Outline of Proposal for SDGs Online Cross-Registration: Online Exchange Program (OEP) focusing on SDGs							
	Name of U	niversity/ Institution	Shibaura Institute of Technology				
General Information	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		Unciar Oniversity/Institution	https://www.shibaura-it.ac.jp/en/	
	UMAP Contact Person	Name	Kenichi Sugimura 9 Division of Global Intiatives				
		Organization/Office					
		Email Address	gl	bal-admission@c	ow.shibaura-it.ac.jp		
	Name of Subject			Nanostruct	ure Physics	Name of Faculty	Dr. MIRYALA MURALIDHAR
Program Information	Name of Department		Innovative Global Program				
	Program Description & syllabus		This course introduces a comprehensive state-of-the-art in the field of high temperature superconductivity (HTS), in this case copper-oxide-based (cuprates), and its application for United Nations Sustainable Development Goals (SDGs). The course mainly deals with various aspects of processing methods, properties, and applications of high-Tc cuprates. Industrial applications require high-quality materials. The students will learn to create and evaluate phase diagrams reflecting the quality of nano-structures achieved in the production stage. For this, it will be important to understand the vortex pinning techniques needed for individual industrial applications. This course is designed to be as broad and rigorous as possible to cover super-magnets' processing, reliable production, and characterization needed for several industrial applications in medicine, transport, and research fields, supporting the SDGs goals. • Purpose of class: To develop excellence in bulk high-Tc processing and activate ability to produce nanostructures improving the material's performance, in particular above liquid nitrogen temperature. Eventually, students should understand how the new class of nanostructured materials contributes to the everyday applications conforming to SDGs.				
	Degree Level and/or Grade		http://syllabus.sic.shibaura1t.ac.jp/syllabus/2022/ko1/131824.html?g=M00 Open to all students			Language of Instruction	English
	Number of Credits to Transfer (Timing of credit issuance)		University Credits	UTCS converted into Univeersity Credits	Definition of UTCS		
			2 credits		The definition of UCIS is as follows: One (1) UCTS = 30 - 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/)		
	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 20minites
	Independent Study Hours		44hours and 40minutes			Student's Total Workload	68hours
	Program Fee		N/A				
Requirement	Language Proficiency		We accept native English speak issued by the home institution i medium of instruction.	CEFR B2 or ers and/or a certificate f English is used as the	equivalent Yes		
	GPA		N/A			Others (if any)	N/A
Program Schedule	Length					1 term	
	From		27-Sep-22			То	24-Jan-23
	Day of week		Tuesday			Time of class(Standard Time)	10:50-12:30(JST)
Participants	Numbe p	er of accceptable articipants	table 3 students (Negotiable)				
Application Period		From	11-Jul-22			Until (Deadline)	24-Jul-22
Others	If there ar inform	e any other facts to , please specify.	N/A				