



Learn Beyond

**KPR Institute of
Engineering and
Technology**

(Autonomous, Affiliated to Anna University)

MECHATRONICS ENGINEERING

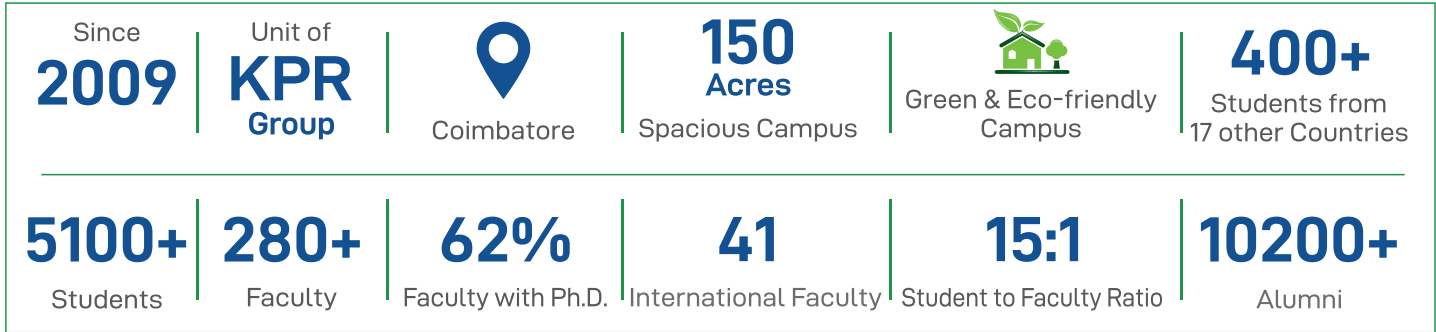
**Smart Innovations
in Robotics and Automation**



Counselling Code

2764

Get to Know KPRIET



About Mechatronics Engineering



Synergistic integration of precision mechanical systems, electrical systems, control systems and computers



Creates robust and smart systems

Why B.E. Mechatronics Engineering at KPRIET?



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



Modern infrastructure with well-equipped Centres of Excellence and Laboratories



MoUs with leading industries



Outcome based education with industry attachment programs



Encourage to participate in co-curricular and extra-curricular activities



Qualified and experienced faculty team

Career Opportunities

Government Sector

- ▶ Research and Development Laboratories
- ▶ Field Service Engineering
- ▶ Education and Research Institutions

PSU | Defence | ISRO
Indian Railways

Private Sector

- ▶ Mechatronics System Design Engineer
- ▶ Robotics Engineer
- ▶ Electronics Design Engineer
- ▶ Automation Industry
- ▶ Control System Engineer
- ▶ Automotive Industry
- ▶ Aerospace Industry
- ▶ Instrumentation Engineer
- ▶ Manufacturing Industry
- ▶ Maintenance Engineer
- ▶ IT Programmer

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



Industrial Sensing,
Control and
Automation



Smart Home and
Building Automation



Unmanned
Aerial Vehicle



Modelling and
Analysis of
Mechatronics Systems



Manufacturing and
Automation Practices



Electrical Drives
and Control



Sensors and
Signal Processing



CNC and
Metrology



Microcontroller and
Embedded Systems



Electronic Device
and Digital Circuits

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



Bosch - Automotive
Joint Certification
Program



3D Printing



AR/VR

Minor Degree Verticals

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

ACTIVE LEARNING CENTRES



Robotics and Automation
(Centre of Excellence)



Hybrid and Electric Vehicle
(Centre of Excellence)



Hybrid and Electric Vehicle –
Conventional Automobiles



Drones and UAV



Industrial Sensing, Control and Automation

Core Domains and Honors with Specialization

Robotics

- ▶ Robots and Systems in Smart Manufacturing
- ▶ Robot Operating Systems
- ▶ Agricultural Robotics
- ▶ Micro-Robotics
- ▶ Collaborative Robotics
- ▶ Underwater Robotics
- ▶ Medical Robotics
- ▶ Humanoid Robotics

Design and Manufacturing

- ▶ Robot and Machine Elements Design
- ▶ Design for X
- ▶ CNC Machine Tools and Programming
- ▶ Computer Integrated Systems
- ▶ Advanced Manufacturing Systems
- ▶ Mechatronic Systems in Additive Manufacturing
- ▶ Electronics Manufacturing Technology
- ▶ Computer Aided Inspection and Testing

Automotive Engineering and Technology

- ▶ Fundamentals of Automotive Engineering and Technology
- ▶ Automotive Electrical, Electronics and Control Systems
- ▶ Automotive Thermal Management Systems
- ▶ Vehicle Body Dynamics
- ▶ Autonomous Vehicle Systems
- ▶ Design Principles of Hybrid and Electric Vehicles
- ▶ Energy Storage and Management for Electric Vehicles
- ▶ Automotive Fault Diagnostics

