



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY



PULSE
CAPTURING THE RHYTHM
DEPT. ELECTRONICS AND BIOMEDICAL ENGINEERING



Electronics and Biomedical Engineering
Students Association of Adi Shankara Institute of Engineering & Technology

VOLUME 3
ISSUE 2

QUARTERLY NEWSLETTER OF DEPT. ELECTRONICS AND BIOMEDICAL ENGINEERING
SEPT 2025 - NOV 2025

ADI SHANKARA INSTITUTE OF ENGINEERING AND TECHNOLOGY



The Adi Shankara Institute of Engineering & Technology was founded in Kalady to offer value-added technical education that teaches students professional excellence and ethical values. The institution is managed by the Adi Sankara Trust, a registered organization that has made a name for itself in the field of education. The college, founded in 2001 and skilfully maintained by the Sringeri Mutt with the benign blessings of His Holiness Sri Sri Bharati Tirtha Mahaswamiji, is committed to a proactive approach to ensuring the student's holistic development. Adi Shankara Institute of Engineering & Technology (ASIET) is ideally situated in a picturesque environment that evokes vivid memories of Jagadguru Adi Shankara's calm presence. It is affiliated with the A P J Abdul Kalam Technological University, approved by the AICTE, and offers courses in UG, PG, and PhD levels. Four of their streams are NBA accredited (CSE, ECE, EEE & ME) which shows its commitment to quality systems. ASIET was the first self-financing technical education center in Kerala to be awarded the ISO 9001: 2008 certification. Nineteen batches of B.Tech students have passed out from this temple of education to date and they occupy responsible positions in prestigious organizations in India and abroad.



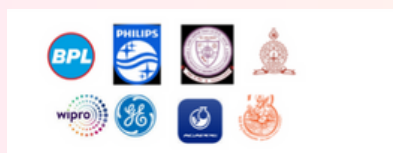
DEPT OF ELECTRONICS & BIOMEDICAL ENGINEERING



Electronics and Biomedical Engineering is an interdisciplinary branch of engineering, bridging the gap between life science and medicine with technology and engineering to create healthcare solutions, leading to the design and development of medical equipment. In collaboration with doctors and researchers, biomedical engineers develop methods and devices to tackle clinical problems using the developments in electronics and computers. Right from the development of sensors for diagnosis and analysis to the multi-dimensional aspects of diseases with the aid of high-tech equipment, biomedical engineers are indispensable. A biomedical engineer's job is not just limited to the development of some equipment and devices, but a much wider area of computer systems and software used in healthcare is also stretched out there to conquer. In short, whenever and wherever, a living being interacts with any health care equipment there is an invisible hand of a BIOMEDICAL ENGINEER, guarding and protecting lives. Biomedical engineers can find a huge volume of well-paid openings in fields like Prosthetics, Surgical devices, Imaging methods, Instrumentation, and much, much more. In the upcoming era of the Internet of Things (IoT), healthcare devices; both wearable and implanted inside the body, are being implemented to a large extent.

Opportunities for research and higher studies are available at various higher education institutions across the globe. Some of the common specializations include Bioinstrumentation, Biomaterials, Robotic Surgery, Clinical Engineering, Cellular, Tissue, and Genetic Engineering, Medical Imaging, Orthopedic Bioengineering, Rehabilitation Engineering etc.

OUR TECHNICAL ADVISORS



OUR PROFESSIONAL BODIES



MESSAGE FROM HOD

It gives me great pleasure to connect with you once again through this new edition of The Pulse, the departmental newsletter of Electronics and Biomedical Engineering. As we continue our journey toward becoming a premier centre of excellence in biomedical innovation and education, the past months have once again reflected the passion, dedication, and collaborative spirit that define our department.

This quarter has been particularly remarkable, marked by our collective achievements in academics, research, innovation, and outreach. Our department proudly organized and participated in diverse technical and community-oriented initiatives that strengthened our engagement with industry, academia, and society. Notably, our students demonstrated exceptional technical competence and leadership through hands-on workshops, add-on courses, and project exhibitions, translating classroom learning into real-world applications.

Faculty members continued to uphold our mission of quality education and innovation by contributing through publications, training programs, and active participation in professional bodies. Their continued pursuit of excellence ensures that our students receive not only knowledge but also the inspiration to create meaningful impact in healthcare technology.

Equally inspiring has been the growing enthusiasm of our students who have made their presence felt in university examinations, intercollegiate contests, and national-level forums. Their curiosity, creativity, and teamwork continue to reinforce our confidence in the bright future of this field.

As we look ahead, our focus remains on nurturing innovation-driven learning, interdisciplinary collaboration, and socially relevant research that bridges engineering and healthcare. Together, let us continue to strive toward shaping a healthier and technologically empowered society.

With warm regards,

Dr.REMYA GEORGE
HOD ,ASSOCIATE
PROFESSOR
DEPT OF EBE



MESSAGE FROM FACULTY COORDINATOR

"Progress is born from curiosity, nurtured by collaboration, and realized through innovation."

It gives me immense pleasure to present The Pulse – Volume 3, Issue 2, the latest edition of our department newsletter. With every issue, The Pulse continues to evolve—not just as a publication, but as a testament to the energy, creativity, and commitment that define the Department of Electronics and Biomedical Engineering.

This quarter has been truly inspiring, marked by the remarkable synergy of students and faculty in academics, research, and outreach. From impactful technical workshops and hands-on training programs to student innovations, achievements, and collaborations with industry, the department has continued to grow as a dynamic hub of learning and innovation.

What makes this journey special is the spirit of togetherness—every achievement, event, and initiative reflects the collective effort of our EBE family. I extend my heartfelt gratitude to all contributors, editors, and participants whose dedication has made this edition possible.

As we turn these pages, may they remind us of how far we've come and inspire us to reach even greater heights in the issues ahead.

Warm regards,



Dr. TRESA JOSEPH
FACULTY COORDINATOR
DEPARTMENT OF EBE



MESSAGE FROM STUDENT COORDINATOR

It fills me with immense pride and joy to introduce this new edition of The Pulse, our department's quarterly newsletter. Each page of this issue echoes the creativity, perseverance, and teamwork that define the spirit of the Electronics and Biomedical Engineering community at ASIET.

The past few months have been nothing short of inspiring. From national-level achievements and technical workshops to innovative projects and outreach activities, our department has continued to make its mark. What stands out most is the enthusiasm and unity of our students—always ready to learn, lead, and contribute meaningfully under the guidance of our dedicated faculty.

As a student community, we take immense pride in being part of a department that values innovation, collaboration, and compassion in engineering for healthcare. The growing recognition of our collective efforts motivates us to keep pushing boundaries and shaping ideas that make a real difference.

I extend my heartfelt gratitude to everyone who contributed to this edition—writers, designers, editors, and mentors—for turning ideas into impact. May this newsletter continue to inspire us to explore, innovate, and excel together.

