NIRMA UNIVERSITY

INSTITUTE OF TECHNOLOGY

NAAC ACCREDITED 'A+' GRADE

M.Tech in Electronics and Instrumentation Engineering (Robotics and AI)

Programme offered by the Electronics and Instrumentation Engineering Department

Program Overview

An Interdisciplinary Program

It integrates the knowledge domains of electronics, instrumentation, control, and the automation of systems that govern modern life.

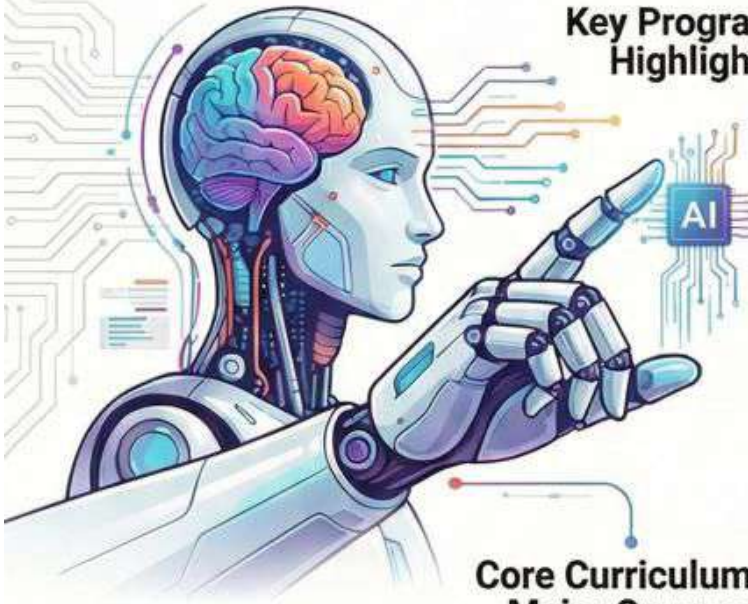
2-Year / 4-Semester Program

A full-time postgraduate course with admissions open for the opcoming academic year.

18 Seats Available

The program has an approved intake capacity of 18 students.

Key Program Highlights



Interdisciplinary Approach

Blends multiple engineering fields for a holistic learning experience.

Hands-on & Practical Learning

Emphasis on applying theoretical knowledge to real-world problems.

Industry & Research Connect

Strong ties with industry leaders and research institutions.

State-of-the-Art Infrastructure

Access to modern labs and advanced equipment.

Global Exposure & Research Opportunities

Opportunities to engage with the international academic and research community.

Core Curriculum & Major Courses

Foundational & AI Courses

Robot Manipulators | AI | Optimization | Machine & Deep Learning

Control & Automation

Control Systems | Nonlinear & Digital Control | PLC

Electronics & Systems

SBCs | Sensors & Actuators | Digital image Processing | WSN & IoT

Advanced Robotics Specializations

Mobile Robotics | Aerial Robotics | Underwater Robotics | Soft Robotics

Facilities & Career Paths

Specialised Laboratories

Robot Simulation | SBC Applications | Mobile Robotics | AI & ML | Advanced Control Systems | Software Lab | Underwater Robotics | Aerial Robotics | Soft Robotics

Professional Student Bodies

Student organizations including Robocon

Future Career Opportunities

Robotic System Engineer | AI Researcher | Autonomous Systems Developer | Industrial Automation Engineer | Embedded System Engineer | IoT & AI Consultant

Eligibility & How to Apply

Eligible Engineering Branches

BE/BTech in Robotics, Electronics & Instrumentation, Mechanical, Instrumentation & Control, Electronics & Communication, Computer Science, Mechatronics, Electrical or equivalent.

Minimum 50% Marks

Candidates must have secured at least 50% in their qualifying degree.

Contact Information

For Admissions & Inquiries

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