Intelligent Systems

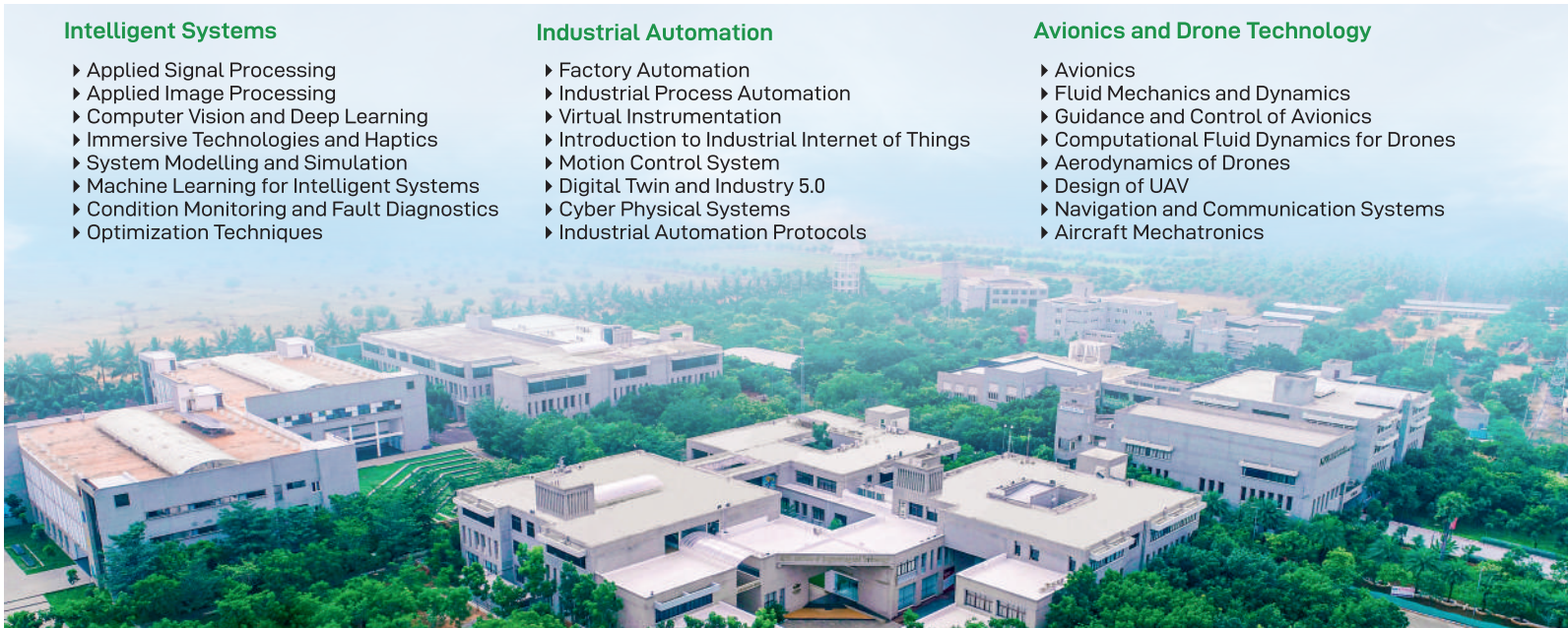
- ▶ Applied Signal Processing
- ▶ Applied Image Processing
- ▶ Computer Vision and Deep Learning
- ▶ Immersive Technologies and Haptics
- ▶ System Modelling and Simulation
- ▶ Machine Learning for Intelligent Systems
- ▶ Condition Monitoring and Fault Diagnostics
- ▶ Optimization Techniques

Industrial Automation

- ▶ Factory Automation
- ▶ Industrial Process Automation
- ▶ Virtual Instrumentation
- ▶ Introduction to Industrial Internet of Things
- ▶ Motion Control System
- ▶ Digital Twin and Industry 5.0
- ▶ Cyber Physical Systems
- ▶ Industrial Automation Protocols

Avionics and Drone Technology

- ▶ Avionics
- ▶ Fluid Mechanics and Dynamics
- ▶ Guidance and Control of Avionics
- ▶ Computational Fluid Dynamics for Drones
- ▶ Aerodynamics of Drones
- ▶ Design of UAV
- ▶ Navigation and Communication Systems
- ▶ Aircraft Mechatronics



Entrepreneurship Development

(2020 to 2026)

24

Startups from KPRIET

₹28.6 Lakh

Funded for Startups

Competitive Exams

Training offered for

GATE | CAT | TANCET | TNPSC | SSC

Industry Relations

100+

MoUs

KPRIET develops entrepreneurship through



Leadership
summit



Business
Conclave



Entrepreneurs'
Talk



Mentoring
Session

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

International Collaborations

50+

Universities
and Industries



Research



Higher Education



Tech Immersion



Placement Record

Endless Opportunities, Endless Achievements



₹ 10LPA

Highest Salary



₹ 5.22LPA

Average Salary



₹ 30K PM

Highest Internship Stipend



27+

Companies Recruiting



71+

Offers



81.3%

Placement Record

Top Recruiters



Mechatronics education will play a major role in the upcoming trends in the 4th generation of smart industries, future machinery, and robots. The excellent curriculum of Mechatronics Engineering and the talented & experienced faculty of KPRIET will drive the students to their best to face the fast-moving world.

Mr. Arun Damodaran

Founder & CEO, AAtEK GmbH, Germany.

THE KPR GROUP



Avinashi Road, Coimbatore - 641 407, India
0422 2635600 | +91 75488 88444 | +91 75488 88555

admission@kpriet.ac.in

kpriet.edu.in /KPRIETonline