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KPR Institute of Engineering and Technology
Learn Beyond
(Autonomous, Affiliated to Anna University)

DEPARTMENT OF BIOMEDICAL ENGINEERING

BIO-SCOPE

Quarterly newsletter of the department



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Highlights of the Quarter

BMESI Inauguration

The BMESI Inauguration marked the beginning of an exciting journey, bringing together Biomedical Engineering students and faculty to celebrate innovation, collaboration, and the spirit of the department.

LabviewX event

LabVIEWX was an insightful hands-on session led by Prof. Tamilselvan, introducing students to LabVIEW software and its applications in Biomedical Engineering through practical learning.

17 offline events in one quarter

Workshops, guest lectures, training and outreach conducted on campus between July and September 2026.

Industry and start-up exposure

MeitY GENESIS awareness, an industry-oriented one credit course and a Shop Floor Immersion programme.

Events Organised

Nutrikids

Date: 03 Jul 2026 **Venue:** P.R. Siddha Naidu Memorial Matriculation School

Resource person: Dr. D. Sudarvizhi, Faculty Advisor, IEEE WiE Affinity Group

Nutrikids was an outreach programme taken to the school campus to build awareness of healthy eating among young children. Through simple talks and interactive activities, the team explained balanced nutrition, the harm of junk food and everyday habits that keep the body fit. The session reflected the department's commitment to community service and to carrying biomedical thinking beyond the campus.

SDG 2 · Zero Hunger | SDG 3 · Good Health and Well-Being | SDG 4 · Quality Education

Workshop on 3D Printer and Basics of Blender

Date: 04 Jul 2026 **Venue:** Biomechanics Lab **Attendance:** Capacity: 30 participants

Resource person: Mr. Sanjai S and Mr. Sunil Kumar M, Final Year BME

This hands-on workshop, delivered by final year students, introduced participants to 3D modelling in Blender and the working of a 3D printer. Participants learnt to prepare a model, set print parameters and understand how printed parts support prosthetic and anatomical model development. The peer-led format gave juniors a practical start in design and rapid prototyping.

SDG 4 · Quality Education

SDG 9 · Industry, Innovation and Infrastructure

Role of Biomedical Engineering in Medical Coding and Medical Transcription

Date: 04 Jul 2026 **Venue:** Python Programming Laboratory

Resource person: Mr. Suresh Kumar J, CSR Manager

The session introduced students to medical coding and transcription as emerging career avenues for biomedical engineers. The resource person explained how clinical records are converted into standard codes, the skills and certifications employers look for, and how technical knowledge of healthcare adds value in this domain. Students interacted with the speaker on career pathways and industry expectations.

SDG 4 · Quality Education

SDG 8 · Decent Work and Economic Growth

Shop Floor Immersion: Career Development Program

Date: 07 Jul 2026 **Venue:** BME Department **Attendance:** Capacity: 60 participants

Resource person: Internal coordinators

The Shop Floor Immersion programme gave students an early view of how industry works on the ground, covering workflow, quality practices and the professional behaviour expected at the workplace. The programme helped students connect classroom learning with real operations and plan their skill development towards placements and higher studies.

SDG 4 · Quality Education

SDG 8 · Decent Work and Economic Growth

SDG 9 · Industry, Innovation and Infrastructure

Pulse Pitch 2026

Date: 18 Jul 2026 **Venue:** II BME Classroom **Attendance:** Capacity: 30 participants

Resource person: Head of the Department, BME

Pulse Pitch 2026 was an idea pitching event in which student teams presented healthcare and biomedical solutions before a panel. Participants practised framing a problem, describing their solution and defending it with questions. The event encouraged innovation, confidence in public speaking and an early start towards entrepreneurship.

SDG 3 · Good Health and Well-Being

SDG 4 · Quality Education

SDG 9 · Industry, Innovation and Infrastructure

Workshop on MedVerse: AR, VR and Modelling Transform Healthcare

Date: 18 Jul 2026 **Venue:** Biomechanics Lab

Resource person: Ms. Subathira R, Assistant Professor

MedVerse explored how augmented reality, virtual reality and 3D modelling are changing medical training, surgical planning and patient care. Participants worked with modelling tools and saw demonstrations of immersive healthcare applications, gaining an idea of how these technologies can be applied in biomedical projects.

SDG 3 · Good Health and Well-Being

SDG 4 · Quality Education

SDG 9 · Industry, Innovation and Infrastructure

Orientation on NBA Graduate Attributes and Professional Competencies

Date: 31 Jul 2026 **Venue:** BME Board Room, Aryabhatta Block **Attendance:** Capacity: 15 participants

Resource person: Dr. B. Jai Shankar, Professor, ECE; Dr. K. Murugan, Associate Professor

This orientation briefed the faculty on the NBA graduate attributes and professional competencies and how they map to course outcomes and programme outcomes. The speakers discussed documentation practices and ways to strengthen outcome-based teaching and assessment in the department.

