal, Application Engineer at CoreEL Technologies, who provided comprehensive hands-on exposure to core image processing techniques and practical MATLAB implementations. The workshop equipped participants with skills essential for computer vision, automation, and AI-driven image analysis.



### “Eureka Idea Pitching” Competition Sparks Innovation — January 14, 2026

The Department of Mechatronics Engineering, in collaboration with MESA, ISTE Student Chapter (KE 058), IEDC, and E-Cell JEC, organized the Eureka Idea Pitching competition on January 14, 2026. Designed to foster entrepreneurial spirit and creative problem-solving, the event provided participants a platform to present innovative concepts to an expert panel. Student teams pitched forward-thinking solutions including AI-driven bio-fingerprint monitoring systems, demonstrating remarkable technical clarity. The event highlighted the department’s commitment to nurturing innovation, interdisciplinary collaboration, and startup readiness among young engineers.



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### Academic Achievements: Toppers and NPTEL Certification Highlights

The Department of Mechatronics Engineering proudly celebrates outstanding academic performances and technical certifications. S1 Toppers (2025–29 Batch): Abel John P.J. (9.26), Riya Joseph (9.08), Wens Boniface K.J. (9.0). S2 Toppers: Wens Boniface K.J. (9.59), Abel John P.J. (9.34), Arvin Antony (9.25), Sharvin Shaju (9.09). KTU S5 Toppers (2023–27 Batch): Neha U, Jinil George, Anagha C. S7 Toppers (2022–26 Batch): Maria Grace (9.2), Christo Jaison (8.87), Akshaykumar K. (8.77) — Pass percentage: 89.66%.





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Students from the 2022–26 Batch earned prestigious NPTEL/MOOC certifications from IIT Kanpur, IIT Kharagpur, and IIT Madras achieving Elite Silver, Elite, and Pass grades. Faculty members have also completed NPTEL/MOOC certifications: Dr. Anoop Jose Chittilappilly (Elite+Gold, Elite+Silver), Mr. Manikandan N.R. (Elite+Silver, Elite), Mr. Ashik M.S. (Elite+Silver), Ms. Athira P. Preman (Elite+Silver), and Ms. Sreeshma Sasidharan (Elite). Their dedication continuously enhances academic standards and outcome-based teaching within the department.





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### S4 MRE Team Clinches First Prize at Real World Solutions Ideathon — February 2, 2026



The Department of Mechatronics Engineering added another feather to its cap as the S4 MRE team secured First Prize in the REAL WORLD SOLUTIONS – IDEATHON on February 2, 2026, hosted by Christ College of Engineering (Autonomous), Irinjalakuda. The winning team — Safdar Hashmi P.A., Sniya Davis, Naina Nijo, Donald P. Paul, and Jobis Bijo — demonstrated exemplary teamwork, innovative thinking, and technical problem-solving skills. The department extends heartfelt congratulations to all the winners.

### S6 Mechatronics Students Undertake Industrial Visit to GWMC, Goa — February 9, 2026

The S6 batch visited the Goa Waste Management Corporation (GWMC) on February 9, 2026. Students observed large-scale automated waste segregation, material recovery mechanisms, and environmental control systems. Faculty facilitated interactive discussions with plant engineers to bridge classroom theory with industrial operations. The visit provided valuable practical exposure to real-world industrial automation, sensor integration, and sustainable engineering management.



### MRE Department Organized Session on Image Processing Fundamentals Using MATLAB — February 18, 2026



The NBA-accredited Department of Mechatronics Engineering, in association with MESA and IE(I), conducted a technical session on Image Processing Fundamentals in Visual Computing Using MATLAB on February 18, 2026 (9:00 AM – 4:00 PM) at the MR CAD and Embedded AI Lab. The session was led by Dr. Neethu M and Mr. Jineesh, who provided detailed theoretical insights into visual computing along with practical exposure to fundamental image processing tools. The session enhanced understanding of core algorithmic concepts and their applications in mechatronic systems.



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## MRE Department Organized Hands-On Workshop on Visual Computing with MATLAB — February 26, 2026

The NBA-accredited Department of Mechatronics Engineering, in association with MESA, conducted a full-day workshop on Visual Computing with MATLAB: Core Techniques in Image Processing on February 26, 2026 (9:00 AM – 4:00 PM) at the CAD and Embedded AI Lab (EAB 314). Led by Mr. Dhanoop K. Dhanpal, Application Engineer at CoreEL Technologies, the workshop guided participants through fundamental and advanced concepts of digital image processing. Students and faculty actively participated, acquiring essential skills for computer vision and automated inspection systems.



## MRE Student Teams Triumph at Yukthi 2026 — Departmental Project Excellence Awards

Student teams from the Department of Mechatronics Engineering showcased exceptional innovation at Yukthi 2026, securing top honours in the Departmental Project Excellence Award category. 1st Position: Autonomous Localization-Based Towing and Assistance Robot for Wheelchair — Abhishek Aji, Akash Sunil, Chris Davis, Joyal Anto (Supervisor: Mr. Ashik M.S.). 2nd Position: Semi-Automatic Electrostatic Sprayer Rover for Agriculture — Melvin Majo, Vyshak A.V., Afna Shamsudheen, Maria Grace (Supervisor: Ms. Athira P. Preman). 3rd Position: Parallel Hybrid AWD Scooter with Range Extender Capabilities — Shuhaib S., Giridhar O., Abhishikth Gopakumar (Supervisor: Mr. Sibin Jhony).



