



BACHELOR OF SCIENCE IN COMPUTER 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		
CpE 1 - Computer Engineering as a Discipline	1	0	1		CpE 12 - Object Oriented Programming	0	6	2	CpE 11
CpE 11 - Programming Logic and Design	0	6	2		Draw 11R - Engineering Drawing and Plans	0	3	1	
EM 11 - Calculus 1 (Differential Calculus)	3	0	3		EM 16 - Discrete Mathematics	3	0	3	EM 11
EM 13 - Algebra and Trigonometry for Engineering	4	0	4		EM 18 - Calculus 2 (Integral Calculus)	4	0	4	EM 11, EM 13
GE 1 - Understanding the Self	3	0	3		Chem 14 - Chemistry for Engineers	3	3	4	
GE 2 - Readings in Philippine History	3	0	3		GE 4 - Mathematics for the Modern World	3	0	3	
GE 7 - Science, Technology and Society	3	0	3		Phys 1 - Physics for Engineers	3	3	4	EM 11
GE 9 - The Life and Works of Jose Rizal	3	0	3		PE 2 - Physical Education	2	0	2	PE 1
PE 1 - Physical Fitness and Swimming	2	0	2		NSTP 2 - National Service Training Program	3	0	3	NSTP 1
NSTP 1 - National Service Training Program	3	0	3		PEP 2 - Personality Enhancement Program	-	-	-	
PEP 1 - Personality Enhancement Program	-	-	-						
Total	25	6	27		Total	21	12	26	
SECOND YEAR									
CpE 21 - Data Structures and Algorithm	0	6	2	CpE 12	CpE 22 - Software Design	3	3	4	CpE 21
DRAW 12R - Computer-Aided Drafting (CAD)	0	3	1	Draw 11R	EE 24CpE - Fundamentals of Electronic Circuits	3	6	5	EE 21CpE
EE 21CpE - Fundamentals of Electrical Circuits	3	6	5	Phys 1	EM 24 - Engineering Data Analysis	3	0	3	EM 21
EM 21 - Differential Equations	3	0	3	EM 18	EM 31 - Numerical Methods	3	0	3	EM 21
ES 21 - Engineering Economics	3	0	3	EM 18	EMCp 26 - Engineering Mathematics for CpE	3	0	3	EM 18, EM 21
ES 23R - Statics of Rigid Bodies	3	0	3	EM 18, Phys 1	GE 3 - The Contemporary World	3	0	3	
ES 25R - Environmental Science and Engineering	3	0	3	Chem 14	GE 5 - Purposive Communication	3	0	3	
GE 10A - Whole Person Education	3	0	3		PE 4 - Physical Education	2	0	2	PE 1
CHS 1 - Reading and Interpreting the Hebrew Scriptures	3	0	3						
PE 3 - Physical Education	2	0	2	PE 1					
Total	23	15	28		Total	23	9	26	
THIRD YEAR									
CpE 31 - Logic Circuits and Design	3	3	4	EE 24	CpE 30 - CpE Laws and Professional Practice	2	0	2	CpE 43
CpE 33 - Operating Systems	3	0	3	CpE 21	CpE 32 - Computer Networks and Security	3	3	4	CpE 35
CpE 35 - Data and Digital Communications	3	0	3	EE 24	CpE 34 - Microprocessors	3	3	4	CpE 31
CpE 37 - Introduction to HDL	0	3	1	CpE 11, EE 24	CpE 36 - Methods of Research	2	0	2	EM 24, CpE 31, GE 5,
CpE 39 - Fundamentals of Mixed Signals and Sensors	3	0	3	EE 24	CpE 38 - Software Development 1 (Elective 1)	3	0	3	CpE 22
CpE 41 - Computer Engineering Drafting and Design	0	3	1	EE 24	EES 34 - Basic Occupational Health and Safety	3	0	3	CpE 33
CpE 43 - Engineering Ethics	3	0	3		GE 6 - Art Appreciation	3	0	3	
EES 31 - Feedback and Control Systems	3	0	3	EM 31, EE 21	GE 8 - Ethics	3	0	3	
GE 11 - Climate Change: Effects on People and Ecosystems	3	0	3						
Total	21	9	24		Total	22	6	24	
SUMMER									
CpE 300 - On the Job Training (OJT)	2	3	3	Must pass all 3 rd year Computer Engineering Subjects					
FOURTH YEAR									
CpE 45 - Embedded Systems	3	3	4	CpE 34	CpE 40 - Seminars and Fieldtrips	0	3	1	CpE 36
CpE 47 - Computer Architecture and Organization	3	3	4	CpE 34	CpE 42 - CpE Practice and Design 2	0	6	2	CpE 51
CpE 49 - Software Development 2 (Elective 2)	3	0	3	CpE 38	CpE 44 - Emerging Technologies in CpE	3	0	3	CpE 45
CpE 51 - CpE Practice and Design 1	0	3	1	CpE 34, CpE 36	CpE 46 - System and Network Administration 1 (Elective 3)	3	0	3	CpE 49
CpE 53 - Digital Signal Processing	3	3	4	EES 31	ES 28 - Technopreneurship	3	0	3	EM 21
CHS 2 - Reading and Interpreting the Christian Scriptures	3	0	3	CHS 1	ES 40R - Engineering Management	2	0	2	ES 21
					GE 12/CHS 3 - Ethics of the Christian Faith	3	0	3	CHS 2
Total	15	12	19		Total	14	9	17	

Total units: 194

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.**