BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING

EFFECTIVE ACADEMIC YEAR 2018-2019

(Updated Program of Study as of Academic Year 2020-2021)

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COURSE CODE	COURSE TITLE		URS	UNITS	PRE-REQUISITE	CO-
COURSE CODE	COURSE TITLE	LEC	LAB	UNITS	PRE-REQUISITE	REQUISIT
	FIRST YEAR					
IRST SEMESTER	0.1.1.1.7.7	15	9	23		
ECE181	Orientation to ECE	0	3	1		
MATH137	Engineering Calculus 1	3	0	3		OUENAGA
CHEM131	Chemistry for Engineers, lec	3	0	3		CHEM181
CHEM181 ES083	Chemistry for Engineers, lab	0	3	1		CHEM131
=5083 MATH031	Computer Aided Design and Drafting Mathematics in the Modern World	3	0	3		
STS031		3	0	3		
PHILO031	Science, Technology and Society Ethics	3	0	3		
PE103	Movement Enhancement	3	0	2		
NSTP111	National Service Training Program 1			3		
1011 111	Ivalional Service Training Frogram			3		
SECOND SEMESTER		16	12	25		
ECE132	Physics 2, lec	3	0	3	MATH137	PHYS 132, ECE182
ECE182	Physics 2, lab	0	3	1	MATH137	PHYS182, ECE132
ECE162	ECE Tech 1 (Electronics Shop Practice)	1	3	2	ECE181	
MATH138	Engineering Calculus 2	3	0	3	MATH137	
PHYS132	Physics for Engineers, lec	3	0	3	MATH137	PHYS182, MATH138
PHYS182	Physics for Engineers, lab	0	3	1	MATH137	PHYS132, MATH138
ES031	Engineering Data Analysis	3	0	3	MATH137	IVIJ (TTTTOO
ES084	Computer Programming 1	0	3	1		
ENGL031	Purposive Communication	3	0	3		
PE104	Fitness Exercises			2	PE103	
NSTP112	National Service Training Program 2			3	NSTP111	
	SECOND YEAR			1	1	
IRST SEMESTER		19	12	25		
ECE231	Electronics 1: Electronic Devices and Circuits, lec	3	0	3	ECE132/182, ECE162	ECE281
ECE281	Electronics 1: Electronic Devices and Circuits, lab	0	3	1	ECE132/182, ECE162	ECE231
ECE261	ECE TECH 2 (Computer Fundamentals and Servicing)	1	3	2	ECE162	
EE231	Electrical Circuits 1, lec	3	0	3	ECE132, PHYS132, MATH138	EE281
EE281	Electrical Circuits 1, lab	0	3	1	ECE182, PHYS132,	EE231
MATH237	Differential Equations	3	0	3	MATH138 MATH138	
ES032	Engineering Economics	3	0	3	ES031	
ES036	Environmental Science and Engineering	3	0	3	CHEM131/181	
ES085	Computer Programming 2	0	3	1	ES084	
-S065 	Art Appreciation	3	0	3	None	
		3	U			
PE205	Physical Activities Towards Health and Fitness I			2	PE103	
SECOND SEMESTER		21	12	27		
ECE232	Electronics 2: Electronic Circuit Analysis and Design, lec	3	0	3	ECE231/281, ECE261	ECE282
ECE282	Electronics 2: Electronic Circuit Analysis and Design, lab	0	3	1	ECE231/281, ECE261	ECE232
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ECE234	Advanced Engineering Mathematics for ECE, lec	3	0	3	MATH237	ECE284

