

# Creative Engineering Project for Undergraduate I・III

I ▶ Undergraduate B3 S1S2

III ▶ Undergraduate B4 S1S2

# Creative Engineering Project I

Graduate S1S2 (Master, Doctor)

## Course registration

Each project has a different course number. Please check the syllabus and handbook for course registration. The course number has been changed from 2023. When students who matriculated in 2022 earn credits for the courses offered in 2023, the credits will automatically be registered with the old course numbers.

## When enrolling in multiple projects in the same semester

Please register for the following "Common Project" and participate in each project.

Note: The course numbers correspond to Creative Engineering Project for Undergraduate I, III and Creative Engineering Project I, respectively.

## Course Guidance

**Apr. 7 Fri**  
**18:45~**

## Online Guidance

Please check the Zoom URL listed in the syllabus.

Guidance for each individual project will also be provided. Please check the syllabus for the guidance schedule.

**CO3g15P2** | **CO4g75P2** | **3799-515** **NEW**

### Mono-Lab Project

Naohiko Sugita · Reina Yoshizaki

Develop and implement "workshops for creative manufacturing of Rube Goldberg machine" for elementary school students with students participating in the project.

Reina Yoshizaki | yoshizaki-reina7845@ecc.u-tokyo.ac.jp

**CO3g16P2** | **CO4g76P2** | **3799-516** **NEW**

### Solar Boat Challenge

Hideaki Murayama · Kazuhiro Aoyama · Daisuke Kitazawa · Kazuo Yonekura

Design and build a 1-passenger solar-powered boat using model-based approach (developing a digital twin and simulation environment).

Hideaki Murayama | murayama@edu.k.u-tokyo.ac.jp

**CO3g47P2** | **3799-547** **NEW**

### Chipason

Makoto Ikeda · Atsutake Kosuge

Learn practical VLSI design techniques including FPGA and edge AI system through the contest. Encourage submitting design results to design contests hosted by IEEE and industrial companies.

Atsutake Kosuge | kosuge@dlab.t.u-tokyo.ac.jp

Starts in A1A2

**CO3g11P2** | **CO4g71P2** | **3799-511**

### Global Co-creation Expedition

Yoshiaki Nakano · Chie Sato

Here in this project, you plan & lead an expedition to global co-creation scenes both in Japan and abroad, in order to obtain new insights for your future career, through a series of dialogues with various governmental and third-party experts.

Chie Sato | sato@biztech-inc.co.jp

**CO3g02P2** | **CO4g62P2** | **3799-502**

### Student Formula Project

Masayuki Nakao · Kohei Kusaka

You will plan, design, manufacture and test a formula racing car to enter "Student Formula SAE Competition of Japan". Not only manufacture a racing car, you will manage a virtual company. Technical Advisor: Yuta Yaguchi

Kohei Kusaka | kusaka@mech.t.u-tokyo.ac.jp

**CO3g14P2** | **CO4g74P2** | **3799-514**

### AI wolf Project

Fujio Toriumi

Develop AI agents to play werewolf games to participate the International AI Wolf Contest. Learn programming and AI techniques.

Fujio Toriumi | tori@sys.t.u-tokyo.ac.jp

**CO3g03P2** | **CO4g63P2** | **3799-503**

### Flying Robot Project

Takeshi Tsuchiya

Design, make and fly a Flying robot for the Student Indoor Flying Robot Contest.

Takeshi Tsuchiya | tsuchiya@mail.ecc.u-tokyo.ac.jp

**CO3g12P2** | **CO4g72P2** | **3799-512**

### Artificial Intelligence Application Project

Yutaka Matsuo · Yusuke Iwasawa

Plan and develop a project to apply artificial intelligence technology to robot control. Participation in international robotics competitions (Robocup) is also encouraged.

Yusuke Iwasawa | creative\_eng@weblab.t.u-tokyo.ac.jp

**CO3g01P2** | **CO4g61P2** | **3799-501**

### Robot Contest Project

Yasuo Kuniyoshi · Yoshiyuki Ohmura · Kohei Kusaka

Learn how to build a robot system designed for an optimal strategy. The goal of this project is to be a winner in the NHK(ABU) Robot Contest.

Yoshiyuki Ohmura | creative\_robot@isi.imi.i.u-tokyo.ac.jp

**CO3g04P2** | **CO4g64P2** | **3799-504**

### International Aviation System

Taro Imamura · Miwa Kobayashi

International Project Based Learning about Aviation Business cooperating with Boeing.

Taro Imamura | imamura@g.ecc.u-tokyo.ac.jp

**CO3g06P2** | **CO4g66P2** | **3799-506**

### International Internship

Hironori Kato

This program provides you with an opportunity of technical experience through international internship. It enables you to enhance practical expertise. You are required to participate in the IAESTE program.

Hironori Kato | kato@civil.t.u-tokyo.ac.jp

**CO3g09P2** | **CO4g69P2** | **3799-509**

### Startup Training (Hongo)

Keisuke Nagato · Yuki Sugie

The training part of Sony's social collaboration course, where you can learn the start-up method of technology x design x business through social implementation.

Yuki Sugie | yuki.sugie@ignite-your-ambition.com

**CO3g05P2** | **CO4g65P2** | **3799-505**

### UT innovators' Guild

Akira Hirose · Koji Nagatsuna

UT innovators' Guild is a group of people who wish to design, create, and develop something new. You will be able to work with professionals with various business/technical background. If you have any business ideas, please bring them over. Let's work together to materialize it.

Koji Nagatsuna | tngtna@g.ecc.u-tokyo.ac.jp

**CO3g08P2** | **CO4g68P2** | **3799-508**

### UT Drone Project

Takeshi Tsuchiya · Yoshichika Sakamoto

Create new business plans and educational programs utilizing drone.

Takeshi Tsuchiya | tsuchiya@mail.ecc.u-tokyo.ac.jp

**CO3g29P2** | **CO4g89P2** | **3799-529**

### Common Project

If you enroll in multiple projects during the same semester, please register for this course number.

You can enroll in multiple projects during the same semester. However, this course plan is only worth 2 credits, which is equivalent to registering for a single project. The final grade you receive will be the highest grade among all the projects you have completed.

Takaaki Kawanaka | kawanaka@cce.t.u-tokyo.ac.jp

