

Introduction to Coding with Scratch

\$520 / 8 x 2-hr sessions

- For ages 8+.
- Introduction to coding using Scratch, block-based programming.
- Create games, animations & stories.



Python Coding - Level 1

\$520 / 8 x 2-hr sessions

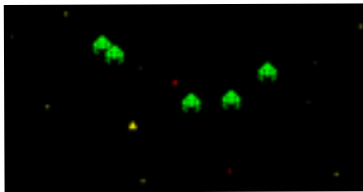
- For ages 10+.
- Introduction to programming & Python (syntax, print function, users input, decision making, loop structures & function).



Python Coding - Level 2

\$520 / 8 x 2-hr sessions

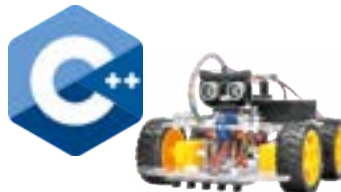
- For ages 10+ who have completed Python 1.
- Learn print function, decision commands, flowcharts, create own functions, use list in Python & for-loop method.



Python Coding - Level 3 Games

\$520 / 8 x 2-hr sessions

- For ages 10+ who have completed Level 2.
- Guided step-by-step in making games.
- Learn to apply commands, add sound & background image.
- Publish & share your game!



Arduino Robotics & C++

\$520 / 8 x 2-hr sessions

- For ages 11-16.
- Introduction to Arduino micro-controller, C++ programming & basic electronic components.
- Program Arduino using Scratch, with electronic sensors & actuators (motors, buzzers & displays).



Artificial Intelligence (A.I.)

\$520 / 8 x 2-hr sessions

- For ages 10+ with coding experience.
- Introduction to Artificial Intelligence, including applications in daily life.
- Understand Machine Learning & Deep Learning.
- Program A.I. applications with image, text or sound recognition.

Mon - Sat

10am -12noon*

1:30pm - 3:30pm

3:30pm - 5:30pm

*only non-holiday camp periods

Sun

3pm - 5pm

WhatsApp:

+65 8881 5195

www.robotics.com.sg

**#03-41/43,
Coronation Shopping Plaza,
587 Bukit Timah Road,
Singapore 269707**



Level 1 Beginner
\$460 / 8 x 2-hr sessions

- For ages 6+, preferably with experience in our Lego Engineering courses.
- Develop building skills & an understanding of simple coding concepts.
- Lego WeDo/NXT/Funbots.



Level 2 / 2A Beginner
\$460/ 8 x 2-hr sessions

- For ages 8+, or those who have completed Level 1.
- Build & program intermediate robotics models using Lego NXT with different sensors & perform different tasks.



Level 3 / 3A
Intermediate to Advance
\$460 / 8 x 2-hr sessions

- For ages 9 to 10 who have completed Level 2.
- Build more complicated robots & program them to respond to multiple sensors, using Lego NXT blocks.



Level 4 Young Inventor
\$460 / 8 x 2-hr sessions

- For ages 9 to 10 who have completed Level 3, have knowledge of key NXT robotics parts, can program NXT-G independently & can attend on a regular basis.
- Design & create own NXT robot, plus presentation of the project.



Level 5 SPIKE Beginner
\$520 / 8 x 2-hr sessions

- For ages 9+, or those who have completed Level 4.
- Build & program simple robots, using Lego SPIKE Prime app.
- Apply knowledge of force, color & ultrasonic sensors.



Level 6 SPIKE Intermediate
\$520 / 8 x 2-hr sessions

- For those who have completed Level 5.
- Build & program robots with multiple sensors & more complex mechanical designs, using Lego SPIKE Prime.
- Application of Gyro Sensor
- Program with advanced EV3 commands.



Level 7 SPIKE Advance
\$520 / 8 x 2-hr sessions

- Design, build & program own robot, using Lego SPIKE Prime basic & expansion sets.
- Meet criteria in terms of size & number of sensors used.
- Apply engineering concepts in robot design.
- Present project in a video recording.



Level 8 EV3 Basics
\$520 / 8 x 2-hr sessions

- For ages 11+, or those who have completed Level 7.
- Build robots using Lego EV3 robotics.
- Program movements with EV3 sensors.
- A theory & practical assessment will be conducted to assess learning progress & suitability to proceed to the next level.

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3:30pm - 5:30pm
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Sun
3pm - 5pm

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Level 9A / 9B
EV3 Intermediate

\$520 / 8 x 2-hr sessions

- For ages 11+ who have completed Level 8 & keen to explore advance EV3 models.
- Build EV3 robots with multiple sensors & more complex mechanical designs.
- Program with advance EV3 commands, line following & obstacle avoidance robots.



