

HOLY ANGEL UNIVERSITY
SCHOOL OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING (BSIE)

Program Code: IE

EFFECTIVE SCHOOL YEAR 2018-2019 (with Amendments)

COURSE CODE	COURSE TITLE	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S)/ CO-REQUISITE(S)
FIRST YEAR, FIRST SEMESTER					
1PURCOMM	Purposive Communication	3	0	3	None
2MATHMWORLD	Mathematics in the Modern World	3	0	3	None
CALC1	Calculus 1 (Differential)	3	0	3	None
CHEMENG	Chemistry for Engineers	3	0	3	None
CHEMENGL	Chemistry for Engineers Laboratory	0	3	1	Co-req: CHEMENG
CADRAFTING	Computer-Aided Drafting	0	3	1	None
4FYE1	Big History 1: Big Bang to the Future	3	0	3	None
THEOLOGY101	Theological Foundations: Judeo-Christian Tradition and Sacred Scriptures	3	0	3	None
7PE1	PE 1 - Movement Enhancement	2	0	2	None
CWTS1	Civic Welfare Training Service	0	3	3	None
TOTAL		20	9	25	

FIRST YEAR, SECOND SEMESTER

4ARTAPP	Art Appreciation	3	0	3	None
4READPHILHIS	Readings in Philippine History	3	0	3	None
CALC2	Calculus 2 (Integral)	3	0	3	CALC1
EPHYSICS	Physics for Engineers	3	0	3	CALC1, Co-req: CALC2
EPHYSICSL	Physics for Engineers Laboratory	0	3	1	CALC1, Co-reqs: CALC2, EPHYSICS
COMFUN1	Computer Fundamentals and Programming 1	0	3	1	None
4FYE2	Big History 2: Looking through the Lens of Big History	3	0	3	4FYE1
THEOLOGY102	Special Issues in Catholic Theology	3	0	3	THEOLOGY101
7PE2	PE 2 - Fitness Exercises	2	0	2	7PE1
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
TOTAL		20	9	25	

SECOND YEAR, FIRST SEMESTER

9STS	Science, Technology and Society	3	0	3	None
COMFUN2	Computer Fundamentals and Programming 2	0	3	1	COMFUN1
DIFFEQNS	Differential Equations	3	0	3	CALC2
IE-ORIENT	Orientation to Industrial Engineering with Design Build	2	0	2	None
INDMATPRO	Industrial Materials and Processes	2	0	2	CHEMENG, CHEMENGL, EPHYSICS, EPHYSICSL
INDMATPROL	Industrial Materials and Processes Laboratory	0	3	1	CHEMENG, CHEMENGL, EPHYSICS, EPHYSICSL, Co-req: INDMATPRO
ENGMECH	Engineering Mechanics	3	0	3	CALC2, EPHYSICS, EPHYSICSL
IOM	Industrial Organization and Management	3	0	3	2nd Year Standing
IESTATS1	Statistical Analysis for Industrial Engineering 1	3	0	3	None
7PE3	PE 3 - Physical Activities towards Health and Fitness 1	2	0	2	7PE2
TOTAL		21	6	23	

SECOND YEAR, SECOND SEMESTER

FINAC	Financial Accounting	3	0	3	2nd Year Standing
ECONOMICS	Principles of Economics	3	0	3	None
IESTATS2	Statistical Analysis for Industrial Engineering 2	3	0	3	IESTATS1
ADVMATH-IE	Advanced Mathematics for Industrial Engineering	3	0	3	DIFFEQNS
WSM	Work Study and Measurement	3	3	4	INDMATPRO, IOM, IESTATS1
THEOLOGY103	Christian Spirituality in the Contemporary World	3	0	3	THEOLOGY102
7PE4	PE 4 - Physical Activities towards Health and Fitness 2	2	0	2	7PE3
TOTAL		20	3	21	

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THIRD YEAR, FIRST SEMESTER					
3FIL1	Konstekswalisadong Komunikasyon sa Filipino	3	0	3	None
4UNDERSELF	Understanding the Self	3	0	3	None
ENGGECON	Engineering Economics	3	0	3	2nd Year Standing
ENVISCIENG	Environmental Science and Engineering	3	0	3	CHEMENG, CHEMENGL
THERMODYN	Thermodynamics	3	0	3	CALC2, EPHYSICS, EPHYSICSL
MGRLAC	Managerial Accounting	3	0	3	FINAC
QMS	Quality Management Systems	3	0	3	WSM, IESTATS2
OPSRES1	Operations Research 1	3	0	3	ADVMATH-IE
TOTAL		24	0	24	

