



BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING

Effective 1st Semester, SY 2023-2024

Per CMO No. 101, s. 2017 and BOT Referendum No. 16, s. 2023

FIRST YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
ECE 101	Essentials of Electronics Engineering	2	1	3	None	None
EM 110	Fundamentals of Engineering Mathematics	4	0	4	None	None
GE 4	Mathematics in the Modern World	3	0	3	None	None
CAD 1	Computer-Aided Drafting	0	2	2	None	None
NS 111	Chemistry for Engineers	3	1	4	None	None
EM 111	Calculus 1	4	0	4	None	EM 110
PE 1	Physical Activities Towards Health and Fitness 1 (PATHFit1): Movement Competency Training	2	0	2	None	None
NSTP 1	National Service Training Program 1 (ROTC, LTS, CWTS)	3	0	3	None	None
TOTAL		21	4	25		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 122	Calculus 2	4	0	4	EM 111	None
PHYS 121	Physics 2	3	1	4	EM 111	NS 122
NS 122	Physics for Engineers	3	1	4	EM 111	EM 122
NS 121	Environmental Science and Engineering	3	0	3	None	None
BES 121	Engineering Economics	3	0	3	None	None
CS 121	Computer Programming	0	2	2	None	None
GE 1	Understanding the Self	3	0	3	None	None
PE 2	Physical Activities Towards Health and Fitness 2 (PATHFit2): Exercised-Based Fitness Activities	2	0	2	PE 1	None
NSTP 2	National Service Training Program 2 (ROTC, LTS, CWTS)	3	0	3	NSTP 1	None
TOTAL		24	4	28		



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SECOND YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 213	Differential Equations	4	0	4	EM 122	None
EE 211	Circuits 1	3	1	4	PHYS 122	None
ECE 211	Electronics 1: Electronic Devices and Circuits	3	1	4	PHYS 122	EE 211
GE ELECT 2	People and the Earth's Ecosystem	3	0	3	None	None
ME 211	Materials Science and Engineering	3	0	3	NS 111	None
CS 212	Introduction to Embedded Systems	1	1	2	CS 121	None
EM 214	Engineering Data Analysis	3	0	3	EM 111	None
PE 3	Physical Activities Towards Health and Fitness 3 (PATHFit3): Sports	2	0	2	PE 2	None
TOTAL		22	3	25		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 225	Advanced Engineering Mathematics for ECE	3	1	4	EM 213	None
EE 221	Electromagnetics	4	0	4	EM 213	None
EE 222	Circuits 2	3	1	4	EE 211	None
ECE 221	Communications 1: Principles of Communication Systems	3	1	4	None	ECE 222
ECE 222	Electronics 2: Electronic Circuit Analysis and Design	3	1	4	ECE 211	None
GE 2	Readings in Philippine History	3	0	3	None	None
PE 4	Physical Activities Towards Health and Fitness 4 (PATHFit4): Dance	2	0	2	PE 3	None
TOTAL		21	4	25		



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THIRD YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
ECE 311	Digital Electronics 1: Logic Circuits and Switching Theory	3	1	4	ECE 211	None
ECE 312	Communications 2: Modulation and Coding Techniques	3	1	4	ECE 221	None
ECE 313	Electronics 3: Electronic Systems and Design	3	1	4	ECE 222	None
ECE 314	Signals, Spectra and Signal Processing	3	1	4	EM 224	None
MECH 311	Introduction to Mechatronics	2	1	3	ECE 222	None
ECE 315	ECE Laws, Contracts, Ethics Standards and Safety	3	0	3	None	None
RES 300	Methods of Research	3	0	3	3 rd year standing	None
TOTAL		20	5	25		

Note:3rd year standing refer to students who has No Remaining Professional and Technical Courses from the previous Semesters.

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
ECE 322	Digital Electronics 2: Microprocessor, Microcontroller Systems and Design	3	1	4	ECE 311	None
ECE 323	Communications 3: Data Communications	3	1	4	ECE 312	None
ECE 324	Communications 4: Transmission Media and Antenna System and Design	3	1	4	ECE 312	None
ECE 325	Feedback and Control Systems	3	1	4	EM 224	None
GE 5	Purposive Communication	3	0	3	None	None
RES 321	Design 1/Capstone Project 1	0	1	1	3 rd year standing	None
TOTAL		15	5	20		

Note:3rd year standing refer to students who has No Remaining Professional and Technical Courses from the previous Semesters.

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
OJT	On-The-Job-Training (360 hours)	0	6	6	Incoming 4 th Year	None

Note: Incoming 4th Year refer to students who completed ALL PROFESSIONAL AND TECHNICAL COURSE under 3rd Year Level.



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FOURTH YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
ECE 411	ECE Elective 1	3	1	4	4 th year standing	None
RES 412	Design 2/Capstone Project 2	0	1	1	RES 321	None
BES 412	Engineering Management	2	0	2	None	None
BES 413	Technopreneurship	3	0	3	4 th year standing	None
GE ELECT 5	The Entrepreneurial Mind	3	0	3	None	None
GE 8	Ethics	3	0	3	None	None
GE ELECT 3	Living in the IT Era	3	0	3	None	None
GE 7	Science, Technology and Society	3	0	3	None	None
TOTAL		20	2	22		

Note: 4th year standing refer to students who has No Remaining Professional and Technical Courses from the previous Semesters.

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
RES 421	Seminars/Colloquium	0	1	1	4 th year standing	None
ECE 422	ECE Elective 2	3	1	4	ECE 411	None
ER 421	ECE Review w/ Comprehensive Exam	0	2	2	4 th year standing	None
GE 3	The Contemporary World	3	0	3	None	None
GE 9	The Life and Works of Rizal	3	0	3	None	None
GE 6	Art Appreciation	3	0	3	None	None
TOTAL		12	4	16		

Note: 4th year standing refer to students who has No Remaining Professional and Technical Courses from the previous Semesters.

SUMMARY OF UNITS PER SEMESTER				
Year	First Semester	Second Semester	Midyear Term	Total Units
First Year	25	28	0	53
Second Year	25	25	0	50
Third Year	25	20	6	51
Fourth Year	22	16		38
			TOTAL	192 units
SUMMARY				
I. General Education Courses				24 units
II. GEC Elective/Mandated Courses				12 units
III. PE 1,2,3 & 4 and NSTP 1& 2				14 units
IV. TECHNICAL COURSES				142 units
TOTAL NO. OF UNITS				192 units

Prepared by:

ENGR. MARTIN D. VALERAS, JR.

Dean

Recommending Approval:

ESTELITO R. CLEMENTE, Ph.D

Vice President for Academic Affairs

Approved:

DULCE F. ATIAN, Ph.D

Officer-in-Charge, Office of the President