

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

FIRST YEAR, FIRST SEMESTER

COURSE CODE	COURSE TITLE	NO. OF HOURS			PREREQUISITE
		LEC.	LAB.	UNITS	
ALGEBRA1	Collge 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 Checmistry 1 Laboratoary	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	Collge 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

DIFEQNS	Differential Equations	3	0	3	INTECAL
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L
WORKSHOP	Workshop Theory and Practice	0	6	2	ESDRAW
MACHE1	Machine Elements 1	2	3	3	APCAD, PHYSICS1, PHYSICS1L
ESELME	Elementary Electrical Engineering	2	0	2	PHYSICS2, PHYSICS2L
ESELMEL	Elementary Electrical Engineering Laboratory	0	3	1	Coreq: ESELME
THERM1	Thermodynamics 1	4	0	4	INTECAL, PHYSICS2, PHYSICS2L
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd YR. STANDING
MEORIENT	Orientation to ME	1	0	1	NONE
5PHILOMAN	Philosophy of Man	3	0	3	NONE
		21	12	25	

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THIRD YEAR, SECOND SEMESTER

COURSE CODE	COURSE TITLE	NO. OF HOURS			PREREQUISITE	
		LEC.	LAB.	UNITS		
_____	DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
_____	ADNUMET	Advanced Engineering Mathematics with Numerical Methods	3	0	3	DIFEQNS
_____	MACHE2	Machine Elements 2	2	3	3	MACHE1
_____	MCSHOP	Machine Shop Theory	0	6	2	WORKSHOP
_____	THERMO2	Thermodynamics 2	3	0	3	THERM1
_____	DCACMC	DC and AC Machinery Lecture	3	0	3	ESELME, ESELMEL
_____	DCACMCL	DC and AC Machinery Laboratory	0	3	1	Coreq.: DCACMC
_____	ESFLUID	Fluid Mechanics	3	0	3	THERM1, Coreq.: DYNAMICS
_____	ENVISAFE	Environmental Engineering and Safety Management	3	0	3	GENCHEM2, 3rd YR. STANDING
_____	PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	NONE
			22	12	26	

FOURTH YEAR, FIRST SEMESTER

_____	MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
_____	MELAB1	ME Laboratory 1	0	6	2	THERMO2, ESFLUID
_____	HTTRANS	Heat Transfer	2	0	2	ESFLUID
_____	FLUMACH	Fluid Machinery	3	0	3	ESFLUID
_____	ESENMGT	Engineering Management	3	0	3	3rd YR. STANDING
_____	ESENECO	Engineering Economy	3	0	3	3rd YR. STANDING
_____	ESELEC	Basic Electronics	2	0	2	ESELME, ESELMEL
_____	ESELECL	Basic Electronics Laboratory	0	3	1	Coreq: ESELEC
_____	PDPR	Personality Development and Public Relations	1	0	1	4th YR. STANDING
_____	MEELECT1	ME Elective 1	3	0	3	
			20	9	23	

FOURTH YEAR, SECOND SEMESTER

_____	MATLS	Materials Engineering	3	0	3	GENCHEM2, MDEFBOD
_____	MATLSL	Materials Engineering Laboratory	0	3	1	Coreq: MATLS
_____	MELAB2	ME Laboratory 2	0	6	2	MELAB1, HTTRANS
_____	REFSYS	Refrigeration Systems	3	0	3	THERMO2, HTTRANS
_____	MCDES1	Machine Design 1	3	3	4	MACHE2, MDEFBOD, Coreq: MATLS, MATLSL
_____	CONTROLS	Instrumentation and Control Engineering Lecture	2	0	2	ESELEC, ESELECL
_____	CONTROLSSL	Instrumentation and Control Engineering Laboratory	0	3	1	Coreq.: CONTROLS
_____	MERES	Methods of Research for ME	2	0	2	1TECHCOM, PROSTAT
_____	INPROCS	Industrial Processes	2	0	2	MELAB1
_____	SAFETYME	Safety Engineering for ME	2	0	2	4th YR STANDING, Coreq: INPROCS
			17	15	22	

FOURTH YEAR, SUMMER

_____	MEOJT	Mechanical Engineering OJT (minimum of 320 hours)			3	MEORIENT, Coreq: INPROCS, SAFETYME
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FIFTH YEAR, FIRST SEMESTER

_____	MECHTRON	Mechatronics Lecture	2	0	2	CONTROLS, CONTROLSSL
_____	MECHTRONL	Mechatronics Laboratory	0	3	1	Coreq.: MECHTRON
_____	MCDES2	Machine Design 2	3	3	4	MCDES1
_____	AIRCONVEN	Airconditioning and Ventilation Systems	2	3	3	REFSYS
_____	MELAB3	ME Laboratory 3	0	6	2	MELAB2
_____	COMBUST	Combustion Engineering	3	0	3	THERMO2, HTTRANS
_____	MEETHICS	ME Laws, Ethics, Codes, and Standards	3	0	3	5th YR. STANDING, MEORIENT
_____	MEPROJ1	ME Project Study 1	0	3	1	MERES, 5th YR. STANDING
_____	MEELECT2	ME Elective 2	3	0	3	
			16	18	22	

FIFTH YEAR, SECOND SEMESTER

_____	PWRENGG	Power Plant Engineering	4	3	5	COMBUST, FLUMACH
_____	INDPLANT	Industrial Plant Engineering	4	0	4	INPROCS
_____	MEPROJ2	ME Project Study 2	0	3	1	MEPROJ1
_____	VIBENGG	Vibration Engineering	2	0	2	DIFEQNS, DYNAMICS
_____	METOPICS	Special Topics in Mechanical Engineering	0	6	2	5th YR STANDING
_____	MEELECT3	ME Elective 3	3	0	3	
_____	MEELECT4	ME Elective 4	3	0	3	
			16	12	20	

ELECTIVE COURSES

_____	SMIE	Sustainable Manufacturing and Industrial Ecology	3	0	3	5th YR STANDING
_____	ENTREP	Entrepreneurship for Engineers	3	0	3	ESENECO
_____	ALTERES	Alternative Energy Resource	3	0	3	4th YR. STANDING
_____	MANTECH	Management of Technology	3	0	3	ESENMGT
_____	ADMECHA	Advanced Mechatronics	3	0	3	MECHTRON, MECHTRONL
_____	LOGISTICS	Logistics Engineering and Management	3	0	3	4th YR. STANDING
_____	INLUBRIC	Industrial Lubrication	3	0	3	4th YR. STANDING
_____	PWRPOPM	Power Plant Operations and Maintenance	3	0	3	MELAB3
_____	AERO	Aerodynamics	3	0	3	THERMO2
_____	AUTOMOTIVE	Automotive Engineering	3	0	3	COMBUST
_____	VENTAIR	Ventilation and Air-Conditioning	3	0	3	AIRCONVEN
_____	COMAIDED	Computer Aided Design and Manufacturing	3	0	3	APCAD, 4th YR. STANDING