



15/05/2024 Wednesday

*Final year student "Sai Krishna" has  
achieved All India Rank 39 in GATE Exam*

TKMINSTITUTE OF TECHNOLOGY



IEEE SB TKMIT Ex Secretary

**Congratulations to Mr.Sai Krishna  
(S8) for achieving All India Rank 39 in  
the GATE Exam**

**Kollam:** Sai Krishna was the final year student of 2020-24 batch. His achievement was remarkable for securing 39th rank in gate exam 2024. His dedication, perseverance, and hard work have paid off, and the college incredibly proud of his outstanding performance. He is a IEEE SB TKMIT Ex secretary. As an active member of IEEE, Sai has consistently demonstrated leadership, commitment, and a drive for excellence. His contributions to our projects and initiatives have been invaluable. Additionally, his involvement with BLAZE has showcased his versatility and enthusiasm in various technical and non-technical activities. Achieving such a prestigious rank in the GATE exam is no small feat, and Mr. Sai Krishna's success serves as a beacon of inspiration for all aspiring engineers. We are incredibly proud of Sai Krishna's success and look forward to witnessing his future accomplishments



**"The benefits of biomedical progress are obvious, clear, and powerful.  
The hazards are much less well appreciated." - Leon Kass**

## Partnership: MOU Signing with Harvey Biomedical and Biomedical Department at TKMIT



We are delighted to announce the signing of a Memorandum of Understanding (MOU) between Harvey Biomedical, Bangalore, and the Biomedical Department of TKMIT. This strategic partnership marks a significant milestone in ongoing commitment to advancing biomedical research, innovation, and education. Harvey Biomedical is a renowned leader in the biomedical industry, known for its cutting-edge research, innovative solutions, and dedication to improving healthcare outcomes. By partnering with Harvey Biomedical, TKMIT's Biomedical Department aims to enhance its research capabilities, provide students with unparalleled learning opportunities, and foster a collaborative environment for groundbreaking discoveries. This MOU will facilitate a range of collaborative initiatives, including joint research projects, internships, and knowledge exchange programs. Students and faculty members will benefit from access to state-of-the-art facilities, industry expertise, and real-world applications of biomedical technologies. This collaboration is expected to significantly enrich the educational experience and professional development of our students, preparing them to excel in the ever-evolving field of biomedical engineering. We are confident that this partnership will drive innovation and contribute to the advancement of biomedical science and technology. Together, Harvey Biomedical and TKMIT's Biomedical Department will work towards common goals of improving healthcare, promoting research excellence, and nurturing the next generation of biomedical professionals. We extend our heartfelt gratitude to the teams at Harvey Biomedical and TKMIT for their dedication and hard work in making this collaboration a reality. We look forward to a fruitful and successful partnership that will bring about meaningful advancements in the biomedical field.

## Empowering Biomedical Students: Practical Workshop on Artificial Neural Networks with Dr. Thasni T



**Kollam:** We are pleased to announce the successful completion of our recent workshop, “Practical Implementation of Artificial Neural Networks Using Python,” led by the esteemed Dr. Thasni T. This hands-on workshop provided an exceptional opportunity for students to dive into the world of artificial neural networks (ANNs) and explore their practical applications in the field of biomedical engineering. Artificial neural networks are at the forefront of modern computational techniques, offering powerful tools for data analysis, pattern recognition, and predictive modeling. This workshop aimed to demystify these advanced techniques and empower participants with the skills to implement ANNs using Python. Dr. Thasni T, a leading expert in artificial intelligence and machine learning, led the session with a clear focus on practical applications and hands-on experience. Her extensive background in both academia and industry made her an ideal facilitator for this workshop. The workshop on artificial neural networks with Dr. Thasni T was a resounding success, offering participants both theoretical knowledge and practical skills. The insights gained are expected to significantly impact their ongoing and future projects in biomedical engineering.

On 13th February 2024

## Internship : Sixth Semester on CYRIX HEALTHCARE PVT LTD Ernakulam



**Ernakulam:** The internship at Cyrix Healthcare PVT LTD, Ernakulam on 8th March 2024 was an enriching experience that deepened our understanding of ultrasound imaging and its myriad applications in healthcare. From gaining practical skills in equipment operation to mastering the principles and techniques of ultrasound imaging, the internship equipped us with a robust foundation for pursuing a career in medical imaging. We are grateful for the invaluable mentorship and hands-on learning opportunities afforded to us during this internship, and we are eager to apply our newfound knowledge and skills to contribute positively to the field of diagnostic imaging. Many new technologies are still being under experimental phases and further studies are still going on. In coming future we are assured that the level of advancements in this field is going to be further extended to bring a beautiful interaction between a machine and a human body.