ECE236	Communications 1: Principles of Communication System,	3	0	3	ECE231/281, ECE261	ECE286
ECE286	lec Communications 1: Principles of Communication System,	0	3	1	ECE231/281, ECE261	ECE236
EE232	lab Electrical Circuits 2, lec	3	0	3	EE231/281	EE282
EE282	Electrical Circuits 2, leb	0	3	1	EE231/281	EE232
ES034	Engineering Management	3	0	3	LL231/201	LLZJZ
ES037	Materials Science and Engineering	3	0	3	CHEM131/181	
PSYCH031	0 0	3	0	3	CHEWI31/101	
PE206	Understanding the Self	3	U	2	PE103	
	Physical Activities Towards Health and Fitness II			2	PE103	
UMMER TERM		8	3	9		
ECE330	Occupational Health & Safety	2	0	2		
ECE340	Advanced Computer Programming	2	3	3	ES085	
ECE350	Electromagnetics for ECE	4	0	4	EE232/282	
	THIRD YEAR					
IRST SEMESTER		18	18	24		
ECE331	Signals, Spectra & Signal Processing, lec	3	0	3	ECE232/282, ECE236/286	ECE381
ECE381	Signals, Spectra & Signal Processing, lab	0	3	1	ECE232/282, ECE236/286	ECE331
:CE333	Communications 2: Modulation and Coding Techniques, lec	3	0	3	ECE236/286	ECE383
CE383	Communications 2: Modulation and Coding Techniques, lab	0	3	1	ECE236/286	ECE333
CE335	Digital Electronics 1: Logic Circuits and Switching Theory,	3	0	3	ECE231/281	ECE385
CE385	lec Digital Electronics 1: Logic Circuits and Switching Theory,	0	3	1	ECE231/281	ECE335
ECE337	lab Feedback and Control Systems, lec	3	0	3	ECE340	ECE387
ECE387	Feedback and Control Systems, lab	0	3	1	ECE340	ECE337
ECECC381	Comprehensive Evaluation Course 1 (Math)	0	6	2	ECE234/284	LCL337
			-		LOL234/204	
	General Education Elective 1	3	0	3		
	Readings in Philippine History	3	0	3		
SOCSCI031			_			
ECOND SEMESTER		3	0	3	ECE232/282, ECE330	ECE382
ECE332	Readings in Philippine History	17	0 21	3 24	ECE232/282, ECE330 ECE232/282, ECE330	ECE382 ECE332
ECE332 ECE382	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec	3 17 3	0 21 0	3 24 3	· ·	
ECOND SEMESTER ECE332 ECE382 ECE334	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab	3 17 3 0	0 21 0 3	3 24 3 1	ECE232/282, ECE330	ECE332
ECOND SEMESTER ECE332 ECE382 ECE334 ECE384	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller	3 17 3 0 3	0 21 0 3 0	3 24 3 1 3	ECE232/282, ECE330 ECE333/383, ECE350 ECE333/383,	ECE332 ECE384
ECE332 ECE332 ECE334 ECE334 ECE336	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lec Digital Electronics 2: Microprocessor & Microcontroller	3 17 3 0 3	0 21 0 3 0	3 24 3 1 3	ECE232/282, ECE330 ECE333/383, ECE350 ECE333/383, ECE350	ECE332 ECE384 ECE334
ECOND SEMESTER ECE332 ECE334 ECE384 ECE336 ECE386	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lec	3	0 21 0 3 0 3	3 24 3 1 3 1 3 3	ECE232/282, ECE330 ECE333/383, ECE350 ECE333/383, ECE350 ECE335/385 ECE335/385 ECE333/383,	ECE332 ECE384 ECE334 ECE386
ECOND SEMESTER ECE332 ECE334 ECE334 ECE336 ECE336 ECE386	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lec Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lab Communications 4:Transmission Media, Antenna System	3 0 3 0 3 0 0	0 21 0 3 0 3 0 3	3 24 3 1 3 1 3 1	ECE332/282, ECE330 ECE333/383, ECE350 ECE333/383, ECE350 ECE335/385 ECE335/385 ECE333/383, ECE350 ECE333/383,	ECE332 ECE384 ECE334 ECE386 ECE336
ECOND SEMESTER ECE332 ECE334 ECE334 ECE336 ECE336 ECE338	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lec Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lab Communications 4:Transmission Media, Antenna System and Design, lec Communications 4:Transmission Media, Antenna System	3 0 3 0 3 0 3	0 21 0 3 0 3 0 3 0	3 24 3 1 3 1 3 1 3 3	ECE332/282, ECE330 ECE333/383, ECE350 ECE335/383, ECE350 ECE335/385 ECE335/385 ECE333/383, ECE350	ECE332 ECE384 ECE334 ECE386 ECE336 ECE388
ECOND SEMESTER ECE332 ECE332 ECE334 ECE336 ECE336 ECE338	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lec Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lab Communications 4:Transmission Media, Antenna System and Design, lec Communications 4:Transmission Media, Antenna System and Design, lab	3 0 3 0 3 0 3 0	0 21 0 3 0 3 0 3 0 3	3 1 3 1 3 1 1 3 1	ECE232/282, ECE330 ECE333/383, ECE350 ECE335/385 ECE335/385 ECE335/385 ECE333/383, ECE350 ECE333/383, ECE350 ECE340, ECE340, ECE347/387,	ECE332 ECE384 ECE334 ECE386 ECE336 ECE388
ECOND SEMESTER ECE332 ECE382 ECE384 ECE386 ECE388 ECE388	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lec Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lab Communications 4:Transmission Media, Antenna System and Design, lec Communications 4:Transmission Media, Antenna System and Design, lab Methods of Research	3 0 3 0 3 0 3 0 2	0 21 0 3 0 3 0 3 0 3 3	3 24 3 1 3 1 3 1 3 3 1 3	ECE332/282, ECE330 ECE333/383, ECE350 ECE335/385 ECE335/385 ECE335/385 ECE350 ECE333/383, ECE350 ECE340, ECE340, ECE331, ECE333 all ES subjects, ECE330, ECE340,	ECE332 ECE384 ECE334 ECE386 ECE336 ECE388
GE-ECE1 SOCSCI031 SECOND SEMESTER ECE332 ECE382 ECE384 ECE386 ECE386 ECE388 ECE388 ECE388 ECE388	Readings in Philippine History Electronics 3: Electronic Systems and Design, lec Electronics 3: Electronic Systems and Design, lab Communications 3: Data Communications, lec Communications 3: Data Communications, lab Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lec Digital Electronics 2: Microprocessor & Microcontroller Systems and Design, lab Communications 4:Transmission Media, Antenna System and Design, lec Communications 4:Transmission Media, Antenna System and Design, lab Methods of Research Comprehensive Evaluation Course 2 (GEAS)	3 0 3 0 3 0 3 0 2	0 21 0 3 0 3 0 3 0 3 0 3 6	3 24 3 1 3 1 3 1 3 2 2	ECE332/282, ECE330 ECE333/383, ECE350 ECE335/385 ECE335/385 ECE335/385 ECE350 ECE333/383, ECE350 ECE340, ECE340, ECE331, ECE333 all ES subjects, ECE330, ECE340,	ECE332 ECE384 ECE334 ECE386 ECE336 ECE388

