

Electronic and Mechanical Engineering Course

This curriculum is applied to the first-year students in the year 2007, and those who will be admitted hereafter.

General Subjects

Subjects	Number of Credits	Number of Credits		remark
		1st	2nd	
Japanese Expression	1	1		Required
Foreign Language Expression	1	1		Required
Oral Communication I	1	1		Required
Oral Communication II	1		1	Required
Environmental Ethics	2	2		Required
Health Science	2		2	Elective
Theory of Japanese Culture	2		2	Elective
Total of Offered Credits of General Subjects	10			
Total of Required Credits of General Subjects	6 or more			

Specialized Subjects

	Subjects	Number of Credits	Number of Credits		remark
			1st	2nd	
Specialized Common Subjects	Creative Engineering Project I	3	3		Required
	Creative Engineering Project II	4		4	Required
	General Introduction to Environmental Technology	2	2		Required
	Internship	10	10		Required
	Linear Mathematics	2	2		Required
	Discrete Mathematics	2	2		Elective
	Quantum Mechanics	2		2	Elective
	Sensing Technology	2		2	Elective
	Image Information Engineering	2	2		Elective
	Numerical Simulation	2		2	Elective
	Laser Engineering	2		2	Elective
	Control System Design	2		2	Elective
	Biological Information Engineering	2	2		Elective
	Basic Glaciology	2	2		Elective
	Advanced Theories of Dweiiing	2	2		Elective
Total of Offered Credits of Specialized Common Subjects		41			
Total of Required Credits of Specialized Common Subjects		27 or more			
Specialized Advanced Subjects	Graduation Research I	4	4		Required
	Graduation Research II	8		8	Required
	Electromagnetic Energy Conversion Technology	2	2		Elective
	Electronic Functional Device Engineering	2	2		Elective
	Power Transmission Engineering	2		2	Elective
	Thermal and Fluid Energy Conversion	2	2		Elective
	Transport Phenomena	2	2		Elective
	Tribology	2	2		Elective
	Antennas and Radio-wave Propagation	2	2		Elective
	Electronic Theory of Solids	2		2	Elective
	Material Design and Simulation of Solids	2		2	Elective
	Speech Processing	2	2		Elective
	Theory of Mechanical System	2		2	Elective
	Multirate Digital Signal Processing	2		2	Elective
Total of Offered Credits of Specialized Advanced Subjects		36			
Total of Required Credits of Specialized Advanced Subjects		24 or more			
Total of Offered Credits of General Subjects and Specialized Subjects		87			
Total of Required Credits of General Subjects and Specialized Subjects		62 or more (34 or more in 1st Year)			
(Note) Students must get 34 or more credits in their first year in order to take Creative Engineering Project II in their second year.					