## IEEE TKMIT AGM: Welcoming New Leadership and Bidding Farewell to Outgoing ExCom Members



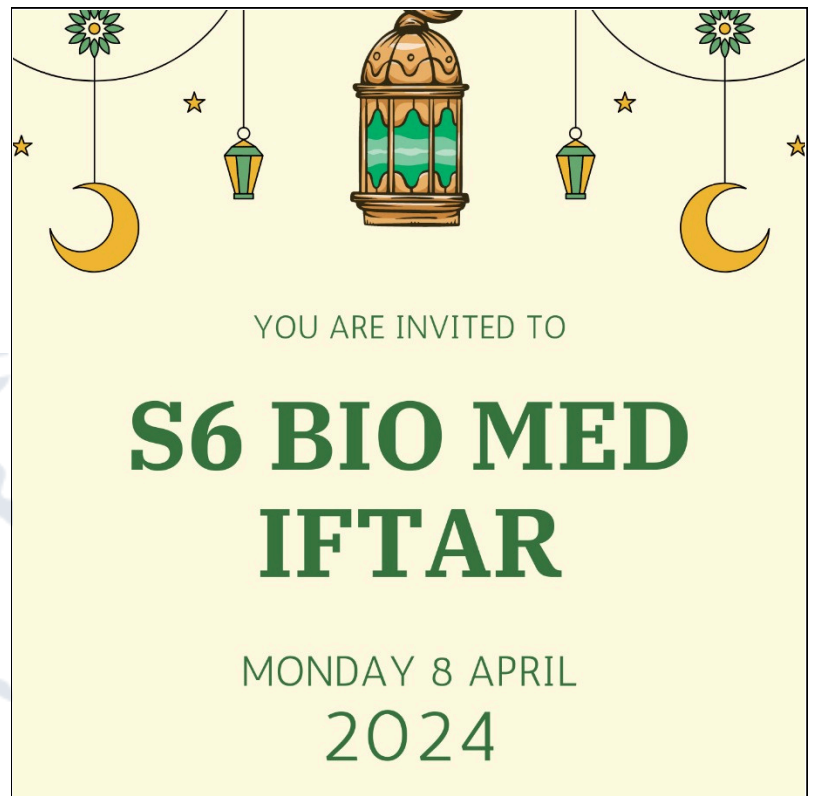
The Annual General Meeting (AGM) of the IEEE TKMIT Student Branch convened on March 7th, 2024, at the Seminar Hall of TKM Institute of Technology, KARUVELIL campus. The meeting commenced with an introduction by Ms. Seemati S, member of EMBS the Student Branch. Ms. Seemati set the tone for the gathering, highlighting its significance as a platform for reflection and planning. She emphasized the importance of the AGM in fostering camaraderie among members and shaping the future direction of the Student Branch. Address on Code of Conductor by Mr. Anas A S, branch counsellor IEEE, delivered an insightful discourse on the Code of Conduct during the AGM. He elaborated on the principles of ethical behavior and professionalism expected from all members. Mr. Anas sir emphasized the importance of upholding these standards to maintain the integrity and reputation of the IEEE TKMIT Student Branch. His address served as a guiding framework for fostering a culture of mutual respect and collaboration within the organization. discussion where conducted based on, Review of the previous year's activities and achievements are discussed, challenges faced and lessons learned, Strategic planning for the upcoming year, including goal setting and action plan, Election of new office bearers for the Executive Committee (ExCom) and their installation. During the Event, Ensure adherence to the agenda and time management, Provide certificate for ex-ecome for their selfless contribution IEEE TKMIT SB Post-Event Actions, Conduct a debrief session to gather feedback on the AGM's organization and outcomes. Poornima Pradheep, Secretary of the EMBS Student Branch, delivered the Vote of Thanks. Poornima expressed gratitude to all attendees for their active participation and contributions to the AGM. She acknowledged the efforts of the organizing committee in planning and executing the event seamlessly. Poornima's words of appreciation underscored the collaborative spirit and teamwork that are integral to the success of the IEEE TKMIT Student Branch. The IEEE ExCom AGM at TKMIT on March 7th is a crucial event for the student branch to reflect on its past performance.

