

**FIVE-YEAR CURRICULUM LEADING TO THE DEGREE OF
BACHELOR OF INDUSTRIAL ENGINEERING
(Version 2014)**

FIRST YEAR					
FIRST SEMESTER		UNIT	SECOND SEMESTER		UNIT
ECO 11	General Economics	3	IE 3	Introduction to Industrial Engineering	3
ENG 1	(Arts and Humanities)	3	CHEM 15	Fundamentals of Chemistry	3
GE (AH)	(Arts and Humanities)	3	CHEM 15.1	Fundamentals of Chemistry Laboratory	2
GE (SSP)	(Social Science & Philosophy)	3	ENG 2	College Writing in English (AH)	3
GE (SSP)	(Social Science & Philosophy)	3	MATH 36	Mathematical Analysis I	5
MATH 17	Algebra and Trigonometry	5	STAT 1	Elementary Statistics	3
PE1	Foundations of Physical Fitness	(2)	PE 2 or 3	Basic or Advanced Course	(2)
		20			19
SECOND YEAR					
FIRST SEMESTER		UNIT	SECOND SEMESTER		UNIT
STAT 101	Statistical Methods	3	ENSC 10b	Engineering Graphics II	2
ENSC 10a	Engineering Graphics I	2	MGT 111	Principles of Accounting	3
MATH 37	Mathematical Analysis II	5	CMSC 11	Introduction to Computer Science	3
PHYS 81	Fundamental Physics I	5	MATH 38	Mathematical Analysis III	3
SPCM 1	Speech Communication (AH)	3	GE (MST)	(Mathematics, Science and Technology)	3
IE 31	Industrial Organization and Management	3	PHYS 82	Fundamental Physics II	5
PE 2 or 3	Basic or Advanced Course	(2)	PE 2 or 3	Basic or Advanced Course	(2)
NSTP 1		(3)	NSTP 2		(3)
		21			19
THIRD YEAR					
FIRST SEMESTER		UNIT	SECOND SEMESTER		UNIT
ENSC 11	Statics of Rigid Bodies	3	ENSC 12	Dynamics of Rigid Bodies	3
ENSC 14a	Thermodynamics & Heat Transfer	5	IE 150	Systems Evaluation	3
ENSC 21	Mathematical Methods in Engineering	3	IE 132	Methods Engineering	5
ENSC 26	Computer Applications in Engineering	3	IE 141	Operations Research I	3
IE 21	Industrial Processes	3	IE 125	Industrial Quality Control	5
ABE 31	Engineering Shop	2			
		19			19
FOURTH YEAR					
FIRST SEMESTER		UNIT	SECOND SEMESTER		UNIT
GE (SSP)	(Social Science & Philosophy)	3	EE 1	Basic Electrical Engineering	3
IE 134	Ergonomics	3	ENSC 16	Fundamentals of Fluid Mechanics	3
IE 151	Production Systems	3	IE 184	Project Development and Management	3
IE 142	Operations Research II	3	IE 136	Industrial Safety & Health	3
ENSC 13	Strength of Materials	3	IE 152	Manufacturing Planning and Design	3
IE 143	Stochastic Processes in Engineering	3	IE 144	Systems Simulation	3
IE 164	Information Systems I	3	GE (AH)	(Arts and Humanities)	3
		21			21
FIFTH YEAR					
FIRST SEMESTER		UNIT	SECOND SEMESTER		UNIT
IE 185	Industrial Systems Design	3	ENSC 90	Engineering Ethics	1
IE 199	Undergraduate Seminar	1	STS 1	Science, Tech, and Society (MST)	3
ENG 10	Writing of Scientific Papers	3	GE (SSP)	(Social Science & Philosophy)	3
PI 10	Life and Works of Jose Rizal (SSP)	3	GE (MST)	(Mathematics, Science & Technology)	3
	Technical Cognate	3		Technical Cognate	3
IE 198/200	Internship/Thesis	3	IE 190/200	Special Problem/Thesis	3
		16			16

*All students are required to undergo National Service Training Program (NSTP; 6 units) for one year as a requirement for graduation.

TOTAL: 191 UNITS

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