Warm regards,



MISNA ABDUL MANAF
STUDENT COORDINATOR
S7 EBE



VISION

Evolve as a premier center in Electronics and Biomedical Engineering to meet the ever-increasing needs for affordable and accessible healthcare technology focusing on innovative thinking and skill enhancement.

MISSION

- Provide quality professional education at par with global standards in the field of Biomedical Engineering with excellent faculty and infrastructure.
- Foster a culture of multidisciplinary research, comprehensive practical learning, and generate pioneering innovations by collaborating with academia, industry, and clinical experts.
- Inspire biomedical engineering graduates to be responsible for addressing critical healthcare challenges with empathy and dedication for the betterment of mankind.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PRACTICE OF PROFESSION: Function as creative professionals who excel in conducting research, designing, manufacturing, and testing biomedical devices with an unwavering focus on quality and patient safety.

CAREER GROWTH: Evolve as successful engineers, entrepreneurs, and healthcare technology leaders through professional development and collaborations.

LIFELONG LEARNING AND ADAPTABILITY: Engage in continuous learning to overcome the ever-evolving challenges of biomedical technology to support healthcare industries, allied healthcare sectors, and academia.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Apply the concepts of life sciences, engineering, and technology to the design and development of indigenous medical devices.
- Demonstrate contemporary healthcare technological knowledge and skills in a multidisciplinary environment with ethics and professionalism.



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**EXPERIENTIAL LEARNING: EXPLORE, ENGAGE,
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EBSAA ,TSI AND BMESI: SHAPING TOMMOROW

Workshop on MATLAB, Simulink, and Simscape

The Department of Electronics and Biomedical Engineering, in association with BMESI, successfully organized a workshop on “MATLAB: Introduction to Simulink and Simscape” on 22nd September 2025 at the BSP Lab. The session was handled by Mr. Dhanoop K. Dhanpal, MATLAB Application Engineer from Corel Technologies Ltd., Bangalore. The workshop provided participants with hands-on experience in modeling and simulation using Simulink and Simscape, enabling them to understand practical applications of system-level design and analysis. Coordinated by Ms. Krishna S. Nair (faculty, Dept. of EBE) and Mr. S. Vinayak (student, Dept. of EBE), the program witnessed active participation from students who gained valuable insights into applying MATLAB tools for engineering problem-solving..



The poster features the logos of Adi Shankara Institute of Engineering and Technology, MathWorks, and CoreEL Technologies. It includes a photograph of a workshop session with a presenter and participants at computers. The text provides details about the resource person, coordinators, location, and date.

Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Workshop on MATLAB Introduction to Simulink and Simscape

Organised by BMESI, Dept of EBE

Resource Person:
Mr. Dhanoop K Dhanpal,
MATLAB Application
Engineer,
Corel Technologies Ltd.,
Bangalore

Coordinators:
Ms .Krishna S Nair- faculty,
Dept of EBE
S Vinayak- student,
Dept of EBE

Room No.:S-09, BSP Lab, Department of
Electronics and Biomedical Engineering

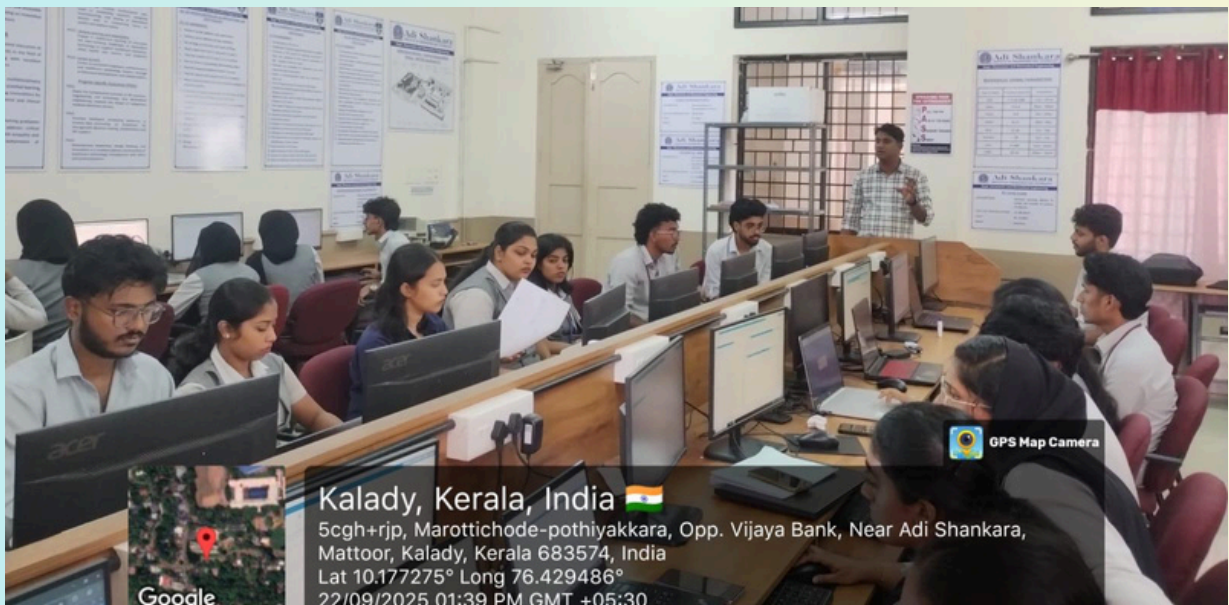
22/09/25
10am- 4pm

MathWorks
CoreEL
Technologies
Enabling Excellence



EBSAA ,TSI AND BMESI: SHAPING TOMMOROW

Workshop on MATLAB, Simulink, and Simscape



Advanced Imaging and Laser Technology in Interventional Cardiology

The Department of Electronics and Biomedical Engineering, Adi Shankara Institute of Engineering and Technology, in association with the Telemedicine Society of India (Kerala Chapter), organized a technical session on "Advanced Imaging and Laser Technology in Interventional Cardiology" on 21st October 2025 at the Main Seminar Hall, ASIET. The session was led by Mr. Manikandan S, Regional Manager, Philips (IGT Devices), India, who shared expert insights into the recent advancements in imaging and laser-assisted technologies that play a vital role in interventional cardiology. He explained how modern imaging modalities such as intravascular ultrasound (IVUS) and optical coherence tomography (OCT) have revolutionized cardiac diagnostics and therapeutic precision. Students gained valuable knowledge on the integration of biomedical engineering principles in designing and improving cardiac intervention systems. The interactive session provided a real-world perspective on how biomedical engineers contribute to developing life-saving technologies, thereby bridging the gap between engineering innovation and clinical applications. The event was coordinated by Mr. Aadhi Narayan G S (S5 EBE) and was well attended by S1, S3, and S5 B.Tech Biomedical Engineering students.