### Internship : Fourth Semester on CYRIX HEALTHCARE PVT LTD Ernakulam



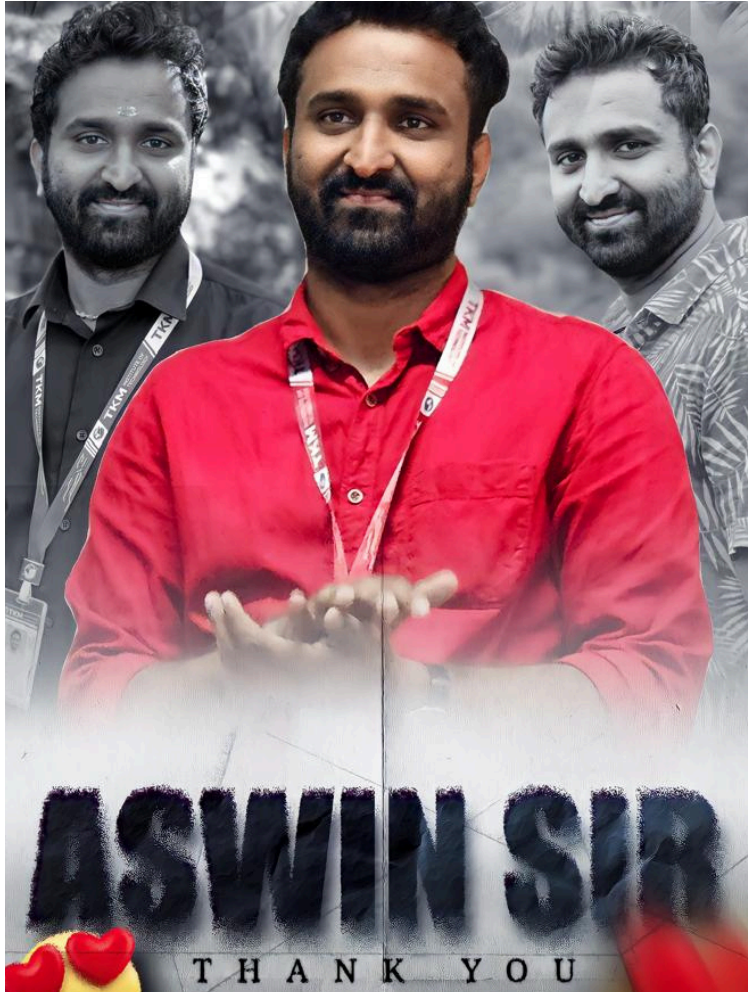
**Ernakulam:** The one-day workshop at Cyrix Healthcare PVT LTD on 20th February 2024 regarding ultrasound and X-ray technologies proved to be an invaluable experience for all participants. The workshop provided a comprehensive overview of the fundamental principles, technical advancements, and practical applications of these crucial diagnostic tools. Hands-on sessions allowed participants to familiarize themselves with the latest equipment and software, enhancing their practical skills and confidence in using these technologies in real-world scenarios. In conclusion, the workshop not only enriched the knowledge base of the attendees but also give a collaborative environment for ongoing learning and professional development. Cyrix's commitment to advancing medical imaging education was clearly demonstrated, leaving participants better equipped to leverage ultrasound and X-ray.

### Iftar Meet: An Evening of Unity and Reflection



**Kollam:** The 6th-semester biomedical students came together to celebrate Iftar in a memorable evening of unity and reflection on 8th march 2024 . This special gathering provided an opportunity for students to connect, relax, and enjoy a traditional Iftar meal, strengthening the sense of community within the program.

The Iftar meet was a delightful occasion that underscored the importance of community and togetherness. The event provided a valuable opportunity for students and faculty to come together, reflect, and celebrate.



## Honoring Asst. Prof. Aswin Raj V: A Fond Farewell from the Biomedical Department

The Biomedical Department of TKMIT recently gathered to bid a heartfelt farewell to Assistant Professor Aswin Raj V, who has decided to resign from his position. The event was a poignant reflection of his contributions and a celebration of his impactful tenure with the department.

Several colleagues and students took the stage to share their reflections and memorable experiences with Professor Aswin. Stories of his dedication, mentorship, and the positive impact he had on both academic and personal levels were recounted, underscoring his role as a mentor and friend.

As a token of appreciation, the department presented Professor Aswin with mementos.

The farewell was a moving tribute to his years of service and dedication to the Biomedical Department at TKMIT. His departure marks the end of a significant chapter, but his impact will be felt for years to come.



