



ENGMEDNEWS

NEWSLETTER BIOMEDICAL ENGINEERING SOCIETY OF INDIA

Dear Member,

As we welcome the New Year, we wish you continued success, good health, and new opportunities ahead. Thank you for being part of our journey.

Quotes

“Cheers to a new year and another chance for growth and success.”

“New beginnings bring new possibilities.”

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SRM Institute Of Science And Technology College Of Engineering Event Report

REHABTECH CHALLENGE- ONE DAY HACKATHON (FEB 6TH 2026)

Inaugural

The one day hackathon "ReHab Tech Challenge" organized by the Department of Electronics and Instrumentation Engineering at SRM Institute of Science and Technology, Kattankulathur, in association with Biomedical Engineering Society of India (BMESI) on February 6, 2026 turned out to be a massive show. 13 teams had registered with 39 participants from different institutions who took part in the hackathon.

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

REHAB TECH CHALLENGE

ONE DAY MED-TECH HACKATHON

EVENT DATE: 6TH FEBRUARY, 2026

VENUE: G.D.NAIDU HALL, MAIN CAMPUS SRM IST

PRIZE POOL WORTH ₹10,000

ONLINE TRANSFER
Account Name: SRM IST
EIE Association
Account Type: Savings
Account No.: 117001001672075
IFSC Code: CIUB0000117
MICR Code: 572054002
Bank: City Union Bank

FACULTY COORDINATOR
Dr. S.Sharanya
9952599674

For Details & Registration
SCAN here

Deadline for Registration
30th January, 2026

Registration Fee: ₹600/- per team
Team Size: 3 Members

Event Sponsor
Biomedical Engineering Society of India (BMESI)

SAAC
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THE
SHANGHAI RANKING
NATURE INDEX
AACSB



Karpaga Vinayaga College of Engineering and Technology

Event Report

The Department of Biomedical Engineering, Karpaga Vinayaga College of Engineering and Technology, successfully organized a National Level Technical Symposium titled "ELIXIR-26" on 30th January 2026 (Friday). The symposium was conducted in association with the Biomedical Engineering Society of India (BMESI), with the objective of providing a common platform for students, academicians, and industry professionals to exchange knowledge, showcase innovation, and enhance technical skills in the field of biomedical engineering.

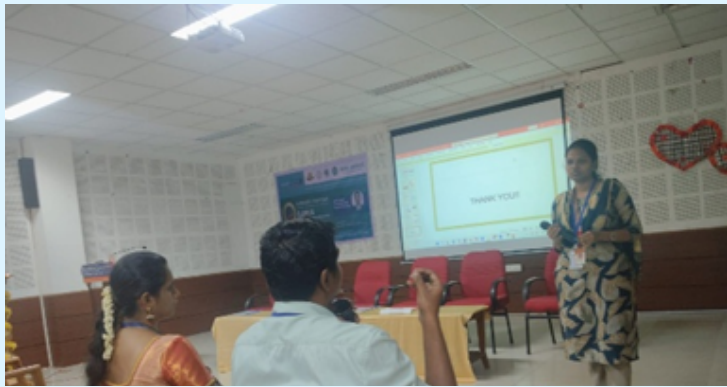
The event was held at the EDUSAT Hall from 9:30 a.m. to 3:30 p.m. and witnessed enthusiastic participation from students representing various engineering colleges. The registration process commenced at 8:45 a.m., during which participants were warmly welcomed and guided by student volunteers and faculty coordinators. The registration desks were efficiently managed, ensuring a smooth and organized process.

The symposium formally commenced at 9:30 a.m. with the Invocation and Tamil Thai Vazhthu, invoking blessings for the successful conduct of the programme. This was followed by the Lighting of the Traditional Lamp, symbolizing wisdom, enlightenment, and the pursuit of knowledge.

A warm welcome address was delivered by Mrs. K. S. Abbirame, Head of the Department, Biomedical Engineering. The introduction of ELIXIR-26 and the office bearers was presented by Ms. J. Dilshad Begum, Assistant Professor, BME, and Organizing Secretary. The Felicitation Address was given by Dr. K. Sivakumar, Associate Dean. This was followed by the Presidential Address by Dr. P. Kasinatha Pandian, Principal, KVCET, who encouraged students to utilize platforms like ELIXIR-26 to develop confidence, technical competence, and professional ethics.

