

UNIVERSITY OF LUZON  
Perez Blvd. Dagupan City

COLLEGE OF ENGINEERING and ARCHITECTURE  
**Bachelor of Science in Electronics and Communications Engineering**  
Curriculum Year **2012 - 2013**

**First Year**

**First Semester**

SUBJECT CODE	SUBJECT NAME/DESCRIPTION	HOURS		UNITS		Pre-Requisite
		LEC.	LAB.	LEC.	LAB.	
CHEM 111	GENERAL CHEMISTRY (LEC)	3.0	0.0	3.0	0.0	
CHEM 111L	GENERAL CHEMISTRY (LAB)	0.0	3.0	0.0	1.0	
DRAW 111A	ENGINEERING DRAWING 1	0.0	3.0	0.0	1.0	
ENG 11	COMMUNICATION ARTS 1	3.0	0.0	3.0	0.0	
FIL 11	KOMUNIKASYON SA AKADEMIKONG FILIPINO	3.0	0.0	3.0	0.0	
MTH 111A	COLLEGE ALGEBRA	3.0	0.0	3.0	0.0	
MTH 112	PLANE AND SPHERICAL TRIGONOMETRY	3.0	0.0	3.0	0.0	
PE 11	PHYSICAL FITNESS AND GYMNASTICS	2.0	0.0	2.0	0.0	
SOC 13	CONTEMPORARY SOCIAL PROBLEMS AND CURRENT ISSUES	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>20</b>	<b>6</b>	<b>20.0</b>	<b>2.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 22.0</b>						

**Second Semester**

CSC 121A	COMPUTER FUNDAMENTALS	2.0	3.0	2.0	1.0	
ENG 12	COMMUNICATION ARTS 2	3.0	0.0	3.0	0.0	ENG 11
FIL 12	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	3.0	0.0	3.0	0.0	FIL 11
HUM 11	ART APPRECIATION	3.0	0.0	3.0	0.0	
MTH 121A	ADVANCED ALGEBRA	2.0	0.0	2.0	0.0	MTH 111A, MTH 112
MTH 122A	ANALYTIC GEOMETRY	3.0	0.0	3.0	0.0	
MTH 123	SOLID MENSURATION	2.0	0.0	2.0	0.0	MTH 112, MTH 111A
PE 12	RHYTHMIC ACTIVITIES	2.0	0.0	2.0	0.0	PE 11
PSC 12	PHILIPPINE GOVERNMENT AND NEW CONSTITUTION	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>23</b>	<b>3</b>	<b>23.0</b>	<b>1.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 24.0</b>						

**Second Year**

**First Semester**

CSC 211A	COMPUTER PROGRAMMING	2.0	3.0	2.0	1.0	
ENG 16	TECHNICAL WRITING	3.0	0.0	3.0	0.0	ENG 12
MTH 211A	DIFFERENTIAL CALCULUS	4.0	0.0	4.0	0.0	MTH 123
NSTP 11	NATIONAL SERVICE TRAINING PROGRAM 1	3.0	0.0	3.0	0.0	
PE 13	INDIVIDUAL AND DUAL SPORTS/GAMES	2.0	0.0	2.0	0.0	PE 12
PHI 13	LOGIC	3.0	0.0	3.0	0.0	
PHY 211	COLLEGE PHYSICS 1	3.0	0.0	3.0	0.0	MTH 112, MTH 123
PHY 211L	COLLEGE PHYSICS 1 (LABORATORY)	0.0	3.0	0.0	1.0	MTH 112
TECH 21	ELECTRONICS TECHNOLOGY 1	2.0	0.0	2.0	0.0	
TECH 21L	ELECTRONICS TECHNOLOGY 1 LABORATORY	0.0	3.0	0.0	1.0	
<b>TOTAL</b>		<b>22</b>	<b>9</b>	<b>22.0</b>	<b>3.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 25.0</b>						

