Space Engineering International Course (SEIC) 2013

Master Course/ The course requirements

Subjects \ Departments		Course A (Space Engineering International Course) Mechanical and Control Engineering Civil and Architectural Engineering Electrical and Electronic Engineering Materials Science Applied Science for Integrated System Engineering
Lectures etc.	PBL(Project Based Learning) Workshops Languages	6 credits from specific SEIC subjects *Practical System Engineering-Design* 4 credits *Space Environment Testing Workshop* 1 credit *Japanese for Beginners* or *English Ⅲ* 1 credit
	Common Subjects Special Subjects Practical Subjects	20 credits minimum from general SEIC subjects
Thesis Research for Degree / Special Laboratory Work		4 credits
Required credits (total amount)		30 credits minimum

Doctoral Course/ The course requirements

Subjects \ Departments		Space Engineering International Course	
		Mechanical and Control Engineering Civil and Architectural Engineering Electrical and Electronic Engineering Materials Science	Applied Science for Integrated System Engineering
Lectures etc.	Common Subjects Special Subjects Practical Subjects	4 credits minimum from SEIC subjects* *Credits previously applied to Master course are ineligible *Student entering as a Doctoral student is required to take *Japanese for Beginners* or *English Ⅲ* 1 credit	
Training /Lectures	Field Research Project	1 credit	
	Special Studies		1 credit
	Internship		
Project Research		2 credits	
Required credits (total amount)		7 credits minimum	

Table: Space Engineering International Course (SEIC) Subjects

Subjects	Lecturer	Credits	Master course				Doctoral course	Note
			1st year		2nd year			
			1st term	2nd term	1st term	2nd term		
Introduction to Satellite Engineering	CHO Mengu	2		○				
Satellite Power Systems	CHO Mengu IMAIZUMI Mitsuru SHIMAZAKI Kazunori NAITOU Hitoshi KUSAWAKE Hiroaki NOZAKI Yukishige	2		○				
Space Environment Testing	CHO Mengu	2			○			
Practical English Communication	LOUCKY John Paul	2		○				See Note 1
Spacecraft Environment Interaction Engineering	CHO Mengu AKAHOSHI Yasuhiro TOYODA Kazuhiro KIMOTO Yugo KOSHIISHI Hideki	2	○		○			
Advanced Course of Aerospace Guidance and Control	YONEMOTO Koichi	2	○		○			
Semiconductor Power Devices	OMURA Ichiro	2	●		●			See Note 5
Spacecraft Structure and Material	OKUYAMA Keiichi	2	○		○			
Space Systems Engineering	SHIRAKI Kuniaki	2		○				
Energy Conversion and Plasma Physics	TOYODA Kazuhiro	2		○				
Advanced Space Dynamics	HIRAKI Koju	2		○				
High-speed Gas Dynamics	TSUBOI Nobuyuki	2		○				
Advanced High Velocity Impact Engineering	AKAHOSHI Yasuhiro	2		○				

Space Propulsion	TACHIBANA Takeshi	2			○			
Practical System Engineering-Design	Teachers in charge of Development Projects	4	○					PBL subject / Required for Master course students
Heat Transfer	MIYAZAKI Koji	2			○			
Space Environment Testing Workshop	CHO Mengu	1				○		Mandatory for Master course students
EnglishⅢ	RUXTON Ian	1	○		○		○	See Note 2, 4
Japanese for Beginners	ISHITUKA Mariko	1		○		○	○	See Note 3, 4
Thesis Research for Degree	Supervisors	2	○					Register in your own department
Engineering Special Experiment	Supervisors	2	○					Register in your own department
Practical experience in companies or organizations	Supervisors	Maximum 2	○					Register in your own department
Lectures arranged by external organizations	Supervisors	Maximum 2	○					
Project Research	Supervisors	2					○	Register in your own department
Training outside of University	Supervisors	1					○	
Internship	Supervisors	1					○	
Special exercise	Supervisors	1					○	

Notes:

1. “Practical English Communication” is only open to the students of Applied Science for Integrated System Engineering. It is mandatory for those students of Applied Science for Integrated System Engineering.

2.「EnglishⅢ」is for Japanese students only

3.「Japanese for beginners」is for international students only. Depending on the student’s Japanese level, they may take「Japanese Ⅰ」or「JapaneseⅡ」.

4. Students must take「EnglishⅢ」or「Japanese for beginners」during the Master course if they enter SEIC as Master’s students and during the Doctoral course if they enter SEIC as Doctoral students.

5. ● class is held after 6th period(18:00~19:30).