

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING							
EFFECTIVE ACADEMIC YEAR 2018-2019							
(Updated Program of Study as of Academic Year 2020-2021)							
COURSE CODE	COURSE TITLE	HOURS		UNITS	PRE-REQUISITE	CO-REQUISITE	
		LEC	LAB				
FIRST YEAR							
FIRST SEMESTER		15	9	23			
EE181	EE Orientation Course	0	3	1			
MATH137	Engineering Calculus 1	3	0	3			
CHEM131	Chemistry for Engineers, lec	3	0	3		CHEM181	
CHEM181	Chemistry for Engineers, lab	0	3	1		CHEM131	
ES083	Computer-Aided Design and Drafting	0	3	1			
STS031	Science, Technology and Society	3	0	3			
SOCSCI031	Readings in Philippine History	3	0	3			
PSYCH031	Understanding the Self	3	0	3			
PE103	Movement Enhancement			2			
NSTP111	National Service Training Program 1			3			
SECOND SEMESTER		15	9	23			
EE182	Electrical Technology	0	3	1			
MATH138	Engineering Calculus 2	3	0	3	MATH137		
PHYS132	Physics for Engineers, lec	3	0	3	MATH137	PHYS182, MATH138	
PHYS182	Physics for Engineers, lab	0	3	1	MATH137	PHYS132, MATH138	
ES084	Computer Programming 1	0	3	1			
MATH031	Mathematics in the Modern World	3	0	3			
ENGL031	Purposive Communication	3	0	3			
HUM031	Art Appreciation	3	0	3			
PE104	Fitness Exercises			2	PE103		
NSTP112	National Service Training Program 2			3	NSTP111		
SECOND YEAR							
FIRST SEMESTER		21	6	25			
EE231	Electrical Circuits 1, lec	3	0	3	PHYS132, MATH138	EE281	
EE281	Electrical Circuits 1, lab	0	3	1	PHYS132, MATH138	EE231	
MATH237	Differential Equations	3	0	3	MATH138		
ES031	Engineering Data Analysis	3	0	3	MATH137		
ES033	Engineering Mechanics	3	0	3	PHYS132, PHYS182		
ES085	Computer Programming 2	0	3	1	ES084		
ME233	Basic Thermodynamics	3	0	3	PHYS132, PHYS182		
GE-EE1	General Education Elective 1	3	0	3			
SOCSCI032	The Contemporary World	3	0	3			
PE205	Physical Activities Towards Health and Fitness I			2	PE103		
SECOND SEMESTER		19	6	23			
EE232	Electrical Circuits 2, lec	3	0	3	EE231, EE281	EE282	
EE282	Electrical Circuits 2, lab	0	3	1	EE231, EE281	EE232	
EE234	Engineering Mathematics for EE	3	0	3	MATH237		
EE236	Electromagnetics	2	0	2	PHYS132, MATH138		
ECE252	Electronic Circuits: Devices and Analysis, lec	3	0	3	EE231, EE281	ECE202	

