

STUDY PLAN

Electrical Engineering

FIRST YEAR

First Semester

Code	Subjects	Credits
ELE 1001	Communicative English I	3 (2-3-6)
BG 1204	Calculus I	3 (3-0-6)
BG 1211	Physics I	3 (3-0-6)
BG 1212	Physics Laboratory I	1 (0-3-2)
BG 1221	Computer Programming	3 (3-0-6)
IE 1110	Engineering Materials	3 (3-0-6)
ME 1114	Engineering Workshop	2 (2-0-4)

Students select 1 from the following 2 (2-0-4)
3 courses:

GE 1410	Thai for Professional Communication (for Thai students)	
GE 1411	Thai Language for Multicultural Communication (for non-Thai students)	
GE 1412	Introductory Thai Usage (for Thai students from international program)	
Total		20 (16-10-38)

Second Semester

Code	Subjects	Credits
ELE 1002	Communicative English II	3 (2-3-6)
BG 1205	Calculus II	3 (3-0-6)
BG 1213	Physics II	3 (3-0-6)
BG 1214	Physics Laboratory II	1 (0-3-2)
ME 1113	Engineering Drawing	3 (2-3-6)
	Free Elective Course	3 (3-0-6)
Total		16 (13-9-32)

SECOND YEAR

First Semester

Code	Subjects	Credits
ELE 2000	Academic English	3 (2-3-6)
BBA 1004	Essential Marketing for Entrepreneurs	2 (2-0-4)
BG 0008	General Chemistry Laboratory	1 (0-3-2)
BG 1108	General Chemistry	3 (3-0-6)
BG 2207	Engineering Mathematics	3 (3-0-6)
EE 2201	Electric Circuits	3 (3-0-6)
EE 2202	Electric Circuits Laboratory	1 (0-3-2)
EE 2605	Engineering Electronics	3 (3-0-6)
EE 2606	Engineering Electronics Laboratory	1 (0-3-2)
Total		20 (16-12-40)

Second Semester

Code	Subjects	Credits
ELE 2001	Advanced Academic English	3 (2-3-6)
BBA 1005	Essential Finance for Entrepreneurs	2 (2-0-4)
BG 2212	Applied Statistics	3 (3-0-6)
CE 2704	Digital Logic Design	3 (3-0-6)
CE 2705	Digital Logic Design Laboratory	1 (0-3-2)
EE 2410	Electrical Machines System	3 (3-0-6)
EE 2411	Electrical Machines System Laboratory	1 (0-3-2)
ME 2211	Engineering Mechanics I	3 (3-0-6)
Total		19 (16-9-38)

THIRD YEAR

First Semester

Code	Subjects	Credits
BBA 1006	Essential Economics for Entrepreneurs	2 (2-0-4)
CE 4224	Telecommunication Network Laboratory	1 (0-3-2)
EE 3301	Electromagnetic Fields	3 (3-0-6)
EE 3310	Signals, Systems, and Communications	3 (3-0-6)
EE 3606	Electrical Instruments and Measurements	3 (3-0-6)
EE 3705	Microprocessors & Microcontrollers	3 (3-0-6)
GE 2202	Ethics	3 (3-0-6)
Total		18 (17-3-36)

Second Semester

Code	Subjects	Credits
BBA 1007	Data Analytics for Entrepreneurs	3 (2-2-5)
EE 3406	Control Systems	3 (3-0-6)
EE 4401	Electric Drive	3 (3-0-6)
EE 4518	Electrical Power Generation, Transmission and Distribution	3 (3-0-6)
GE 1303	Science for Sustainable Future	2 (2-0-4)
GE 2110	Human Civilizations and Global Citizens	2 (2-0-4)
Total		16 (15-2-31)

FORTH YEAR

First Semester

Code	Subjects	Credits
EE 4501	Power System Analysis	3 (3-0-6)
EE 4503	Electrical Systems Design	3 (3-0-6)
EE 4506	High Voltage Engineering	3 (3-0-6)
EE 4511	Renewable Energy	3 (3-0-6)
EE 4901	Electrical and Computer Engineering Project I	1 (0-3-2)
	Free Elective Course	3 (3-0-6)
Total		16 (15-3-32)

Second Semester

Code	Subjects	Credits
EE 4505	Power System Protection	3 (3-0-6)
EE 4512	Smart Grid	3 (3-0-6)
EE 4705	Power Electronics	3 (3-0-6)
EE 4706	Power Electronics Laboratory	1 (0-3-2)
EE 4902	Electrical and Computer Engineering Project II	2 (0-6-3)
	Major Elective Course	3 (3-0-6)
Total		15 (12-9-29)