

**Outline of Proposal for SDGs Online Cross-Registration:
Online Exchange Program (OEP) focusing on SDGs**

General Information		Shibaura Institute of Technology				
Name of University/ Institution		Shibaura Institute of Technology				
Brief Introduction of the University/Institution		Shibaura Institute of Technology (SIT) has firmly maintained "learning through practice" as the philosophy in education of engineers ever since Tokyo Higher School of Industry and Commerce, the predecessor to SIT, was established in 1927. In response to the recent progress in the globalization of the economy, SIT is providing an up-to-date framework for "learning through practice" including intensive English Language programs, Project Based Learning programs under multicultural environment, along with many Hands-on subjects that has been preserved through SIT's history. SIT now aims to foster scientists and engineers who can contribute to the sustainable growth of the world by exposing our students to culturally diverse environments where they learn to cope with, collaborate with, and have ever-lasting friendships with fellow students from around the world.				
Country/Territory		Japan	City		Koto-Ku	
Address		3-7-5 Toyosu Koto-ku Tokyo	Telephone Number		81-3-5859-7140	
Fax Number		81-3-5859-7141	Official University/Institution Website		https://www.shibaura-it.ac.jp/en/	
UMAP Contact Person	Name	Kenichi Sugimura				
	Organization/Office	Division of Global Initiatives				
	Email Address	global-admission@ow.shibaura-it.ac.jp				
Program Information		Materials for Energy		Name of Faculty		Dr. PAOLO MELE
Name of Subject		Materials for Energy		Name of Faculty		Dr. PAOLO MELE
Name of Department		Innovative Global Program				
Program Description & syllabus		<p>· Course description:</p> <p>This course is dedicated to the study of energy sources, materials used in energy generation and sustainability of energy production. In particular, advanced materials for energy-carrying, storage, recycling, and conversion will be introduced in great detail. In the first part, a short review of the conventional energy sources (fossil fuels, nuclear, solar, wind, hydro) as well as reminders of energy units, energy generation, storage, and the transfer will be given. Then, in the second part, an outline of advanced materials realizing green energy society will be introduced. For example, thermoelectric materials, superconductors, materials for fuel cells, ferroelectrics, multiferroics, ceramics, and hydrogen storage materials.</p> <p>· Purpose of class:</p> <p>Students are expected to obtain skills, knowledge, and understandings of basics of sustainability, renewable energy, energy recycling, energy saving and a variety of advanced materials for energy.</p> <p>http://syllabus.sic.shibaura-it.ac.jp/syllabus/2022/ko1/131835.html?g=M00</p>				
Degree Level and/or Grade		Open to all students		Language of Instruction		English
Number of Credits to Transfer (Timing of credit issuance)	University Credits	2 credits	UTCS converted into University Credits	Definition of UTCS		
			<p>The definition of UTCS is as follows: One (1) UTCS = 38 – 48 hours of student workload. This includes 13-16 academic hours of instruction. *FYI, please refer to UCTS Users' Guide on UMAP website. (http://umap.org/ucts/)</p>			
Means of Transmission (e.g. via Zoom, etc.)		Zoom/ Microsoft Stream/ Google Meets		Number of Lectures		14 weeks
Number of class Hours		1hour and 40minutes		Total Teaching Hours		23hours and 20minutes
Independent Study Hours		44hours and 10minutes		Student's Total Workload		67.5hours
Program Fee		N/A				
Requirement	Language Proficiency	<p>-Content of the syllabus of the courses "General Chemistry A"(http://syllabus.sic.shibaura-it.ac.jp/syllabus/2022/ko1/131774.html?g=M00), "General Chemistry B"(http://syllabus.sic.shibaura-it.ac.jp/syllabus/2022/ko1/131852.html?g=M00), "Basic Physics"(http://syllabus.sic.shibaura-it.ac.jp/syllabus/2022/ko1/131772.html?g=M00) - CEFR B2 or equivalent</p>				
		We accept native English speakers and/or a certificate issued by the home institution if English is used as the medium of instruction.		Yes		
GPA		N/A				
Others (if any)		N/A				
Program Schedule		1 term				
Length		1 term				
From		29-Sep-22		To		24-Jan-23
Day of week		Thursday		Time of class(Standard Time)		13:20-15:00(JST)
Participants	Number of acceptable participants	3 students (Negotiable)				
Application Period	From	11-Jul-22		Until (Deadline)		24-Jul-22
Others	If there are any other facts to inform, please specify.	N/A				