

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

Program Code: IE
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
ADVCAD	Advanced Computer-Aided Drafting and Applications	0	3	1	BCADRAFT
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	9	25	

THIRD YEAR, FIRST SEMESTER					
DIFEQNS	Differential Equations	3	0	3	INTECAL
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
INMAPROC	Industrial Materials and Processes	3	0	3	CHEMISTRY, CHEMISTRYL, PHYSICS1, PHYSICS1L, ESDRAW
INMAPROCL	Industrial Materials and Processes Laboratory	0	3	1	Coreq: INMAPROC
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
IEORIENT	Orientation to Industrial Engineering	1	0	1	3rd Year Standing
4PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	None
ENVISAFETY	Environmental Engineering and Safety Management	3	0	3	CHEMISTRY, CHEMISTRYL, 3rd Year Standing
TOTAL		22	3	23	

THIRD YEAR, SECOND SEMESTER					
DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
FINAC	Financial Accounting	3	0	3	3rd Year Standing
METSTUDY	Methods Study	4	0	4	PROSTAT, INMAPROC, INMAPROCL
METSTUDYL	Methods Study Laboratory	0	3	1	Coreq: METSTUDY
ESTHERM	Thermodynamics	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ADNUMET	Advanced Engineering Mathematics with Numerical Methods	3	0	3	DIFEQNS
ADSTAT	Advanced Statistics	3	0	3	PROSTAT
TOTAL		21	3	22	

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FOURTH YEAR, FIRST SEMESTER					
MGRLAC	Managerial Accounting	3	0	3	FINAC
ERGONOMX	Ergonomics	3	3	4	METSTUDY, METSTUDYL
IQUALITY	Industrial Quality Control	3	0	3	ADSTAT, METSTUDY, METSTUDYL
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
OPERES1	Operations Research 1	3	0	3	ADNUMET
4GENSOC	General Sociology	3	0	3	None
P DPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
IEELECT1	IE Elective 1			3	
TOTAL		19	3	23	

FOURTH YEAR, SECOND SEMESTER					
IEMKTGSYS	Marketing Systems for IE Projects	3	0	3	4th Year Standing
OPERES2	Operations Research 2	3	0	3	OPERES1
PRODUCT1	Production Systems 1	3	3	4	OPERES1, IQUALITY
ELENGG	Basic Electrical Engineering	3	0	3	PHYSICS2, PHYSICS2L
SYSTEMSAPP	Systems Application	2	0	2	4th Year Standing
IEMETHRES	Methods of Research for Industrial Engineers	3	0	3	METSTUDY, METSTUDYL 4th Year Standing
FINMGMT	Financial Management	3	0	3	FINAC
IEELECT2	IE Elective 2			3	
TOTAL		20	3	24	

FOURTH YEAR, SUMMER TERM					
IE-OJT	Industrial Engineering On-the-Job Training (320 hours)			3	METSTUDY, METSTUDYL, 4th Year Standing
TOTAL				3	

FIFTH YEAR, FIRST SEMESTER					
FACILITIES	Facilities Planning and Design	4	0	4	PRODUCT1
PROJECTFS	Project Feasibility	2	3	3	MGRLAC, IEMKTGSYS, PRODUCT1, IE-OJT
PRODUCT2	Production Systems 2	3	0	3	PRODUCT1
MANTOPICS	Management Topics	3	0	3	ESENMGT
IESYSTEMS	Systems Engineering	3	0	3	SYSTEMSAPP, 5th Year Standing
OCCSAFETY	Occupational Safety and Health	2	0	2	ERGONOMX
PRODSERV	Product and Service Design	2	0	2	INMAPROC, INMAPROCL
IETHESIS1	Undergraduate Research 1	1	0	1	IEMETHRES, 5th Year Standing
TOTAL		20	3	21	

FIFTH YEAR, SECOND SEMESTER					
ISYSTEMS	Information Systems	3	3	4	COMFUN2, 5th Year Standing
IEETHICS	Engineering Values and Ethics	3	0	3	5th Year Standing
IETHESIS2	Undergraduate Research 2	0	6	2	IETHESIS1
4RIZAL	Life and Works of Rizal	3	0	3	None
IEELECT3	IE Elective 3			3	
IEELECT4	IE Elective 4			3	
TOTAL		9	9	18	

COURSE TOTAL

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TECHNICAL ELECTIVES

EPRENEUR	Entrepreneurship	3	0	3	ESENMGT
PACKAGE	Packaging Technology	3	0	3	INMAPROC, INMAPROCL
SIMULATION	Systems Simulation	2	3	3	PRODUCT1
ADVOPERES	Advanced Operations Research	3	0	3	OPERES2
IECOMAP	Computer Applications in Industrial Engineering	2	0	2	4th Year Standing
IECOMAPL	Computer Applications in Industrial Engineering Laboratory	0	3	1	Coreq: IECOMAP
IESTOPICS	Special Topics in Industrial Engineering	3	0	3	METSTUDY, METSTUDYL, 4th Year Standing
CONTROL-IE	Industrial Pneumatics and PLC	2	0	2	ELENGG
CONTROLL-IE	Industrial Pneumatics and PLC Laboratory	0	3	1	Coreq: CONTROL-IE
FMS	Mechatronics and Flexible Manufacturing Systems	2	0	2	CONTROL-IE, CONTROLL-IE
FMSL	Mechatronics and Flexible Manufacturing Systems Laboratory	0	3	1	Coreq: FMS
ELOGISTICS	Logistics Engineering and Management	3	0	3	ESENMGT, 4th Year Standing
SMIE	Sustainable Manufacturing and Industrial Ecology	3	0	3	5th Year Standing
SYSAPPS	Systems, Applications and Products	0	3	1	PRODUCT1, 5th Year Standing
BNETWRK-IE	Basic Networking for Industrial Engineering	0	4	1	COMFUN2, 5th 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.