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## NDLI Club and MESA Conducted Technical Talk on Introduction to ROS 2 — March 25, 2026

The National Digital Library of India (NDLI) Club, in association with MESA under the NBA-accredited Department of Mechatronics Engineering, organized a technical talk on Introduction to ROS 2 on March 25, 2026 (10:30 AM – 11:30 AM) at the Decennial Hall. The session was delivered by Mr. Abhishek Aji and Mr. Joyal Anto, who introduced students to the core fundamentals of Robot Operating System 2 (ROS 2), focusing on its modular architecture, communication middleware, and real-world applications in autonomous systems and advanced robotics.



## MRE Department Conducted Orientation Session for 2025–29 Batch — April 17, 2026



The Department of Mechatronics Engineering organized an orientation session for the 2025–2029 Batch on April 17, 2026, led by the Head of the Department and the Placement In-charge. The session familiarized newly joined students with the academic framework, career pathways, and institutional vision. Key topics covered included the Mechatronics Engineering curriculum, Minor and Honors degree track guidelines, industry internship opportunities, and campus placement preparation, helping students align their academic journey with industry expectations.



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## Faculty Granted Design Patent for Coconut Tree Climbing Device

Jyothi Engineering College proudly announces the successful grant of a Design Patent Registration Certificate from The Patent Office, Government of India, for the Coconut Tree Climbing Device. Faculty member Mr. Manikandan N.R. of the Department of Mechatronics Engineering achieved this significant milestone, underscoring the institution's commitment to advancing research, practical engineering solutions, and intellectual property rights.



## Mechatronics Students Secure Stellar Campus Placements — 2022–2026 Batch



The NBA-accredited Department of Mechatronics Engineering achieved remarkable campus recruitment results for the 2022–2026 batch. Leading firms — TEAL (A TATA Enterprise), INDO-MIM Limited, TVS SUNDARAM, and AXIS GLOBAL — recruited 19 final-year students. Placed students include: Aadhis P.S. (TEAL), Abhishek Aji, Airo Sabu, Abhishekth Gopakumar, Akash Sunil, Akshaykumar K., Alen Lijo, Chris Davis, Christo Jaison, Harish K.M., Jerin T. Saji, Jinu John, John Saju, Joyal Anto (INDO-MIM/TVS SUNDARAM); Maria Grace, Vyshak A.V. (AXIS GLOBAL); Melvin Majo, Rahul V. Ravindran, and Stebin Santhosh.



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## Jyothi Engineering College Signs MoU with Inker Robotics — June 8, 2026

Jyothi Engineering College officially signed a Memorandum of Understanding (MoU) with Inker Robotics on June 8, 2026, at the Administrative Block. This strategic partnership aims to bridge academia and industry by fostering collaborative research, specialized technical training, industrial internships, and joint project development in advanced robotics and automation. The initiative provides students and faculty with direct access to cutting-edge industry technologies and expert mentorship.



## MRE Department Organizes 5-Day Industry 4.0 Training Program for 2025–29 Batch — June 16–20, 2026

The NBA-accredited Department of Mechatronics Engineering, in association with MESA and IE(I), organized a comprehensive 5-Day Industry 4.0 Training Program for the 2025–29 Batch (June 16–20, 2026). The program delivered targeted hands-on sessions covering Arduino, Fusion 360 (3D Modeling), Idea to Entrepreneurship and Patents, Components and Hardware Familiarization, Hydraulics and Pneumatics, PLC, and CNC. Resource persons: Jinesh K.J. (Assistant Professor), Mr. C. Sumesh (Trade Instructor), Er. Vijayachandran (Adjunct Professor), and Majeendran K. (Technical Staff).





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## MRE Department Conducted National Space Day Outreach Programme at CKC LP School — July 23, 2026

In connection with National Space Day (Chandra Dinam), the Department of Mechatronics Engineering organized an interactive outreach programme at CKC LP School, Rajagiri, Mundathicode, on July 23, 2026. Engineering students and faculty conducted hands-on STEM activities, interactive project demonstrations, and engaging sessions highlighting India's space missions to foster scientific curiosity and technological interest among young primary school learners. The initiative introduced students to space science, robotics, and engineering innovation.



## Inauguration of MESA and Technical Talk on Statistical Quality Control and Six Sigma — July 31, 2026

The NBA-accredited Department of Mechatronics Engineering officially inaugurated the Mechatronics Engineering Students Association (M.E.S.A) on July 31, 2026 (9:30 AM – 12:30 PM) at the Decennial Hall. The ceremony was graced by Er. V M Giridharan, General Manager at SFO Technologies (A NEST Group of Organisation), as Chief Guest. Er. Giridharan delivered an insightful technical talk on Statistical Quality Control and Six Sigma in the Age of Smart Manufacturing, covering modern quality management methodologies, data-driven optimization in automated systems, and Six Sigma implementation within smart manufacturing environments.



### EDITORIAL BOARD

Staff Editor : Mr. Jain Varghese, Asst. Professor,  
Dept. of Mechatronics Engineering

Student Editor : Mr. Anandh T Staicy,  
Mechatronics Engineering (2023-2027 Batch)

**MECHATRONICS ENGINEERING IS THE FUTURE OF ENGINEERING.  
BE A PART OF IT AND BE THE COMPLETE ENGINEER OF TOMORROW**