

Department of Biomedical Engineering
KPR Institute of Engineering and Technology



KPR Institute of Engineering and Technology

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“We are Engineers for Doctors”

Biomedical Engineering is one of the premier Engineering disciplines among technocrats since it merges Healthcare Technology with Electronics and Software technologies including Artificial Intelligence, Machine Learning, Robotics in Medicine, Bioinformatics, Prosthetic Engineering etc. to serve better to the human community with advance and continuously upgrading technologies. In KPRIET, we nourish our students with advance laboratories like Bio-signal processing, Diagnostics and Therapeutic Equipment, Human Anatomy and Physiology, Biomedical Instrumentation to learn by practicing. Hospital training and internship are arranged with leading multispecialty hospitals and biomedical industries to facilitate the students for better career. Research activities are vibrant with publications and patents in the recent trends.

Dr.K. S Tamil selvan, HoD/BME

Highlights of this month

Events

Guest Lecture on Numpy and Pandas

**Expert talk on
Application of AI in Healthcare
Sector.**

**Students' Achievement/
Participation**

**Faculty - Professional Development
& Achievements**

Monthly Newsletter: Department of Biomedical Engineering

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About KPRIET

KPR Institute of Engineering and Technology (KPRIET), founded by Dr. K. P. Ramasamy, is one of the leading institutions of academic excellence by imparting technical, intellectual and professional skills to students. The Institution is ranked 100-150 band by NIRF. The institute, with its diverse and energetic community of students offers a distinguishing blend of some of the premium graduate, undergraduate and research programs, talented faculty, world class amenities and a residential campus set on a sprawling 150 acres of lush green campus.

While students at KPRIET immerse themselves in academics, the institute has a lot in store for them outside the classroom. Student life includes participation in sports, co-curricular activities and cultural. In short, at KPRIET, students will find an academic and social environment where everyone- from faculty members to peer's support shape their future. KPRIET is a home to artistically designed buildings with state of the-art computer and internet facilities, modern workshops, seminar halls, auditoriums and well stocked libraries, sports and games fields in addition to an indoor badminton court and gymnasium.

KPRIET has a faculty strength of 265 with a faculty student ratio of 1:15. Out of the total, 139 faculty members PhDs. and 95 are in the process of completing their PhDs. As an exemplary institution of learning, KPRIET follows an admission policy that strongly favours merit, even as it enables access to education for students from all strata of society through appropriate scholarships. The Institution boasts of a strong alumni network with alumni events held every year serving as a platform for past students to give back to KPRIET and share their experiences with its present fellow students.

About the Department

The Department of Biomedical Engineering of KPR Institute of Engineering and Technology, Coimbatore was established in the year 2017 with an annual intake of 60 students. The Department has highly qualified faculty members with Ph. D. and M.E. / M. Tech / M.S. under various specialize such as Biomedical Signal and Image Processing, Medical Electronics, Healthcare Data Analytics, Biomaterials, Regenerative medicine and Nano science. The total strength of the faculty members in the Department is thirteen. Out of which, 60% of the faculty Members (9 Faculty) have completed their PhD and four faculty members are pursuing their PhD.

The faculty members contribute to academic development by publishing books / journals, products, patent filing and presenting papers in International and National Conferences. The Department of Biomedical Engineering signed MoU's with the reputed industries like Silicon systems, Aravind Eye Care Hospital, GEM Hospitals, Ganga Medical Center and Hospital, Masonic Medical Centre for children and ALERT (NGO) to bridge the gap between theory and field practices.

The Department also provides an opportunity for students in improving practical knowledge in the field of Biomedical Engineering and Software skills like MATLAB, Lab VIEW, Wokwi simulation through Centre of Excellence, in addition to Communication and Presentation skills. The students have to undergo Industrial Training and Industrial Visit to facilitate them to take up industrial live projects to understand the industry needs. The Students from Biomedical Engineering as well as faculty members has membership in various Professional Societies like BMESI and IEEE (EMBS) to gain knowledge through various programs conducted by these bodies across the Nation.

Vision of the Department

To be the **center of excellence** for **dissemination of knowledge, research and development** in biomedical engineering to serve **society with moral values**.

