



BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
CURRICULUM PROGRAM OF STUDY
Effective SY 2018-2019*

Name of Student: _____ Student ID No: _____

Grade	Course Code	Course Description	Unit/s	Pre-requisite	Grade	Course Code	Course Description	Unit/s	Pre-requisite
FIRST YEAR									
FIRST SEMESTER					SECOND SEMESTER				
	GE-UTS	Understanding the Self	3			GE-Elect: ES	Environmental Science	3	
	GE-STC	Science, Technology and Society	3			GE-ET	Ethics	3	
	GE-PC	Purposive Communication	3			GE-LWR	Life and Works of Rizal	3	GE-PH
	GE-PH	Readings in Philippine History	3			GE-AA	Art Appreciation	3	
	Math 11/L	Engineering Calculus 1	3/1			Math 12/L	Engineering Calculus 2	3/1	Math 11/L
	Chem 11/L	Chemistry for Engineers	3/1			Phy 11/L	Physics for Engineers (Calculus Based)	3/1	Math 11/L C - Math 12/L
	EE 11	Orientation to EE	1			ICT 11/L	Computer Fundamentals and Programming	0/1	
	PATH Fit 1	Movement Enhancement (Basic Karate)	2			PATH Fit 2	Fitness Exercises	2	PATH Fit 1
	NSTP 1	CWTS 1/ROTC 1	3			NSTP 2	CWTS/ROTC 2	3	NSTP 1
	Total		26			Total		26	
SUMMER									
	GE-MMW	Mathematics in the Modern World	3			GE-Elect: GS	Gender and Society	3	
	GE-PS	Palawan Studies	3			Total		9	
SECOND YEAR									
FIRST SEMESTER					SECOND SEMESTER				
	AS 1 EE	Environmental Engineering	2	GE-Elect: ES		GE-Elect: EM	The Entrepreneurial Mind	3	
	AS 2EE	Material Science and Engineering	2	Chem 11/L		BES 3EE	Fundamentals of Deformable Bodies	3	Mech 21
	GE-CW	The Contemporary World	3			Math 23EE	Engineering Mathematics for EE	3	Math 21
	ED 2/L	Computer Aided Drafting	0/1	ICT 11/L		Math 22	Engineering Data Analysis	3	Math 12/L
	Math 21	Differential Equations	3	Math 12/L		EE 23/L	Electrical Circuits 2	3/1	EE 21/L
	Mech 21	Engineering Mechanics	3	Phy11/L, Math 12/L		EE 24	Professional Elective 1	3	EE 21/L
	ME 21	Thermodynamics 1	3	Phy11/L, Math 12/L		ECE 21/L	Electronic Circuits: Devices and Analysis	3/1	EE 21/L
	EE 21/L	Electrical Circuits 1	3/1	Phy11/L, Math 12/L		PATH Fit 4	Recreation	2	PATH Fit 1
	EE 22	Electromagnetics	2	Phy11/L, Math 12/L					
	PATH Fit 3	Dance and Sports (Combative Sports: Self-Defense & Arnis)	2	PATH Fit 1					
	Total		25			Total		25	
THIRD YEAR									
FIRST SEMESTER					SECOND SEMESTER				
	Math 24/L	Numerical Methods and Analysis	2/1	Math 23EE		BOSH	Basic Occupational Safety and Health	3	3 rd Year Standing
	BES 4	Fluid Mechanics	2	BES 3EE		BES 7	Technopreneurship 101	3	GE-Elect: EM
	BES 5	Engineering Economics	3	Math 12/L		EE 32/L	Electrical Machines 2	3/1	EE 31/L
	BES 6EE	Management of Engineering Projects	2	Co-req BES 5		EE 33/L	Electrical Apparatus and Devices	2/1	EE 23/L
	EE 31/L	Electrical Machines 1	2/1	EE 212, EE 23/L		EE 34	EE Laws, Codes and Professional Ethics	2	3 rd Year Standing
	Res 01	Research Methods	0/1	3 rd Year Standing		EE 35	Professional Elective 2	3	EE 24
	ECE 31	Logic Circuits and Switching Theory	2	ECE 21/L		EE 36/L	Distribution Systems and Substation Design	2/1	EE 31/L
	ECE 32/L	Industrial Electronics	3/1	ECE 21/L		ECE 34	Microprocessor System	2	ECE 31
	ECE 33	Fundamentals of Electronic Communications	3	ECE 21/L		ECE 35	Feedback Control System	2	Math 24/L, ECE 23/L
	Total		23			Total		25	
SUMMER									
	OJT	On the Job Training (360 hrs)	0/2						
	Total		2						
FOURTH YEAR									
FIRST SEMESTER					SECOND SEMESTER				
	EE 41/L	Electrical Systems and Illumination	3/2	EE 32/L, EE 33/L		EE 46/L	Seminars/Colloquia and Field Trips	0/1	4th Year standing
	EE 42/L	Electrical Standards and Practices	0/1	EE 34		EEP 1/L	Electrical Engineering Problems 1	0/1	4th Year standing, provided that student passed all Math courses
	Res 02/L	Research Project or Capstone Design	0/1	Res 01/L		EEP 2/L	Electrical Engineering Problems 2	0/1	4th Year Standing, provided that the student passed all Math courses
	EE 43/L	Instrumentation and Control	2/1	ECE 35		EEP 3/L	Electrical Engineering Problems 3	0/1	4th Year Standing, provided that the student passed all Math courses
	EE 44/L	Fundamentals of Power Plant Engineering Design	0/1	EE 33/L		Total		4	
	EE 45/L	Power Systems Analysis	3/1	EE 36/L					
	Total		15						Total no. of units: 180

Note: The student can take the OJT if he/she passed 85% of the subjects in Third Year (40 units)

Professional Electives:

1. Patent Law and Intellectual Property Rights
2. Renewable Energy for Sustainable Development
3. Electricity Market & Power System Economics

4. Power System Protection 1 & 2
5. Power Systems – generation and Transmission
6. Power Systems – Distribution System and Supply

*BOR Resolution No. 62, s. 2019
Dated 3 July 2019