

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING
Program Code: ELECENG
SCHOOL YEAR 2011-2012

COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S) COREQUISITE(S)
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FIRST YEAR, FIRST SEMESTER

ALGEBRA1	College Algebra 1	3	0	3	None
TRIGO	Plane and Spherical Trigonometry	3	0	3	None
GENCHEM1	General Chemistry 1 Lecture	2	0	2	None
GENCHEM1L	General Chemistry 1 Laboratory	0	3	1	Coreq: GENCHEM1
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
7SELECT	Self-Testing Activities	2	0	2	None
CWTS1	Civic Welfare Training Services 1	0	3	3	None
TOTAL		19	9	24	

FIRST YEAR, SECOND SEMESTER

ALGEBRA2	College Algebra 2	2	0	2	ALGEBRA1
ANAGEO	Analytic Geometry	3	0	3	ALGEBRA1, TRIGO
SOLIDM	Solid Mensuration	2	0	2	ALGEBRA1, TRIGO
GENCHEM2	General Chemistry 2	1	3	2	GENCHEM1, GENCHEM1L
ARCDRAW	Architectural Drawing	0	3	1	ESDRAW
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
7RHYACT	Fundamentals of Rhythmic Activities	2	0	2	7SELECT
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
TOTAL		22	9	27	

SECOND YEAR, FIRST SEMESTER

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
BASCAD	Basic Computer-Aided Drafting	0	3	1	ARCDRAW
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
7FUNGAM	Fundamentals of Games and Sports	2	0	2	7RHYACT
TOTAL		22	6	24	

SECOND YEAR, SECOND SEMESTER

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
COMFUN	Computer Fundamentals and Programming	0	6	2	2nd Year Standing
APCAD	Advanced Computer-Aided Drafting and Applications	0	3	1	BASCAD
4RIZAL	Life and Works of Rizal	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
7REACT	Recreational Activities	2	0	2	7FUNGAM
TOTAL		22	12	26	

THIRD YEAR, FIRST SEMESTER

STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
CKTS1	Circuits1 Lecture	3	0	3	PHYSICS2, PHYSICS2L, INTECAL
CKTS1L	Circuits1 Laboratory	0	3	1	Coreq: CKTS1
ELECDEV	Electronic Devices and Circuits Lecture	3	0	3	PHYSICS2, PHYSICS2L, INTECAL
ELECDEVL	Electronic Devices and Circuits Laboratory	0	3	1	Coreq: ELECDEV
DIFEQNS	Differential Equations	3	0	3	INTECAL
ENVISAFE	Environmental Engineering and Safety Management	3	0	3	GENCHEM2, 3rd Year Standing
4PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	None
4PHILOMAN	Philosophy of Man	3	0	3	None
TOTAL		21	6	23	

THIRD YEAR, SECOND SEMESTER

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	Advanced Engineering Mathematics	3	0	3	DIFEQNS
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
TOTAL		23	6	25	

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FOURTH YEAR, FIRST SEMESTER

VECTAN	Vector Analysis	3	0	3	INTECAL
PULSWITCH	Pulse and Switching Electronics	3	0	3	ELECAD, ELECADL
PULSWITCHL	Pulse and Switching Electronics Laboratory	0	3	1	Coreq: PULSWITCH
FUNMATLS	Fundamentals of Materials Science and Engineering	3	0	3	GENCHEM2, PHYSICS2, PHYSICS2L
ECEDSP	Signals, Spectra and Signal Processing	3	0	3	PROSTAT, ADVMATH
ECEDSPL	Signals, Spectra and Signal Processing Laboratory	0	3	1	Coreq: ECEDSP
INDELEX	Industrial Electronics	3	0	3	ELECAD, ELECADL
INDELEXL	Industrial Electronics Laboratory	0	3	1	Coreq: INDELEX
PRINCOM	Principles of Communications	3	0	3	ELECAD, ELECADL, ADVMATH
PRINCOML	Principles of Communications Laboratory	0	3	1	Coreq: PRINCOM
ICT1	Information and Communications Technology 1	0	4	1	COMFUN
TOTAL		18	16	23	

FOURTH YEAR, SECOND SEMESTER

ELECMAG-ECE	Electromagnetics	3	0	3	PHYSICS2, PHYSICS2L, VECTAN
DISMATH	Discrete Mathematics	3	0	3	ALGEBRA2
NUMMETHCA	Numerical Methods with Computer Applications	3	3	4	ADVMATH, COMFUN
DIGICOM-ECE	Digital Communications Lecture	3	0	3	PRINCOM, PRINCOML
DIGICOML-ECE	Digital Communications Laboratory	0	3	1	Coreq: DIGICOM-ECE
LOGCAST	Logic Circuits and Switching Theory	3	0	3	ELECAD, ELECADL
LOGCASTL	Logic Circuits and Switching Theory Laboratory	0	3	1	Coreq: LOGCAST
ICT2	Information and Communications Technology 2	0	4	1	ICT1
P DPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
TOTAL		16	13	20	