The Inaugural Address was delivered by the Chief Guest, Mr. R. Sarath Babu, Director, Medvalley. He shared his valuable industrial experience and highlighted current trends in medical devices, healthcare startups, and biomedical product development. His address provided students with significant exposure to industry expectations and career opportunities. He elaborated on career prospects in medical device industries, hospitals, research and development organizations, healthcare startups, regulatory affairs, clinical engineering, and biomedical product design. He also emphasized emerging opportunities in healthcare technology, artificial intelligence in medicine, wearable devices, and digital health platforms, motivating students to align their skills with industry demands.

The programme concluded with the Vote of Thanks delivered by Dr. J. Sudhakar, Associate Professor, BME.



ABOUT THE CONFERENCE

The QEISSET 2026 conference, organized by Vivekanandha College of Engineering for Women, Tiruchengode in association with UTHM-Malaysia is a multidisciplinary platform that brings together researchers, academicians, industry experts, and innovators to share advancements in quantum technologies, modern electronics, intelligent systems, smart healthcare, and sustainable engineering. The event aims to promote innovation and responsible technological development for the digital era.

Day 1: The Conference Began With A Formal Inauguration By Vidhya Rathna Prof. Dr.M.Karunanithi, B.Pharm, Ms, Pld, Dim, Chairman & Secretary Vivekanandha Educational Institutions & Hospitals, Prof. Dr. S. Kuppuswami, Executive Director, Mr. M. Chokkalingam, Chief Executive, Dr. R. Balagurunathan, Director – Research, Dr. Kck. Vijayakumar, Principal And Along With The Chief Guest Prof. Ts. Dr. Asmarashid Bin Ponniran. The Ceremony Has Been Included With Lighting Of The Ceremonial Lamp, Welcome Address By The Principal Of Vivekanandha College Of Engineering For Women. The Chief Guest Addressed About The Emphasis On Interdisciplinary Integration, Stating That Future Technologies Will Emerge At The Intersection Of Quantum Computing, Artificial Intelligence, Healthcare Innovation, And Sustainable Design And Also Introduction To Conference Themes. In The Inaugural Speech, The Chief Guest Focused On Interdisciplinary Integration, Stating That Future Technologies Will Emerge At The Intersection Of Quantum Computing, Artificial Intelligence, Healthcare Innovation, And Sustainable Design. Our Vivekanandha College Of Engineering For Women In Association With The Universiti Tun Hussein Onn Malaysia (Uthm) Organized Two Days International Conference On The Topics Based On Quantum Electronics, Intelligent Systems, Smart Healthcare And Sustainable Engineering Technologies On 12.02.2026 & 13.02.2026. In This Conference, Various Tracks Had Been Held. Track 1, Entitled On Quantum & Emerging Electronic Technologies, Track 2 Is Advanced Electronics, Vlsi & Embedded System Design, Track 3 Is Intelligent Systems, Automation & Cyber – Physical Engineering, Track 4 Is Communication, Signal & Biomedical Data Processing, Track 5 Is Smart Healthcare, Green & Sustainable Engineering.





Day 2: Workshops

The Two-Day Workshops were organized as part of the International Conference on Quantum Electronics, Intelligent Systems, Smart healthcare & Sustainable Engineering Technologies hosted by Vivekananda College of Engineering for Women on 12th & 13th February 2026. The workshops aimed to provide participants with hands-on exposure to advanced research tools, innovative methodologies, and interdisciplinary applications in science and technology.

In addition to technical paper presentations and knowledge sharing with domain experts, workshops are also organized in four major areas:

- Orientation Program on AR/VR
- Basic and Advanced Concepts of IoT
- Additive Manufacturing
- Impressive Writing to publish in Q1 Journals



The valedictory session commenced with an inaugural attended by distinguished guests, keynote speakers, faculty members, research scholars, and students. Over the conference of two days, the event witnessed insightful keynote addresses, technical paper presentations, interactive discussions and feedbacks. The conference featured eminent speakers from reputed institutions and organizations across the global. Their presentations covered diverse themes, innovative research methodologies, and contemporary challenges in the field. Participants actively engaged in discussions, making the sessions intellectually stimulating and productive. A significant number of research papers were presented during parallel technical sessions. The presentations reflected originality, critical thinking, and practical relevance.



