

# Short Summer Exchange Training for KMITL students at UEC in 2011

**Period:** 2nd of October to 5th of November 2011

**Location :** UEC Dept of Mech. Engg. & Int.Sys.  
1-5-1, Chofu, Tokyo 182-8585 Japan

**UEC Supervisory staff**

Prof.Chisato KANAMORI(kanamori@mce.uec.ac.jp)  
Prof.Hisayuki AOYAMA(aoyama@mce.uec.ac.jp)

**KMITL Leader**

Prof. Taworn Benjanarasuth (Dept. of Cont. Engg. . KMITL)

**Training students:**

Mr. THITIPONG Kittipo[KMITL • Mechatronics Engineering 学部 3 年  
Mr. SUTANG Sawasdee[KMITL • Instrumentation Engineering 学部 3 年]  
Mr. THANAPHOOM Suwannrat[KMITL • Information Engineering 学部 3 年]

**Program agenda:**

In this training program, students from KMITL can join to the technical training course that is set up for the UEC students who are assigned to AOLAB/KANALAB to start their graduation research program.

**1st week:**

- Guidance for life style in UEC/Lab
- Advise to survive around Chofu city
- Set up PC for linking to campus internet(email & skype)
- Assignment to student group(4-5 groups)

**2nd week- 3rd week:**

- Introduction and training with mechatronics and robotics technology  
How to control the inverted pendulum.

**4th week:**

- Collaborate Project :  
(Mission: Assemble, Control and Competition of Inverted Pendulum Vehicle with  
Optical Line Trace Sensor.  
-Sociat tour National Maritime Research Institute(Mitaka)

**5th week:**

- Summarize the training results and the final presentation

In this training program, students from KMITL can enjoy to learn the basic experiments of Robotics and Mechatronics fields and get a lot of experiences to collaborate with Japanese students to make the inverted pendulum vehicle with line trace sensor



KMITL students and UEC students can collaborate to assemble Inverted Pendulum Vehicle with the original control software to show some performances to trace the line with good balance