



2018 CURRICULUM FOR BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING (BSECE)

IMPORTANT : REGISTRATION IN ANY COURSE WITHOUT ALL THE PREREQUISITES, CORRECT SEQUENCE AND AUTHORIZED LOAD SHALL NOT BE GIVEN ANY CREDIT REGARDLESS OF THE GRADE OBTAINED.
EVALUATION IS TENTATIVE AND MAY BE REVISED FOR SOME VALID CAUSES OR REASONS OR IF OMISSIONS AND/OR LACK OF UNITS CREDITED BE DISCOVERED LATER.

Student's Name and Signature

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours Laboratory Hours Credit Units			PREREQUISITE(S)
		Lecture Hours	Laboratory Hours	Credit Units	
FIRST YEAR, FIRST SEMESTER (20 UNITS)					
MATH 018	Calculus 1	3	0	3	
CHM 001	Chemistry for Engineers	3	3	4	
CPE 105B	Computer Fundamentals and Programming	0	6	2	
GEC 001	Understanding the Self	3	0	3	
GEC 004	Mathematics in the Modern World	3	0	3	
GEC 007	Science, Technology and Society	3	0	3	
PE 101	Physical Education 1	2	0	2	
NSTP 001	National Service Training Program 1	(3)	0	(3)	
FIRST YEAR, SECOND SEMESTER (24 UNITS)					
MATH 019	Calculus 2	3	0	3	MATH 018
COE 027	Engineering Data Analysis	3	3	4	MATH 018
PHYS 111A	Calculus-Based Physics 1	3	3	4	MATH 018
PHYS 112	Calculus-Based Physics 2	3	3	4	PHYS 111A (C)
CHM 007A	Materials Science and Engineering	3	0	3	CHM 001
CADD 001	Computer-Aided Drafting and Design	0	3	1	
GEC 008	Ethics	3	0	3	
PE 102	Physical Education 2	2	0	2	PE 101
NSTP 002	National Service Training Program 2	(3)	0	(3)	NSTP 001
SECOND YEAR, FIRST SEMESTER (23 UNITS)					
MATH 021	Differential Equations	3	0	3	MATH 019
MATH 022A	Linear Algebra with MATLAB	2	3	3	MATH 018
ME 304	Engineering Economics	3	0	3	COE 027
EE 200E	Electrical Circuits 1	3	3	4	PHYS 112
ECE 100	Fundamentals of LabVIEW Programming	0	3	1	CPE 105B
ECE 200	ECE Laws, Contracts, Ethics, Standards and Safety	3	0	3	
ECE 201	Electronics 1: Electronic Devices and Circuits	3	3	4	EE 200E (C)
PE 201	Physical Education 3	2	0	2	PE 102
SECOND YEAR, SECOND SEMESTER (26 UNITS)					
ECE 024	Advanced Engineering Mathematics for ECE	3	3	4	MATH 021
EE 202	Electrical Circuits 2	3	3	4	EE 200E, MATH 021
ECE 202	Electronics 2: Electronic Circuit Analysis and Design	3	3	4	ECE 201
ECE 203	Digital Electronics 1: Logic Circuits and Switching Theory	3	3	4	ECE 201
ECE 204	Electromagnetics for ECE	4	0	4	MATH 021
ECE 205	Communications 1: Principles of Communication Systems	3	3	4	ECE 202 (C)
PE 202	Physical Education 4	2	0	2	PE 201
THIRD YEAR, FIRST SEMESTER (26 UNITS)					
MATH 025A	Discrete Mathematics	3	0	3	MATH 022A
GEC 005	Purposive Communication	3	0	3	
GEE 001B	GE Elective 1 - Gender and Society	3	0	3	
IE 101	Engineering Management	2	0	2	
TECH 101	Introduction to Engineering Entrepreneurship	3	0	3	2nd Year Standing
ECE 305	Electronics 3: Electronic Systems and Design	3	3	4	ECE 202
ECE 306	Communications 2: Modulation and Coding Techniques	3	3	4	ECE 205, COE 027
ECE 307	Signals, Spectra, Signal Processing	3	3	4	ECE 024, COE 027
THIRD YEAR, SECOND SEMESTER (25 UNITS)					
ECE ELEC 1	ECE Elective 1	3	3	4	See track for pre-requisite(s)
ECE 308	Digital Electronics 2: Microprocessor, Microcontroller Systems and Design	3	3	4	ECE 203
ECE 309	Communication 3: Transmission Media and Antenna System and Design	3	3	4	ECE 204, ECE 306
ECE 310	Communication 4: Data Communications	3	3	4	ECE 306
ECE 311	Feedback and Control Systems	3	3	4	ECE 202, EE 202, ECE 024
ECE 312	Methods of Research	3	0	3	GEC 005, COE 027
ECE 313	Integration Course 1 for ECE	2	0	2	ECE 024, MATH 025A
THIRD YEAR, SUMMER (3 UNITS)					
ECE 314	On-the-Job Training for ECE	3	240	3	3rd Year Standing