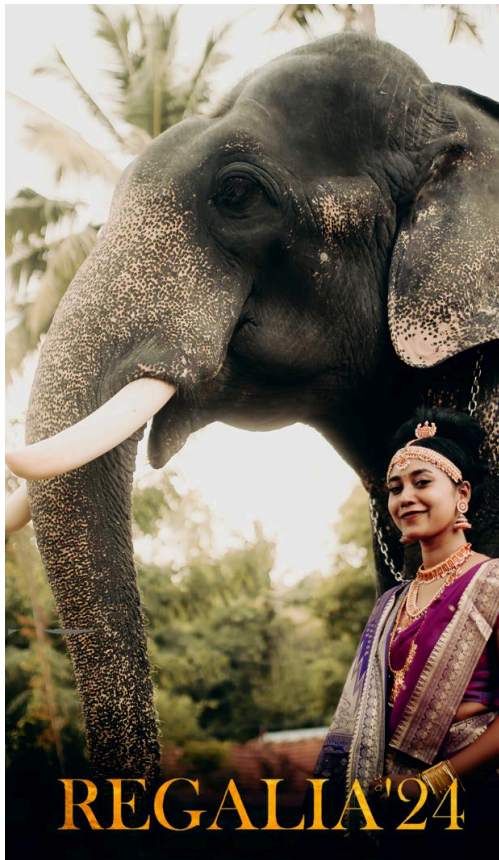
## Faculty Recognitions



**Prof. Aswin Raj V** (Assistant Professor)

“Academic External Expert for District Suchitwa Mission, Kollam”

## Biomedical Students Shine at REGALIA'24: Celebrating Exceptional Participation and Achievements in Cultural Events



**Kollam:** The Biomedical Engineering Department is thrilled to share the remarkable success of our students at REGALIA'24, the annual arts festival that brought together talent from across the campus. Our biomedical students actively participated in a diverse array of cultural events and competitions, showcasing their creativity and enthusiasm.

Biomedical students demonstrated exceptional involvement in various cultural events at REGALIA'24. From dance and music to drama and visual arts, their participation highlighted a broad range of skills and interests. The vibrant presence of our students added to the festival's lively and diverse atmosphere. Our students were not only participants but also contributors to the festival's overall success. They actively engaged in organizing events, setting up exhibits, and supporting their peers.

The festival was marked by remarkable team spirit and collaboration among biomedical students. The collective efforts in preparing for and participating in various events fostered a strong sense of community and camaraderie within the department. Several biomedical students secured top positions in various competitions, underscoring their talent and hard work. Sixth semester biomedical student Adwaita Dersan DR was selected as the Voice Of TKMIT the proud winner of singing competition.

The active participation of biomedical students in REGALIA'24 was a testament to their diverse talents and vibrant spirit. Their achievements and contributions not only enhanced the festival but also brought pride to the Biomedical Engineering Department.

## A Fond Farewell to the Final Year Biomedical Students: Celebrations and Cherished Memories



The Biomedical Engineering Department recently held a heartfelt farewell event to honor the graduating final-year students. On May 7, 2024, faculty, staff, and students came together to celebrate the achievements of the graduating class with a memorable gathering that included a personalized photo frame presentation and a delightful luncheon.



The centerpiece of the farewell celebration was the presentation of personalized photo frames to each graduating student. The photo frames were handed out during a touching ceremony where faculty members shared their reflections and best wishes for the students' future endeavors.



The farewell celebration for the final-year biomedical students was a memorable and heartfelt event that marked the end of an important chapter in their lives. The personalized photo frames and delightful luncheon were tokens of appreciation for their hard work and dedication.



## Biomedical Department Triumphs in Inter-Department Volleyball Tournament

The Biomedical Engineering Department emerged victorious in the highly anticipated inter-departmental volleyball tournament, held as part of the Annual Sports Meet. In an exciting and competitive match against the Civil Engineering Department, the Biomedical team demonstrated exceptional skill and teamwork, clinching the championship title.



## From Campus to Career: Biomedical Department Honors 16 Students with Top Company Placements



# TKM INSTITUTE OF TECHNOLOGY

CAREER GUIDANCE AND PLACEMENT CELL



PLACED STUDENTS  
2020-2024 BATCH

**HEARTLY CONGRATULATES THE PLACED STUDENTS**



SIVAN MURALI  
BM



SALMIYA KHAN  
BM



SARAVISHA T S  
BM



RISHIKA SHILPI  
BM



NOORA P  
BM



NEELHA S FATIMA  
BM



NEELHA FATIMA  
BM



MARTINA ELIZABETH  
BM



JOEL MATHEW JAMES  
BM



KEETHU SHEKHAR  
BM



JACOB VARGHESE  
BM



HRIDYA S S  
BM



DIVYALEKSHMI  
BM



ANSH J S  
BM



ADHINARAY SHILPI  
BM



DEVI CHANDANA  
BM

The Biomedical Engineering Department proudly celebrates a significant achievement as 16 of our final-year students secure placements with leading biomedical companies. This milestone marks a remarkable moment for the department, reflecting the hard work and dedication of both students and faculty.

