

Creative Engineering Project for Undergraduate II

Creative Engineering Project II

Undergraduate B3·B4 A1A2

A Semester Guidance & S Semester Debriefing Session

Online.

Oct. 3 Fri 18:45-

Please check the Zoom URL listed in the syllabus.

[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 II and Creative Engineering Project II, respectively.

Graduate A1A2 (Master, Doctor)

CO3g59P2 3799-559

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

CO3g47P2 3799-547

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

CO3g36P2 3799-536

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

CO3g33P2 3799-533

Flying Robot Project

Takeshi Tsuchiya · Naoto Morita

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

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

CO3g42P2 3799-542

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

CO3g31P2

Robot Contest Project

Yasuo Kuniyoshi · Yoshiyuki Ohmura · Kouhei 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. (In 2025A1A2, the project will be opened but no new recruitment will take place. The next new recruitment will take place in 2026S1S2.)

Yoshiyuki Ohmura creative_robot@isi.imi.i.u-tokyo.ac.jp

CO3g40P2 3799-540

Biomanufacturing Project

Takanori Ichiki · Shusuke Satoh · Cabral Horacio · Satoru Nagatoishi

Participants will propose and prototype equipment and services that will be useful in elderly care and medical care. They are also encouraged to participate in idea contests and pitch contest.

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

CO3g44P2 3799-544

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

CO3g45P2 3799-545

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

CO3g39P2 3799-539

Startup Training (Hongo)

Keisuke Nagato · Yuki Sugiue

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 Sugiue yuki.sugiue@ignite-your-ambition.com

CO3g34P2 3799-534

Global Aviation Business

Takeshi Tsuchiya · Hiroko Nakamura · Jiro Koda

We learn and discuss the Aviation Industry with Airbus Japan.

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

CO3g43P2 3799-543

Generative AI Utilization Course

Lui Yoshida

In this class, students learn fundamentals and key features of generative AI, and explores practical ways to use it effectively. All levels welcome!

Lui Yoshida luyoshida@g.ecc.u-tokyo.ac.jp

CO3g49P2 3799-549

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

CO3g46P2 3799-546

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

CO3g32P2 3799-532

Student Formula Project

Yudai Yamasaki · Kohei Kusaka

You will plan, design, manufacture and test a 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

CO3g35P2 3799-535

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

