

UNIMY offers the **Robo-Innovators Bootcamp**, a 3-Day hands-on program where SPM leavers will learn to design, build, and program their own Al-powered robots. Using the Micro:bit platform, this bootcamp bridges the gap between software and the physical world.

WHO SHOULD JOIN?

SPM Leavers, Aspiring Engineers & Programmers, Tech Enthusiasts (16-21), Students with a strong interest in STEAM - Participants keep their robotics kit.

CERTIFICATION

Participants will receive a UNIMY Certificate of Completion

KEY TAKEAWAYS

- Build & Program Robots: Gain hands-on experience in electronics, coding, and robotics.
- Hardware / Software Integration:
 Understand how code controls physical hardware.
- Project-Based Learning: Develop a tangible project for your personal portfolio.
- Al in the Real World: See how Al and sensors work together to make decisions.
- Career Inspiration: Explore exciting career paths in engineering, mechatronics, and AI.

PROGRAM SCHEDULE

DAY 1: Foundations of Robotics

- ·Intro to Robotics, AI, and Mechatronics.
- · Understanding Your Kit: Intro to the Micro:bit platform.
- · Basic Coding for Hardware: Making LEDs blink and motors run.
- · Understanding Sensors: How robots "see" and "feel".
- · Hands-on Lab: Assembling your robot chassis and core components.

DAY 2: Intermediate Coding & Project Build

- ·Intermediate Coding: Loops, variables, and functions.
- · Programming for Control: Making your robot move and turn.
- ·Integrating Sensors: Programming your robot to avoid obstacles.
- · Hands-on Lab: Building and testing a line-following robot.

DAY 3: Project Showcase & Next Steps

- ·Intro to AI for Robotics: Simple decision-making.
- · Advanced Challenge: "Robo-Soccer" or "Maze Solver".
- ·Capstone: Teams compete and present their robot's capabilities.
- · Reflection and Feedback.
- ·Closing Ceremony and Certificate Presentation..

Include Micro:Bit Smart Cutebot (RM500.00)