SDG 4 · Quality Education

BMESI and Medicosapiens Student Chapter Inauguration

Date: 01 Aug 2026 **Venue:** Thanam Hall **Attendance:** Capacity: 150 participants

Resource person: Mr. Arun Arumugam, CEO

The BMESI and Medicosapiens student chapters were formally inaugurated, giving students a platform for technical talks, projects and professional networking. The chief guest spoke about opportunities in the medical technology sector and encouraged members to take active roles in chapter activities through the year.

SDG 4 · Quality Education

SDG 17 · Partnerships for the Goals

Control Engineering: The Backbone of Modern Healthcare Technologies

Date: 19 Aug 2026 **Venue:** III BME Classroom **Attendance:** Capacity: 75 participants

Resource person: Dr. K. Rajasekaran, Professor

The guest lecture explained how control engineering underpins devices such as infusion pumps, ventilators and robotic surgical systems. Using clinical examples, the speaker showed how feedback and stability concepts ensure accuracy and patient safety. Students found the link between theory and medical devices especially useful.

SDG 3 · Good Health and Well-Being

SDG 4 · Quality Education

SDG 9 · Industry, Innovation and Infrastructure

From Idea to Research: Research 101

Date: 21 Aug 2026 **Venue:** Biomechanics Lab **Attendance:** Capacity: 30 participants

Resource person: Mr. Sudharshan V, Final Year BME

Research 101 was a student-led session that guided juniors from forming a research idea to carrying it out. Topics included literature survey, framing a problem statement, choosing methods and planning publication. Drawing on his own experience, the speaker motivated participants to begin research early.

SDG 4 · Quality Education | SDG 9 · Industry, Innovation and Infrastructure

Industry 4.0 and IoT in Healthcare

Date: 21 Aug 2026 **Venue:** KPR Knowledge Campus **Attendance:** Capacity: 80 participants

Resource person: Prof. Dr. G. Kulanthaivel, Professor and Head, ECE; Dean (Student Affairs)

The talk presented how Industry 4.0 and the Internet of Things are shaping connected healthcare through remote monitoring, smart devices and data-driven diagnostics. The speaker discussed current trends and encouraged students to build skills in sensors, networking and analytics for future biomedical roles.

SDG 3 · Good Health and Well-Being | SDG 9 · Industry, Innovation and Infrastructure

MeitY GENESIS: Funding and Start-up Awareness

Date: 25 Aug 2026 **Venue:** KPR Knowledge Campus **Attendance:** Capacity: 50 participants

Resource person: Dr. K. Senthilkumar, CEO

This awareness session explained the MeitY GENESIS scheme and the funding routes open to technology start-ups. Participants learnt about eligibility, the application process and how to shape an idea into a fundable venture. The session motivated student innovators to consider start-ups as a career option.

SDG 8 · Decent Work and Economic Growth | SDG 9 · Industry, Innovation and Infrastructure

LabVIEWX

Date: 28 Aug 2026 to 29 Aug 2026 **Venue:** Offline

Resource person: Dr. K. S. Tamilselvan, Prof; Ms. R. Monisha, AP-1; Ms. C. Pooja, Associate Tech Lead

LabVIEWX was a hands-on workshop co-conducted by BMESI and IEEE to introduce students to LabVIEW software and its applications in Biomedical Engineering. The session provided participants with practical exposure to the software, helping them understand its basic tools, features, and applications. Through demonstrations and guided learning, students gained valuable technical skills and a better understanding of how LabVIEW can be used for biomedical instrumentation and data acquisition. The workshop encouraged active participation and enhanced students' confidence in applying LabVIEW to academic and engineering projects.

SDG 4 · Quality Education

SDG 9 · Industry, Innovation and Infrastructure

Industry-Oriented One Credit Course

Date: 07 Sep 2026 **Venue:** III BME Classroom **Attendance:** Capacity: 78 participants

Resource person: Mr. Boopathi Sakthivel, CEO

The one credit course, taught by an industry professional, covered skills and practices that employers value today. Students worked on applied topics beyond the regular syllabus and received direct guidance on industry expectations, strengthening their readiness for internships and placements.

SDG 4 · Quality Education

SDG 8 · Decent Work and Economic Growth

BioCalibrate: Hands-on Training on Biomedical Instrumentation

Date: 11 Sep 2026 **Venue:** CBET, Aryabhatta Block **Attendance:** Capacity: 30 participants

Resource person: Dr. A. Allwyn Gnanadas, Quality Manager; Mr. R. Krishna Kumar, Technical Manager

BioCalibrate offered hands-on training in the calibration and testing of biomedical instruments. Participants understood why calibration and quality control matter for accurate readings and patient safety, and practised the procedures on laboratory equipment under expert guidance.