Two-Days BMESI-Sponsored Workshop on Troubleshooting, Calibration and Dismantling of Critical Care Equipments

The Department of Medical Electronics organized a Two-Day BMESI-Sponsored Workshop on "Troubleshooting, Calibration and Dismantling of Critical Care Equipment" on 28th and 29th January 2026. The event aimed to provide hands-on exposure to students in handling sophisticated biomedical equipment used in critical care environments. The program commenced with a warm welcome address delivered by Dr.E.Geetha, HoD/MDE, followed by an introduction of the resource persons.

The workshop was sponsored and funded by BMESI – Biomedical Equipment Society of India. The workshop was conducted by Mr.M Sudarshan, Ms.K.santhiya and Mr.Maharaja from Atheenapandia Private Ltd, Rasipuram who are experienced biomedical engineers with extensive expertise in troubleshooting, calibration, and preventive maintenance of critical care devices. The resource experts demonstrated real-time troubleshooting methods, calibration procedures, and safe dismantling practices for devices such as ventilators, infusion pumps, patient monitors, and defibrillators.

The brief points discussed during the workshop were given below,

1. Students taught to understand the working principles of critical care equipment and apply basic troubleshooting methods to identify and correct common operational issues.
2. Students acquired to perform standard calibration procedures using biomedical testing instruments and ensure that equipment meets required safety and accuracy standards.

Students gained knowledge to dismantle, inspect, and reassemble critical care devices, identify key internal components, and carry out essential preventive maintenance activities.

The workshop successfully strengthened the students' confidence in troubleshooting faults, performing accurate calibration, and carrying out systematic dismantling and servicing tasks. Overall, the program fulfilled its objectives by equipping the students with essential skills required for biomedical equipment management and preparing them for real-time clinical and hospital-based technical environments.

More than 113 students and faculties attended the program and Ms.Hemapriya, 3rd Year MDE Student proposed the vote of thanks.



Kalaignarkarunanidhi Institute of Technology Event Report

Online Faculty Development Program (FDP)

“Advanced Telemedicine, IoT Wearables, And Edge AI For Rural And Emergency Healthcare”

Session Schedule

(05-01-2026 To 09-01-2026)

Sponsored By BMESI

DAY 1

Theme: Digital Healthcare Ecosystem & Edge Intelligence

The final session of the day on Edge AI for Healthcare Devices was conducted by Dr. Senthil Kumar J, Assistant Professor, KIT. The session introduced edge intelligence concepts, emphasizing real-time decision-making, reduced latency, data privacy, and power-efficient AI deployment on embedded platforms. Participants raised queries on model compression, hardware compatibility, and real-world use cases, leading to a highly interactive and insightful discussion. The first day concluded successfully with strong participant engagement and a clear technical foundation for subsequent sessions.

DAY 2

Theme: IoT, Wearables, and AI Integration

The second day began with a session on Fundamentals of IoT in Healthcare Applications by Dr. Saravanakumar Gurusamy, Associate Professor, Presidency University, Bengaluru. The session covered IoT architecture, sensor networks, communication protocols, and healthcare-specific applications. Participants actively interacted by raising questions on data security, reliability, and scalability of IoT systems in healthcare environments. The session strengthened system-level understanding of connected healthcare solutions.

This was followed by Biomedical Sensors for Wearable Health Monitoring, delivered by Dr. J. Samson Isaac, Assistant Professor, Karunya University. The resource person discussed physiological sensors, signal acquisition techniques, sensor placement, calibration, and wearable system integration. Participants actively engaged in discussions on accuracy, motion artifacts, and long-term monitoring challenges. The session provided practical insights valuable for teaching laboratories and research projects.

DAY 3

Theme: Telemedicine Architecture & Case Studies

Day three commenced with Introduction to Edge AI in Healthcare Systems by Dr. T. N. Prabakar, Associate Professor, SASTRA University. The session emphasized system architecture, edge–cloud collaboration, and deployment challenges. Participant interaction focused on real-time constraints and embedded implementation issues.