**Second Semester**

CSC 221A	COMPUTER AIDED-DRAFTING	1.0	3.0	1.0	1.0	
HST 11	PHILIPPINE HISTORY	3.0	0.0	3.0	0.0	
MTH 221A	INTEGRAL CALCULUS	4.0	0.0	4.0	0.0	
MTH 222A	PROBABILITY AND STATISTICS	3.0	0.0	3.0	0.0	2nd Yr
NSTP 12	NATIONAL SERVICE TRAINING PROGRAM 2	3.0	0.0	3.0	0.0	NSTP 11
PE 14	TEAM SPORTS	2.0	0.0	2.0	0.0	PE 13
PHY 221	COLLEGE PHYSICS 2	3.0	0.0	3.0	0.0	PHY 211
PHY 221L	COLLEGE PHYSICS 2 (LABORATORY)	0.0	3.0	0.0	1.0	PHY 211L
SOC 14	LIFE AND WORKS OF RIZAL	3.0	0.0	3.0	0.0	
TECH 22	ELECTRONICS TECHNOLOGY 2	2.0	0.0	2.0	0.0	TECH 21
TECH 22L	ELECTRONICS TECHNOLOGY 2 LABORATORY	0.0	3.0	0.0	1.0	TECH 21L
<b>TOTAL</b>		<b>24</b>	<b>9</b>	<b>24.0</b>	<b>3.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 27.0</b>						

**Third Year**

**First Semester**

ECE 311	ELECTRONIC CIRCUITS AND DEVICES	3.0	0.0	3.0	0.0	PHY 221, TECH 22
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ECE 311L	ELECTRONIC CIRCUITS AND DEVICES LABORATORY	0.0	3.0	0.0	1.0	TECH 22L, PHY 221L
ECE 312	VECTOR ANALYSIS	3.0	0.0	3.0	0.0	PHY 221
ECO 311	ENGINEERING ECONOMY	3.0	0.0	3.0	0.0	3rd Yr
EE 311	ELECTRICAL CIRCUITS 1	3.0	0.0	3.0	0.0	PHY 211
EE 311L	ELECTRICAL CIRCUITS I LABORATORY	0.0	3.0	0.0	1.0	PHY 211L
MECH 311A	STATIC OF RIGID BODIES	3.0	0.0	3.0	0.0	PHY 211
MTH 311	DIFFERENTIAL EQUATIONS	3.0	0.0	3.0	0.0	MTH 221A
PSY 12	GENERAL PSYCHOLOGY WITH DRUG EDUCATION	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>21</b>	<b>6</b>	<b>21.0</b>	<b>2.0</b>	

**TOTAL ACADEMIC UNIT(S): 23.0**

**Second Semester**

ECE 320	ELECTROMAGNETICS	3.0	0.0	3.0	0.0	ECE 312
ECE 321A	ELECTRONICS ANALYSIS AND DESIGN	3.0	0.0	3.0	0.0	ECE 311
ECE 321A (LAB)	ELECTRONICS ANALYSIS AND DESIGN LABORATORY	0.0	3.0	0.0	1.0	ECE 311L
ECE 322	FUNDAMENTALS OF MATERIALS SCIENCE AND ENGINEERING	3.0	0.0	3.0	0.0	3rd Yr
EE 321	ELECTRICAL CIRCUITS 2	3.0	0.0	3.0	0.0	EE 311
EE 321L	ELECTRICAL CIRCUITS 2 LABORATORY	0.0	3.0	0.0	1.0	EE 311L
ENG 22	SPEECH AND ORAL COMMUNICATION	3.0	0.0	3.0	0.0	ENG 16
MECH 321A	DYNAMICS OF RIGID BODIES	2.0	0.0	2.0	0.0	
MECH 322	MECHANICS OF DEFORMABLE BODIES	3.0	0.0	3.0	0.0	
MTH 321	ADVANCED ENGINEERING MATHEMATICS	3.0	0.0	3.0	0.0	MTH 311
<b>TOTAL</b>		<b>23</b>	<b>6</b>	<b>23.0</b>	<b>2.0</b>	

**TOTAL ACADEMIC UNIT(S): 25.0**

**Fourth Year**

**First Semester**

ECE 411	SIGNALS, SPECTRA, SIGNAL PROCESSING	3.0	0.0	3.0	0.0	ECE 321A
ECE 411 (LAB)	SIGNALS, SPECTRA, SIGNAL PROCESSING LABORATORY	0.0	3.0	0.0	1.0	ECE 321A (LAB)
ECE 412	PRINCIPLES OF COMMUNICATIONS	3.0	0.0	3.0	0.0	EE 321
ECE 412L	PRINCIPLES OF COMMUNICATIONS LABORATORY	0.0	3.0	0.0	1.0	EE 321L
ELEC 1	MECHATRONICS	3.0	0.0	3.0	0.0	4th Yr
ENG 15	PHILIPPINE LITERATURE	3.0	0.0	3.0	0.0	
ME 410	BASIC THERMODYNAMICS	3.0	0.0	3.0	0.0	PHY 221
MTH 411	NUMERICAL METHODS	3.0	0.0	3.0	0.0	MTH 321
MTH 412	DISCRETE MATHEMATICS	3.0	0.0	3.0	0.0	MTH 311
<b>TOTAL</b>		<b>21</b>	<b>6</b>	<b>21.0</b>	<b>2.0</b>	

