Space Engineering International Course (SEIC) 2016

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	4 credits from specific SEIC subjects *Development Project-Design I・II* 2 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 *You must take minimum of 22 credits to cover total requirements
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
			All Engineering
Lectures etc.	Interdisciplinary Seminar		2 credits
	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	
Directed Research	Field Research Project		2 credits
	Special Studies		
	Internship	Overseas type	
		Company type	
	Project Research	I (specialty-deepening type)	1 credit
		II～IV(specialty-broadening type)	1 credit minimum
Required credits (total amount)			10 credits minimum
Foreign language			Optional

Table: Space Engineering International Course (SEIC) Subjects

Subjects	Lecturer	Credits	Master course				Doctoral course	Note
			1st Semester		2nd Semester			
			1st quarter	2nd quarter	3rd quarter	4th quarter		
Introduction to Satellite Engineering	CHO Mengu	2				○		
Satellite Power System I	CHO Mengu IMAIZUMI Mitsuru KAWAKITA Shirou NAITOU Hitoshi KUSAWAKE Hiroaki NOZAKI Yukishige	1			○			
Satellite Power System II	CHO Mengu IMAIZUMI Mitsuru KAWAKITA Shirou NAITOU Hitoshi KUSAWAKE Hiroaki NOZAKI Yukishige	1				○		
Space Environment Testing	CHO Mengu	2	○					
Spacecraft Environment Interaction Engineering	CHO Mengu AKAHOSHI Yasuhiro TOYODA Kazuhiro KIMOTO Yugo	2		○				
Advanced Course of Aerospace Guidance and Control	YONEMOTO Koichi	2	○					
Semiconductor Power Devices	OMURA Ichiro	2		●				
Spacecraft Structure and Material	OKUYAMA Keiichi	2				○		
Space Systems Engineering I	SHIRAKI Kuniaki	1			○			
Space Systems Engineering II	SHIRAKI Kuniaki	1				○		
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		○				
Advanced Mechanics of Materials	YAMAGUCHI Eiki	2				○		
Heat Transfer	MIYAZAKI Koji	2	○					
Development Project-Design Ⅰ	Teachers in charge of Development Projects	1	(○)		(○)			See Note4,PBL subject /Required for Master course students
Development Project-Design Ⅱ	Teachers in charge of Development Projects	1		(○)		(○)		See Note4,PBL subject /Required for Master course students
Development Project-Fabrication Ⅰ	Teachers in charge of Development Projects	1	(○)		(○)			See Note 4/ Please consult the teacher in charge of Development Project the time when you should take this.
Development Project-Fabrication Ⅱ	Teachers in charge of Development Projects	1		(○)		(○)		
Development Project-Operation Ⅰ	Teachers in charge of Development Projects	1	(○)		(○)			
Development Project-Operation Ⅱ	Teachers in charge of Development Projects	1		(○)		(○)		
Space Environment Testing Workshop	CHO Mengu	1		○				Required for Master course students
EnglishⅢ	RUXTON Ian	1		○				See Note 1, 3
Japanese for Beginners Ⅰ	ISHIKAWA Tomoko	0.5			○			See Note 2,3
Japanese for Beginners Ⅱ	ISHIKAWA Tomoko	0.5				○		See Note 2,3
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			○			
Interdisciplinary Seminar of Engineering Ⅰ～Ⅴ	Supervisors	1each					○	
Interdisciplinary Seminar of Engineering Ⅵ～Ⅶ	Supervisors	1each					○	Working-students only

Project Research Ⅰ (Specialty-deepening type)	Supervisors	1		○	
Project Research Ⅱ～Ⅳ (Specialty-broadening type)	Supervisors	1		○	
Internship (Overseas type)	Supervisors	2		○	
Internship (Company type)	Supervisors	2		○	
Field Research Project	Supervisors	2		○	
Special Studies	Supervisors	2		○	

1.「EnglishⅢ」is for Japanese students only

2.「Japanese for beginners」is for international students of SEIC only. Depending on the student's Japanese level, they may take「JapaneseⅠ」or「JapaneseⅡ」.

3. Students must take「EnglishⅢ」(for Japanese students) or「Japanese for beginners」(for international students) during the Master course if they enter SEIC as Master's students and during the Doctoral course if they enter SEIC as Doctoral students.

4. Students cannot take 2 or 3 subjects of 「Development Project (Design・Fabrication・ Operation) Ⅰ, Ⅱ」 during the same quarter.

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