

HOLY ANGEL UNIVERSITY  
COLLEGE OF ENGINEERING AND ARCHITECTURE  
**BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING**  
Program Code: ELECENG (with Addendum)  
SCHOOL YEAR 2014-2015

COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S) COREQUISITE(S)
<b>FIRST YEAR, FIRST SEMESTER</b>					
ALGEBRA1	College Algebra 1	3	0	3	None
TRIGO	Plane and Spherical Trigonometry	3	0	3	None
CHEMISTRY	General Chemistry Lecture	3	0	3	None
CHEMISTRYL	General Chemistry Laboratory	0	3	1	Coreq: CHEMISTRY
ESDRAW	Engineering Drawing	0	3	1	None
1ENGLISH	Reading and Writing	3	0	3	None
4PHILHIS	Philippine History	3	0	3	None
CLE1	Sowing Seeds of Faith	3	0	3	None
7SELFTEST	PE 1: Self-Testing Activities	2	0	2	None
CWTS1	Civic Welfare Training Services 1	0	3	3	None
	<b>TOTAL</b>	<b>20</b>	<b>9</b>	<b>25</b>	

<b>FIRST YEAR, SECOND SEMESTER</b>					
ALGEBRA2	College Algebra 2	2	0	2	ALGEBRA1
ANAGEO	Analytic Geometry	3	0	3	ALGEBRA1, TRIGO
SOLIDM	Solid Mensuration	2	0	2	ALGEBRA1, TRIGO
1SPEECH	Speech and Oral Communication	3	0	3	1ENGLISH
4LOGIC	Logic	3	0	3	None
4ARTAPP	Art Appreciation	3	0	3	None
CLE2	Step to Conversion	3	0	3	CLE1
7RHYTHMIC	PE 2: Fundamentals of Rhythmic Activities	2	0	2	7SELFTEST
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
	<b>TOTAL</b>	<b>21</b>	<b>3</b>	<b>24</b>	

<b>SECOND YEAR, FIRST SEMESTER</b>					
DIFFCAL	Differential Calculus	4	0	4	ALGEBRA2, ANAGEO, SOLIDM
PHYSICS1	Physics 1 Lecture	4	0	4	ALGEBRA1, TRIGO
PHYSICS1L	Physics 1 Laboratory	0	3	1	Coreq: PHYSICS1
COMFUN1	Computer Fundamentals and Programming 1	0	3	1	None
BCADRAFT	Basic Computer-Aided Drafting	0	3	1	ESDRAW
4GENPSY	General Psychology	3	0	3	None
1TECHCOM	Technical Communication	3	0	3	1SPEECH
3FILKOM	Komunikasyon sa Akademikong Filipino	3	0	3	None
CLE3	Set to Uphold the Church's Conviction	3	0	3	CLE2
7GAMES	PE 3: Fundamentals of Games and Sports	2	0	2	7RHYTHMIC
	<b>TOTAL</b>	<b>22</b>	<b>9</b>	<b>25</b>	

<b>SECOND YEAR, SECOND SEMESTER</b>					
INTECAL	Integral Calculus	4	0	4	DIFFCAL
PHYSICS2	Physics 2 Lecture	4	0	4	PHYSICS1, PHYSICS1L
PHYSICS2L	Physics 2 Laboratory	0	3	1	Coreq: PHYSICS2
COMFUN2	Computer Fundamentals and Programming 2	0	3	1	COMFUN1
4PHILOMAN	Philosophy of Man	3	0	3	None
4PHIGOV	Philippine Government and the New Constitution	3	0	3	4PHILHIS
3FILBAS	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	3FILKOM
CLE4	Send to be Evangelizers	3	0	3	CLE3
7TEAM	PE 4: Team Sports	2	0	2	7GAMES
	<b>TOTAL</b>	<b>22</b>	<b>6</b>	<b>24</b>	

<b>THIRD YEAR, FIRST SEMESTER</b>					
STATICS	Static of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
CKTS1	Circuits 1 Lecture	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
CKTS1L	Circuits 1 Laboratory	0	3	1	Coreq: CKTS1
ELECDEV	Electronic Devices and Circuits Lecture	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ELECDEVL	Electronic Devices and Circuits Laboratory	0	3	1	Coreq: ELECDEV
DIFEQNS	Differential Equations	3	0	3	INTECAL
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
CACAD-ECE	Computer-Aided Circuit Analysis and Design for ECE	0	3	1	Coreq: ELECDEV
DISMATH	Discrete Mathematics	3	0	3	ALGEBRA2
VECTAN	Vector Analysis	3	0	3	INTECAL
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
	<b>TOTAL</b>	<b>24</b>	<b>9</b>	<b>27</b>	

<b>THIRD YEAR, SECOND SEMESTER</b>					
DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
CKTS2	Circuits 2 Lecture	3	0	3	CKTS1, CKTS1L
CKTS2L	Circuits 2 Laboratory	0	3	1	Coreq: CKTS2
ELECAD	Electronics Circuits Analysis and Design Lecture	3	0	3	ELECDEV, ELECDEVL
ELECADL	Electronics Circuits Analysis and Design Laboratory	0	3	1	Coreq: ELECAD
ADVMATH-ECE	Advanced Engineering Mathematics for ECE	3	0	3	DIFEQNS
LOGCAST-ECE	Logic Circuits and Switching Theory	3	0	3	ELECDEV, ELECDEVL
LOGCASTL-ECE	Logic Circuits and Switching Theory Laboratory	0	3	1	Coreq: LOGCAST-ECE
ESTHERM	Thermodynamics	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ELECMAG-ECE	Electromagnetics	3	0	3	PHYSICS2, PHYSICS2L, VECTAN
	<b>TOTAL</b>	<b>23</b>	<b>9</b>	<b>26</b>	

