

UEC Short-term Exchange Program

Japanese University Studies in Science and Technology (JUSST)

<http://www.fedu.uec.ac.jp/jusst>



This program is designed to cultivate researchers and professionals to possess the research ability in the fields of science and engineering and to develop strong technical skills of science communication.

All participants will be assigned to a research lab/faculty member, in the field related to your research or the field you are interested in, to undertake an original individual research study under the supervision of the faculty member at UEC. This means that, while earning your academic credits, you will have the chance to experience the Japan university research lab's life and work with the local students in addition to gain essential research skills and knowledge.

Lab Work

(assigned to a supervisor at UEC)
Individual Study Project - for undergraduate student (UG)
Independent Research Project - for graduate student (GS)

Japanese Language

Elementary/Intermediate/Advanced - 8 to 14 hours/week

Scientific & Engineering Subjects

3 subjects at minimum per semester - UG student
3 subjects at minimum per academic year - GS student

UEC Academic Skills Courses

Computer Literacy - 1st semester
Information Literacy and Research - 1st semester
Publishing Literacy and Research- 2nd semester

Lab Work presentation

Poster presentation + Abstract - end of 1st semester
Oral presentation + full Paper - end of 2nd semester

JUSST program outline (core subjects and semester end assignment)

[†] Please use the search-engine below to find out which faculty members specialize in areas relevant to your proposed Lab Work research project.

Webpage: <https://researchers.uec.ac.jp/search/?lang=en>



Please note that some courses and the offering term may be subject to change, based on staffing.

Course Offerings

a) Japanese language and Academic Skills courses (offered in every semester)

1. Japanese Language (Elementary, Intermediate, Advanced)
2. UEC Academic Skills I (Computer Literacy)
3. UEC Academic Skills II (Information literacy and Research)
4. UEC Academic Skills III (Publishing Literacy and Research)

b) Science and Engineering courses

Spring Semester	Fall Semester
1. Introduction to Computational Methods in Science and Engineering	1. Experimental Electronics Laboratory
2. Advanced Communication Engineering and Informatics I (<i>Information and Communication Networks</i>) *	2. Topics in Informatics I (<i>Evolutionary Computation</i>)
3. Advanced Communication Engineering and Informatics II (<i>Optical Communication Engineering</i>)	3. Advanced Communication Engineering and Informatics III (<i>Computational Complexity</i>)
4. Topics in Informatics II (<i>Sustainable Supply Chain Management</i>)	4. Advanced Communication Engineering and Informatics IV (<i>Computer Algorithms</i>)
5. Topics in Informatics III (<i>Advanced Theory of Systems Reliability</i>) *	5. Topics in Mechanical and Intelligent Systems Engineering I (<i>Advanced Robotics and Mechatronics Engineering</i>) *
6. Advanced Engineering Science I (<i>Modern Optics and Photonics</i>)	6. Topics in Mechanical and Intelligent Systems Engineering II (<i>The Human Brain as Intelligent Machines</i>)
7. Advanced Engineering Science II (<i>Photonics and Opto-Electronics</i>)	7. International Communication for Science and Technology *
8. Advanced Engineering Science III (<i>Exercises in Advanced Computational Sciences</i>)	8. Advanced Topics in Data Analysis Optimization *
9. Advanced Environmental Materials Science *	
10. VLSI Low Power Circuit Design *	
11. Information and Communications Technologies for SDGs *	

* Joint classes with regular graduate students

c) Scientific Research Communication Courses

Spring Semester	Fall Semester
1. Preparation for Overseas Study	1. Advanced Reading in Academic English
2. English for Intercultural Communication	2. Research Writing

d) Sports course: Life Long Learning Sports (practical, for 2nd semester student only)

[†] The student might take the regular courses (conducted in Japanese), if their Japanese language proficiency is sufficient to be able to follow the classes/lectures

Course description

http://www.fedu.uec.ac.jp/en/future_students/jusst/course-description



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