 **Adi Shankara**
INSTITUTE OF ENGINEERING AND TECHNOLOGY, KALADY
Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University
Vidya Bharathi Nagar, Kalady, Ernakulam, Kerala
www.adishankara.ac.in



Industrial insights
on
"Advanced Imaging and Laser Technology in Interventional Cardiology"

Resource Person
Mr. Manikandan S
Regional Manager,
Philips (IGT Devices), India



Student Coordinator
Mr. Aadhi Narayan GS
S3 EBE (CONTACT: 9037022464)

SI, S3 & S5 EBE
21.10.25 11.00am-12.30pm Main Seminar Hall, ASIET

ORGANIZED BY
DEPARTMENT OF ELECTRONICS AND BIOMEDICAL ENGINEERING

In association with
TELEMEDICINE SOCIETY OF INDIA (KERALA)



Advanced Imaging and Laser Technology in Interventional Cardiology



Career Orientation Session: “Biomedical Engineering – From Classroom to Profession”

To provide students with a better understanding of career paths and opportunities in the biomedical industry, the Department of Electronics and Biomedical Engineering, in association with the Telemedicine Society of India (Kerala Chapter), organized a Career Orientation Session on “Biomedical Engineering: From Classroom to Profession” on 23rd October 2025 at the Main Seminar Hall, ASIET. The first session, from 11.00 a.m. to 12.30 p.m., was handled by Mr. Bernin Lawrence, Founder and Director, Cynoptic Healthcare, Kochi, who shared his experiences as a biomedical entrepreneur and highlighted the importance of innovation and interdisciplinary learning. The second session, from 2.30 p.m. to 4.00 p.m., was delivered by Mr. Shino Lukose, Founder and Managing Director, LUKA Healthcare, Alappuzha. He discussed the practical aspects of biomedical product development, healthcare technology management, and startup ecosystems in India. Both sessions offered valuable career guidance and motivated students to translate classroom knowledge into impactful professional contributions. The event witnessed active participation from S1, S3, and S5 B.Tech Biomedical Engineering students, who gained inspiration to pursue excellence in the ever-evolving field of biomedical engineering.



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Vidya Bharathi Nagar, Kalady, Ernakulam, Kerala
www.adishankara.ac.in



Career Orientation Session
on
“Biomedical Engineering: From Classroom to Profession”

<p>11.00 am- 12.30 pm</p>  <p>Mr. Bernin Lawrence Founder and Director Cynoptic Healthcare, Kochi, Kerala</p>	<p>2.30 am- 4.00 pm</p>  <p>Mr. Shino Lukose Founder and Managing Director LUKAHealthcare Alappuzha , Kerala</p>
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23.10.25 Main Seminar Hall, ASIET S1, S3 & S5 EBE

ORGANIZED BY
DEPARTMENT OF ELECTRONICS AND BIOMEDICAL ENGINEERING

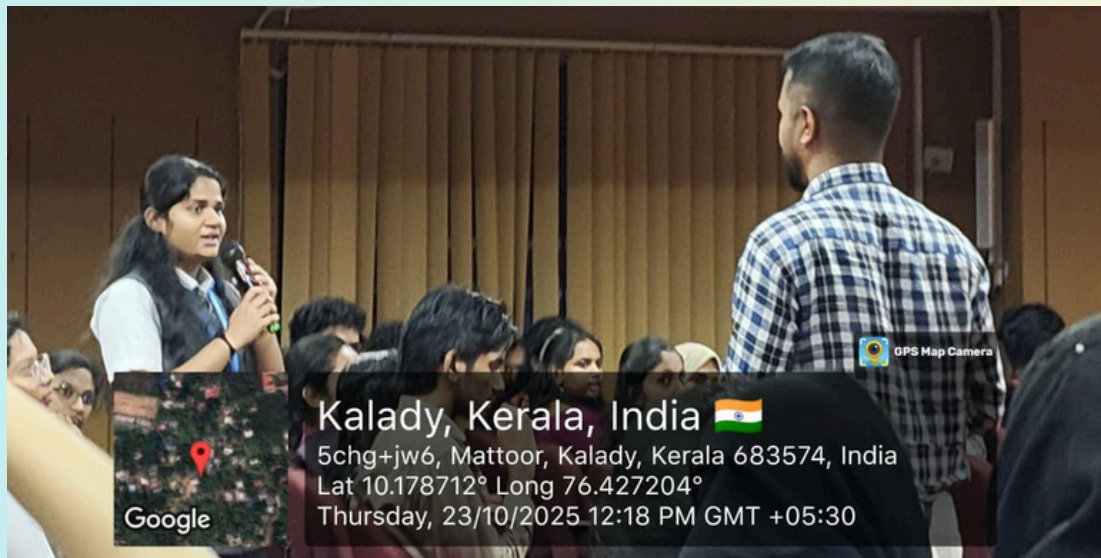
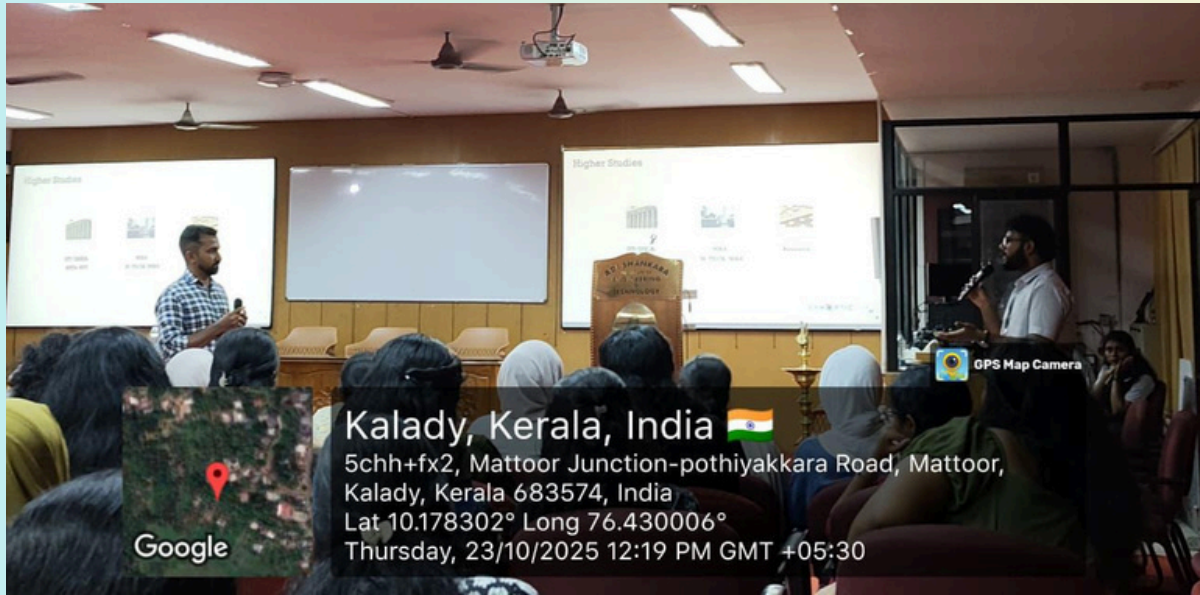
In association with
TELEMEDICINE SOCIETY OF INDIA (KERALA)