THIRD YEAR, SECOND SEMESTER

3FIL2	Filipino sa Iba't Ibang Disiplina	3	0	3	3FIL1
4ETHICS	Ethics	3	0	3	None
ELEMEE	Elementary Electrical Engineering	3	0	3	EPHYSICS, EPHYSICSL
ERGONOM1	Ergonomics 1	3	3	4	WSM
OPSMAN	Operations Management	5	3	6	QMS, OPSRES1
OPSRES2	Operations Research 2	3	3	4	OPSRES1
TOTAL		20	9	23	

THIRD YEAR, SUMMER TERM

OJT-IE	Industrial Engineering On-The-Job Training (320 Hours)			3	3rd Year Standing, Permission of Program Chair or School Dean
TOTAL				3	

FOURTH YEAR, FIRST SEMESTER

4RIZAL	Life and Works of Rizal	3	0	3	None
ERGONOM2	Ergonomics 2	3	3	4	ERGONOM1
INFORMSYS	Information Systems	3	0	3	COMFUN2, 4th Year Standing
OCCUSAFETY	Basic Occupational Safety and Health	3	0	3	3rd Year Standing
PFS	Project Feasibility	2	3	3	MGRLAC, OPSMAN
SCM	Supply Chain Management	3	0	3	OPSMAN
SYSENGG	Systems Engineering	3	0	3	4th Year Standing
TOTAL		20	6	22	

FOURTH YEAR, SECOND SEMESTER

1LIT12	Great Books	3	0	3	None
4CONWORLD	The Contemporary World	3	0	3	None
IE-CAPSTONE	IE Capstone Project	2	6	4	4th Year Standing
TECHENTREP	Technopreneurship	3	0	3	ENGGECON
ETHICS-IE	Industrial Engineering Ethics	2	0	2	4th Year Standing, 4ETHICS
ELECTIVE 1	IE Elective 1			3	
ELECTIVE 2	IE Elective 2			3	
ELECTIVE 3	IE Elective 3			3	
TOTAL		13	6	24	

PROGRAM TOTAL

190

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.

NOTES: The nth Year Standing means that the student must have completed at least 75% of the load requirements of the previous year level.

This curriculum is based on requirements specified by Commission on Higher Education (CHED) Memorandum Order No. 96, series of 2017: Policies, Standards and Guidelines for the Bachelor of Science in Industrial Engineering Program.

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IE ELECTIVES

PRODUCTION ENGINEERING

CAM	Computer-Aided Manufacturing	3	0	3	3rd Year Standing
LEAN	Lean Manufacturing	3	0	3	OPSMAN
TPM	Total Productive Maintenance and Reliability	3	0	3	OPSMAN
PRODESDEV	Product Design and Development	3	0	3	OPSMAN
ERP	Enterprise Resource Planning	3	0	3	OPSMAN
PACKAGTECH	Packaging Technology	3	0	3	4th Year Standing
FACPLANLAY	Facilities Planning and Layout	3	0	3	4th Year Standing
WORKDESIGN	Work Design for Productivity and Safety	3	0	3	4th Year Standing

ORGANIZATION AND DECISION SYSTEMS

SYSTEMSIM	Systems Simulation	2	3	3	OPSMAN
LSS	Lean Six Sigma	3	0	3	OPSMAN
STOCHASTIC	Stochastic Process in Engineering	3	0	3	3rd Year Standing
MCDM	Multi-Criteria Decision Making	3	0	3	OPSRES2
PROJECTMGMT	Project Management	3	0	3	4th Year Standing
RISKMAN	Risk Management	2	0	2	4th Year Standing

ERGONOMICS / HUMAN FACTORS ENGINEERING

JOB	Job Evaluation and Salary and Wage Administration	3	0	3	WSM, IESTATS1, 4th Year Standing
PERMGMT	Personnel Management	2	0	2	IOM
COGENGG	Cognitive Engineering	0	3	1	ERGONOM2

GENERAL ELECTIVES

COMAPPS-IE	Computer Applications in Industrial Engineering	0	3	1	COMFUN2
IPR	Intellectual Property Rights	3	0	3	IOM, 4th Year Standing
TOPICS-IE	Special Topics in Industrial Engineering	3	0	3	4th Year Standing
SPROBLEMS	Special Problems in Industrial Engineering	0	3	1	OPSMAN, 4th Year Standing