The second session on Telemedicine System Architecture: Hardware, Software, and Networks was delivered by Dr. S. Mythili, Professor, PSNA College of Engineering and Technology. The session provided a comprehensive view of telemedicine systems, including interoperability, standards, and network reliability. Participants interacted extensively, particularly on curriculum and project integration.

A Technical Quiz was conducted to reinforce learning outcomes, followed by a Case Study on Edge AI-Based Remote Patient Monitoring presented by Dr. T. S. Murugesh, Associate Professor, GCE Srirangam. The case-based approach enabled participants to understand practical implementation challenges. Active discussions enhanced applied learning and clinical relevance.

DAY 4

Theme: Digital Biomarkers & Data Analytics

The fourth day focused on data interpretation and AI readiness. Dr. Siddarth, Assistant Professor (Research), KIT delivered a session on Digital Biomarkers and Physiological Signal Interpretation, emphasizing clinical relevance. Participants interacted on feature relevance and physiological meaning.

This was followed by Feature Extraction and AI-Ready Data Preparation by Dr. Adalarasu, Professor, SASTRA University, where preprocessing and feature engineering techniques were discussed. The session was highly interactive and research-focused.

The final session on Integration of Wearables with Telemedicine Platforms by Dr. R. Shankari, Assistant Professor, SRM Institute of Science and Technology addressed system integration challenges. A technical quiz concluded the day.