Career Orientation Session: "Biomedical Engineering – From Classroom to Profession"



EBSAA ,TSI AND BMESI: SHAPING TOMMOROW

Lead EBSAA

The Department of Electronics and Biomedical Engineering, Adi Shankara Institute of Engineering and Technology, announced a Call for Executive Committee (Ex-Com) Members under the banner LEAD EBSAA. This initiative aims to identify and empower aspiring student leaders who are passionate about contributing to departmental activities and innovations. The call invited 3rd and 5th semester students to submit their proposals for becoming part of the EBSAA Executive Committee, offering them an excellent opportunity to enhance their leadership, coordination, and teamwork skills. Interested students were asked to submit their proposals by 10th October 2025 to the current BMESI leads. This platform encourages students to step forward, take initiative, and play an active role in shaping the future of the department's student community through meaningful engagement and leadership.



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

LEAD EBSAA
CALL FOR EX-COM

Submit your proposal before 10/10/2025

IEEE EMBS, IGAAC, and other logos






CELEBRATING EXCELLENCE: STUDENT ACHIEVEMENTS & SUCCESS MILESTONES

Team FlexCore from EBE Department Shines with Multiple Awards for Innovation

The students of the Department of Electronics and Biomedical Engineering at Adi Shankara Institute of Engineering and Technology have achieved outstanding success by winning multiple awards at various intercollegiate technical events for their innovative project titled "FlexCore – Gamified Joint Rehabilitation: An Interactive Approach for Neuromuscular Patients."

The team comprising Sreejith Ramachandran, Misna Abdul Manaf, Shamnad M, and S Vinayak (2022–2026 Batch, EBE) developed an interactive rehabilitation system that integrates gaming principles into physiotherapy routines. The project aims to enhance patient motivation and engagement during neuromuscular recovery by combining biomedical engineering concepts with interactive technology.

The team, under the expert guidance of Dr. Remya George, Professor and Head of the Department of EBE, has brought laurels to the institution through the following remarkable achievements:

-  First Prize at INNOVISTA 2025, conducted by the Department of Electronics and Communication Engineering, Mar Athanasius College of Engineering, Kothamangalam, winning a cash prize of ₹8000.
-  First Prize in the Exhibition as part of EMMERZO 25–26, organized under Vyvidh 25–26 by the Department of AI & ML, Vidya Academy of Science and Technology, securing a cash prize of ₹6000.
-  Second Prize at TECH TRAVERSE, conducted by IEDC x IIC MACE at Mar Athanasius College of Engineering, with a cash award of ₹7000.

These consecutive wins reflect the team's creativity, technical competence, and dedication to addressing real-world healthcare challenges through engineering innovation.



CELEBRATING EXCELLENCE: STUDENT ACHIEVEMENTS & SUCCESS MILESTONES

Event 1: INNOVISTA 2025 – Mar Athanasius College of Engineering



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

CONGRATULATIONS

On securing First Prize at INNOVISTA , Conducted by the Department of Electronics and Communication Engineering at
MAR ATHANASIU College OF ENGINEERING
2022-2026 batch-EBE

Mar Athanasius College of Engineering
Govt. Aided Autonomous Institution Estd. in 1961
NAAC Accredited with A+ Grade



**SREJITH
RAMACHANDRAN**



**MISNA ABDUL
MANAF**



SHAMNAD M



S VINAYAK

PROJECT TITLE : **FLEXCORE-GAMIFIED
JOINT REHABILITATION:AN
INTERACTIVE APPROACH FOR
NEUROMUSCULAR PATIENT**

UNDER THE GUIDANCE OF
**DR.REMYA GEORGE,
PROFESSOR & HOD -EBE**



1st prize with a cash prize of 8000/-



Event 2: EMMERZO 25-26 – Vidya Academy of Science and Technology



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Congratulations

for securing the 1st Prize in the Exhibition conducted as part of **EMMERZO 25-26**,
organized under Vyvidh 25-26 by the Department of AI & ML at
VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY

2022-2026 BATCH -EBE

SREEJITH RAMACHANDRAN

SHAMNAD M

S VINAYAK

MISNA ABDUL MANAF

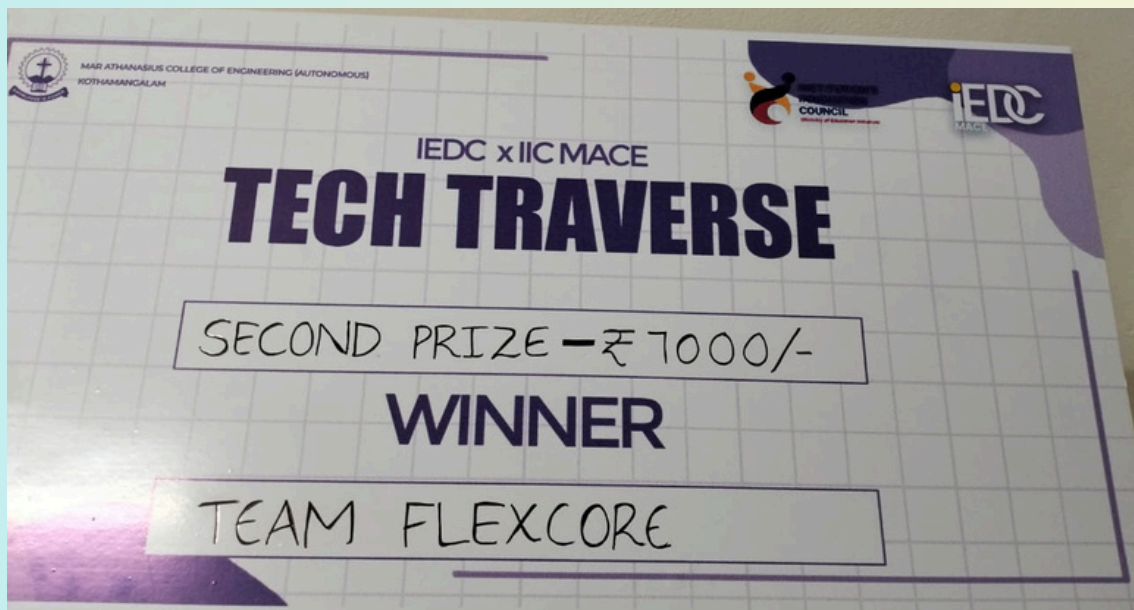
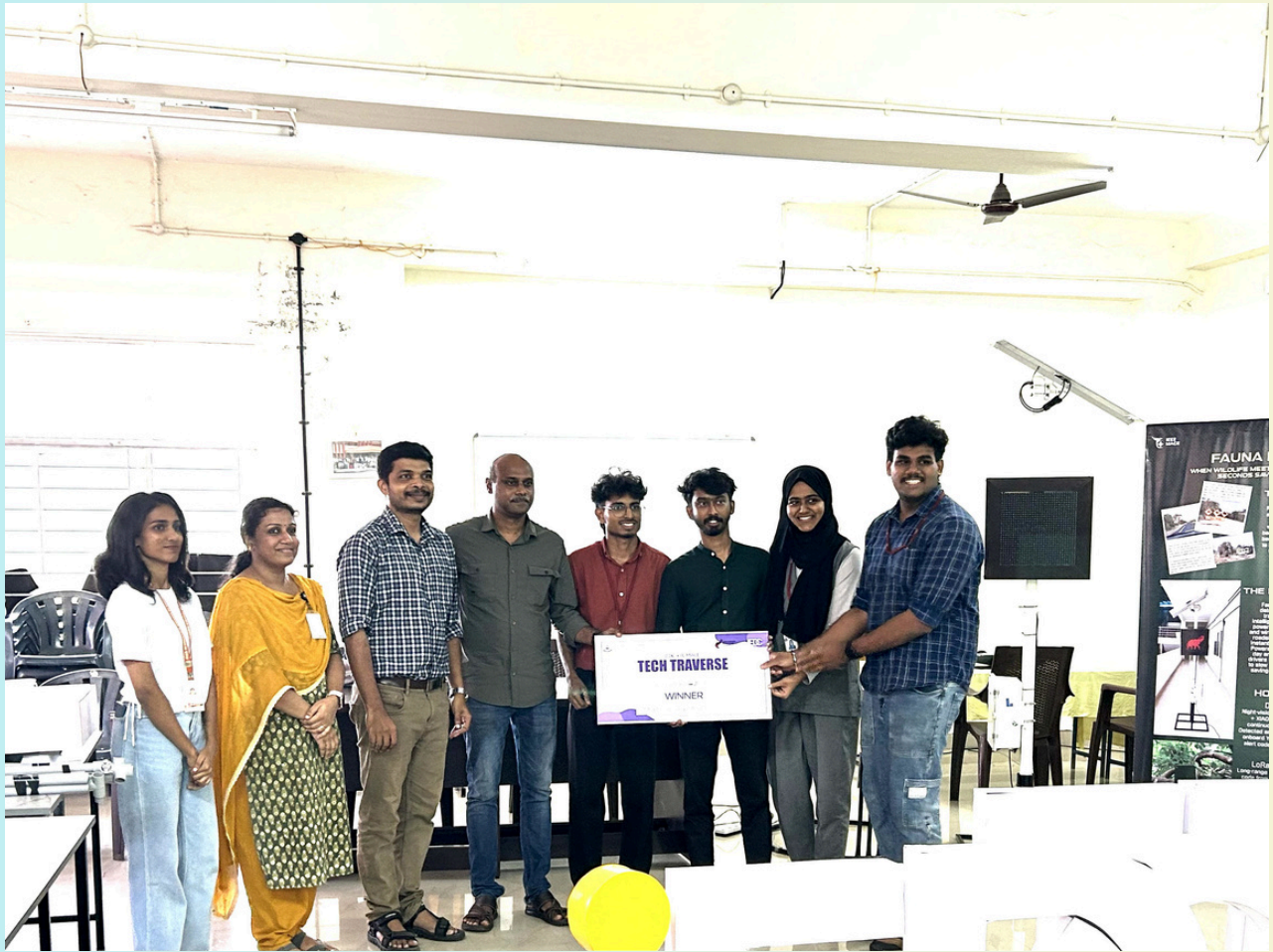
**PROJECT TITLE :FLEXCORE-
Gamified Joint Rehabilitation:An
Interactive Approach For
Neuromuscular Patients**

UNDER THE GUIDANCE OF
DR.REMYA GEORGE ,
PROFESSOR & HOD-EBE

1ST PRIZE with a cash prize of - 6000/-



Event 3: TECH TRAVERSE – IEDC x IIC MACE



Prestigious Junior Research Fellowship (JRF) at DRDO



NAKSHATHRA ANIRUDHAN

Nakshathra Anirudhan (2021–2025 Batch, EBE) achieve the prestigious Junior Research Fellowship (JRF) at the Defence Research and Development Organisation (DRDO).



Excellence in Learning

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MYDHILY UNNIKISHNAN
for successfully completing the course
Digital Speech Processing
with a consolidated score of **54** %

Online Assignments	12.63/25	Proctored Exam	41.25/75
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Total number of candidates certified in this course: 98

Jul-Sep 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25EE1705635000874 To verify the certificate No. of credits recommended: 2 or 3

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SREELAKSHMI SUNI
for successfully completing the course
Digital Speech Processing
with a consolidated score of **46** %

Online Assignments	12.63/25	Proctored Exam	33/75
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Total number of candidates certified in this course: 98

Jul-Sep 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25EE1705635000972 To verify the certificate No. of credits recommended: 2 or 3

Mydhily Unnikrishnan and Sreelakshmi Sunil, talented 55 students (2023 Batch) of EBE Department have successfully completed the prestigious NPTEL Online Certification course on Digital Speech Processing (Jul–Sep 2025).

Sreejith Ramachandran of S7 EBE (2022 Batch) ave successfully completed the prestigious NPTEL Online Certification course with Elite certification on Automation in Production Systems and Management

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SREEJITH RAMACHANDRAN
for successfully completing the course
Automation in Production Systems and Management
with a consolidated score of **61** %

Online Assignments	20.63/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: 306

Jul-Oct 2025
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25MG135S1155900217 To verify the certificate No. of credits recommended: 3 or 4



TSI Talks – A New Initiative Flagged Off with Excellence



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Electronics and Biomedical Engineering

CONGRATULATIONS



Ardhra Dev T S
S3 EBE (2024 batch)



Pavithra S Nair
S3 EBE (2024 batch)

Successfully delivered an insightful Presentation on 'QUANTUM ENTANGLEMENT' at KIMS HEALTH, Trivandrum on 21/10/2025 under the banner of ASIET-TSI (K) Talks as part of institute - industry interaction fostering knowledge exchange and shaping future collaborations.




ARDHRA DEV T S



PAVITHRA S NAIR

Ms. Pavithra S. Nair and Ardhra Dev T. S. of S3 Student's (2024 Batch) of EBE Successfully delivered an insightful Presentation on 'QUANTUM ENTANGLEMENT' at KIMS HEALTH, Trivandrum on 21/10/2025 under the banner of ASIET-TSI (K) Talks as part of institute - industry interaction fostering knowledge exchange and shaping future collaborations. Our student members voluntarily present industry-focused sessions on emerging technological trends.

