



## List of Activities:

|                                      |    |                                                                                        |
|--------------------------------------|----|----------------------------------------------------------------------------------------|
| <b>Introduction</b>                  | 1  | Introduction to Physical Computing                                                     |
|                                      | 2  | Writing your first program : Blink a light                                             |
|                                      | 3  | Using motors and sensors in Cretile                                                    |
| <b>Programming</b>                   | 4  | Programming: if , if else , nested if , if else ladder                                 |
|                                      | 5  | Loops and Variables<br>Digital Dimmer                                                  |
|                                      | 6  | Using Functions                                                                        |
|                                      | 7  | Using Logic conditions<br>AND , OR and NOT                                             |
| <b>Security &amp; Sustainability</b> | 8  | Saving Energy and Resource<br>Energy Saver Lamp<br>Soil Dry Alarm<br>Water Level Alarm |
|                                      | 9  | Security<br>Museum artifact theft alarm                                                |
| <b>Robotics</b>                      | 10 | Pre-programmed path robot                                                              |
|                                      | 11 | Drawing Bot                                                                            |
|                                      | 12 | Cliff Avoiding Robot                                                                   |
|                                      | 13 | Light Seeking Robot                                                                    |
|                                      | 14 | Remote Controlled Robot ( IoT )                                                        |
| <b>Automation</b>                    | 15 | generating waveforms using programming                                                 |
|                                      | 16 | Beep Player                                                                            |
|                                      | 17 | Automatic Door                                                                         |
|                                      | 18 | Timer Alarm                                                                            |
|                                      | 19 | Weighing machine and overweight Alarm                                                  |

## NEO ROBOS BRAIN BOX



Combination of Education & Fun

TM

**ROBOTICS CENTRE**

## The Kit Contains:

|                                  |                              |
|----------------------------------|------------------------------|
| Rechargeable Battery + USB Cable | Moisture Sensor              |
| Battery Power                    | NetLogic ( with WiFi & BLE ) |
| Buzzer                           | Obstacle sensor - 2          |
| High speed motor                 | Fan Blade                    |
| Light                            | Motor T2 - 2                 |
| Light Sensor                     |                              |
| Moisture Sensor                  | Construction Kit (54 parts)  |

## NEO ROBOS BRAIN BOX

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