ECE202	Electronic Circuits: Devices and Analysis, lab	0	3	1	EE231, EE281	ECE252
ES035	Fundamentals of Deformable Bodies	2	0	2	ES033	
RIZAL031	The Life and Works of Rizal	3	0	3		
GE-EE2	General Education Elective 2	3	0	3		
PE206	Physical Activities Towards Health and Fitness II			2	PE103	
<b>SUMMER TERM</b>		<b>6</b>	<b>0</b>	<b>6</b>		
EE330	Advanced Electrical Circuits	3	0	3	EE232, EE282	
EE350	Basic Occupational Safety and Health for EE	3	0	3		
<b>THIRD YEAR</b>						
<b>FIRST SEMESTER</b>		<b>24</b>	<b>6</b>	<b>26</b>		
EE351	Electrical Machines 1, lec	2	0	2	EE232, EE282, EE236	EE381
EE381	Electrical Machines 1, lab	0	3	1	EE232, EE282, EE236	EE351
EE353	Feedback Control Systems	2	0	2	EE234, ECE252	
EE361	Numerical Methods and Analysis	2	3	3	EE234	
ECE335A	Logic Circuits and Switching Theory	2	0	2	ECE252	
ECE351	Fundamentals of Electronic Communications	3	0	3	ECE252	
ME331A	Fluid Mechanics	2	0	2	PHYS132, PHYS182	
ES032	Engineering Economics	3	0	3	ES031	
ES037A	Materials Science and Engineering	2	0	2	CHEM131, ES035	
PHILO031	Ethics	3	0	3		
GE-EE3	General Education Elective 3	3	0	3		
<b>SECOND SEMESTER</b>		<b>15</b>	<b>18</b>	<b>21</b>		
EE352	Electrical Machines 2, lec	3	0	3	EE351, EE381	EE382
EE382	Electrical Machines 2, lab	0	3	1	EE351, EE381	EE352
EE354	Electrical Apparatus and Devices, lec	3	0	3	EE232, EE282	EE384
EE384	Electrical Apparatus and Devices, lab	0	3	1	EE232, EE282	EE354
EE356	EE Laws, Codes and Professional Ethics	2	0	2	PHILO013	
EE386	Research Methods	0	3	1	ES031	
EECC382	EE Comprehensive Course 1	0	3	1	EE234	
ECE356	Industrial Electronics, lec	3	0	3	ECE252, ECE202	ECE304
ECE306	Industrial Electronics, lab	0	3	1	ECE252, ECE202	ECE352
CPE366A	Microprocessor Systems	2	3	3	ECE335A	
ES036A	Environmental Science and Engineering	2	0	2	CHEM131	
<b>SUMMER TERM</b>		<b>0</b>	<b>6</b>	<b>2</b>		
EE480	On the Job Training (240 Hours)	0	6	2	4th Year Standing	
<b>FOURTH YEAR</b>						
<b>FIRST SEMESTER</b>		<b>13</b>	<b>24</b>	<b>21</b>		
EE461	Electrical Systems Design	2	3	3	EE352, EE382	
EE463	Illumination Engineering	1	3	2	4th Year Standing	
EE465	Distribution Systems and Substation Design	2	3	3	EE354, EE384	EE461
EE467	Instrumentation and Control	2	3	3	EE353	
EE481	Research Project or Capstone Design Project 1	0	3	1	EE386	
EE483	Electrical Standards and Practices	0	3	1	EE356	
EETE1	EE Track Elective 1	3	3	4	4th Year Standing	
EECC481	EE Comprehensive Course 2	0	3	1	EECC382	
ES034	Engineering Management	3	0	3		

SECOND SEMESTER		13	21	20		
EE452	Management of Engineering Projects	2	0	2	ES032	
EE462	Power System Analysis	3	3	4	EE465, EE483	
EE464	Power System Protection	2	3	3	EE465	EE462
EE482	Research Project or Capstone Design Project 2	0	3	1	EE481	
EE484	Fundamentals of Power Plant Engineering Design	0	3	1	EE483	EE462
EE486	Seminars/Colloquia	0	3	1	4th year standing	
EETE2	EE Track Elective 2	3	3	4	EETE1	
EECC482	EE Comprehensive Course 3	0	3	1	EECC481	
ES038	Technopreneurship	3	0	3	ES034	
GRAND TOTAL		141	105	190		
LIST OF ELECTIVES						
Machine Automation and Process Control Track						
EETE461	EE Track Elective 1: Electro-pneumatics with PLC	3	3	4		
EETE462	EE Track Elective 2: Instrumentation and Control of Electrical Machines	3	3	4	EETE461	
Advanced Power System Design and Maintenance Track						
EETE463	EE Track Elective 1 : Industrial and Commercial Power System Design	3	3	4		
EETE464	EE Track Elective 2: Power System Element Testing and Maintenace	3	3	4	EETE463	
RECOMMENDED GENERAL EDUCATION ELECTIVES						
ENGL014	Technical Writing/ Communication	3	0	3		
SSP031	Creative Thinking Tools	3	0	3		
SSP032	Sustainability Development and Global Citizenship	3	0	3		