



Since 2007, Making IT Experts & Products

Course: Robotics

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of over 250 industry experts. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. We offer 100% placement support through JobsNEAR.in

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India



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* Robotics Training â€" Syllabus

Module 1: Introduction to Robotics

- * What is Robotics? Scope & Applications
- * History and Evolution of Robotics
- * Types of Robots (Industrial, Service, Autonomous, Humanoid, etc.)
- * Future Trends in Robotics & Al

Module 2: Basics of Electronics & Hardware

- * Introduction to Sensors & Actuators
- * Motors (DC, Servo, Stepper)
- * Power Supply & Circuit Design Basics
- * Microcontrollers (Arduino, Raspberry Pi, ESP32 overview)

Module 3: Programming for Robotics

- * Basics of C, C++ & Python for Robotics
- Writing control programs for motors and sensors
- * Data acquisition and signal processing
- * Real-time debugging and testing

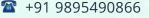
Module 4: Embedded Systems & Microcontrollers

- * Arduino IDE & Hands-on Projects
- * Raspberry Pi: Linux setup, GPIO programming
- * Communication Protocols (UART, I2C, SPI, Bluetooth, Wi-Fi)
- * Building simple automation projects

Module 5: Robotics Design & Mechanical Concepts

* Introduction to CAD (SolidWorks/AutoCAD basics)

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- * Kinematics & Dynamics of Robots
- Chassis Design & Fabrication
- * Assembling Robotic Components Module 6: Artificial Intelligence & IoT in Robotics
- * Basics of AI & Machine Learning for Robotics
- * Computer Vision (OpenCV introduction)
- Speech & Gesture Recognition in Robotics
- * IoT-enabled Robots (remote monitoring & control)

Module 7: Advanced Robotics Applications

- * Line Following Robot
- * Obstacle Avoidance Robot
- * Pick & Place Robotic Arm
- **Drone & Autonomous Vehicle Basics**
- * Human-Robot Interaction Concepts

Module 8: Industry Projects & Case Studies

- * Real-world robotics project design
- * Hands-on capstone projects (IoT Robot, Robotic Arm, Al-based Robot)
- * Industry case studies (manufacturing, healthcare, defense, automation)

Module 9: Career Development & Placement Support

- * Resume Building for Robotics Careers
- * Interview Preparation (Technical + HR)
- * Placement Assistance & Career Guidance

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* Freelance & Startup Opportunities in Robotics

Module 10: Certification & Final Assessment

- * Final Project Presentation & Evaluation
- * Certification of Completion (Industry Recognized)
- * Pathways to Higher Studies & International Opportunities

(Click on Course for more details)

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- Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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