



BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
 Effective School Year 2018-2019 (v3)

FIRST YEAR											
1 st Semester						2 nd Semester					
Subject Code & Title	No. of Hours		Units	Pre-requisites	Subject Code & Title	No. of Hours		Units	Pre-requisites		
	Lec	Lab				Lec	Lab				
EM 11 - Calculus 1 (Differential Calculus)	3	0	3		Draw 12R – Computer-Aided Drafting (CAD)	0	3	1	Draw 11R		
EM 13 - Algebra and Trigonometry for Engineering	4	0	4		EM 14 – Advanced Algebra	3	0	3	EM 11		
Draw 11R – Engineering Drawing and Plans	0	3	1		EM 18 - Calculus 2 (Integral Calculus)	4	0	4	EM 11, EM 13		
Chem 14 – Chemistry for Engineers	3	3	4		CHS 2 – Reading and Interpreting the Christian Scriptures	3	0	3	CHS 1		
GE 2 – Readings in Philippine History	3	0	3		GE 1 – Understanding the Self	3	0	3			
GE 3 – The Contemporary World	3	0	3		GE 6 – Art Appreciation	3	0	3			
CHS 1 – Reading and Interpreting the Hebrew Scriptures	3	0	3		Phys 1 - Physics for Engineers	3	3	4	EM 11		
PE 1 – Physical Fitness and Swimming	2	0	2		PE 2 – Physical Education	2	0	2	PE 1		
NSTP 1 - National Service Training Program	3	0	3		NSTP 2 - National Service Training Program	3	0	3	NSTP 1		
PEP 1 - Personality Enhancement Program	-	-	-		PEP 2 - Personality Enhancement Program	-	-	-			
Total	24	6	26		Total	24	6	26			
SECOND YEAR											
CFP 11R – Computer Programming	0	6	2		EE 22 – Electrical Circuits 2 (AC Circuits)	3	3	4	EE 21EE		
EE 21EE – Electrical Circuits 1 (DC Circuits)	3	3	4	EM 18,EM 13,Phys 1	EE 24 EE - Electronic Circuits: Devices and Analysis	3	3	4	EE 21EE		
EM 21 – Differential Equations	3	0	3	EM 18	EE 26 – Information Technology	3	0	3	EE 21EE, CFP 11R		
ES 23R – Statics of Rigid Bodies	3	0	3	EM 18, Phys 1	EE 28 – Electromagnetics	2	0	2	EM 21, Phys 1		
MEE 21 – Basic Thermodynamics	2	0	2	Phys 1	EM 24 – Engineering Data Analysis	3	0	3	EM 21		
GE 4 – Mathematics in the Modern World	3	0	3		EME 26 – Engineering Mathematics for EE	3	0	3	EM 18, EM 21		
GE 7 – Science, Technology and Society	3	0	3		ESE 26 – Fluid Mechanics	2	0	2	Phys 1		
GE 11 – Climate Change: Effects on People and Ecosystems	3	0	3		ESE 33 – Fundamentals of Deformable Bodies	2	0	2	ES 23R, EM 21		
GE 12/CHS 3 – Ethics of the Christian Faith	3	0	3	CHS 2	GE 10A –Whole Person Education	3	0	3			
PE 3 – Physical Education	2	0	2	PE 1	PE 4 – Physical Education	2	0	2	PE 1		
Total	25	9	28		Total	26	6	28			
THIRD YEAR											
EE 31 – Logic Circuits and Switching Theory	2	3	3	EE 24EE	EE 30 – Feedback Control Systems	3	3	4	EE 31, EME 26, EE 22, EE 24EE		
EE 33 – Industrial Electronics	3	3	4	EE 24EE	EE 32 – Electrical Circuits 3(Electrical Faults)	3	3	4	EE 22, EE 24EE		
EE 35 – Fundamentals of Electronic Communications	3	0	3	EE 24EE	EE 34 – Microprocessor Systems	2	3	3	EE 31		
EE 37 – Electrical Machines 1	2	3	3	EE 22 & EE 28	EE 36 – Electrical Apparatus and Devices	2	3	3	EE 22		
EM 31 – Numerical Methods and Analysis	2	3	3	EM 24, EE 22, EME 26	EE 38 – Electrical Machines 2	3	3	4	EE 37		
ES 21 – Engineering Economics	3	0	3	EM 24	ES 25R – Environmental Science and Engineering	3	0	3	Chem 14		
GE 8 – Ethics	3	0	3		EEL 32 – EE Laws, Codes and Professional Ethics	2	0	2	EE 37, GE 8		
GE 9 – The Life and Works of Jose Rizal	3	0	3		EES 32 – Basic Occupational Health and Safety	3	0	3	EE 37, GE 8		
Total	21	12	25		Total	21	15	26			
SUMMER											
EE 300 – On-The-Job Training (240 Hrs)	2	3	3	Passed all 3 rd yr. EE major subjects							
FOURTH YEAR											
EE 41 – Electrical Standards and Practices	0	3	1	EEL 32	EE 40 – Power Systems Analysis	3	6	5	EE 41, EE 51, CFP 11R		
EE 43 – Electrical Systems and Illumination Engineering Design	3	6	5	EE 38	EE 42 – Research Project or Capstone Design Project	0	6	2	EE 47		
EE 45 – Machine Automation and Process Control (Elec.1)	2	3	3	EE 22, EE 31	EE 44 – Special Studies on Renewable Energy Resources (Elec 2)	3	0	3	EE 45		
EE 47 – Research Methods	1	3	2	EE 32, EE 34, EE 38, EM 24	EE 46 – Power System Protection (Elec.3)	3	0	3	EE 51		
EE 49 – Instrumentation and Control	3	3	4	EE 30	EE 48 – Seminars/Colloquia	0	3	1	Graduating		
EE 51 - Electrical Transients	3	0	3	EE 32	EE 50 – Distribution System and Substation Design	2	3	3	EE 32, EE 36, EE 38, EE 51		
EE 53 - Materials Science and Engineering	2	0	2	EE 36	ES 28 – Technopreneurship	3	0	3	ES 21		
ES 40R– Engineering Management	2	0	2	ES 21	GE 5 – Purposive Communication	3	0	3			
Total	16	18	22		Total	17	18	23			

Total units: 207

Revision approved by Academic Council on May 15, 2019.

*Students are required to obtain a minimum grade of 1.8 in all Eng'g & Phys subjects for progression.