

Teaching Programming Using Robotics

Day 1	Day 2	Day 3	Day 4	Day 5
<p>Welcome and registration.</p> <p>Intro to Robotics and the Lego WeDo and EV3:</p> <ul style="list-style-type: none"> • Basics of construction(Wheels, Treads & Skids, Gears & Pulleys) • Intro to Programming 	<p>Intro to Sensor Programming:</p> <ul style="list-style-type: none"> • Using Sensors • Ultrasonic Sensors • Touch Sensors • Rotation Sensors • Sound Sensors • Light Sensors) 	<p>Advanced construction:</p> <ul style="list-style-type: none"> • claws • grabbers • gear boxes 	<p>Programming Using other languages :</p> <ul style="list-style-type: none"> • Java (leJOS) • Python • Robolab • RobotC • Enchanting • AppInventor 	<p>Programming Activities and Extra Hardware:</p> <ul style="list-style-type: none"> • EV3 signals and communications • creating your own sensors • power with photovoltaic cells • Connecting more than one EV3