

mBot Robotics

Intended Audience

Kids who have completed the [Codey Rocky](#) Coding Course

After this course you should be able to:

- Controlling mBot with mBlock app
- Programming mBot with mBlock and mBlocky / Scratch programming language
- Controlling mBot with built-in programs
- Using mBot extra sensors

Course Material

mBot Robot (valued at R2500) is included.

You need to have a Android Tablet or iPad with Bluetooth

Further Training / Support

- Advanced mBot with Mblocky (Scratch) Programming Course
- Use Add-Ons with mBot
- [Scratch](#) for Graphic games

Course Contents

Beginning

- Introduction
- Building mBot
- Controlling mBot with the remote control
- Controlling mBot with the MakeBlock app
- mBot Light Sensor
- Object Avoidance
- Line Following
- mBlock App
- UltraSonic Sensor

- Line Follower
- Play Music
- Move in a Circle
- Move in a Square
- Six Legs Add-On-Pack
- The LED's

mBlock games

- The sequencing game
- The speed game
- The repeat game
- The stop game
- The wait game
- The judgment game
- The conditions game
- The comparing game
- The light game
- The value game
- Creating a program on your own

Programming using the mBlockly (Scratch) app

- The begin section. Program: make mBot move
- The move section. Program: move and turn
- The display section. Program: sing and shine
- The event section. Program: move the tablet
- The detect section. Program: watch out!
- The math section. Program: help, thief!
- The control section. Program: caution, wall!

mBot extra construction sets, extra sensors and some game ideas

- Game ideas and extra construction sets
- Extra sensors and mBlock program for computers

Duration and pricing

In Pricing [Group A](#)

Certificate

Read about our [certificates](#)

Bookings

Please book by [clicking here](#)

Full-time:

We are normally scheduling the full-time kids courses during school holidays. If you are interested, please send us an email with your school holiday dates, so that we can try and get a group together as there are different holiday dates for private and public schools. Click [here](#) to send the email.

Part-Time:

We are trying to get groups together for the part-time kids courses between 4 and 6 in the evenings or Saturdays. If you are interested, please send us an email with your possible times, so that we can try and get a group together as we need to have a minimum number to be able to start a course. Click [here](#) to send the email.

Questions

Please [email us](#)

Schedule

On the calendar below. If your browser doesn't display the calendar below, please click on [this link](#) or try using [Google Chrome](#), alternatively please enquire via our [Contact Us](#) page.