

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
EFFECTIVE S.Y. 2010 - 2011

FIRST YEAR, FIRST SEMESTER

COURSE CODE	COURSE TITLE	NO. OF HOURS			PREREQUISITE
		LEC.	LAB.	UNITS	
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
5THEO1	Doing Catholic Theology for Today's Filipino	3	0	3	NONE
5ORIENT	Orientation	1	0	1	NONE
7SELECT	Self-Testing Activities	2	0	2	NONE
NSTP1	National Service Training Program 1			3	NONE
		20	6	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
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
5LOGIC	Logic	3	0	3	NONE
5ARTAPP	Art Appreciation	3	0	3	NONE
5THEO2	Christian Moral Living of Today's Filipino	3	0	3	5THEO1
7RHYACT	Fundamentals of Rhythmic Activities	2	0	2	7SELECT
NSTP2	National Service Training Program 2			3	NSTP1
		22	6	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
5THEO3	A Catholic View of Sexuality, Marriage and Family life	3	0	3	5THEO2
7FUNGAM	Fundamentals of Games and Sports	2	0	2	7RHYACT
		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 YR STANDING
APCAD	Advanced Computer-Aided Drafting and Applications	0	3	1	BASCAD
4RIZAL	Life and Works of Rizal	3	0	3	NONE
4PHIGOV	Politics and Governance with Philippine Constitution	3	0	3	4PHILHIS
3FILBAS	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	3FILKOM
5THEO4	A Theology of Social Transformation for the Filipino Catholic	3	0	3	5THEO3
7REACT	Recreational Activities	2	0	2	7FUNGAM
		22	12	26	

THIRD YEAR, FIRST SEMESTER

CKTS1	Circuits 1 Lecture	3	0	3	PHYSICS2, PHYSICS2L, INTECAL
CKTS1L	Circuits 1 Laboratory	0	3	1	Coreq.: CKTS1
DIFEQNS	Differential Equations	3	0	3	INTECAL
ELECMAG	Electromagnetics	3	0	3	PHYSICS2, PHYSICS2L, INTECAL
ELECDEV	Electronic Devices and Circuits Lecture	3	0	3	PHYSICS2, PHYSICS2L, INTECAL
ELECDEVL	Electronic Devices and Circuits Laboratory	0	3	1	Coreq.: ELECDEV
ENVISAFE	Environmental Engineering and Safety Management	3	0	3	GENCHEM2, 3rd YR STANDING
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L
5PHILOMAN	Philosophy of Man	3	0	3	NONE
PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	NONE
		24	6	26	

THIRD YEAR, SECOND SEMESTER

DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
ADVMMATH	Advanced Engineering Mathematics	3	0	3	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 YR STANDING
ESTHERM	Thermodynamics	3	0	3	PHYSICS2, PHYSICS2L, INTECAL
FUNMATLS	Fundamentals of Materials Science and Engineering	3	0	3	GENCHEM2, PHYSICS2, PHYSICS2L
		23	6	25	

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FOURTH YEAR, FIRST SEMESTER

COURSE CODE	COURSE TITLE	NO. OF HOURS			PREREQUISITE
		LEC.	LAB.	UNITS	
PRINCOM	Principles of Communications Lecture	3	0	3	ELECAD, ELECADL, ADVMATH
PRINCOML	Principles of Communications Laboratory	0	3	1	Coreq.: PRINCOM
CKTS3	Circuits 3 Lecture	3	0	3	CKTS2, CKTS2L
CKTS3L	Circuits 3 Laboratory	0	3	1	Coreq.: CKTS3
LOGCAST	Logic Circuit and Switching Theory Lecture	3	0	3	ELECDEV, ELECDEVL
LOGCASTL	Logic Circuit and Switching Theory Laboratory	0	3	1	Coreq.: LOGCAST
NUMMETH	Numerical Methods with Computer Application	3	3	4	ADVMATH, COMFUN
FLUMECH	Mechanics of Fluid	2	0	2	DYNAMICS
ESENMGMT	Engineering Management	3	0	3	3rd YR STANDING
DCMAC	DC Machinery	3	0	3	CKTS2, CKTS2L
DCMACL	DC Machinery Laboratory	0	3	1	Coreq.: DCMAC
		20	15	25	

FOURTH YEAR, SECOND SEMESTER

CONSYS	Control Systems	3	0	3	CKTS2, CKTS2L, ADVMATH
IELEX	Industrial Electronics	3	0	3	ELECAD, ELECADL
IELECSL	Industrial Electronics Laboratory	0	3	1	Coreq.: IELEX
ACMAC	AC Machinery	4	0	4	DCMAC, DCMACL, CKTS3, CKTS3L
ACMACL	AC Machinery Laboratory	0	3	1	Coreq.: ACMAC
ACAPP	AC Apparatus and Devices	3	0	3	Coreq.: ACMAC, ACMACL
ACAPPL	AC Apparatus and Devices Laboratory	0	3	1	Coreq.: ACAPP
ESENECO	Engineering Economy	3	0	3	3rd YR STANDING
INFOTECH	Information Technology	2	3	3	PRINCOM, PRINCOML
PDPR	Personality Development and Public Relations	1	0	1	4th YR STANDING
		19	12	23	

FOURTH YEAR, SUMMER

EEOJT	Electrical Engineering On-the-Job Training (minimum of 320 hours)			3	ACAPP, ACAPPL
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FIFTH YEAR, FIRST SEMESTER

MICROP	Microprocessor System	2	0	2	LOGCAST, LOGCASTL
MICROPL	Microprocessor System Lab	0	3	1	Coreq.: MICROP
EEPROJT1	Project Study 1 (Research Methods for EE)	1	0	1	5th YR STANDING
ELECSYS	Electrical System Design	3	3	4	ACAPP, ACAPPL
ILUMENG	Illumination Engineering Design	2	3	3	Coreq.: ELECSYS
ELTRANDIS	Electrical Transmission and Distribution System	3	3	4	ACMAC, ACMACL, CKTS3, CKTS3L
INCTRL	Instrumentation and Control	2	0	2	IELEX, IELECSL
INCTRL	Instrumentation and Control Laboratory	0	3	1	Coreq.: INCTRL
EELECT1	EE Elective 1	3	0	3	
EELECT2	EE Elective 2	3	0	3	
		19	15	24	

FIFTH YEAR, SECOND SEMESTER

EETOPICS	Special Topics in Electrical Engineering	0	6	2	5th YR STANDING
EEQUIP	Electrical Equipment Operation and Maintenance	3	0	3	ACAPP, ACAPPL
EESFT	EE Seminars and Field Trips	1	0	1	5th YR STANDING
EEPROJT2	Project Study 2 (Research Project)	0	3	1	EEPROJT1
POWSYS	Power System Analysis and Design	3	3	4	ELECSYS
EETHICS	EE Laws, Contracts, and Ethics	2	0	2	5th YR STANDING
SAFETY	EE Safety	1	0	1	ENVISAFE, 5th YR STANDING
POWPLNT	Power Plant Engineering	2	3	3	Coreq.: POWSYS
EELECT3	Elective 3	3	0	3	
EELECT4	Elective 4	3	0	3	
		18	15	23	

TECHNICAL ELECTIVES

Machine Automation and Process Control

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