



BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
(based on CMO No. 88 s. 2017)

FIRST YEAR

First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
Math 111	Calculus 1	5			ES 121	Computer Programming		3	1		
ES 111	Computer – Aided Drafting		3	1	Math 121	Calculus 2	5		5	Math 111	
GE – MM	Mathematics in the Modern World	3		3	Phys 121	Physics for Electrical Engineers	3		3	Phys 122	
GE – ST	Science, Technology & Society	3		3	Phys 122	Physics for Engineers	3	3	4	Math 121	
Chem 111	Chemistry for Engineers	3	3	4	GE – US	Understanding the Self	3		3		
FIL 1	Kontekstwalisadong Komunikasyon sa Filipino	3		3	GE – CW	Contemporary World	3		3		
PE 11	Movement Enhancement (ME)	2		2	ES 122	Engineering Drawing & Plans		3	1		
NSTP 1	National Service Training Program 1	3		3	PE 12	Fitness Exercise (FE)	2		2	PE 11	
TOTAL			24		NSTP 2	National Service Training Program 2	3		3	NSTP 1	
					TOTAL			25			

SECOND YEAR

First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
EE 211	Electrical Circuits 1	3	3	4	EE 221	Electrical Circuits 2	3	3	4	EE 211	
Math 211	Differential Equations	3		3	EE 222	Electronic Circuits: Devices & Analysis	3	3	4	EE 211	
ES 212	Engineering Mechanics	5		5	EE 223	Advanced Engineering Math for EE	3		3	Math 211	
FIL 2	Filipino sa Iba't Ibang Disiplina	3		3	ES 221	Fundamentals of Deformable Bodies	2		2	ES 212	
GE – PC	Purposive Communication	3		3	Math 221	Engineering Data Analysis	3		3	Math 111	
ES 211	Environmental Science & Engineering	3		3	ES 222	Electromagnetics	3		3	Phys 121 & 122	
GE – PH	Readings in Philippine History	3		3	ES 223	Basic Thermodynamics	2		2	Phys 122	
PE 21	Physical Activities Towards Health & Fitness (PATH-Fit) 1 (<i>Dance, Sports, Outdoor & Adventure Activities</i>)	2		2	PE 22	Physical Activities Towards Health & Fitness (PATH-Fit) 2 (<i>Dance, Sports, Outdoor & Adventure Activities</i>)	2		2	PE 21	
TOTAL			26		GE – AA	Art Appreciation	3		3		
					TOTAL			26			

THIRD YEAR

First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
EE 311	Electrical Machines 1	2	3	3	EE 321	Electrical Machines 2	3	3	4	EE 311	
EE 312	Numerical Methods & Analysis	2	3	3	EE 322	Research Methods		3	1	Math 221	
ECE 311	Logic Circuits & Switching Theory	3	3	4	EE 323	Electrical Apparatus & Devices	2	3	3	EE 221	
ECE 312	Industrial Electronics	3	3	4	EE 324	Feedback Control Systems	2	3	3	EE 223 & 222	
ECE 313	Fundamentals of Electronic Communications	3		3	EE 325	EE Laws, Codes & Professional Ethics	2		2	GE-E	
ES 311	Engineering Economics	3		3	CpE 323	Microprocessor Systems	3	3	4	ECE 311	
GE – E	Ethics	3		3	ES 321	Technopreneurship	3		3		
LIT 1	Poetry	3		3	ES 323	Basic Occupational Safety & Health	3		3		
TOTAL			26		ES 322	Fluid Mechanics	2		2	Phys 122	
					TOTAL			25			

SUMMER

Course No.	Descriptive Title	Units			Pre-requisite/Co-requisite
		LEC	LAB		
EE 400	On-the-Job Training (240 hours)	2		2	4 th Year Standing
TOTAL			2		

FOURTH YEAR

First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
EE 419	Industrial Wiring & Motor Controls	3	3	1	EE 426	Power System Analysis	3	3	4	EE 412, EE417	
EE 411	Electrical Systems & Illumination Engineering Design	3	6	5	EE 427	Distribution Systems & Substation Design	2	3	3	EE 416	
EE 413	Instrumentation & Control	2	3	3	EE 421	EE Design Project II		3	1	EE414	
EE 412	Electrical Transmission & Distribution Systems	3		3	EE 425	EE Elective 2: Power Systems: Distribution System & Supply	3		3	EE 418	
EE 414	EE Design Project I		3	1	EE 422	Review II		3	1	4 th Year Standing	
EE 415	Management of Engineering Projects	2		2	ES 424	Fundamentals of Power Plant Engineering Design	2	3	2	EE 422	
EE 416	Review I		3	1	EE 423	Seminars/Colloquia		3	1	4 th Year Standing	
EE 417	Electrical Standards & Practices		3	1	ES 422	Material Science & Engineering	2		2	Chem 111	
EE 418	EE Elective 1: Power Systems – Generation & Transmission	3		3	RIZAL	Rizal's Life & Works	3		3		
TOTAL			20		TOTAL			21			