The Biomedical Department's celebration of 16 placements at leading biomedical companies is a testament to the quality of education and the dedication of both students and faculty. This achievement marks a significant milestone and reflects the department's ongoing commitment to preparing students for successful careers in the biomedical field.

### Faculty Publication

#### **Prof .Jaison Jacob Mathunny**

- ". Jaison Jacob Mathunny, Hari Krishnan S, Ashokkumar Devaraj, Varshini Karthik, "Design & Performance Analysis of a Mecanum-Built Perturbation-Based Balance Training Device", Applied Bionics and Biomechanics, vol. 2024, Article ID 3622556, 12 pages, 2024. <https://doi.org/10.1155/2024/3622556> (SCI, IF = 2.2)
- Jayavel P, Karthik V, Jaison Jacob Mathunny, Jothi S, Devaraj A. Hand assistive device with suction cup (HADS) technology for poststroke patients. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine. 2024;238(2):160-169. doi:10.1177/09544119231221190 (SCI, IF=1.8)"



# Shining Stars

## 1st Semester Toppers

Department of Biomedical Engineering  
**S1 Toppers 2023-27**

**SGPA 9 and Above**

 Ramziya Nazeera 9.53	 Swara Sankar 9.53	 Pavithra Manoj 9.35	 Gauri Jayakumar 9.03
--------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------

**8 and Above**

 Archa Ajith 8.76	 Bismina A S 8.5	 Alen Baby Rajan 8.47	 Devanjana A 8.38	 Nasweeha N S 8.06
----------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

## 3rd Semester Toppers

*Congratulations*

**TOPPERS**  
3 RD SEMESTER KTU BTECH EXAMINATION  
(BATCH 2022-2026)

 POORNIMA PRADEEP 8.77 SGPA	 DEVIKA R NAIR 8.73 SGPA	 MUHSINA M 8.50 SGPA
 ATHUL A S 8.41 SGPA	 ATHIRA S 8.36 SGPA	 RACHEL REJU JOHN 8.09 SGPA

## 5th Semester Toppers

*Congratulations*

**SGPA: 9 above**

 ARYA MURUKESAN SGPA: 9.22	 CHANDANA CHANDRAN SGPA: 9.04	 ADWAITHA DERSANA SGPA: 9.04
---------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

**SGPA: 8 above**

 BHAVYA DAS K SGPA: 8.87	 ADITHYA DHANAKUMAR SGPA: 8.52	 NANDANA MADHAV SGPA: 8.35
 AMINA ALI SGPA: 8.33	 NEHARIN V R SGPA: 8.3	

## 7th Semester Toppers

**S7 Toppers**

 Pheba Mary Shajan 9.7	 Avani P P 9.57	 Jacob Varghese 9.4	 Neeham Fathima V T 9.4	 Noora N 9.17	 Gopika Pushpan 9.1
 Manjima Anoop 9	 Jeethu B S 8.97	 Rushda Shaju 8.97	 Hridya SS 8.9	 Anton J Saji 8.87	 Anamika P J 8.8
 Nourin Fathima N 8.67	 Chandana Ganesh 8.63	 N Salmiya Khan 8.63	 Dona Mathews 8.6	 Martina Elizabeth 8.57	 Aiswarya L 8.5
 Saikrishna T S 8.5	 Devu M 8.47	 Aleena Francis 8.4	 Devyani Rajesh 8.33	 Nidha S Fathima 8.33	 Shanid K T 8.27
 Heba Fyroose U 8.13	 Jerin Thomas 8				

## VISION

To achieve academic excellence in biomedical engineering by developing engineers with state of the art technological skill and professional ethics, to support health care need of the society.

## MISSION

- To provide excellent education to students and prepare them as professionals who can cater to the need of medical-engineering field with an aspiration for research and higher studies.
- To groom the students as employable bio-medical engineers by furnishing a forum for industry-institute interaction that focuses on the need of the hour.
- To instill the social responsibility and professional ethics among the students.

### Cheif Editor



Dr. Jyothiraj V P  
HOD

### Sectional Editor



Jacob Varghese  
8th Semester

### Faculty Editor



Prof. Neethu Sathyan K

### Sectional Editor



Mohammed Faaiz Nizar  
6th Semester