

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Program Code: EE 2014 (With Addendum)
SCHOOL YEAR 2014-2015

COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S) COREQUISITE(S)
FIRST YEAR, FIRST SEMESTER					
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
	TOTAL	20	9	25	

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
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
	TOTAL	21	3	24	

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
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
	TOTAL	22	9	25	

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
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
	TOTAL	22	6	24	

THIRD YEAR, FIRST SEMESTER					
CKTS1	Circuits 1 Lecture	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
CKTS1L	Circuits 1 Laboratory	0	3	1	Coreq: CKTS1
DIFEQNS	Differential Equations	3	0	3	INTECAL
ELECMAG	Electromagnetics	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ELECDEV	Electronic Devices and Circuits Lecture	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ELECDEVL	Electronic Devices and Circuits Laboratory	0	3	1	Coreq: ELECDEV
ENVISAFETY	Environmental Engineering and Safety Management	3	0	3	CHEMISTRY, CHEMISTRYL, 3rd Year Standing
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
4PRINECO	Principles of Economics with Taxation and Land Reform	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
ADVMATH-EE	Advanced Engineering Mathematics for EE	4	0	4	DIFEQNS
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
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
ESTHERM	Thermodynamics	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
MATERIALSCI	Fundamentals of Material Science and Engineering	3	0	3	CHEMISTRY, CHEMISTRYL, PHYSICS2, PHYSICS2L
	TOTAL	24	6	26	

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COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S) COREQUISITE(S)
FOURTH YEAR, FIRST SEMESTER					
CKTS3	Circuits 3 Lecture	3	0	3	CKTS2, CKTS2L
CKTS3L	Circuits 3 Laboratory	0	3	1	Coreq: CKTS3
DCMAC	DC Machinery	3	0	3	CKTS2, CKTS2L
DCMACL	DC Machinery Laboratory	0	3	1	Coreq: DCMAC
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
LOGCAST	Logic Circuits and Switching Theory	3	0	3	ELECAD, ELECADL
LOGCASTL	Logic Circuits and Switching Theory Laboratory	0	3	1	Coreq: LOGCAST
MECHFLU	Mechanics of Fluids	2	0	2	DYNAMICS, MDEFBOD
NUMET-EE	Numerical Methods with Computer Applications	3	3	4	COMFUN2, ADVMATH-EE
PRINCOM-EE	Principles of Communications	3	0	3	ELECAD, ELECADL, ADVMATH-EE
PRINCOML-EE	Principles of Communications Laboratory	0	3	1	Coreq: PRINCOM-EE
TOTAL		20	15	25	

FOURTH YEAR, SECOND SEMESTER					
ACADA-EE	Advanced Computer-Aided Drafting and Applications for EE	0	3	1	BCADRAFT
ACAPP	AC Apparatus and Devices	3	0	3	Coreq: ACMAC
ACAPPL	AC Apparatus and Devices Laboratory	0	3	1	Coreq: ACAPP
ACMAC	AC Machinery	4	0	4	DCMAC, DCMACL, CKTS3, CKTS3L
ACMACL	AC Machinery Laboratory	0	3	1	Coreq: ACMAC
EEPROJT1	Project Study 1 (Research Methods for EE)	1	0	1	4th Year Standing
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
FBCON-EE	Feedback and Control Systems	3	0	3	CKTS2, CKTS2L, ADVMATH-EE
INDELEX	Industrial Electronics	3	0	3	ELECAD, ELECADL
INDELEXL	Industrial Electronics Laboratory	0	3	1	Coreq: INDELEX
INFORMTECH	Information Technology	2	3	3	PRINCOM-EE, PRINCOML-EE
PDPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
TOTAL		20	15	25	

FOURTH YEAR, SUMMER TERM					
EEOJT	Electrical Engineering On-the-Job Training (320 hours)			3	ACAPP, ACAPPL
TOTAL		0	0	3	

FIFTH YEAR, FIRST SEMESTER					
4RIZAL	Life and Works of Rizal	3	0	3	None
EEPROJT2	Project Study 2 (Research Project)	0	3	1	EEPROJT1, EEOJT
EESAFETY	EE Safety	1	0	1	ENVISAFETY, 5th Year Standing
ELECSYS-EE	Electrical Systems Design	3	3	4	ACAPP, ACAPPL
ELTRANDIS	Electrical Transmission and Distribution Systems	3	3	4	ACMAC, ACMACL, CKTS3, CKTS3L
ILLUMENG	Illumination Engineering Design	2	3	3	Coreq: ELECSYS-EE
INCNTRLS-EE	Instrumentation and Controls	2	0	2	INDELEX, INDELEXL
INCNTRLSL-EE	Instrumentation and Controls Laboratory	0	3	1	Coreq: INCNTRLS-EE
EELECT1	EE Elective 1	3	0	3	
EELECT2	EE Elective 2	3	0	3	
TOTAL		20	15	25	

FIFTH YEAR, SECOND SEMESTER					
EE-ETHICS	EE Laws, Contracts and Ethics	2	0	2	5th Year Standing
EEQUIP	Electrical Equipment Operation and Maintenance	3	0	3	ACAPP, ACAPPL
EESFT	EE Seminars and Field Trips	1	0	1	5th Year Standing
EETOPICS	Special Topics in Electrical Engineering	0	6	2	5th Year Standing
MICROP	Microprocessor Systems	2	0	2	LOGCAST, LOGCASTL
MICROPL	Microprocessor Systems Laboratory	0	3	1	Coreq: MICROP
POWSYS-EE	Power Systems Analysis and Design	3	3	4	ELECSYS-EE
POWPLNT-EE	Power Plant Engineering	2	3	3	Coreq: POWSYS-EE
EELECT3	EE Elective 3	3	0	3	
EELECT4	EE Elective 4	3	0	3	
TOTAL		19	15	24	

COURSE TOTAL

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TECHNICAL ELECTIVES

PNEUMAT	Pneumatics and Process Control	3	0	3	DCMAC, DCMACL
EPNEUMAT	Electropneumatics	3	0	3	DCMAC, DCMACL
ADVCTRL	Advanced Industrial Motor Control	3	0	3	DCMAC, DCMACL
PLCMANU	Programmable Logic Controllers in Manufacturing and Power Systems	3	0	3	PNEUMAT
EEHMI	Human-Machine Interface (Mechatronics)	3	0	3	PNEUMAT

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.