

## Electronics & Information Engineering Course

Owing to the rapid development of advanced technology in the fields of electronics, information, and communication, the age of multimedia technology has come when people can communicate using cellular phones, E-mail and the internet. Electronics and information engineering develops technologies which contribute to both the improvement of the global environment and technological development. Such advances will benefit both human beings and the earth.

The department aims at training the students to be skilled engineers combining the knowledge of electronics, information, and communication engineering in the highly developed technological society of the 21st century.

Subjects		Number of Credits	Number of Credits				
			1st	2nd	3rd	4th	5th
Required Subjects	Applied Mathematics A	1				1	
	Applied Mathematics B	2				2	
	Probability and Statistics I	1				1	
	Probability and Statistics II	1					1
	Applied Physics I	2			2		
	Applied Physics II	1					1
	Fundamentals of Electronics and Information Engineering	2	2				
	Basic Electric Circuits	2		2			
	Circuit Theory I	2			2		
	Circuit Theory II	1				1	
	Electronic Circuit Analysis I	2			2		
	Electronic Circuit Analysis II	1				1	
	Seminar of Electric Circuit Analysis	1				1	
	Electromagnetics I	2			2		
	Electromagnetics II	2				2	
	Electron Devices	2				2	
	Basic Information	2	2				
	Digital Circuit	2		2			
	Computer Architecture	2			2		
	Operating System	2				2	
	Control Theory	2				2	
	Practice in Design of Electronics and Information Engineering System	2				2	
	Integrated Circuit Engineering	1					1
	Programming I	2	2				
	Programming II	2		2			
	Programming III	2			2		
	Algorithm & Data Structure	2			2		
	Database	1			1		
	Numerical Analysis I	2				2	
	Numerical Analysis II	1					1
	Software Engineering	2					2
	Digital Signal Processing	2					2
	Information Theory	1				1	
	Mathematics of Information Engineering	1					1
Image Processing	1					1	
Communication Engineering I	1			1			
Communication Engineering II	2				2		
Communication Engineering III	1					1	
Information Engineering Exercise	1				1		
Electronics & Information Engineering Laboratory I	2	2					
Electronics & Information Engineering Laboratory II	2		2				
Electronics & Information Engineering Laboratory III	2			2			
Electronics & Information Engineering Laboratory IV	2				2		
Elective Subjects	Electronics & Information Engineering Laboratory V	2					2
	Graduation Thesis	10					10
	Total of Required Credits	82	8	8	18	25	23
	Applied Mathematics Exercise	1				1	
	Opto-electronics	1					1
	Electronic Materials	1					1
	Systems Mathematical Engineering	1					1
	Compiler	1					1
	Coding Theory	1					1
	Operations Research	1					1
	Artificial Intelligence	1					1
	Pattern Recognition	1					1
	Digital Communications	1					1
	Subtotal	10				1	9
	Minimum Credit Requirement	6					6
	<b>Total of Offered Credits of Specialized Subjects</b>		92	8	8	18	26
<b>Total of Required Credits of Specialized Subjects</b>		88	8	8	18		54
<b>Total of Required of General Subjects</b>		77	26	26	16	7	2
<b>Total of Offered Credits</b>		175	34	34	34	36	37
<b>Total of Required Credits</b>		167	34	34	34		65