

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN INDUSTRIAL 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

DIFEQNS	Differential Equations	3	0	3	INTECAL
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L
INMATPRO	Industrial Materials and Processes	3	0	3	PHYSICS1, PHYSICS1L, GENCHEM2
INMATPROL	Industrial Materials and Processes (Lab.)	0	3	1	Coreq.: INMATPRO
ESENMGT	Engineering Management	3	0	3	3RD YEAR STANDING
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3RD YEAR STANDING
5PHILOMAN	Philosophy of Man	3	0	3	NONE
IEORIENT	Orientation to IE	1	0	1	NONE
		19	3	20	

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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
MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
ENVISAFE	Environmental Engineering and Safety Management	3	0	3	GENCHEM2, 3rd YR STANDING
FINAC	Financial Accounting	3	0	3	3RD YEAR STANDING
METHODS	Methods Study	4	0	4	PROSTAT, INMATPRO, INMATPROL
METHODSL	Methods Study Laboratory	0	3	1	COREQ: METHODS
ADNUMET	Advanced Engineering Mathematics with Numerical Methods	3	0	3	DIFEQNS
PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	NONE
ADSTAT	Advanced Statistics	3	0	3	PROSTAT
		24	3	25	

FOURTH YEAR, FIRST SEMESTER

MGRDAC	Managerial Accounting	3	0	3	FINAC
ERGONOMS	Ergonomics	2	3	3	METHODS, METHODSL
IQC	Industrial Quality Control	3	0	3	ADSTAT, METHODS, METHODSL
ESENECO	Engineering Economy	3	0	3	3RD YEAR STANDING
OPERESE1	Operations Research 1	3	0	3	ADNUMET
ESTHERM	Thermodynamics	3	0	3	PHYSICS2, PHYSICS2L, INTECAL
PDPR	Personality Development and Public Relations	1	0	1	4th YR STANDING
IEELECT1	IE Elective 1	3	0	3	
		21	3	22	

FOURTH YEAR, SECOND SEMESTER

MKTGSYS	Marketing Systems	3	0	3	4TH YEAR STANDING
OPERESE2	Operations Research 2	2	3	3	OPERESE1
PRODSYST1	Production Systems1	3	3	4	OPERESE1, IQC
ELENGG	Basic Electrical Engineering	3	0	3	PHYSICS2, PHYSICS2L
4GENSOC	General Sociology	3	0	3	NONE
IFINMAG	Financial Management	3	0	3	FINAC
IEELECT2	IE Elective 2	3	0	3	
		20	6	22	

FOURTH YEAR, SUMMER

IEOJT	Industrial Engineering On-the-Job Training (minimum of 320 hours)			3	4TH YEAR STANDING, METHODS, METHODSL
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FIFTH YEAR, FIRST SEMESTER

FACPLAND	Facilities Planning and Design	3	0	3	PRODSYST1
IEPROJ	Project Feasibility	2	3	3	PRODSYST1, MGRDAC, MKTGSYS
PRODSYST2	Production Systems 2	3	0	3	PRODSYST1
HUMREMA	Human Resources Mgt. & Industrial Psychology	3	0	3	5TH YEAR STANDING
OSAFE	Occupational Safety and Health	2	0	2	5TH YEAR STANDING
PRODDDES	Product and Service Design	2	0	2	INMATPRO, INMATPROL
IELECT3	IE Elective 3	3	0	3	
		18	3	19	

FIFTH YEAR, SECOND SEMESTER

INFOSYST	Information Systems	2	3	3	COMFUN, 5TH YEAR STANDING
IEETHICS	Engineering Values and Ethics	3	0	3	5TH YEAR STANDING
SYSTEMS	Systems Engineering	3	0	3	5TH YEAR STANDING
IETHESIS	Undergraduate Research	1	6	3	5TH YEAR STANDING
IEELECT4	IE Elective 4	3	0	3	
		12	9	15	

TECHNICAL ELECTIVES

ENTREP	Entrepreneurship for Engineers	3	0	3	ESENECO
PACKTECH	Packaging Technology	3	0	3	INMATPRO, INMATPROL
SIMSYST	Systems Simulation	2	3	3	PRODSYST1
OPERLECT	Advanced Operations Research	3	0	3	OPERESE2
IECOMAP	Computer Applications in IE Lecture	2	0	2	4TH YEAR STANDING
IECOMAPL	Computer Applications in IE Laboratory	0	3	1	COREQ.: IECOMAP
IETOPICS	Special Topics in IE	3	0	3	4TH YEAR STANDING
CONTROL	Industrial Pneumatics & PLC Lec.	2	0	2	ELENGG
CONTROLL	Industrial Pneumatics & PLC Lab..	0	3	1	COREQ: CONTROL
FMS	Mechatronics & Flexible Manufacturing Systems Lec.	2	0	2	CONTROL, CONTROLL
FMSL	Mechatronics & Flexible Manufacturing Systems Lab.	0	3	1	COREQ.: FMS
LOGISTICS	Logistic Engineering and Management	3	0	3	4TH YEAR STANDING
SMIE	Sustainable Manufacturing and Industrial Ecology	3	0	3	5TH YEAR STANDING