

Robotics - 60 Hours

Students will learn about the different types of robots and their applications in various industries.

Robot Components and Functions: Students will explore the different components of robots and their functions, including sensors and actuators.

**Robot Design and Construction:
Students will gain hands-on experience in designing and building robots using kits and materials.**

**Robot Programming Basics:
Students will learn programming concepts and languages such as Arduino or Raspberry Pi to program robots.**

**Sensors and Actuators:
Students will understand how sensors and actuators enable robots to interact with their environment.**

**Robotics in Manufacturing and Industry:
Students will explore the use of robots in manufacturing processes and industrial automation.**

**Robotics in Space Exploration:
Students will learn about the role of robotics in space exploration and the challenges faced by robots in space.**

**Robotics in Healthcare and Assistive Technology:
Students will discover how robots are used in healthcare settings and assistive technology applications.**

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