EBE Student Selected as NRPf Regional Coordinator



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

CONGRATULATIONS



Jinusree M
Unit No:228

Selected as the NRPf Regional Coordinator (Eranakulam Region) APJA KTU NSS Cell



JINUSREE

Ms. Jinusree M of S5 EBE (2023 Batch) has been selected as the NRPf Regional Coordinator (Eranakulam Region) for the APJAKTU NSS Cell. This prestigious role recognizes her dedication, leadership, and commitment to community service. Jinusree truly exemplifies the spirit of leadership and excellence fostered in our department

The Synapse Summit: Debate Competition

The IEEE EMBS Student Chapter of Adi Shankara Institute of Engineering and Technology organized “The Synapse Summit – Debate Competition” on 22nd October 2025 at 1:30 p.m. in T10, Department of Electronics and Biomedical Engineering. The event provided a vibrant platform for students to express their viewpoints, challenge ideas, and engage in constructive discussions on contemporary and thought-provoking topics related to technology and society. Participants showcased exceptional communication skills, critical thinking, and confidence as they debated on various perspectives with clarity and conviction. The competition encouraged students to think analytically, articulate logically, and respect diverse opinions—skills essential for both professional and personal growth. The event was well-coordinated by the IEEE EMBS Student Branch Chapter of ASIET, under the Department of Electronics and Biomedical Engineering, and received enthusiastic participation from students across semesters. The spirited debates and insightful arguments made The Synapse Summit a memorable and intellectually enriching experience for all. Abiya Ivan (S1 EBE, 2025 Batch) secured the second prize, while Mydhili Unnikrishnan (S5 EBE, 2023 Batch) earned the third prize, marking an impressive display of intellect and articulation.



MYDHILI UNIKRISHNAN



ABIYA IVAN

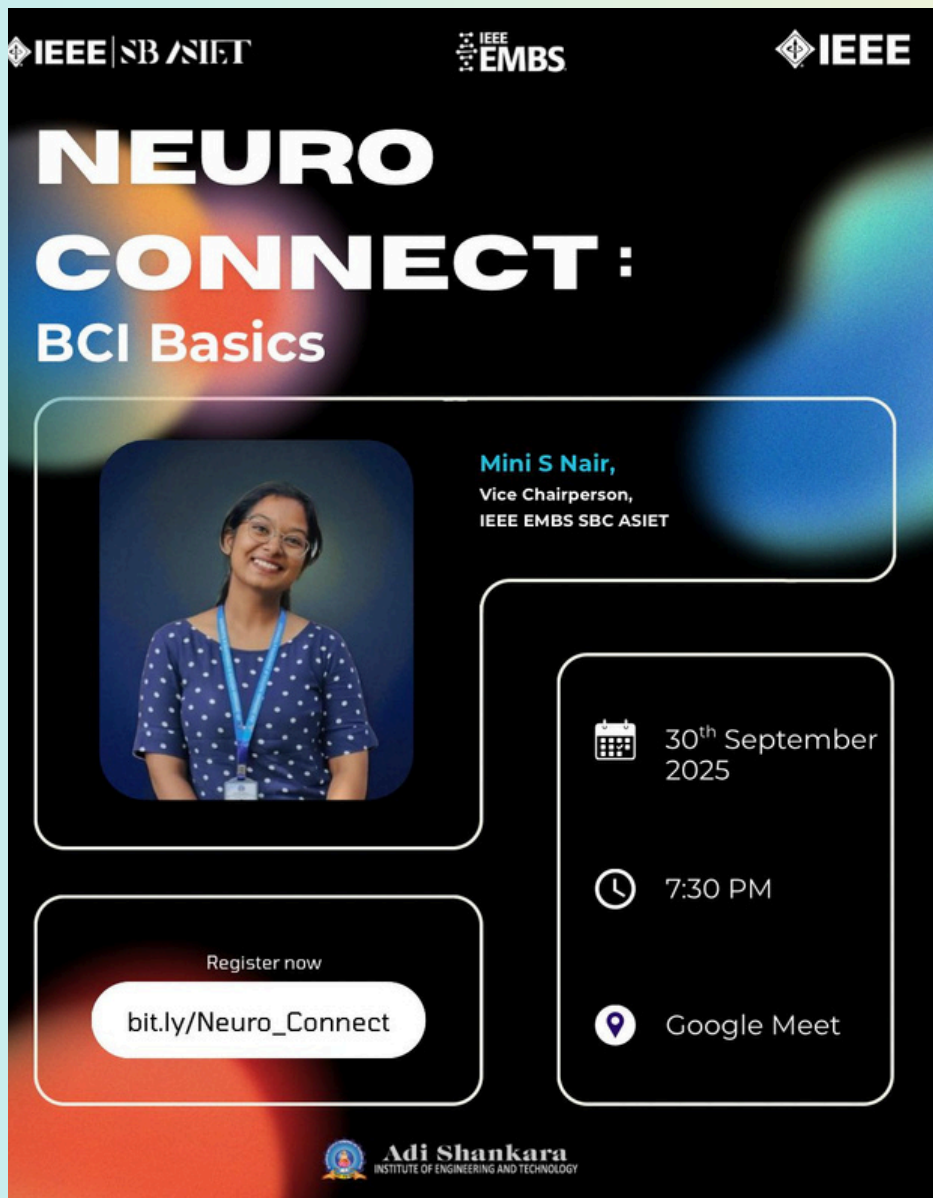
ASIET Women’s Volleyball Team Secures Interzone Runner-Up Title

The ASIET Women’s Volleyball Team showcased an outstanding performance at the APJ Abdul Kalam Technological University Interzone Women Volleyball Championship 2025–26, securing the Runner-Up position. A special mention goes to Bhama (S3 EBE-2024 Batch) and Angel (S5 EBE, 2023 Batch) for their remarkable contribution and consistent performance, which played a vital role in the team’s success.



Student-Led IEEE EMBS Session on “Neuro Connect: BCI Basics”

The IEEE EMBS Student Branch Chapter of Adi Shankara Institute of Engineering and Technology (ASIET) organized an online session titled “Neuro Connect: BCI Basics” on 30th September 2025 at 7:30 PM via Google Meet. The session was led by Mini S. Nair, Vice Chairperson, IEEE EMBS SBC ASIET, who introduced participants to the fundamentals and applications of Brain-Computer Interface (BCI) technology. The event aimed to spark interest in neural engineering and its significance in bridging the gap between the human brain and technology. We are delighted to note that our students took the lead in organizing and delivering this insightful session, reflecting the department’s commitment to fostering student leadership and technical excellence.