Mission of the Department

The **Mission** of the Department is to

- Impart **value-based education** in biomedical engineering using **modern equipment and tools**.
- Build an **integrated team** of biomedical engineers to foster technologies through **research, development and innovation**.
- Provide **healthcare industries** with solutions imbued **through lifelong learning** with **ethics and moral values**.

EVENT - 1GUEST LECTURE ON NUMPY AND PANDAS

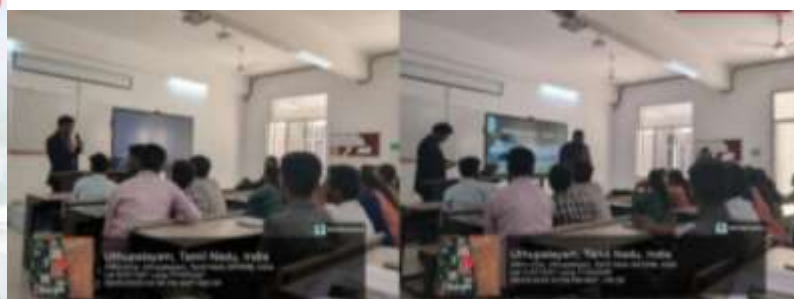
A guest lecture on NumPy and Pandas was delivered by Mr. Pavithran from Robert Bosch Pvt. Ltd, Coimbatore, for the first-year biomedical students, focusing on the practical applications of these essential Python libraries in data analysis and scientific computing. The session introduced students to NumPy, widely used for numerical operations, and Pandas, a powerful tool for data manipulation and analysis. Through real-world examples and interactive demonstrations, Mr. Pavithran provided valuable insights into how these tools are utilized in the industry, particularly in data-driven environments. The lecture aimed to bridge academic concepts with industry practices, enhancing students' technical foundation and preparing them for future challenges in data science and analytics. The session was highly informative and well-received by the students.



EVENT - 2

EXPERT TALK ON APPLICATION OF AI IN HEALTHCARE SECTOR

A guest lecture session was organized on 8th May 2025 for the second-year Biomedical Engineering students, aiming to provide valuable insights into the advancements and emerging trends in the biomedical and data science fields. The event featured two eminent speakers who shared their expertise and highlighted the intersection of healthcare and technology. Key highlights of his talk included: • Nanobots and their role in targeted drug delivery. Wearable health monitors for continuous patient tracking • 3D Bioprinting for organ and tissue fabrication. AI-assisted diagnostics improving accuracy and speed in medical decisions



STUDENTS' ACHIEVEMENTS –TECHNICAL / NON-TECHNICAL/SPORTS

S. No.	Name of the Student	Year	Detail about the Achievement
1.	Mr. Bishnu Thakur	III	Got the offer from IIT Jodhpur for the internship on SIP@SAIDE 25 for the duration of 84 days.
2.	Mr. Rohit Sah	II	Got the offer from IIT Hyderabad for the internship at BME department under Prof Renu John for the duration of 60 days.
3.	Ms. Amirthavarshini V	I	Participated in Awareness program on mass plastic cleaning camp organized by KPRIET
4.	Ms. Sujitha B	I	Participated in “Thal Sainik Selection Camp” organized by KSR Educational Institutions.

FACULTY - PROFESSIONAL DEVELOPMENT & ACHIEVEMENTS

S.No.	Name of the Faculty member	Activity details
1.	Dr. Allwyn Gnanadas A, AP-III/BM	Participated in Hands on practical training on Biomedical Testing and calibration Equipments on 19 th and 20 th May 2025 conducted by Helix Private Limited , Bangalore.
2.	Dr. D Sudarvizhi, Asso. Prof/ BM	Presented a paper titled Voice guided wheelchair innovative 3D printed prosthetic for tetraplegia patient at the national conference on emerging trends in Bioengineering and Technologies 15 th May 2025 , organized by Department of Biomedical Engineering , Hindustan College of Engineering and Technology , Coimbatore.
3.	Ms. Kanimozhi S, AP-I/BM	Participated in five-day FDP on “Advanced Communication for Professional Excellence” conducted by NITTTR Chennai which was organized by KPRIET.