STEM Applied Learning Programme

Lesson Outline

STEM Theme	Embedded Electronics
Module	3 (mBot Smart Car)
Total Hours	11 h 40 min

No.	Topic
1	Introduction: STEM careers
2	mBot assembly and competition selection
3	Microcontrollers and mBot programming (LED and light sensor)
4	Ultrasonic sensor and buzzer
5	Line sensor and computational thinking
6	Serial display/LCD panel
7	Prototyping and ideation (part 1)
8	Prototyping and ideation (part 2)
9	Competition
10	Syllabus recap