

Workshop

Two-Day Workshop on Robotics & IoT – Summary

A two-day workshop on **Robotics and Internet of Things (IoT)** was conducted to provide participants with hands-on exposure to emerging technologies shaping the future of automation and smart systems. The workshop aimed to bridge the gap between theoretical knowledge and practical implementation.

Day 1:

The first day focused on foundational concepts of robotics and IoT. Participants were introduced to basic components such as microcontrollers, sensors, actuators, and communication modules. Sessions included demonstrations of robotic systems and discussions on real-world applications like home automation, smart cities, and industrial automation. Attendees also learned about programming basics and hardware interfacing.

Day 2:

The second day emphasized hands-on learning and project development. Participants worked in groups to build simple robotic prototypes and IoT-based projects, such as obstacle-avoiding robots and sensor-based monitoring systems. They gained practical experience in coding, circuit assembly, and device connectivity. The workshop concluded with project presentations, feedback sessions, and discussions on career opportunities in robotics and IoT.

Event Outcomes

1. **Enhanced Technical Knowledge** – Participants gained a clear understanding of basic concepts in robotics and IoT technologies.
2. **Hands-on Learning Experience** – Practical exposure through building simple robotic and IoT-based projects.
3. **Improved Programming Skills** – Learned basics of coding for microcontrollers and device control.
4. **Innovation and Creativity** – Encouraged participants to think creatively while designing projects.