<b>FOURTH YEAR, FIRST SEMESTER</b>					
FBCON-ECE	Feedback and Control Systems	3	0	3	CKTS2, CKTS2L, ADVMATH-ECE
FBCONL-ECE	Feedback and Control Systems Laboratory	0	3	1	Coreq: FBCON-ECE

PRINCOM-ECE	Principles of Communications	3	0	3	ADVMATH-ECE, ELECAD, ELECADL
PRINCOML-ECE	Principles of Communications Laboratory	0	3	1	Coreq: PRINCOM-ECE
SIGNSPEC	Signals, Spectra and Signal Processing	3	0	3	ADVMATH-ECE, PROSTAT
SIGNSPECL	Signals, Spectra and Signal Processing Laboratory	0	3	1	Coreq: SIGNSPEC
INPOWELEC	Industrial and Power Electronics	3	0	3	ELECAD, ELECADL
INPOWELECL	Industrial and Power Electronics Laboratory	0	3	1	Coreq: INPOWELEC
MICROELEC	Microelectronics	3	0	3	ELECAD, ELECADL, LOGCAST-ECE, LOGCASTL-ECE
MICROELECL	Microelectronics Laboratory	0	3	1	Coreq: MICROELEC
NUMET-ECE	Numerical Methods with Computer Applications	3	3	4	COMFUN2, ADVMATH-ECE
ICTECH1	Information and Communications Technology 1	0	4	1	COMFUN2, 4th Year Standing
TOTAL		18	22	25	

FOURTH YEAR, SECOND SEMESTER

DCOMMS	Digital Communications	3	0	3	PRINCOM-ECE, PRIMCOML-ECE
DCOMMSL	Digital Communications Laboratory	0	3	1	Coreq: DCOMMS
WCOMNET	Wired and Wireless Communication Networks, Analysis and Design	3	3	4	Coreq: DCOMMS
NAVBOARD	Navigational, Broadcasting and Acoustics Engineering	3	0	3	Coreq: DCOMMS
MPROCON	Microprocessors and Microcontroller Systems	3	0	3	MICROELEC, MICROELECL, COMFUN2
MPROCONL	Microprocessors and Microcontroller Systems Laboratory	0	3	1	Coreq: MPROCON
ICTECH2	Information and Communications Technology 2	0	4	1	ICTECH1
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
ECE-ELECT1	ECE Elective 1	3	3	4	Coreq: ICTECH2, DCOMMS, DCOMMSL
ECE-ELECT2	ECE Elective 2	3	3	4	ICTECH1
TOTAL		21	19	27	

FOURTH YEAR, SUMMER TERM

ECE-OJT	ECE On-the-Job Training (320 Hours)			3	MPROCON, MPROCONL, WCOMNET, INPOWELEC, INPOWELECL, ICTECH2
TOTAL		0	0	3	

FIFTH YEAR, FIRST SEMESTER

TXMEDIA	Transmission Media and Antenna System Lecture	3	0	3	DCOMMS, DCOMMSL, ELECMAG-ECE
TXMEDIAL	Transmission Media and Antenna System Laboratory	0	3	1	Coreq: TXMEDIA
ECELAW	ECE Laws, Contracts and Ethics	3	0	3	5th Year Standing
ECETOPICS1	Special Topics and Issues in Electronics Engineering 1	0	3	1	DCOMMS, DCOMMSL, INPOWELEC, INPOWELECL, MPROCON, MPROCONL, WCOMNET, NAVBOARD
ECEPROJ1	ECE Research Project 1	0	3	1	MPROCON, MPROCONL, ECE-ELECT1
FMATSCI	Fundamental of Materials Science and Engineering	3	0	3	CHEMISTRY, CHEMISTRYL, PHYSICS2, PHYSICS2L
PDPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
ICTECH3	Information and Communications Technology 3	0	4	1	ICTECH2
ECE-ELECT3	ECE Elective 3	3	3	4	SIGNSPEC, SIGNSPECL
ECE-ELECT4	ECE Elective 4	3	3	4	MICROELEC, MICROELECL
TOTAL		16	19	22	

FIFTH YEAR, SECOND SEMESTER

DATA COMM	Data Communications	3	0	3	DCOMMS, DCOMMSL, ICTECH3
DATA COMML	Data Communications Laboratory	0	4	1	Coreq: DATA COMM
ECEPROJ2	ECE Research Project 2	0	3	1	ECEPROJ1
ENERCON	Energy Conversion	3	0	3	CKTS2, CKTS2L, ELECMAG-ECE
ENERCONL	Energy Conversion Laboratory	0	3	1	Coreq: ENERCON
ECE-SFT	ECE Seminars and Field Trips	0	3	1	5th Year Standing
ECETOPICS2	Special Topics and Issues in Electronics Engineering 2	0	3	1	ECETOPICS1
4PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	None
4RIZAL	Life and Works of Rizal	3	0	3	None
ENVISAFETY	Environmental Engineering and Safety Management	3	0	3	CHEMISTRY, CHEMISTRYL, 3rd Year Standing
TOTAL		15	16	20	

COURSE TOTAL

248