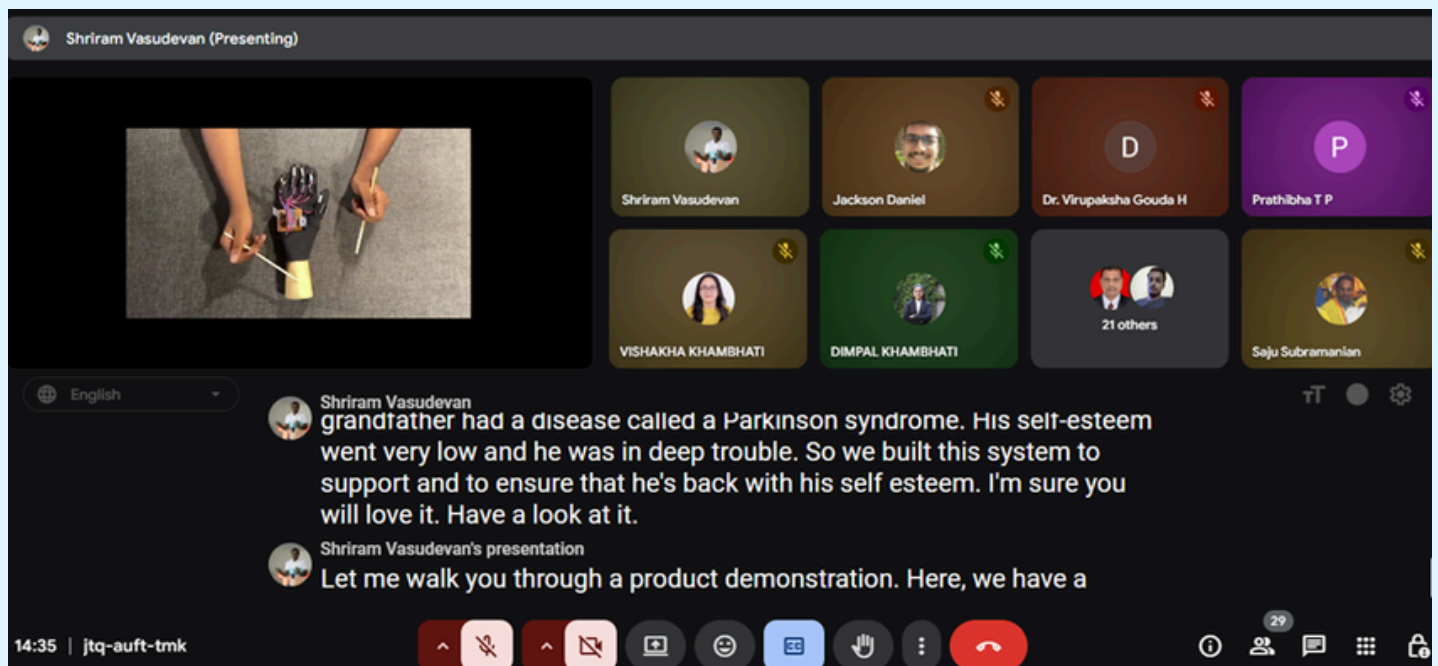
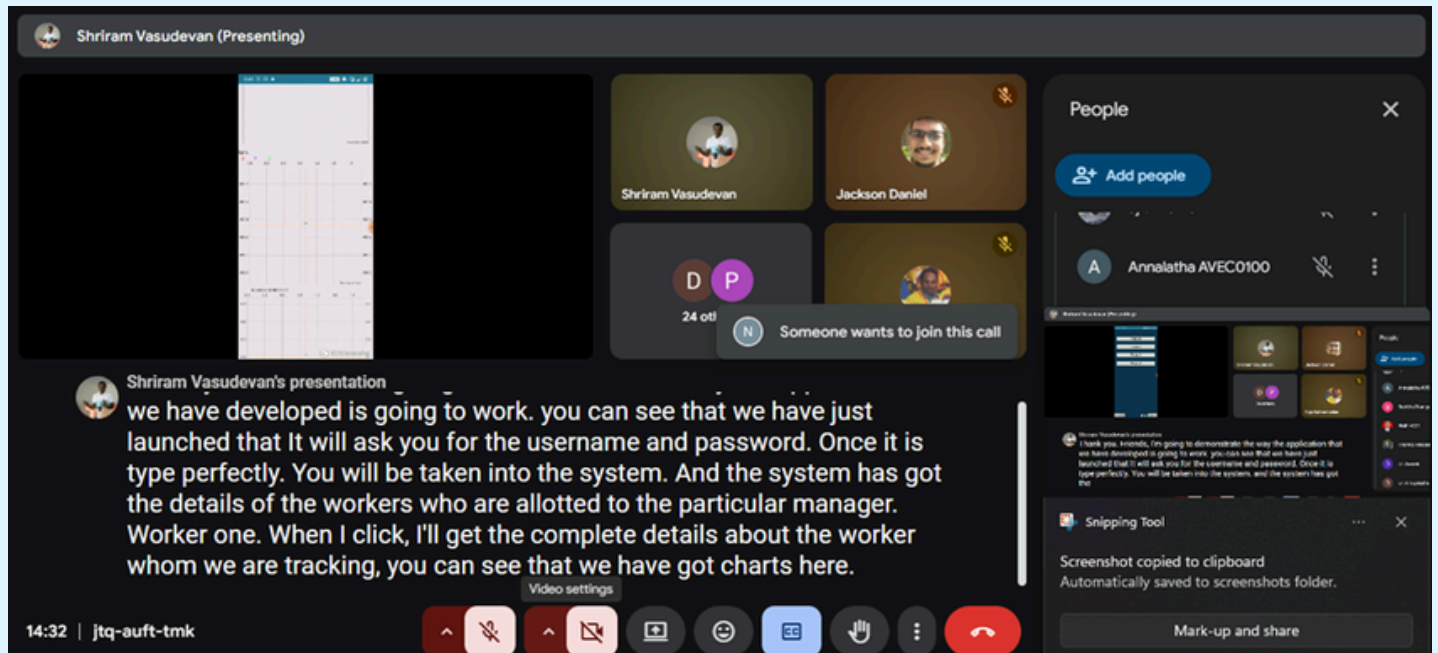
DAY 5

Theme: Emergency Care, Clinical Translation & Program Closure

The final day began with Edge AI-Enabled Emergency Care and Remote Triage Systems by Dr. S. Ravindra Kumar, Director – IRRD, focusing on emergency response optimization. Participants actively discussed feasibility and deployment.

The Clinical Case Studies session by Dr. Gokul Raj R., Clinical Investigator, Spinosa Life Science provided real-world clinical insights. Participant interaction bridged engineering solutions with patient care outcomes.

The FDP concluded with Assessment, Feedback, and Valedictory Session, led by the organizing committee and HOD – BME, summarizing outcomes and future research directions.



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