	FOURTH YEAR				
FIRST SEMESTER		12	18	18	
ECE431	ECE Laws, Contracts, Ethics and Standards	3	0	3	4th year standing
ECE481	Design1/Capstone Project 1	0	6	2	ECE362, ECE337/387
ECETE461	ECE Technical Elective 1	3	3	4	ECE332, ECE336, ECE338, ECE234
ECETE463	ECE Technical Elective 2	3	3	4	ECE335, ECE336, ECE338, ECE234
ECECC483	Comprehensive Evaluation Course 3 (Electronics)	0	6	2	ECE332/382, ECE336/386
GE-ECE3	General Education Elective 3	3	0	3	
SECOND SEMESTER		11	18	17	
ECE482	Design 2/Capstone Project 2	0	6	2	ECE481
ECE484	Seminars/Colloquium	0	3	1	4th year standing
ECETE462	ECE Technical Elective 3	2	3	3	ECETE461, ECETE463
ECECC484	Comprehensive Evaluation Course 4 (EST)	0	6	2	ECE334/384,
ES038	Technopreneurship	3	0	3	ECE338/388 ES034
SOCSCI032	The Contemporary World	3	0	3	
RIZAL031	The Life and Works of Rizal	3	0	3	
THE TEOOT	THE LIE WITH WORKS OF FAZZI				
GRAND TOTAL		138	129	195	
	RECOMMENDED GENERAL EDUCATION	ON EL	ECTI	VES	
ENGL014	Technical Writing/ Communication	3	0	3	
SSP031	Creative Thinking Tools	3	0	3	
SSP032	Sustainability Development and Global Citizenship	3	0	3	
	TECHNICAL ELECTIVE	ES			1
A. INSTRUMENTATION					
AND CONTROL TRACK	TECHNICAL ELECTIVE 1: Advanced Instrumentation and				ECE332/382,
ECETE461IC	Control System	3	3	4	ECE336/386
ECETE463IC	TECHNICAL ELECTIVE 2: Robotics Technology	3	3	4	ECE332/382, ECE336/386
ECETE464IC	TECHNICAL ELECTIVE 3: Electronics Ancillary Systems (common to Instrumentation & Telecom Tracks)	2	3	3	ECETE461IC, ECETE463IC
B. TELECOMMUNICATIONS TRACK	,				
ECETE461TC	TECHNICAL ELECTIVE 1: Advanced Communication System & Design (Wireless)	3	3	4	ECE334/384, ECE338/388
ECETE463TC	TECHNICAL ELECTIVE 2:Advanced Networking	3	3	4	ECE334/384,
ECETE464TC	TECHNICAL ELECTIVE 3: Electronics Ancillary Systems (common to Instrumentation &	2	3	3	ECE338/388 ECETE461TC, ECETE463TC
OPTIONAL TRACK ELECTIVES:	Telecom Tracks)				
C. Power Electronics					
	Advanced Power Supply Systems	3	3	4	
	Renewable Energy Systems	3	3	4	
D. Building Information and Communications Technology Infrastructure				T	
	ICT Infrastructure	3	3	4	
	101 mmadiractare				