

Internship 2:

Name of the Internship: Robotics

Description:

The **60-hour Robotics Internship with Hands-On Training** is a practical, skill-focused programme designed to provide learners with real-time experience in robotics and automation. The internship emphasizes **learning by doing**, enabling participants to understand both the theoretical foundations and practical implementation of robotic systems.

Participants receive hands-on training in **robotic hardware components**, including sensors, actuators, motors, controllers, and basic electronics. They learn to assemble robotic models, program microcontrollers, and integrate hardware with software to perform automated tasks. The programme also introduces concepts such as **robot motion, control systems, and basic AI-enabled robotics applications**.

Through **guided lab sessions, live demonstrations, and mini-projects**, learners gain experience in troubleshooting, teamwork, and real-world problem solving. By the end of the 60-hour internship, participants will have built and tested working robotic systems, gained industry-relevant practical exposure, and developed essential technical skills for further studies or entry-level roles in robotics and related fields.

Duration: 60 hours

Key learning outcomes:

- Understand core concepts of **robotics and automation systems**
- Gain hands-on experience with **robotic components** such as sensors, actuators, motors, and controllers
- Develop skills in **robot assembly, wiring, and hardware integration**
- Learn to **program and control robots** using microcontrollers
- Apply basic **electronics and embedded systems** concepts in real projects
- Build and test **working robotic models and mini-projects**
- Enhance **problem-solving, logical thinking, and troubleshooting skills**
- Gain exposure to **real-world applications of robotics** across industries
- Improve **teamwork, communication, and project execution skills**
- Develop practical experience that supports **career readiness** in robotics, automation, and related domains

Eligibility:2025-26, Higher Secondary Level

Number of Seats Available: 100

Fee Details:2000

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