

UNIVERSITY OF LUZON  
Perez Blvd. Dagupan City

COLLEGE OF ENGINEERING and ARCHITECTURE  
**Bachelor of Science in Electrical 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	
EE TECH 1	ELECTRICAL TECHNOLOGY 1	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
<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	
EE TECH 2	ELECTRICAL TECHNOLOGY 2	2.0	3.0	2.0	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	
<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
ECE 311L	ELECTRONIC CIRCUITS AND DEVICES LABORATORY	0.0	3.0	0.0	1.0	PHY 221L
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 1 LABORATORY	0.0	3.0	0.0	1.0	PHY 211L
EE 312A	ELECTROMAGNETICS	3.0	0.0	3.0	0.0	
ENG 15	PHILIPPINE LITERATURE	3.0	0.0	3.0	0.0	
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	

**TOTAL 24 6 24.0 2.0**

**TOTAL ACADEMIC UNIT(S): 26.0**

**Second Semester**

ECE 321	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN	3.0	0.0	3.0	0.0	
ECE 321L	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN LABORATORY	0.0	3.0	0.0	1.0	
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
EE 322A	ENVIRONMENTAL ENGINEERING	2.0	0.0	2.0	0.0	
EE 323A	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	3.0	0.0	3.0	0.0	
ENG 22	SPEECH AND ORAL COMMUNICATION	3.0	0.0	3.0	0.0	ENG 16
ME 321A	BASIC THERMODYNAMICS	3.0	0.0	3.0	0.0	
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 321A	ADVANCED ENGINEERING MATHEMATICS	3.0	0.0	3.0	0.0	

**TOTAL 25 6 25.0 2.0**

**TOTAL ACADEMIC UNIT(S): 27.0**

**Fourth Year**

**First Semester**

ECE 411L	LOGIC CIRCUIT AND SWITCHING THEORY	3.0	3.0	3.0	1.0	
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
EE 412A	CONTROL SYSTEMS	3.0	0.0	3.0	0.0	
EE 413A	ELECTRICAL CIRCUITS 3	2.0	0.0	2.0	0.0	
EE 413L (LAB)	ELECTRICAL CIRCUITS 3 LABORATORY	0.0	3.0	0.0	1.0	
EE411	DC MACHINERY	2.0	0.0	2.0	0.0	
EE411L (LAB)	DC MACHINERY LAB	0.0	3.0	0.0	1.0	
MECH 411A	MECHANICS OF FLUID	3.0	0.0	3.0	0.0	
MTH 411	NUMERICAL METHODS	3.0	0.0	3.0	0.0	

**TOTAL 19 12 19.0 4.0**

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

**Second Semester**

ECE 421L	MICROPROCESSOR SYSTEM	2.0	3.0	2.0	1.0	
ECE 422L	INDUSTRIAL ELECTRONICS	3.0	3.0	3.0	1.0	
EE 421A	AC MACHINERY	3.0	0.0	3.0	0.0	
EE 421AL	AC MACHINERY LABORATORY	0.0	3.0	0.0	1.0	
EE 422D	ILLUMINATION ENGINEERING DESIGNS	2.0	3.0	2.0	1.0	
EE 423A	AC APPARATUS AND DEVICES	2.0	0.0	2.0	0.0	
EE 423L (LAB)	AC APPARATUS AND DEVICES LAB	0.0	3.0	0.0	1.0	
EE 424A	EE LAWS, CONTRACTS AND ETHICS	2.0	0.0	2.0	0.0	
EE 425A	METHODS OF RESEARCH FOR EE	1.0	0.0	1.0	0.0	
EE 426	ELECTRICAL ENGINEERING SAFETY	1.0	0.0	1.0	0.0	
EE 427	SAFETY MANAGEMENT	1.0	0.0	1.0	0.0	

**TOTAL 17 15 17.0 5.0**

**TOTAL ACADEMIC UNIT(S): 22.0**

**Fifth Year**

**First Semester**

ECE 511L	INSTRUMENTATION AND CONTROL	2.0	3.0	2.0	1.0	
ECE 516A	INFORMATION TECHNOLOGY	2.0	3.0	2.0	1.0	
EE 500	INTEGRATED ELECTRICAL ENGG COURSE	5.0	0.0	5.0	0.0	5th Yr
EE 511A	ELECTRICAL TRANSMISSION AND DISTRIBUTION SYSTEM	3.0	0.0	3.0	0.0	
EE 511L (LAB)	ELECTRICAL TRANSMISSION AND DISTRIBUTION SYSTEM LAB	0.0	3.0	0.0	1.0	
EE 512A	UNDERGROUND CABLE DESIGN	3.0	0.0	3.0	0.0	
EE 513A	ADVANCED ILLUMINATION DESIGN	3.0	0.0	3.0	0.0	
EE 514A	ELECTRICAL SYSTEM DESIGN	2.0	0.0	2.0	0.0	
EE 514D	ELECTRICAL SYSTEM DESIGN DRAFTING	0.0	3.0	0.0	1.0	
EE 515D	RESEARCH PROJECT	0.0	3.0	0.0	1.0	

**TOTAL 20 15 20.0 5.0**

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

**Second Semester**

EE 521A	ELECTRICAL EQUIPMENT OPERATION AND MAINTENANCE	3.0	0.0	3.0	0.0
EE 522	POWER PLANT ENGINEERING	2.0	0.0	2.0	0.0
EE 522D	POWER PLANT ENGINEERING DRAFTING	0.0	3.0	0.0	1.0
EE 523A	POWER SYSTEM ANALYSIS AND DESIGN	3.0	0.0	3.0	0.0
EE 523D A	POWER SYSTEM ANALYSIS AND DESIGN DRAFTING	0.0	3.0	0.0	1.0
EE 524A	HIGH RISE BUILDING DESIGN	3.0	0.0	3.0	0.0
EE 525A	SUB-STATION DESIGN	3.0	0.0	3.0	0.0
EE 526A	FIELD TRIPS AND SEMINARS	0.0	3.0	0.0	1.0
EE 527	ENGINEERING MANAGEMENT	3.0	0.0	3.0	0.0
EE 528	ON THE JOB TRAINING	0.0	6.0	0.0	2.0
<b>TOTAL</b>		<b>17</b>	<b>15</b>	<b>17.0</b>	<b>5.0</b>

**TOTAL ACADEMIC UNIT(S): 22.0**

**Total academic units for course Bachelor of Science in Electrical Engineering: 243.0, Lecture Unit = 211.0, Lab Unit=32.0**