

## STEM Applied Learning Programme

### Lesson Outline

<b>STEM Theme</b>	Embedded Electronics
<b>Module</b>	1 (Arduino Electronics)
<b>Total Hours</b>	11 h 40 min

No.	Topic
1	Introduction: STEM careers
2	Introduction: Basic electronic circuits
3	Embedded electronics: Arduino microcontrollers (blink)
4	Input and output: Piezo buzzer & LED
5	Input and output: temperature sensor & piezo buzzer
6	Analogue input: Automatic light (light dependent sensor)
7	Input and output: PIR sensor and servo motor (part 1)
8	Input and output: PIR sensor and servo motor (part 2)
9	Liquid Crystal Display (LCD)
10	Syllabus recap