FOURTH YEAR, SUMMER TERM

ECEOJT	ECE On-the-Job Training (320 hours)			3	4th Year Standing
TOTAL				3	

FIFTH YEAR, FIRST SEMESTER

TRANSMED	Transmission Media and Antenna Systems	3	0	3	DIGICOM-ECE, DIGICOML-ECE, ELECMAG-ECE
TRANSMEDL	Transmission Media and Antenna Systems Laboratory	0	3	1	Coreq: TRANSMED
MICPRONS	Microprocessors and Microcontrollers Systems	3	0	3	LOGCAST, LOGCASTL, ELECAD, ELECADL, COMFUN
MICPRONSL	Microprocessors and Microcontrollers Systems Laboratory	0	3	1	Coreq: MICPRONS
FCONSYS-ECE	Feedback and Control Systems	3	0	3	CKTS2, CKTS2L, ADVMATH
FCONSYSL-ECE	Feedback and Control Systems Laboratory	0	3	1	Coreq: FCONSYS-ECE
ESTHERM	Thermodynamics	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ECETOPICS	Special Topics and Issues in Electronics Engineering	0	3	1	INDELEX, INDELEXL
ECEREPRO1	ECE Research Project 1	0	3	1	ECEOJT, Coreq: MICPRONS, MICPRONSL
ICT3	Information and Communications Technology 3	0	4	1	ICT2
ECEELECT1	ECE Elective 1			3	
ECEELECT2	ECE Elective 2			3	
TOTAL		12	19	24	

FIFTH YEAR, SECOND SEMESTER

DATAKOM-ECE	Data Communications	3	0	3	DIGICOM-ECE, DIGICOML-ECE, ICT3
DATAKOML-ECE	Data Communications Laboratory	0	3	1	Coreq: DATAKOM-ECE
ECELAW	ECE Laws, Contracts and Ethics	3	0	3	5th Year Standing
ECESEFT	ECE Seminars and Field Trips	0	3	1	ECETOPICS
ENERCON	Energy Conversion Lecture	3	0	3	ELECMAG-ECE, CKTS2, CKTS2L
ENERCONL	Energy Conversion Laboratory	0	3	1	Coreq: ENERCON
ECEREPRO2	ECE Research Project 2	0	3	1	ECEREPRO1
BROADCAST	Broadcasting Engineering and Acoustics	3	0	3	TRANSMED, TRANSMEDL
BROADCASTL	Broadcasting Engineering and Acoustics Laboratory	0	3	1	Coreq: BROADCAST
ECEELECT3	ECE Elective 3			3	
ECEELECT4	ECE Elective 4			3	
TOTAL		12	15	23	

COURSE TOTAL

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ELECTIVES

ECECAD-ECE	Computer-Aided Circuit Analysis and Design in ECE	3	0	3	ELECAD, ELECADL
ECECOMPINT	ECE Computer Interfacing and Programming	3	0	3	ELECAD, ELECADL
NAVIGAIDS	Navigational Aids	3	0	3	TRANSMED, TRANSMEDL
INCNTRLS-CPE	Instrumentation and Controls	3	0	3	INDELEX, INDELEXL
MECHTRONX	Mechatronics	2	3	3	FCONSYS-ECE, FCONSYSL-ECE
POWERELEC	Power Electronics	3	0	3	ELECDEV, ELECDEVL, ELECMAG-ECE
COMP SAR	Computer Systems Architecture	3	0	3	LOGCAST, LOGCASTL
DIGICOS	Digital Control Systems	3	0	3	FCONSYS-ECE, FCONSYSL-ECE
WIRELESSCOM	Wireless Communications	3	0	3	Coreq: TRANSMED, TRANSMEDL
COMMSYS	Communications Systems Design	2	3	3	WIRELESSCOM
LOGISTICS	Logistics Engineering and Management	3	0	3	4th Year Standing
DATASTRAN	Data Structures and Algorithms Analysis	3	0	3	COMFUN
ROBOTICS	Robotics	3	0	3	FCONSYS-ECE, FCONSYSL-ECE
ENTREPP	Entrepreneurship	3	0	3	5th Year Standing

IMPORTANT: Registration in any subject is allowed only upon passing the prerequisite(s) of the said subject, if any. A subject enrolled in violation of this rule will not be given any credit regardless of the grade obtained.