SDG 3 · Good Health and Well-Being

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SDG 9 · Industry, Innovation and Infrastructure

Engineer's Day Celebrations: Innovate and Ignite

Date: 16 Sep 2026 **Venue:** II and III BM Classroom **Attendance:** Capacity: 40 participants

Resource person: Student and faculty coordinators

The department marked Engineer's Day by honouring Sir M. Visvesvaraya and the contribution of engineers to society. Students took part in activities that celebrated creativity and problem solving, and were encouraged to innovate for real-world needs.

SDG 4 · Quality Education

SDG 9 · Industry, Innovation and Infrastructure

Bug Busters

Date: 26 Sep 2026 **Venue:** Centre for Excellence, Biosignal Processing

Attendance: Capacity: 20 participants

Resource person: Student and faculty coordinators

Bug Busters, hosted at the Centre for Excellence in Biosignal Processing, was a hands-on challenge in which participants found and fixed faults in code and signal processing workflows. The event sharpened debugging skills and teamwork among students working in the biosignal domain.

SDG 4 · Quality Education

SDG 9 · Industry, Innovation and Infrastructure

Student Achievements

Student(s)	Class	Achievement	Organiser
Charu Nethra A	II	Silver	Sports Development Authority of Tamil Nadu
Charu Nethra A	II	2nd Prize	Anna University Sports Board
Induja K, Sabitha R	II	3rd prize	Government College of Technology, Coimbatore
Kishore P	II	Silver	Zen Karate School of India and Ksirs International School
Sudheshna V S	II	50m prone (individual) - Silver	Tamilnadu Shooting Association
Sudheshna V S	II	50m prone (team) - 3 gold	Tamilnadu Shooting Association
Sudheshna V S	II	3 position (individual) - 2nd prize	Tamilnadu Shooting Association
Sudheshna V S	II	10m (team) - Silver	Tamilnadu Shooting Association
Yutika Vinya S	II	Silver	Tamilnadu Athletic Association
Yutika Vinya S	II	Silver	Chennai District Athletic Association
Yutika Vinya S	II	Gold	Athletic Federation of India

Parameshvaran G	III	1st in CM Trophy Cricket	Tamilnadu Government
Amirthavarshini V	III	Participated in Voice (13 Jul 2026)	KPRIET
Sujitha B	III	Participated in Thal Sainik Camp Inter Group Competition (15 Jul 2026, 6 days)	KSR College of Technology
Sujitha B	III	Participated in Thal Sainik Camp Inter Group Competition (21 Jul 2026, 4 days)	KSR College of Technology

Placements

Roll No	Name of the Student	Company
23BM010	Dhakshatha M K	KONE India, Chennai
23BM015	Harikrishnaa J R	Demeter Systems Pvt. Ltd., Bangalore
23BM016	Harita Lakshmii J B	Winfomi Technologies, Coimbatore
23BM026	Meera S M	Winfomi Technologies, Coimbatore
23BM028	Mohamed Tawfeeq A	Umed Technologies, Coimbatore
23BM029	Mohammed Suhail J	Kalaiworks, Coimbatore
23BM030	Mohankumar	Marin Elixirs, Rameshwaram
23BM033	Neelamegam R	Umed Technologies, Coimbatore

23BM042	Rithanya B	Amazon, Bangalore
23BM050	Sangavi M P	Amazon, Coimbatore
23BM055	Smirithi Ayyasamy	Demeter Systems Pvt. Ltd., Bangalore
23BM056	Sowmiya Srinivasan	Amazon, Bangalore
23BM060	Sunilkumar	Marin Elixirs, Rameshwaram

Students Corner

MS. THARANESWARY R II Year

The Art of Surviving College Without Losing Yourself

College can feel like a completely new world. There are classes, assignments, exams, friendships, events, expectations, and countless opportunities. In the middle of all this, it can be surprisingly easy to forget about yourself. One of the most important we realise is that it's okay to take a break, spend time alone, or choose something simply because it makes us happy. There will always be someone who seems more successful, more confident, or more accomplished. Comparing yourself to others can make you feel like you're falling behind. But everyone has a different journey, and college isn't a competition. It's also important to accept that not every friendship will last forever. Some people may stay for years, while others may only be part of one chapter of your life. Both can be meaningful. Surviving college isn't just about getting through exams and assignments. It's about finding a balance between your responsibilities and your happiness. Take your studies seriously, but don't forget to make memories. Work hard but give yourself time to breathe. At the end of college, you shouldn't just have a good academic record. You should also recognize the person you have become. Because the real challenge isn't simply surviving college — it's growing through it without losing yourself.



BEYOND LOOP

Learn Beyond.

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