



Department of ROBOTICS & AUTOMATION ENGINEERING



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ABOUT THE DEPARTMENT

Robotics have captured the wildest imagination of both the scientific communities and the general public. Robotics, Artificial Intelligence and Automation Engineering amplify human potential, increase productivity and are moving from simple reasoning towards human-like cognitive abilities. Current AI technologies are used in a set area of applications, ranging from healthcare, manufacturing, transport, energy, to financial services, banking, advertising, management consulting and government agencies. The global AI market is estimated to exceed USD 3 trillion by 2024. This programme will offer graduates with an excellent platform to enable enter into a wide range of challenging sectors such as Automotive Industries, Finance, Engineering, IT, Manufacturing and; Production, Transport and; Logistics, Defence, Healthcare, Entertainment and Science. This will provide opportunities to students to work with the industry on some modules. This will hone their theoretical foundation and enrich with enhanced real-life experience.

COURSE HIGHLIGHTS

- » The course offers application based advanced version of core engineering courses (Computer Science, Instrumentation, Mechanical, Electrical & Electronics Engineering), ensuring more exposure in the interdisciplinary field with enhanced learning experience for industry ready professionals.
- » Course content designed and delivered by domain experts from Industry and learned Professors.
- » Curriculum compliments latest Industry 4.0 requirements. Innovative project-based learning (with autonomous mobile robot, humanoid, industrial robotic manipulator) on state of the art based advanced Robotics & AI laboratory.
- » Blended mode of learning and flexible learning hours (includes **Saturday Sunday**) to facilitate working professionals.
- » Flexibility of choosing project matching learner's domain of expertise.

COURSES OFFERED

- ☑ 4 Years' B.Tech Program
- ☑ 2 Years' M.Tech Program [*ADMISSION OPEN for 22-23*]
- ☑ Ph.D - Full Time / Part Time

FACULTY PROFILE



Dr. Sanku Bose
Dean, SOE



Dr. Manika Saha
Professor & HoD



Dr. Paramanand Nandihal
Assistant Professor



OUR INFRASTRUCTURE

- Simulation, Modelling and Analysis Lab (SMA Lab)
- Robotics Process Automation Lab
- Robot vision and Image processing lab
- Virtual Instrumentation Lab
- Artificial Intelligence/ Machine Learning Lab
- Advanced Robotics Lab:
 - » Autonomous Mobile Robot (AMR)
 - » Humanoid
 - » Industrial Robotic Manipulator

CAREER PROSPECTS

This course is the gateway to enter in automation Industry as industry ready professionals as well as open the scope of advanced studies and research in the field of Robotics.

- Machine Learning and Its Application in Robotics
- AI and Its application in Robotics
- Robot Vision and Image Processing
- Humanoids
- Wireless Network
- Manipulator, estimation and Control
- Advanced Programming with (C/C++, Python, Java), Rest API+Node JS, Microservices and Predictive Analytics along with ROS