

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
(New Curriculum effective AY 2018-2019)

FIRST YEAR

FIRST SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
Draw 101	Engineering Drawing	3	0	2	
GEC Elect 1	Gender & Society	3	0	3	
GE 101	Understanding the Self	3	0	3	
GE 102	Mathematics in the Modern World	3	0	3	
Math Prep	Pre-Calculus (Algebra & Trigo)	3	0	3	
PE 101	Physical Fitness	2	0	2	
NSTP 101	Civic Work & Training Service/ ROTC/LTS 1	3	0	3	
ARAB 101	Arabic 1	2	0	2	
TOTAL UNITS				21	

SECOND SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
GE 108	Science & Technology and Society	3	0	3	
CS Math	Discrete Mathematics	3	0	3	
GE 100	Purposive Communication	3	0	3	
GE 105	Readings in the Philippine History	3	0	3	
GE 107	Ethics	3	0	3	
PE 102	Fundamentals of Rhythmic Activities	2	0	2	PE 101
NSTP 121	Civic Work & Training Service/ ROTC/LTS II	3	0	3	NSTP 101
ARAB 122	Arabic 2	2	0	2	Arabic 101
TOTAL UNITS				22	

SECOND YEAR

FIRST SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
Cal 211	Differential Calculus I	3	0	3	Math Prep
Chem 211	Chemistry for Engineers	2	2	4	
CpE 201	Fundamentals of Electrical Circuits	1	2	3	Cal 211, Math Prep
GE 104	Life & Work of Rizal	3	0	3	
GE 106	The Contemporary World	3	0	3	
CpE 211	Computer Engineering as a Discipline	3	0	3	
GEC Elect 2	Living in the IT Era	3	0	3	
PE 203	Individual/ Dual Sports	2	0	2	PE 122
TOTAL UNITS				24	

SECOND SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
Cal 221	Integral Calculus	3	0	3	Cal 211
Phys 211	Physics for Engineers	2	2	4	Cal 211
CpE 221	Fundamentals of Electronic Circuits	1	2	3	CpE 201
Math 226	Eng'g Data Analysis	1	2	3	Cal 211
CpE 222	Programming Logic and Design	1	2	3	CS Math
CAD	Computer Aided Drafting	1	2	2	2 nd Yr Standing
Tech 101	Technopreneurship	3	0	3	2 nd Yr Standing
PE 204	Sports & Games	2	0	2	PE 203
TOTAL UNITS				23	

SUMMER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
CoE 301	Practicum (Min of 200 Hrs)	6	0	4	Third Year Standing

THIRD YEAR

FIRST SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
Math 311	Numerical Methods	3	0	3	Math 225
CpE 311-L1	Computer Engineering Drafting & Design	1	2	3	3 rd Year Standing
CpE 312-L1	Object Oriented Programming	1	2	3	Programming Logic & design
CpE 313-L1	Data Structure and Algorithms	1	2	3	
CpE 314-L1	Introduction to HDL	1	2	2	Programming logic Design Fundl. Of Electronic Circuits
CpE 315	Engineering Economics	3	0	3	
Math 312	Differential Equation	3	0	3	Cal 211
CpE 316	Feedback and Control System	3	0	3	Fundamental Electronic Circuits
TOTAL UNITS				23	

SECOND SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
CpE 321-L2	Data & Digital Communication	1	2	3	CpE 211
CpE 322-L2	Logic Circuits and Design	1	2	3	Fundl. of Electronic Circuits
CpE 323-L2	Computer Networks and Security	1	2	3	Data & Digital Communications
CpE 324	Basic Occupational Health & Safety	3	0	3	3 rd Year Standing
CpE 325	Methods of Research	3	0	3	Eng'g Data Analysis Purposive Comm.
CpE 326	CpE Laws & Professional Practice	3	0	2	3 rd Year Standing
GE 103	Arts Appreciation	3	0	3	
CpE 327	Fundamentals of Mixed Signal and Sensors	3	0	3	Fundl. of Electronic Circuits
TOTAL UNITS				23	

Note: No Student Shall be Allowed to take fourth year professional Course unless he/she has completed the Basic and the Third Year Courses Including PE and NSTP Courses

SUMMER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
CpE 401	Seminar & Fieldtrip	6	0	4	4 th Year Standing

FOURTH YEAR

FIRST SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
CpE 411-L1	Software Design	1	2	3	Data Structure & Algorithm
CpE 412-L1	Microprocessors	1	2	3	Logic Circuits & Design
CpE 413-L1	Emerging Technologies in CpE	3	0	3	4 th Year Standing
CpE 414-L1	CpE Practice and Design	3	0	2	Method of Research
CpE Elec 1	CpE Elective 1(Computer Troubleshooting & Upgrading)	1	2	3	
CpE Elec 2	CpE Elective 2 (Recommended Elective)	1	2	3	
CpE 415-L1	Embedded Systems	1	2	3	
TOTAL UNITS				20	

SECOND SEMESTER

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
CpE 421-L2	CpE Practice & Design	1	2	3	
CpE 422-L2	Operating System	3	0	3	
CpE 423-L2	Digital Signal Processing	1	2	3	Data Structure & Algorithm
CpE 424-L2	Computer Architecture and Organization	1	2	3	
GEC Elect 3	Peace Education	3	0	3	
CpE Elec 3	Cognate/ Elective Course (Recommended Elective)	1	2	3	Microprocessors
TOTAL UNITS				18	

RECOMMENDED ELECTIVES 1,2 & 3

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours	Laboratory Hours	Credit Units	PRE/CO REQUISITE
Elect ME 1	Microelectronics 1	1	2	3	All Major
Elect ME 2	Microelectronics 2	1	2	3	All Major
Elect ME 3	Microelectronics 3	1	2	3	All Major
Elect SD 1	Software Development 1	1	2	3	All Major
Elect SD 2	Software Development 2	1	2	3	All Major
Elect SD 3	Software Development 3	1	2	3	All Major
Elect SNA 1	System & Network Administration 1	1	2	3	All Major
Elect SNA 2	System & Network Administration 2	1	2	3	All Major
Elect SNA 3	System & Network Administration 3	1	2	3	All Major
Elect ML 1	Machine Learning 1	1	2	3	All Major
Elect ML 2	Machine Learning 2	1	2	3	All Major
Elect ML 3	Machine learning 3	1	2	3	All Major
Elect BDA 1	Big Data Analytics 1	1	2	3	All Major
Elect BDA 2	Big Data Analytics 2	1	2	3	All Major
Elect BDA 3	Big Data Analytics 3	1	2	3	All Major
Elect CTU 1	Computer Troubleshooting & Upgrading 1	1	2	3	All Major
Elect CTU 2	Computer Troubleshooting & Upgrading 2	1	2	3	All Major

Prepared by:

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