The poster features a dark background with a colorful bokeh effect. At the top, it displays logos for IEEE SB/ASIET, IEEE EMBS, and IEEE. The main title "NEURO CONNECT: BCI Basics" is prominently displayed in white. Below the title, there is a photo of Mini S. Nair, Vice Chairperson of IEEE EMBS SBC ASIET. To the right of the photo, the date "30th September 2025" is shown with a calendar icon, the time "7:30 PM" with a clock icon, and the location "Google Meet" with a location pin icon. A "Register now" button with the URL "bit.ly/Neuro_Connect" is located at the bottom left. The Adi Shankara Institute of Engineering and Technology logo is at the bottom center.

IEEE SB/ASIET IEEE EMBS IEEE

NEURO CONNECT: BCI Basics

Mini S Nair,
Vice Chairperson,
IEEE EMBS SBC ASIET

30th September
2025

7:30 PM

Google Meet

Register now
bit.ly/Neuro_Connect

Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY



PARTICIPATIVE LEARNING: BEYOND THE LECTURE

5-Day Hands-on Workshop on Biomedical Equipment Testing and Calibration



Benefits for Students

- Hands-on training with hospital-grade equipment
- Certification of completion
- Practical knowledge aligned with curriculum
- Improved employability & confidence
- Internship & industry exposure opportunities

Duration & Schedule

📅 5 Days | 6 Hours per Day | 30 Hours
👨‍🏫 Trainers: Certified Clinical Engineers and Industry Experts

Day 1-2: Ventilators and Anesthesia Workstations
Day 3-4: Electrosurgical Unit and Infusion Pumps
Day 5: Calibration along with Soft Skills

Contact & Registration
Mr.S Vinayak-7306837634
Ms.MisnaAbdulManaf-9497616666

About

The i-CET Biomedical Engineering Skill Development Centre by Inscor Medical Solutions Pvt. Ltd. is conducting a hands-on workshop on Biomedical Equipment Testing and Calibration, designed to bridge classroom learning with real-world healthcare technology. This workshop is closely aligned with academic subjects such as Therapeutic Equipment (EBT 304), Medical Imaging Techniques (EBT 305), Medical Electronics (EBL 331), Medical Systems (EBL 411), and Analytical & Diagnostic Equipment (EBT 301) under the KTU 2019 Scheme of Electronics and Biomedical Engineering. It aims to enhance the practical knowledge, industry readiness, and professional competency of biomedical engineering students.

Workshop Modules

- Anesthesia Workstation – Principles, calibration, safety & maintenance
- Ventilators – Operation, troubleshooting & infection control
- Electrosurgical Unit (ESU) – Concepts, modes, and quality checks
- Infusion Pumps – Technology, error handling & safety
- Calibration & Electrical Safety Testing – IEC 60601 & 62353 compliance
- Soft Skills Training – Communication & personality development

Targeted Audience

S7 EBE, ASIET (2022-2026 batch)



Dept. of Electronics and Biomedical Engineering

5- Days Hands-on Workshop in Biomedical Equipment Testing and Calibration

Organized by Telemedicine society of India (Kerala), and EBSAA In Association with i-CET

Inscor Medical Solutions Pvt. Ltd., Kochi

Date-21/10/2025-25/10/2025

Faculty Coordinator:
Dr. Tresa Joseph, Assistant Professor

Student Coordinators:
Mr. S Vinayak, 2022-26 batch
Ms. Misna Abdul Manaf, 2022-26 batch





The Department of Electronics and Biomedical Engineering, Adi Shankara Institute of Engineering and Technology (ASIET), in association with the Telemedicine Society of India (TSI) Kerala Chapter, EBSAA, and i-CET Biomedical Engineering Skill Development Centre, Inscor Medical Solutions Pvt. Ltd., Kochi, successfully organized a 5-Day Hands-on Workshop on “Biomedical Equipment Testing and Calibration” from 21st to 25th October 2025. The program was designed to enhance the technical competency and industry readiness of final-year biomedical engineering students through intensive practical training on hospital-grade equipment and international safety standards. The workshop covered the calibration, operation, and preventive maintenance of key biomedical instruments such as ventilators, anesthesia workstations, electrosurgical units, and infusion pumps. Certified clinical engineers and industry professionals from i-CET and Inscor led the sessions, providing participants with valuable insights into real-time clinical engineering practices.



5-Day Hands-on Workshop on Biomedical Equipment Testing and Calibration



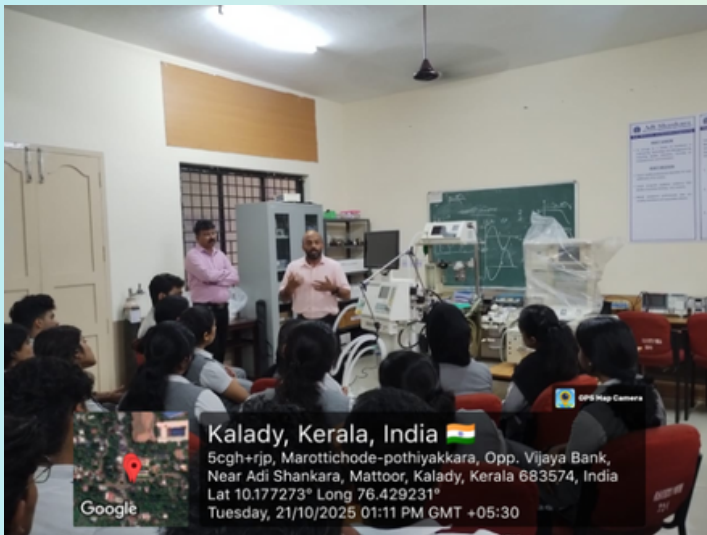
Across five days, students actively engaged in hands-on sessions using professional testing tools, calibration analyzers, and safety compliance equipment. The initial sessions focused on the working and calibration of anesthesia workstations and ventilators, followed by detailed training on electrosurgical units and infusion pump calibration. The final day emphasized integrated calibration practices and included an interactive session on professional communication, documentation, and teamwork – essential skills for biomedical engineers in healthcare settings. The workshop not only provided a strong foundation in IEC 60601 and 62353 safety standards but also offered students a platform to apply theoretical knowledge in real-world scenarios. Participants gained confidence in testing and maintaining critical biomedical equipment, ensuring both performance accuracy and patient safety. The event was coordinated by Dr. Tresa Joseph, Assistant Professor, Department of Electronics and Biomedical Engineering, along with student coordinators Mr. S. Vinayak and Ms. Misna Abdul Manaf (S7, 2022–26 batch). All participants received certificates of completion from i-CET and Incon Medical Solutions Pvt. Ltd. The workshop was highly appreciated by students for its practical relevance and professional approach. It served as an important step in bridging the gap between classroom learning and clinical practice, aligning perfectly with the department’s mission to promote skill-based learning, innovation, and industry engagement in the field of Biomedical Engineering.



