

Creative Engineering Project

for Undergraduate I・III

I ▶ Undergraduate B3 S1S2

III ▶ Undergraduate B4 S1S2

Graduate S1S2(Master, Doctor)

Creative Engineering Project I

Course Guidance

Apr. 8 18:45~
Wed.

[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.

Online.

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.

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

<p>CO3g22P2 CO4g82P2 3799-522</p> <p>AI Cybersecurity PBL NEW</p> <p>Yuji Sekiya, Daishi Kondo, Yusuke Nirahara, Hideki Mima</p> <p>The course provides lectures and practical exercises designed to participating in security competitions known as Capture The Flag (CTF). Cybersecurity measures will be explored collaborating with Carnegie Mellon University.</p> <p>Yuji Sekiya sekiya@si.u-tokyo.ac.jp</p>	<p>CO3g23P2 CO4g83P2 3799-523</p> <p>AI Programming Hackathon NEW</p> <p>Makoto Ikeda</p> <p>A hackathon to develop on-device AI apps on Snapdragon-powered PCs. Projects are evaluated on originality, social value, technical execution, NPU utilization, UX, and presentation clarity.</p> <p>Makoto Ikeda ikeda@silicon.u-tokyo.ac.jp</p>	<p>CO3g21P2 CO4g81P2</p> <p>CanSat Development Project NEW</p> <p>Satoshi Ikari, Ryu Funase, Shinji Nakaya, Koji Nagatsuna</p> <p>This course provides hands-on experience in space engineering through team-based design and development of CanSats with opportunities to participate in competitions, including the Noshiro Space Event and ARLISS.</p> <p>Satoshi Ikari ikari@space.t.u-tokyo.ac.jp</p>
<p>CO3g15P2 CO4g75P2 3799-515</p> <p>Mono-Lab Project</p> <p>Naohiko Sugita · Reina Yoshizaki</p> <p>Develop and implement "workshops for creative manufacturing of Rube Goldberg machine" for elementary school students with students participating in the project.</p> <p>Reina Yoshizaki yoshizaki-reina7845@g.ecc.u-tokyo.ac.jp</p>	<p>CO3g10P2 CO4g70P2 3799-510</p> <p>Biomufacturing Project</p> <p>Takanori Ichiki · Shusuke Satoh · Cabral Horacio · Satoru Nagatoishi</p> <p>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.</p> <p>Takanori Ichiki ichiki@bionano.t.u-tokyo.ac.jp</p>	<p>CO3g02P2 CO4g62P2 3799-502</p> <p>Student Formula Project</p> <p>Yudai Yamasaki · Kohei Kusaka</p> <p>You will plan, design, manufacture and test a electric drive formula racing car to enter "Student Formula SAE Competition of Japan" to gain "Monodukuri" experience in manufacturing. Not only manufacture a racing car, you will manage a virtual company. Technical Advisor: Yuta Yaguchi</p> <p>Kohei Kusaka k.kusaka@sentan.org</p>
<p>CO3g19P2 CO4g79P2 3799-519</p> <p>AI Sign Language Translation Project</p> <p>Asako Uchibori</p> <p>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.</p> <p>Asako Uchibori uchibori@cce.t.u-tokyo.ac.jp</p>	<p>CO3g07P2 CO4g67P2 3799-507</p> <p>MAKAIZO Project 2026S</p> <p>Keisuke Nagato · Hideyoshi Yanagisawa</p> <p>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.</p> <p>Keisuke Nagato nagato@hnl.t.u-tokyo.ac.jp</p>	<p>CO3g05P2 CO4g65P2 3799-505</p> <p>UT innovators' Guild</p> <p>Akira Hirose · Koji Nagatsuna</p> <p>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.</p> <p>Koji Nagatsuna t-ngtna@g.ecc.u-tokyo.ac.jp</p>
