

STEM Applied Learning Programme

Lesson Outline

STEM Theme	Robotics
Module	1 (Robotic Arm)
Total Hours	11 h 40 min

No.	Topic
1	Introduction: STEM careers and the importance of robotics
2	Introduction: Basic electronic circuits
3	Embedded electronics: Arduino microcontrollers (blink)
4	Embedded electronics: Switches and light dependent resistor
5	Embedded electronics: Servo motor
6	Embedded electronics: Display panel
7	Embedded electronics: Music player
8	Embedded electronics: Robotic gripper (part 1)
9	Embedded electronics: Robotic gripper (part 2)
10	Syllabus recap