5-Day Hands-on Workshop on Biomedical Equipment Testing and Calibration -A Glimpse



5-Day Hands-on Workshop on Biomedical Equipment Testing and Calibration -A Glimpse



OUR FINESSE

S2 RESULT- BATCH 2024-28





Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

COLLEGE CODE **ASI**

CONGRATULATIONS

**KTU S2 UNIVERSITY EXAM TOPPERS
BATCH 2024-2028**

DEPARTMENT OF ELECTRONICS & BIOMEDICAL ENGINEERING

 SREEPARVATHY PREETH 9.59	 GANGA V.M 9.25	 SUKRITHA A 9.20		
 GOURI V.M 9.11	 GAYATHRI JAYANKRISHNA 9.11	 SAYOOJYA SANTHOSH 8.61	 ANUGRAHA SIJU 8.57	 ANUSREE SATHEESH 8.36
 GOWRI SHARMA 8.36	 V RADHIKA KAMMATH 8.34	 PAVITHRA S NAIR 8.34	 ADHITHYAN SAJI 8.23	 MIDHUN RAJ 8.18
 ARDHRA DEV T.S 8.16	 AGINA ROY 8.02	 NAUFIA K.N 8.00		






FACULTY SPOTLIGHT: A BEACON OF INSPIRATION

International Conference Presentation – IJCACI 2025

Dr. Tresa Joseph, Assistant professor of the EBE Department has successfully presented her research paper titled “Power Efficient Realization of Gating Units in LSTM Networks” at the 9th International Joint Conference on Advances in Computational Intelligence (IJCACI 2025). The conference was organized by Washington University of Science and Technology, USA, and RV Institute of Management, Bangalore, with Springer as the publishing partner. This achievement highlights her outstanding contribution to the field of computational intelligence and her commitment to advancing innovative research at an international level.



Patent Filing and Examination –

Innovation in Sustainable Technology

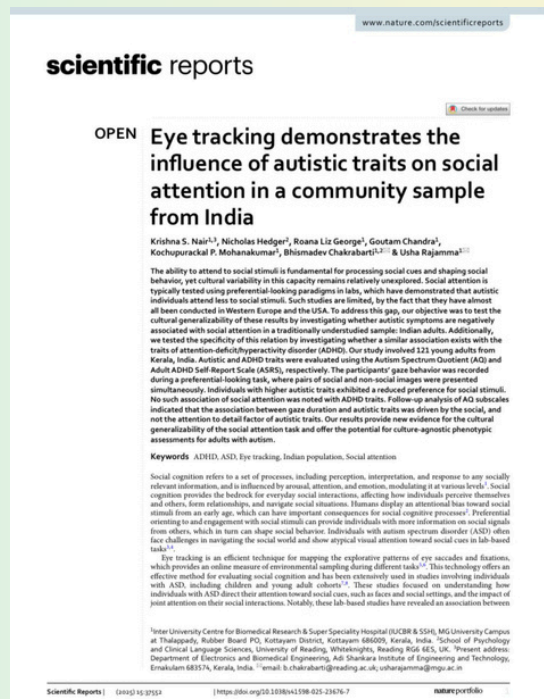
Dr. Tresa Joseph and Dr. Remya George of EBE Department has successfully progressed their innovative project work in sustainable technology by filing a patent titled “Automated Device for Deactivation of Superabsorbent Polymers and Recovery of Reusable Materials” with the Intellectual Property India authority.



Research Excellence



Ms. Krishna S Nair Asst. professor, Dept. EBE has published her research article titled, “Eye tracking demonstrates the influence of autistic traits in social attention in a community sample from Indian” in Scientific Reports published by Springer Nature



FACULTY SPOTLIGHT: A BEACON OF INSPIRATION

Learning Excellence



Dr. Lakshmi M Hari , Associate professor of the EBE Department have successfully completed the prestigious NPTEL Online Certification course with Elite certification on Neurobiology



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DR LAKSHMI M HARI
for successfully completing the course

Neurobiology

with a consolidated score of **70** %

Online Assignments	21.67/25	Proctored Exam	48/75
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Total number of candidates certified in this course: **449**

Pathish
Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Aug-Sep 2025
(4 week course)

Satyaki Roy
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur






Indian Institute of Technology Kanpur

Roll No: NPTEL25BT77S655901162 To verify the certificate  No. of credits recommended: 1 or 2



Dr. Surya Das , Assistant professor of the EBE Department have successfully completed the prestigious NPTEL Online Certification course with Elite certification on Neurobiology



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SURYA D
for successfully completing the course

Neurobiology

with a consolidated score of **65** %




Online Assignments	22.5/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **449**


Pathish
Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Aug-Sep 2025
(4 week course)

Satyaki Roy
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL25BT77S555901553 To verify the certificate  No. of credits recommended: 1 or 2



EXPERIENTIAL LEARNING: EXPLORE, ENGAGE, EVOLVE

PLACEMENTS



ASHIF ASHARAF-2021 BATCH

As Trainee Engineer in
Sharp Medical Enterprises



MARY ANSTEENA JOSEPH-2021 BATCH

As Sales Engineer in
Matrix Medical System



DEEPESH T.B-2021 BATCH

As Sales Executive in
Nidra Associates



MADHAV M NAIR-2021 BATCH

As Sales and Service
Engineer in Trading
Corporation



EXPERIENTIAL LEARNING: EXPLORE, ENGAGE, EVOLVE

INTERSHIPS

Meenakshi M Menon (S5 EBE) and Devika G A (S5 EBE), 2023 BATCH HAS successfully secured and completed the internships at Nanograf Pvt. Ltd. and the Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST).



Devika G A



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Congratulations

Meenakshi M Menon
S5 EBE

Devika G A
S5 EBE

For completing internship at Sree Chitra Tirunal
Institute for Medical Science and Technology
Department of Electronics and Biomedical Engineering

IEEE EMBS, IQAC, and other institutional logos.



Meenakshi M Menon



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Congratulations

Meenakshi M Menon
S5 EBE

Devika G A
S5 EBE

“Successfully secured internship at Nanograf Pvt. Ltd.,
marking the start of growth, learning, and innovation ahead.”

DEPARTMENT OF ELECTRONICS AND BIOMEDICAL ENGINEERING

IEEE EMBS, IQAC, and other institutional logos.

EDITORIAL TEAM



DR. TRESA JOSEPH
ASST. PROFESSOR, EBE



**MYDHILY
UNNIKRISHNAN**
S5 EBE



MINI S NAIR
S5 EBE



MEENAKSHI M MENON
S5 EBE



ANUSREE SATHEESH
S3 EBE



AGINA ROY
S3 EBE



SUKRITHA A
S3 EBE



V RADHIKA KAMMATH
S3 EBE



SREEPARVATHY PREETH
S3 EBE



**GAYATHRI JAYAN
KRISHNA**
S3 EBE



SAYOOJYA SANTOSH
S3 EBE



ALEENA N
S3 EBE

