

HOLY ANGEL UNIVERSITY  
COLLEGE OF ENGINEERING AND ARCHITECTURE  
**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**

Program Code: ME  
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
	<b>TOTAL</b>	<b>20</b>	<b>9</b>	<b>25</b>	

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
	<b>TOTAL</b>	<b>21</b>	<b>3</b>	<b>24</b>	

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
	<b>TOTAL</b>	<b>22</b>	<b>9</b>	<b>25</b>	

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
	<b>TOTAL</b>	<b>22</b>	<b>6</b>	<b>24</b>	

THIRD YEAR, FIRST SEMESTER					
DIFEQNS	Differential Equations	3	0	3	INTECAL
MECAD	Computer-Aided Drafting Applications for ME	0	3	1	BCADRAFT
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
WORKSHOP	Workshop Theory and Practice	0	6	2	ESDRAW
ESELME	Elementary Electrical Engineering Lecture	2	0	2	PHYSICS2, PHYSICS2L
ESELMEL	Elementary Electrical Engineering Laboratory	0	3	1	Coreq: ESELME
THERMOD1	Thermodynamics 1	4	0	4	INTECAL, PHYSICS2, PHYSICS2L
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
MEORIENT	Orientation to Mechanical Engineering	1	0	1	3rd Year Standing
4PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	None
	<b>TOTAL</b>	<b>19</b>	<b>12</b>	<b>23</b>	

THIRD YEAR, SECOND SEMESTER					
DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
ADNUMET	Advanced Engineering Mathematics with Numerical Methods	3	0	3	DIFEQNS
MACHELEM1	Machine Elements 1	2	3	3	MECAD, PHYSICS1, PHYSICS1L
MCSHOP	Machine Shop Theory and Practice	0	6	2	WORKSHOP
THERMOD2	Thermodynamics 2	3	0	3	THERMOD1
DCACMC	DC and AC Machinery Lecture	3	0	3	ESELMEL, ESELMEL
DCACMCL	DC and AC Machinery Laboratory	0	3	1	Coreq: DCACMC
FLUIDMECH	Fluid Mechanics	3	0	3	THERMOD1, Coreq: DYNAMICS
ENVISAFETY	Environmental Engineering and Safety Management	3	0	3	CHEMISTRY, CHEMISTRYL, 3rd Year Standing
	<b>TOTAL</b>	<b>19</b>	<b>12</b>	<b>23</b>	

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COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S) COREQUISITE(S)
FOURTH YEAR, FIRST SEMESTER					
MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
MACHELEM2	Machine Elements 2	2	3	3	MACHELEM1
ME-LAB1	ME Laboratory 1	0	6	2	THERMOD2, FLUIDMECH
HEATXFER	Heat Transfer	2	0	2	DIFEQNS, FLUIDMECH
FLUMACH	Fluid Machinery	3	0	3	FLUIDMECH
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
ESELEC	Basic Electronics	2	0	2	ESELME, ESELMEL
ESELECL	Basic Electronics Laboratory	0	3	1	Coreq: ESELEC
P DPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
MEELECT1	ME Elective 1	3	0	3	
TOTAL		22	12	26	

FOURTH YEAR, SECOND SEMESTER					
MATENGG	Materials Engineering	3	0	3	CHEMISTRY, CHEMISTRYL, MDEFBOD
MATENGL	Materials Engineering Laboratory	0	3	1	Coreq: MATENGG
MACHDES1	Machine Design 1	3	3	4	MDEFBOD, MACHELEM2 Coreq: MATENGG, MATENGL
CONTROLS-ME	Instrumentation and Controls Engineering	2	0	2	ESELEC, ESELECL
CONTROLSL-ME	Instrumentation and Controls Engineering Laboratory	0	3	1	Coreq: CONTROLS-ME
MERES	Methods of Research for ME	2	0	2	1TECHCOM, PROSTAT
REFRIGE	Refrigeration Systems	3	0	3	THERMOD2, HEATXFER
ME-LAB2	ME Laboratory 2	0	6	2	ME-LAB1, HEATXFER
INDPROCS	Industrial Processes	2	0	2	ME-LAB1
SAFETY-ME	Safety Engineering for ME	2	0	2	4th Year Standing, Coreq: INDPROCS
4RIZAL	Life and Works of Rizal	3	0	3	None
TOTAL		20	15	25	

FOURTH YEAR, SUMMER TERM					
ME-OJT	Mechanical Engineering On-the-Job Training (320 hours)			3	MEORIENT, INDPROCS, SAFETY-ME
TOTAL				3	

FIFTH YEAR, FIRST SEMESTER					
MECHATRON	Mechatronics	2	0	2	CONTROLS-ME, CONTROLSL-ME
MECHATRONL	Mechatronics Laboratory	0	3	1	Coreq: MECHATRON
MACHDES2	Machine Design 2	3	3	4	MACHDES1
AIRCONVENT	Airconditioning and Ventilation Systems	2	3	3	REFRIGE
ME-LAB3	ME Laboratory 3	0	6	2	ME-LAB2
COMBUSTION	Combustion Engineering	3	0	3	THERMOD2, HEATXFER
MEETHICS	ME Laws, Ethics, Codes and Standards	3	0	3	MEORIENT, 5th Year Standing
ME-PROJ1	ME Project Study 1	0	3	1	MERES, ME-OJT, 5th Year Standing
MEELECT2	ME Elective 2	3	0	3	
TOTAL		16	18	22	

FIFTH YEAR, SECOND SEMESTER					
PWPLANT	Power Plant Engineering	4	3	5	FLUMACH, COMBUSTION
INDPENG	Industrial Plant Engineering	4	0	4	INDPROCS
ME-PROJ2	ME Project Study 2	0	3	1	ME-PROJ1
VIBENGG	Vibration Engineering	2	0	2	DIFEQNS, DYNAMICS
METOPICS	Special Topics in Mechanical Engineering	0	6	2	5th Year Standing
MEELECT3	ME Elective 3	3	0	3	
MEELECT4	ME Elective 4	3	0	3	
TOTAL		16	12	20	

COURSE TOTAL 240

ELECTIVE COURSES

SMIE	Sustainable Manufacturing and Industrial Ecology	3	0	3	5th Year Standing
ENTREPP	Entrepreneurship	3	0	3	5th Year Standing
ALTERES	Alternative Energy Resources	3	0	3	4th Year Standing
MANTECH	Management of Technology	3	0	3	ESENMGT
ADMECHA-ME	Advanced Mechatronics	3	0	3	MECHATRON, MECHATRONL
LOGISTICS	Logistics Engineering and Management	3	0	3	4th Year Standing
INLUBRIC	Industrial Lubrication	3	0	3	4th Year Standing
PWPOPSMAIN	Power Plant Operations and Maintenance	3	0	3	ME-LAB3
AERO	Aerodynamics	3	0	3	THERMOD2
AUTOENGG	Automotive Engineering	3	0	3	Coreq: COMBUSTION
ADVNTAIR	Advanced Ventilation and Airconditioning	3	0	3	AIRCONVENT
CADMANU	Computer-Aided Design and Manufacturing	3	0	3	MECAD, 4th 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.