NO STUDENT SHALL BE ALLOWED TO TAKE FOURTH YEAR PROFESSIONAL COURSES UNLESS HE HAS COMPLETED THE BASIC AND THE THIRD YEAR COURSES INCLUDING PE AND NSTP.

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours			Laboratory Hours			Credit Units			PREREQUISITE(S)
FOURTH YEAR, FIRST SEMESTER (20 UNITS)											
ECE ELEC 2	ECE Elective 2	3	3	4	See track for pre-requisite(s)						
CHM 008B	Environmental Science and Engineering	3	0	3	CHM 001						
GEC 006	Art Appreciation	3	0	3							
GEE 002B	GE Elective 2 - Living in the IT Era	3	0	3	GEE 001B						
ECE 405	ECE Design Project 1	2	3	3	4th Year Standing						
ECE 406	Integration Course 2 for ECE	2	0	2	ECE 313						
ECE 414	Fundamentals of Intellectual Property	1	3	2	ECE 312						
FOURTH YEAR, SECOND SEMESTER (18 UNITS)											
GEC 002	Readings in Philippine History	3	0	3							
GEC 003	The Contemporary World	3	0	3							
GEE 003B	GE Elective 3 - People and the Earth's Ecosystem	3	0	3	GEE 002B						
GEM 001	Life and Works of Rizal	3	0	3							
ECE 407	ECE Design Project 2	1	6	3	ECE 405, Graduating						
ECE 408	Seminars/ Colloquia for ECE	0	3	1	4th Year Standing						
ECE 409	Integration Course 3 for ECE	2	0	2	ECE 406						
ELECTIVE COURSES											
NOTE: A STUDENT MAY CHOOSE ANY OF THE TRACK ELECTIVES BELOW AND ONCE A TRACK ELECTIVE IS CHOSEN, ALL COURSES IN THE TRACK MUST BE TAKEN.											
Elective Track 1: Biomedical Electronics											
ECE 415	Fundamentals of Biomedical Engineering	3	3	4	PHYS 112						
ECE 416	Medical Imaging	3	3	4	PHYS 112, ECE 307						
Elective Track 2: Telecommunications											
ECE 412	Advanced Wireless Communication Systems	3	3	4	ECE 309						
ECE 413	Advanced Networking	3	3	4	ECE 310						
Elective Track 3: Technopreneurship											
TECH 102	Advanced Course in Entrepreneurship	4	0	4	TECH 101						
TECH 103	Product Management	3	3	4	TECH 102						
Elective Track 4: Data Science											
DSC 101	Computational Thinking with Python	3	3	4	MATH 022A, COE 027						
DSC 102	Prediction and Machine Learning	3	3	4	DSC 101						
Elective Track 5: Railway Engineering											
RWE 001	Introduction to Railway Systems and Engineering	3	0	3							
RWE 002A	Railway Management and Governance and Operations	3	0	3	RWE 001						

TOTAL NO. OF UNITS 185

CREDENTIALS SUBMITTED:

DEFICIENCY/IES

Evaluated by: _____

Date: _____

() F138 () PSA Birth Certificate

() GMC () Transfer Credential

() F137A () TOR

Received by: _____

Date: _____