



MacICT presents

ROBOTICS

Robotics Boot Camps: suitable for Kindergarten to Year 3

At MacICT we believe that learning how to use technology is not enough; the heart of 21st century learning is about becoming a proficient and independent lifelong learner. Our activities promote this through an inquiry-based approach to learning where students are encouraged to collaborate and be creative in solving open-ended challenges.

Robotics provides a highly engaging medium for creativity, critical thinking, collaboration and communication - four essential skills for learning and ICT within a curriculum context. Using the *LEGO® WeDo* robotics kit (or the *Bee-Bot/Pro-Bot*) is an excellent way to encourage the acquisition and consolidation of multiliteracies in younger students who are excited and actively engaged whilst exploring the capability of these simple robots in various problem-solving contexts.

We use the *LEGO® WeDo 2.0* robotics kit for this workshop, although the *Blue-Bot* can be used on request. During the day students will:

- learn the basic features of the robot through participating in open ended challenges
- design their own open ended challenges or integrated stories
- document their solutions.



LEGO WeDo 2.0

The *LEGO® Education WeDo 2.0 Robotics Construction Set* is an easy-to-use set that introduces young students to robotics. Suitable for Kindergarten through to Year 3. Students will be able to build *LEGO®* models featuring working motors and sensors; program their models using software; and explore a series of cross-curricular, theme-based activities while developing their skills in science, technology, engineering, mathematics, as well as language and literacy. The WeDo 2.0 is controlled via Bluetooth on the iPad.

OR

Blue-Bot

The *Blue-Bot* is suitable for pre-school to Year 1. This easy-to-operate robot is a great tool for teaching sequencing, estimation and problem-solving. Directional keys are used to enter commands which send Bee-Bot forward, back, left, and right in 6" steps and 90° turns. The Blue-Bot is controlled via Bluetooth on the iPad. This workshop features different activity stations where students work collaboratively to solve challenges.

We can include Bee-Bots and Pro-Bots upon request.



HOW TO BOOK

Contact the Centre to arrange a date:

macictsupport@det.nsw.edu.au
(02) 9850 4310

WHEN Tuesdays, Wednesday & Thursdays during School Terms

TIME 9am - 2:30pm

LOCATION Macquarie University North Ryde NSW

STUDENT NUMBERS We can take a maximum of two classes per day.
Kindergarten and Year 1: max 25 students per class
Year 2 and 3: max 30 students per class

A ratio of 1 parent/adult helper per 5 students is required for all **Kindy** workshops, and strongly advised for Year 1 & 2 workshops.

COST Flat rate of \$528 inclGST per class of up to 23 students.

An extra \$22 will be charged per additional student up to the max number per class.

PAYMENT Government schools will be charged internally by the NSW Department of Education. This will be reflected on your sundry tax invoice statement.

Private schools will be invoiced by the NSW Department of Education.