

## FIVE - YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING - UPLB

(Version 2011)

<b>FIRST YEAR</b>							
FIRST SEMESTER			UNIT	SECOND SEMESTER			UNIT
ECO 11	General Economics		3	CHEM 15	Fundamentals of Chemistry		3
ENG 1 (AH)	(Arts and Humanities)		3	CHEM 15.1	Fundamentals of Chemistry Laboratory		2
GE (AH)	(Arts and Humanities)		3	CMSC 11	Introduction to Computer Science		3
GE (SSP)	(Social Science & Philosophy)		3	ENG 2 (AH)	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
<b>SECOND YEAR</b>							
FIRST SEMESTER			UNIT	SECOND SEMESTER			UNIT
ENSC 10a	Engineering Graphics I		2	ENSC 11	Statics of Rigid Bodies		3
SPCM 1	Speech Communication (AH)		3	GE (MST)	(Mathematics, Science and Technology)		3
MATH 37	Mathematical Analysis II		5	GE (SSP)	(Arts and Humanities)		3
PHYS 81	Fundamental Physics I		5	MATH 38	Mathematical Analysis III		3
STAT 101	Statistical Methods		3	MGT 111	Principles of Accounting		3
PE 2 or 3	Basic or Advanced Course		(2)	PHYS 82	Fundamental Physics II		5
NSTP 1			(3)	PE 2 or 3	Basic or Advanced Course		(2)
			18	NSTP 2			(3)
			20				20
<b>THIRD YEAR</b>							
FIRST SEMESTER			UNIT	SECOND SEMESTER			UNIT
ENSC 12	Dynamics of Rigid Bodies		3	ENSC 16	Fundamentals of Fluid Mechanics		3
ENSC 14a	Thermodynamics & Heat Transfer		5	ENSC 26	Computer Applications in Engineering		3
ENSC 21	Mathematical Methods in Engineering		3	ENSC 13	Strength of Materials		3
IE 3	Introduction to Industrial Engineering		3	IE 32	Methods Engineering		5
IE 21	Industrial Processes		3	IE 141	Operations Research I		3
IE 31	Industrial Organization and Management		3	IE 183	Stochastic Processes in Engineering		3
			20				20
<b>FOURTH YEAR</b>							
FIRST SEMESTER			UNIT	SECOND SEMESTER			UNIT
ABE 31	Engineering Shop		2	EE 1	Basic Electrical Engineering		3
IE 134	Ergonomics		3	ENG 10	Writing of Scientific Papers		3
IE 135	Industrial Quality Control		3	ENSC 10b	Engineering Graphics II		2
IE 142	Operations Research II		3	IE 136	Industrial Safety & Health		3
IE 150	Systems Evaluation		3	IE 151	Production Systems		3
IE 154	Information Systems I		3	GE	(Arts and Humanities)		3
GE	(Social Science & Philosophy)		3	GE	(Mathematics, Science & Technology)		3
			20				20
<b>FIFTH YEAR</b>							
FIRST SEMESTER			UNIT	SECOND SEMESTER			UNIT
IE 152	Manufacturing Planning and Design		3	ENSC 90	Engineering Ethics		1
IE 153	Project Development and Management		3	STS 1	Science, Tech, & Society (MST)		3
IE 199	Undergraduate Seminar		1	IE 155	Industrial Systems Design		3
IE 200/200a	Thesis/ Practicum		3	IE 181	Systems Simulation		3
PI 10	Life and Works of Jose Rizal (SSP)		3	IE 200/200a	Thesis/ Practicum		3
	Technical Cognate		3		Technical Cognate		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 UNITS: 189**

APPROVED 9-13-2011