<p>CO3g06P2 CO4g66P2 3799-506</p> <p>International Internship</p> <p>Hironori Kato</p> <p>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.</p> <p>Hironori Kato kato@civil.t.u-tokyo.ac.jp</p>	<p>CO3g16P2 CO4g76P2 3799-516</p> <p>Solar Boat Challenge</p> <p>Hideaki Murayama · Kazuhiro Aoyama · Daisuke Kitazawa · Kazuo Yonekura</p> <p>Design and build a 1-passenger solar-powered boat using model-based approach (developing a digital twin and simulation environment).</p> <p>Hideaki Murayama murayama@edu.k.u-tokyo.ac.jp</p>	<p>CO3g17P2 CO4g77P2 3799-517</p> <p>Semiconductor Design, Business Model Hackathon</p> <p>Makoto Ikeda · Atsutake Kosuge</p> <p>We're hosting contests for AI semiconductor design and application proposals. Participants will learn energy-efficient AI processor design flow by optimizing performance by using FPGAs.</p> <p>Atsutake Kosuge kosuge@dlab.t.u-tokyo.ac.jp</p>
<p>CO3g11P2 CO4g71P2 3799-511</p> <p>Global Co-creation Expedition</p> <p>Kazuhiro Takanabe · Chie Sato</p> <p>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.</p> <p>Chie Sato sato@biztech-inc.co.jp</p>	<p>CO3g03P2 CO4g63P2 3799-503</p> <p>Flying Robot Project</p> <p>Takeshi Tsuchiya · Naoto Morita</p> <p>Design, build and fly a Flying robot for the Student Indoor Flying Robot Contest.</p> <p>Takeshi Tsuchiya tsuchiya@mail.ecc.u-tokyo.ac.jp</p>	<p>CO3g18P2 CO4g78P2 3799-518</p> <p>Urban Digital Twin Application Project</p> <p>Yoshihide Sekimoto · Yuka Sogawa</p> <p>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.</p> <p>Yuka Sogawa sogawa-y2up@mlit.go.jp</p>
<p>CO3g04P2 CO4g64P2 3799-504</p> <p>International Aviation System</p> <p>Takeshi Tsuchiya · Miwa Kobayashi</p> <p>International Project Based Learning about Aviation Business cooperating with Boeing.</p> <p>Hiroko Nakamura hiroko-nakamura@g.ecc.u-tokyo.ac.jp</p>	<p>CO3g12P2 CO4g72P2 3799-512</p> <p>Artificial Intelligence Application Project</p> <p>Yutaka Matsuo · Yusuke Iwasawa · Tatsuya Matsushima</p> <p>Plan and develop a project to apply artificial intelligence technology to robot control. Participation in international robotics competitions (Robocup) is also encouraged.</p> <p>Yusuke Iwasawa creative_eng@weblab.t.u-tokyo.ac.jp</p>	<p>CO3g01P2 CO4g61P2</p> <p>Robot Contest Project</p> <p>Kei Okada · Kunio Kojima · Kohei Kusaka</p> <p>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 student (ABU) Robot Contest.</p> <p>Kei Okada shokuin-robotech@jsk.imi.i.u-tokyo.ac.jp</p>
<p>CO3g09P2 CO4g69P2 3799-509</p> <p>Startup Training (Hongo)</p> <p>Keisuke Nagato</p> <p>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.</p> <p>Keisuke Nagato nagato@hnl.t.u-tokyo.ac.jp</p>	<p>CO3g08P2 CO4g68P2 3799-508</p> <p>UT Drone Project</p> <p>Takeshi Tsuchiya · Yoshichika Sakamoto</p> <p>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.</p> <p>Takeshi Tsuchiya tsuchiya@mail.ecc.u-tokyo.ac.jp</p>	<p>CO3g29P2 CO4g89P2 3799-529</p> <p>Common Project</p> <p>If you enroll in multiple projects during the same semester, please register for this course number.</p> <p>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.</p> <p>Takaaki Kawanaka kawanaka@cce.t.u-tokyo.ac.jp</p>

