

Creative Engineering Project for Undergraduate I・III

Graduate S1S2(Master, Doctor)

Creative Engineering Project I

[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 2025, 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. 9 18:45~ Wed.

Online. Please check the Zoom URL listed in the syllabus.

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CO3g10P2 CO4g70P2 3799-510 **NEW** Biomanufacturing Project

Takanori Ichiki・Shusuke Satoh・Cabral Horacio・Satoru Nagatoishi

Design and build original biological devices. Participation in world-class contests and competitions such as iGEM, which is known as the biological version of Robocon, is also encouraged.

Takanori Ichiki ichiki@bionano.t.u-tokyo.ac.jp

CO3g19P2 CO4g79P2 3799-519 **NEW** AI Sign Language Translation Project

Asako Uchibori

Learn key technologies for AI-based sign language translation through lectures and exercises, and develop software to promote an inclusive society, guided by ten expert instructors from various fields.

Asako Uchibori uchibori@cce.t.u-tokyo.ac.jp

CO3g16P2 CO4g76P2 3799-516 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@sys.t.u-tokyo.ac.jp

CO3g11P2 CO4g71P2 3799-511 Global Co-creation Expedition

Kazuhiro Takanabe・Chie Sato

Here in this project, you plan & lead an expedition to global co-creation scenes both in Japan and other countries, 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

Yudai Yamasaki・Kohei Kusaka

You will plan, design, manufacture and test an electric drive 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 k.kusaka@sentan.org

CO3g15P2 CO4g75P2 3799-515 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@g.ecc.u-tokyo.ac.jp

CO3g12P2 CO4g72P2 3799-512 Artificial Intelligence Application Project

Yutaka Matsuo・Yusuke Iwasawa・Tatsuya Matsushima

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

CO3g08P2 CO4g68P2 3799-508 UT Drone Project

Takeshi Tsuchiya・Yoshichika Sakamoto

Learn about the advanced technologies and practical applications of drones, which are expected to drive the industrial revolution of the sky, and create business plans.

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

CO3g18P2 CO4g78P2 3799-518 Urban Digital Twin Application Project

Yoshihide Sekimoto・Yuka Sogawa

Learn the basic technology of the MLIT's urban digital twin project "PLATEAU". The goal is to submit a product to the "PLATEAU AWARD," an application development competition that utilizes PLATEAU's data.

Yuka Sogawa sogawa-y2up@mlit.go.jp

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 t-ngtna@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

CO3g07P2 CO4g67P2 3799-507 MAKAIZO Project 2025S

Keisuke Nagato・Hideyoshi Yanagisawa

Learn the process of remodelling toys or home appliances to "useless" monsters, based on the policy of "Night of the MAKAIZO SOCIETY". Experience actual remodelling of familiar toys.

Keisuke Nagato nagato@hnl.t.u-tokyo.ac.jp

CO3g09P2 CO4g69P2 3799-509 Startup Training (Hongo)

Keisuke Nagato・Yuki Sugieue

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 Sugieue yuki.sugieue@ignite-your-ambition.com

CO3g14P2 CO4g74P2 3799-514 AI wolf Project

Fujio Toriumi

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

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

CO3g04P2 CO4g64P2 3799-504 International Aviation System

Takeshi Tsuchiya・Miwa Kobayashi

International Project Based Learning about Aviation Business cooperating with Boeing.

Hiroko Nakamura hiroko-nakamura@g.ecc.u-tokyo.ac.jp

CO3g01P2 CO4g61P2 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

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

