

# NPTU Intelligent Robot Creative Design Camp

Application Deadline: November 13th, 2017

Dates: December 4th -17th, 2017

Location: Pingshang Campus at National Pingtung University

## 1. Goals

Nowadays, artificial intelligence (AI) and robotics are already changing our daily lives, almost entirely in ways that improve human health, safety, and productivity. In order to improve the implementation ability of robotics, the goal of this program is to let the students learn and have fun with robotics.

## 2. Participants

2-1. Thirty students from sister universities in Thailand

## 3. Expenses

- 3-1. No registration fee is required.
- 3-2. Housing for this event is free.
- 3-3. Dinner and airplane tickets are not covered by NPTU.

## 4. Application Considerations

- 4-1. The application duration is from now until November 13<sup>th</sup>. No applications will be accepted after November 13<sup>th</sup>. In addition, we will close the application window early if we meet the recruitment goal of 30 participants before November 13<sup>th</sup>.
- 4-2. After filling in the application form, please submit it to [chunhui@mail.nptu.edu.tw](mailto:chunhui@mail.nptu.edu.tw) before November 13<sup>th</sup>. NPTU will send acceptance letters from November 14<sup>th</sup> to November 20<sup>th</sup>.

## 5. Important Notes

- 5-1. Smoking and alcohol are not allowed in NPTU dormitories. All participants should follow the NPTU student dormitory regulations during the Camp.
- 5-2. Students must carry their personal medicine, passport, health insurance card, and rain gear with themselves. For your own safety, please don't carry too much cash with you.

## 6. Contact Information

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E-Mail [chunhui@mail.nptu.edu.tw](mailto:chunhui@mail.nptu.edu.tw)

เรียน คณบดี/ผู้อำนวยการ  
เพื่อโปรดทราบ และเผยแพร่  
ประชาสัมพันธ์ต่อไป

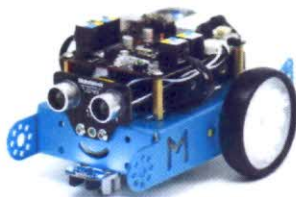
ศูนย์ความร่วมมือนานาชาติ  
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## Courses & Schedule

The courses are divided into two parts, and the details are introduced as follows.

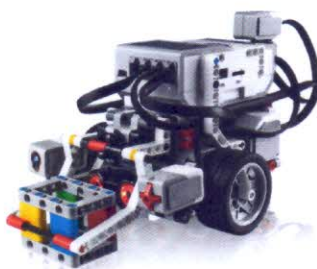
### 1. mBot

To further develop their knowledge and understanding of robotics, students will enjoy the other robotics courses which adopts the mBot robots. mBots is designed to induct students into the fields of robotics and programming. The creative development, logical thinking ability and the programming skills in mBlock of the students will also be improved through this series of learning courses.



### 2. LEGO Mindstorm

This part uses the LEGO Mindstorm EV3 which offers students an exciting platform for learning about the basic mechanism design, programming ability, and robotics technology. Through the learning courses, campers grow their ability to tackle complex problems and develop their curiosity and passion to learn and explore.



Beyond the science and engineering principles, all the courses also encourages team work, leadership, and problem solving among groups. Moreover, when not in class, students also enjoy planned activities on campus as well as field trips to explore the wonderful city of Pingtung.

Date	Time	Activities
12/4	09:00 16:30	mBot Structure and Sensors
12/5	09:00 16:30	mBot Programming
12/6	09:00 16:30	mBot Motor and Sensor Test
12/7	09:00 16:30	Making Obstacle Avoidance Robot
12/8	09:00 16:30	Making Tracking Line Robot
12/9	08:00~18:00	Tour Visit and Culture Exchange
12/10		
12/11	09:00 16:30	Module for LEGO EV3 and Programming Introduction
12/12	09:00 16:30	Assembling Wheeled Robot
12/13	09:00 16:30	Robot Sensors Introduction
12/14	09:00 16:30	Making Maze Navigating Robot
12/15	09:00 16:30	Making Sumo Robot
12/16	08:00~18:00	Tour Visit and Culture Exchange
12/17		



# Map & Transportation

Kaohsiung Rapid Transit Corporation => Train:

- Take KRTC from “Kaohsiung International Airport” to “Kaohsiung Main station”
- Take a train from Kaohsiung station to Pingtung station
- Get off the train at Pingtung station, and then take a taxi (or Pingtung bus) to NPTU Pingshang Campus (about 10 minutes).
- Taiwan railway website: <http://www.railway.gov.tw/en/index.aspx>