**TOTAL ACADEMIC UNIT(S): 23.0**

**Second Semester**

ECE 421	LOGIC CIRCUIT AND SWITCHING THEORY	3.0	0.0	3.0	0.0	ECE 411
ECE 421 (LAB)	LOGIC CIRCUIT AND SWITCHING THEORY LABORATORY	0.0	3.0	0.0	1.0	
ECE 422 (LAB)	FEEDBACK AND CONTROL SYSTEMS LABORATORY	0.0	3.0	0.0	1.0	
ECE 422A	FEEDBACK AND CONTROL SYSTEMS	3.0	0.0	3.0	0.0	ECE 411
ECE 424	SAFETY MANAGEMENT	1.0	0.0	1.0	0.0	4th Yr
ECE 427	ENVIRONMENTAL ENGINEERING	2.0	0.0	2.0	0.0	4th Yr
EE421 (LAB)	ENERGY CONVERSION LABORATORY	0.0	3.0	0.0	1.0	EE 321L
EE421A	ENERGY CONVERSION	3.0	0.0	3.0	0.0	EE 321
ELEC 2	ROBOTICS	3.0	0.0	3.0	0.0	ELEC 1
MGT 425A	ENGINEERING MANAGEMENT FOR ECE	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>18</b>	<b>9</b>	<b>18.0</b>	<b>3.0</b>	

**TOTAL ACADEMIC UNIT(S): 21.0**

**Fifth Year**

**First Semester**

ECE 510	ON THE JOB TRAINING	0.0	3.0	0.0	1.0	5th Yr
ECE 512	TRANSMISSION AND ANTENNA SYSTEMS	3.0	0.0	3.0	0.0	ECE 412, ECE 411
ECE 513	INDUSTRIAL ELECTRONICS	3.0	0.0	3.0	0.0	ECE 422A
ECE 513L	INDUSTRIAL ELECTRONICS LABORATORY	0.0	3.0	0.0	1.0	ECE 422 (LAB)
ECE 514	DIGITAL COMMUNICATIONS	3.0	0.0	3.0	0.0	ECE 421, ECE 422A
ECE 515	THESIS 1	0.0	3.0	0.0	1.0	5th Yr
ECE 516	MICROPROCESSORS SYSTEM	3.0	0.0	3.0	0.0	ECE 421
ECE 516L	MICROPROCESSORS SYSTEM LABORATORY	0.0	3.0	0.0	1.0	ECE 422 (LAB)
ELEC 3	SENSOR TECHNOLOGY	3.0	0.0	3.0	0.0	ELEC 2
<b>TOTAL</b>		<b>15</b>	<b>12</b>	<b>15.0</b>	<b>4.0</b>	

**TOTAL ACADEMIC UNIT(S): 19.0**

**Second Semester**

ECE 500	INTEGRATED ECE COURSE	5.0	0.0	5.0	0.0	5th Yr
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ECE 521	ECE LAWS, CONTRACTS AND ETHICS	3.0	0.0	3.0	0.0	
ECE 522	FIELDTRIPS AND SEMINARS	0.0	3.0	0.0	1.0	
ECE 523	THESIS 2	0.0	3.0	0.0	1.0	ECE 515
ECE 524	BROADCAST ENGINEERING AND ACOUSTICS	3.0	0.0	3.0	0.0	ECE 524L (5th Yr)
ECE 524L	BROADCAST ENGINEERING AND ACOUSTICS LABORATORY	0.0	3.0	0.0	1.0	5th Yr
ECE 526	DATA COMMUNICATIONS	3.0	0.0	3.0	0.0	ECE 514
ELEC 4	MODELLING AND SIMULATION	3.0	0.0	3.0	0.0	ELEC 3
<b>TOTAL</b>		<b>17</b>	<b>9</b>	<b>17.0</b>	<b>3.0</b>	

**TOTAL ACADEMIC UNIT(S): 20.0**

**Total academic units for course Bachelor of Science in Electronics and Communications Engineering: 229.0, Lecture Unit = 204.0, Lab Unit=25.0**