





HOME AUTOMATION IOT

COURSE FEE RS: 19,200/-



Scan For Registration

START COURSE FROM 20-JUL 2024 (DURATION 24HR)

OBJECTIVE

- Understand the fundamentals of Home Automation and IoT.
- Gain knowledge of popular IoT communication protocols.
- Learn about sensors and their integration for home automation.
- Explore home automation platforms and their integration with voice assistants.
- Develop an understanding networking and security considerations for smart homes.

LEARNING OUTCOMES

By the end of this course, participants will be able to:

- Understand the principles and concepts 10. Home Automation Platforms and Systems: of Home Automation and IoT.
- ·Apply knowledge of IoT communication protocols to connect and control devices in a smart home.
- Implement sensors and actuators for automating and controlling various devices and systems.
- ·Demonstrate proficiency in utilizing automation platforms integrating voice assistants for enhanced smart home functionality.

COURSE CONTENT:

- 1. Introduction to Home Automation and IoT:
- 2. Overview of home automation and its benefits.
- 3. Introduction to IoT technologies and their applications in smart homes.
- 4. IoT Communication Protocols:
- 5. Understanding popular IoT communication protocols such as MQTT, Zigbee, and Z-Wave.
- 6. Exploring the role of Wi-Fi and Bluetooth in home automation.
- 7. Sensors and Actuators for Home Automation:
- 8. Introduction to various sensors used in smart home systems.
- 9. Controlling devices and appliances using actuators for automation.
- 11. Reviewing popular home automation platforms like SmartThings and Home Assistant.
- 12. Integration of voice assistants like Amazon Alexa and Google Assistant.
- 13. IoT Networking and Security for Smart Homes:
- 14. Setting up a reliable and secure IoT network within a smart home.
- and 15. Addressing security considerations and best practices for protecting smart homes.