

Electrical Engineering Course

Electrical engineering has been playing an increasingly vital role in every field of industry in the contemporary world.

The curriculum cover, a wide range of specialized fields, such as energy, electrical machinery, electronics, communication, computers, and control theory. Our aim is to provide students with comprehensive knowledge in electrical engineering. Through conducting a wide range of experiments, they can obtain fundamental knowledge of theory. In order to enable students to keep up with the on-going development of technology, we offer a large number of elective subjects in electric power control and electronic communication engineering. The electrical engineering program is designed to offer an education suited to each student's interests and abilities.

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	
	Mathematics Exercise for Electrical Engineering	2	2				
	Fundamentals to Electrical Engineering	2	2				
	Basic Electric Circuits	2		2			
	Circuit Theory I	2			2		
	Circuit Theory II	2				2	
	Introduction to Electromagnetics	2		2			
	Electromagnetics I	2			2		
	Electromagnetics II	2				2	
	Electronic Circuit Analysis I	2			2		
	Electronic Circuit Analysis II	2				2	
	Instrumentation for Electricity & Electronics	1			1		
	Control Engineering I	1				1	
	Control Engineering II	1					1
	Computer Literacy	1	1				
	Basic Computer Science	1	1				
	Programming I	2		2			
	Programming II	2			2		
	Computer Science	1				1	
	Numerical Analysis	1					1
	Information Theory	1					1
	Electrical Machinery & Apparatus I	2			2		
	Electrical Machinery & Apparatus II	1				1	
	Power Semiconductor Circuits	1					1
	High Voltage & Current Engineering	1				1	
	Power System Engineering I	1				1	
	Power System Engineering II	1					1
	Semiconductor Device Engineering I	1			1		
	Semiconductor Device Engineering II	2				2	
	Electrical Engineering Materials	2					2
	Fundamentals to Communication Engineering	1			1		
	Communication Engineering	1				1	
	Information & Network Engineering	2					2
	Digital Signal Processing	1					1
	Basic Electrical & Electronic Engineering Laboratory I	2		2			
	Basic Electrical & Electronic Engineering Laboratory II	3			3		
	Electrical & Electronic Engineering Laboratory I	3				3	
Creative Engineering Laboratory	3				3		
Electrical & Electronic Engineering Laboratory II	2					2	
Drawing	2	2					
Graduation Thesis	10					10	
Total of Required Credits	82	8	8	18	25	23	
Elective Subjects	Applied Mathematics Exercise	1				1	
	Power Network System Engineering	1					1
	Nuclear Power Engineering	1					1
	Image and Speech Information Engineering	1					1
	Applied Electrical Engineering	1					1
	Introduction to Electromagnetic Waves	1					1
	Sequential Control	1					1
	Opto-electronics	1					1
	Laws & Regulations of Electrical Power Industry	1					1
	Radio Law	1					1
	Design of Electrical Machine	1					1
	Design of Electronic Circuit	1					1
	Subtotal	12				1	11
	Minimum Credit Requirement	6					6
	Total of Offered Credits of Specialized Subjects	94	8	8	18	26	34
	Total of Required Credits of Specialized Subjects	88	8	8	18	54	
Total of Required of General Subjects	77	26	26	16	7	2	
Total of Offered Credits	177	34	34	34	36	39	
Total of Required Credits	167	34	34	34	65		