



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.

COURSE CODE		DESCRIPTIVE TITLE	Student's Name and Signature			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			PREREQUISITE(S)
		Lecture Hours	Laboratory Hours	Credit Units				
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 (C)			
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:

- () F138 () PSA Birth Certificate
- () GMC () Transfer Credential
- () F137A () TOR

DEFICIENCY/IES

Evaluated by: _____

Date: _____

Received by: _____

Date: _____