



Learn Beyond

**KPR Institute of  
Engineering and  
Technology**

(Autonomous, Affiliated to Anna University)

# BIOMEDICAL ENGINEERING

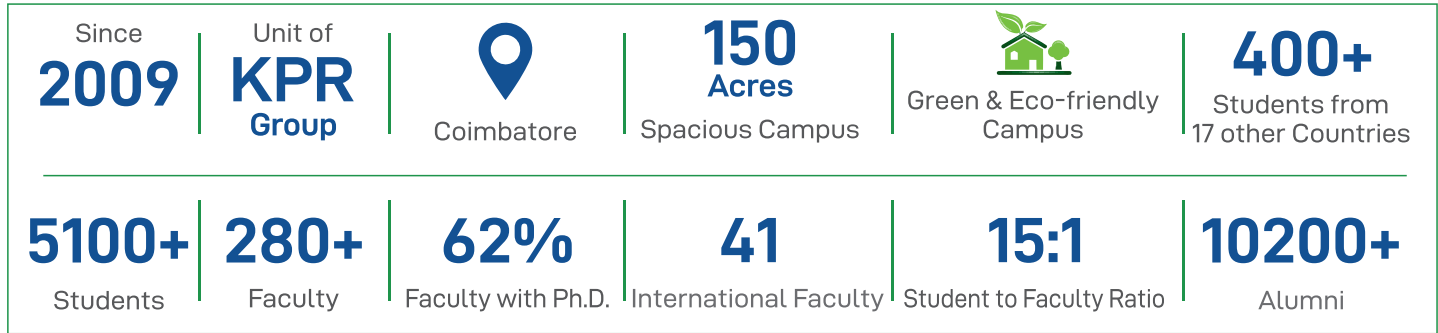
**We are the Engineers  
for Doctors...**



Counselling Code

**2764**

## Get to Know KPRIET



## About Biomedical Engineering



Healthcare and technology to revolutionize the medical field



Combining engineering with medical and biological sciences



Job opportunities predicted to grow by 7% by 2026 in this field



Approved Research Centre for Ph.D.

## Why B.E. Biomedical Engineering at KPRIET?



B.E./ B.Tech. Honors/ Honors with specialization/ Minor Degree



Alumni network providing support, mentorship and biomedical core career opportunities



Industry-ready curriculum and conducive learning environment



Networking opportunities and leadership programs with medical professionals



Partnerships with hospitals, healthcare industries, and research organizations



Special labs for Biosignal Processing, Biomechanics and Rehabilitation Engineering

# Career Opportunities

## Government Sectors

- ▶ Indian Council of Medical Research
- ▶ National Institute for Research in Tuberculosis
- ▶ Jawaharlal Institute of Postgraduate Medical Education & Research
- ▶ National Institute of Mental Health and Neurosciences
- ▶ National Brain Research Centre
- ▶ Managers / Biomedical Engineers @ various countries
- ▶ Government Hospitals and Biomedical Research Institutions across India

## Core Domains

- ▶ Bio Engineering
- ▶ Medical Device Development and Management
- ▶ Bio Mechanics
- ▶ Medical Image Processing
- ▶ Advanced Healthcare Systems
- ▶ Medical Regulatory Affairs
- ▶ Intelligent Systems for Medicine

## Higher Studies

- Career Advancement Cell offers
- ▶ Higher education career guidance
  - ▶ Comprehensive syllabus coverage of the entrance exams
  - ▶ Exam tips, tricks, and strategies
  - ▶ Mock tests and practice sessions

## Emotional Well-being

KPRIET aids students in overcoming health and emotional challenges to ensure effective learning and well-being.

## KPR IAS Academy

No. of successful candidates

19	04	10	19	15	20
IAS	IFS	IPS	IFoS	IRS	Others

13

Cultural Clubs  
Sangamam

14

Technical Clubs  
Ignitron

13

Sports Clubs  
Sportan

28 Professional Societies



Community Services



# Academic Laboratories

 Human Anatomy and Physiology


 Microbiology and Pathology

 Biomedical Sensors and Instrumentation

 Centre for Biomedical Equipment Testing & Calibration

 Diagnostic and Therapeutic Equipment

 Devices and Integrated Circuits

 Biomechanics and Rehabilitation

## Funds Received

**₹24+** Lakhs  
Funding

**₹26** Lakhs  
Seed Money

## Research

**232**  
Publications

**16**  
Patents

**10**  
Books/ Book Chapters

**7**  
h index

**23**  
i10

## Centres of Excellence & Special Laboratories

 Advanced Material Characterization

 Bio Signal Processing

 Energy Science and Engineering


 IoT and AI

 Machining and Material Testing

 Nano Science and Technology

 L & T Experience Engineering

 Robotics and Automation

 Drones and UAV

 Electric and Hybrid Vehicles

# ACTIVE LEARNING CENTRES



Centre for Biomedical Equipment  
Testing & Calibration



Bio Signal Processing



Human Anatomy and Physiology Lab



Diagnostic and Therapeutic Equipment Lab



Biomechanics and Rehabilitation Lab



Biomedical Sensors and  
Instrumentation Lab

## Value Added Courses

- ▶ MATLAB Programming
- ▶ LabVIEW Programming
- ▶ Android app development for BME
- ▶ Embedded System for Biomedical Engineers
- ▶ Biosignal Analysis using MATLAB

## Skill Courses Offered

- ▶ Medical Device Development
- ▶ Machine Learning for medical image processing
- ▶ Radiological Equipment
- ▶ Data Mining in healthcare
- ▶ Testing and calibration
- ▶ Medical regulatory affairs

## Honours / Minor Degree Verticals

- ▶ AI and Machine Learning
- ▶ Full Stack Development
- ▶ Cloud Computing and Data Processing Technologies
- ▶ Bioprocess Engineering
- ▶ Medical Device Development
- ▶ Construction Management
- ▶ Infrastructure Engineering
- ▶ Sensor Technology and IoT
- ▶ Electric and Hybrid Vehicles
- ▶ Embedded Systems
- ▶ Robotics and Automation



# Entrepreneurship Development

(2020 to 2026)

# 24

Startups from KPRIET

# ₹28.6 Lakh

Funded for Startups

## Competitive Exams

Training offered for

GATE | TANCET | TNPSC - AE | SSC - JE | CEETA - PG

## Industry Relations



# 100+

MoUs

KPRIET provides practical learning through

- ▶ Industrial visits
- ▶ In-plant training through live projects
- ▶ Guest lectures by industry experts
- ▶ Industry Knowledge Development Program
- ▶ Internship with stipend

KPRIET develops entrepreneurship through



Leadership  
summit



Business  
Conclave



Entrepreneurs'  
Talk



Mentoring  
Session

Students Pursuing / Completed Higher  
Studies around the world

# 20+

## International Collaborations

# 50+

Universities  
and Industries



Research



Higher Education



Tech Immersion



VCU



LTU



Kristianstad  
University  
Sweden

SUNWAY  
UNIVERSITY



UWS UNIVERSITY OF THE  
WEST of SCOTLAND



Fraunhofer  
IWS



國立中央大學  
National Central University

esaip  
La Salle  
ÉCOLE D'INGÉNIEURS

CENTRALE  
NANTES

