Space Engineering International Course (SEIC) 2018

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 XA* 1 credit
	Common Subjects Special Subjects Practical Subjects	22 credits minimum from general SEIC subjects
Thesis Research for Degree / Special Experiment		4 credits
Required credits (total amount)		30 credits minimum

Doctoral Course/ The course requirements

Subjects \ Departments			Space Engineering International Course Department of Engineering
Lectures etc.	Interdisciplinary Seminar		2 credits
	Common Subjects Special Subjects Practical Subjects	4 credits minimum from SEIC subjects* *Credits previously have been gained @ Master program are ineligible *Student entering as a Doctoral student is required to take *Japanese for Beginners* or *English XA* 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 program				Doctoral program	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 KOGA Seiichi	2		○				
Advanced Course of Aerospace Guidance and Control	YONEMOTO Koichi	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			○			

Subjects	Lecturer	Credits	Master program				Doctoral program	Note
			1st Semester		2nd Semester			
			1st quarter	2nd quarter	3rd quarter	4th quarter		
Advanced Space Dynamics	HIRAKI Koju	2			○			
High-speed Gas Dynamics	TSUBOI Nobuyuki	2			○			
Advanced High Velocity Impact Engineering	AKAHOSHI Yasuhiro	2				○		
Advanced Mechanics of Materials	YAMAGUCHI Eiki	2				○		
Advanced Architectural Structure	CHEN Pei-Shan	2				○		
Heat Transfer	MIYAZAKI Koji	2	○					
Development Project-Design Ⅰ	Teachers in charge of Development Projects	1	(○)		(○)			See Note4,PBL subject /Mandatory for Master program students
Development Project-Design Ⅱ	Teachers in charge of Development Projects	1		(○)		(○)		See Note4,PBL subject /Mandatory for Master program students
Development Project-Fabrication Ⅰ	Teachers in charge of Development Projects	1	(○)		(○)			See Note 4/ Please consult the professor in charge of this class about 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		○				Mandatory for Master program students
English XA	RUXTON Ian	1			○	○		See Note 1,3
Japanese for Beginners	ISHIKAWA Tomoko	1			○			See Note 2,3
Thesis Research for Degree	Supervisors	2	○					
Special Experiment	Supervisors	2	○					

Subjects	Lecturer	Credits	Master program				Doctoral program	Note
			1st Semester		2nd Semester			
			1st quarter	2nd quarter	3rd quarter	4th quarter		
Practical experience in companies or organizations Ⅰ	Supervisors	1	○					★ See Note 5
Practical experience in companies or organizations Ⅱ	Supervisors	2	○					★ See Note 5
Lectures arranged by external organizations Ⅰ	Supervisors	1	○					★ See Note 5
Lectures arranged by external organizations Ⅱ	Supervisors	2	○					★ See Note 5
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	1each					○	
Internship (Overseas type)	Supervisors	2					○	
Internship (Company type)	Supervisors	2					○	
Field Research Project	Supervisors	2					○	
Special Studies	Supervisors	2					○	

1.「English XA」is for Japanese students only.

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

3. Students must take「English XA」(for Japanese students) or「Japanese for beginners」(for international students) during Master program when they enter SEIC as Master's students or during the Doctoral program when they enter SEIC as Doctoral students.

4. Students cannot take several classes of 「Development Project (Design・Fabrication・Operation) Ⅰ, Ⅱ」in the same quarter.

5. Students can earn maximum 4 credits from the ★subjects to be counted as the requirements. If you earn additional credits, they cannot be counted as the requirements, but they will be included in your transcript.