Level 10
Young Inventor II

\$520 / 8 x 2-hr sessions

- For ages 12+ who are keen to develop programming skills & able to work independently.
- Design, build & program own robot to perform specific tasks.
- Prepare a presentation of the project.



Level 11
EV3 Advance/Robot Inventor

\$520 / 8 x 2-hr sessions

- For ages 12+.
- Learn mOwayWorld programming for mOway mini-robots, Scratch programming for mOway/Lego NXT robots, RobotC for Lego NXT & EV3, Arduino Robotics, C++ & Raspberry Pi programming.



Micro:Bit Robotics
\$520 / 8 x 2-hr sessions

- For ages 9+.
- Introduction to Micro:Bit & coding.
- Program Micro:Bit using block method.
- Build & program a Micro:Bit robot (GiggleBot) for autonomous & remote-controlled movements.



Robotics Competition Preparation
\$520 / 8 x 2-hr sessions + competition registration fees*

- First Lego League (FLL), National Robotics Competition (NRC), IDE Series & RIC *registration fees vary.
- Strictly by invitation.
- Invitees will represent Robotics Connection in a team.

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10am -12noon*
1:30pm - 3:30pm
3:30pm - 5:30pm

*only non-holiday camp periods

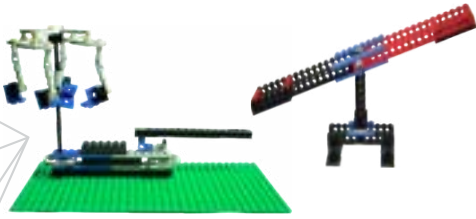
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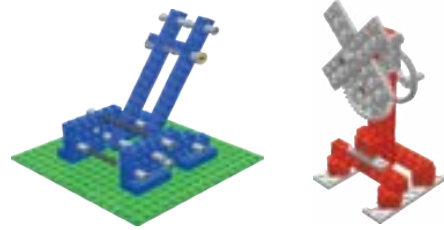




Apprentice Engineer

\$60 / 1 x 1-hr trial
\$220 / 4 x 1-hr weekday sessions
 (6 -wk validity)
\$400 / 8 x 1-hr sessions
 (12-wk validity)

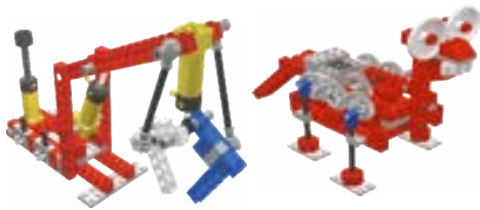
- For ages 5-6.
- Introduction to construction & basic mechanisms.
- Develop fine motor skills & visual-spatial abilities, while exploring various concepts, such as cause & effect, gears, pulleys & more.



Junior Engineer - Levels 1 & 2

\$55 / 1 x 1-hr trial session
\$200 / 4 x 1-hr weekday sessions
 (6-wk validity)
\$360 / 8 x 1-hr sessions
 (12-wk validity)

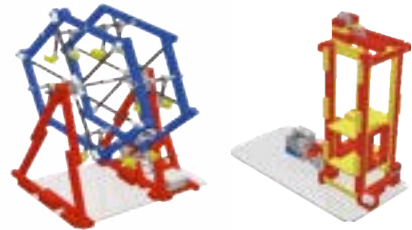
- For ages 6-8, *or those who have completed Apprentice Engineer.
- Introduction to a variety of mechanical designs & concepts.
- Build different kinds of Lego machines.
- Explore & develop an understanding of various science concepts, such as friction, gravity, gears & levers, as well as their real-life applications.



Senior Engineer - Levels 1 and 2

\$55 / 1 x 1-hr trial session
\$200 / 4 x 1-hr weekday sessions
 (6-wk validity)
\$360 / 8 x 1-hr sessions
 (12-wk validity)

- For ages 8+, *or those who have completed Junior Engineer.
- Build more complex Lego machines.
- Learn more in-depth about various physics and engineering concepts, including gear ratios, lever classes, stability, among others.



Master Engineer

\$55 / 1 x 1-hr trial session
\$200 / 4 x 1-hr weekday sessions
 (6-wk validity)
\$360 / 8 x 1-hr sessions
 (12-wk validity)

- For ages 9+, *or those who have completed Senior Engineer.
- Build Lego machines that are larger in scale & more complex in terms of mechanical design.
- Apply all previous building skills & science concepts acquired to complete and problem-solve the projects .

Mon/Tue/Wed/Fri

1pm - 2pm
 2pm - 3pm
 3pm - 4pm
 4pm - 5pm
Thur
 3pm - 4pm
 4pm - 5pm

Sat

10am - 11am
 11am - 12pm
 1pm - 2pm
 2pm - 3pm
 3pm - 4pm
 4pm - 5pm

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