

**COLLEGE OF ENGINEERING**

**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING (BSIE)  
School Year 2012-2013**

**THIRD YEAR**

**First Semester**

<b>Subject Code</b>	<b>Description</b>	<b>Hrs Lec</b>	<b>Hrs Lab</b>	<b>Units Credit</b>	<b>Pre-requisites</b>
Math 6	Differential Equations	3	0	3	Math 5B
Mech 311S	Statics of Rigid Bodies	3	0	3	Phys 1A Lec/Lab
ME 311	Thermodynamics	3	0	3	Math 5B / Phys 2A Lec/Lab
Acctg 311	Financial Accounting	3	0	3	-
Emgt	Engineering Management	3	0	3	-
IE 311 Lec	Industrial Materials and Processes	2	0	2	Chem 1A Lec/Lab / Phys 1A Lec/Lab & Draw 111/122
IE 311 Lab	Industrial Materials and Processes Lab	0	3	1	Chem 1A Lec/Lab / Phys 1A Lec/Lab & Draw 111/122
EE 311 Lec	Direct and Alternating Current Circuits	2	0	2	Phys 2A Lec/Lab
EE 311 Lab	Direct and Alternating Current Circuits Lab	0	3	1	Phys 2A Lec/Lab
<b>TOTAL</b>				<b>21</b>	

**Second Semester**

<b>Subject Code</b>	<b>Description</b>	<b>Hrs Lec</b>	<b>Hrs Lab</b>	<b>Units Credit</b>	<b>Pre-requisites</b>
Math 8	Advanced Engineering Mathematics for IE	3	0	3	Math 6
Mech 322D	Dynamics of Rigid Bodies	2	0	2	Mech 311S
Mech 323	Mechanics of Deformable Bodies	3	0	3	Mech 311S
CpE 321 Lec	Computer Fundamentals and Programming	2	0	2	CpE 211 Lec/Lab
CpE 321 Lab	Computer Fundamentals and Programming Lab	0	3	1	CpE 211 Lec/Lab
Eco 1	Basic Economics with TLR	3	0	3	-
IE 322 Lec	Methods Study	4	0	4	IE 311 Lec/Lab & Math 3B
IE 322 Lab	Methods Study Lab	0	3	1	IE 311 Lec/Lab & Math 3B
<b>TOTAL</b>				<b>19</b>	

**FOURTH YEAR**

**First Semester**

<b>Subject Code</b>	<b>Description</b>	<b>Hrs Lec</b>	<b>Hrs Lab</b>	<b>Units Credit</b>	<b>Pre-requisites</b>
EEco	Engineering Economy	3	0	3	Eco 1
SFT MGMT	Safety Management	1	0	1	-
IE 413 Lec	Ergonomics	2	0	2	IE 322 Lec/Lab
IE 413 Lab	Ergonomics Lab	0	3	1	IE 322 Lec/Lab
Math 11	Advanced Statistics	3	0	3	Math 3B
IE 414	Industrial Quality Control	3	0	3	Math 3B
IE 415	Operations Research 1	3	0	3	Math 8
IE Elec 1	IE Elective 1 (Personnel Management)	3	0	3	-
<b>TOTAL</b>				<b>19</b>	

Name: \_\_\_\_\_  
 Student No.: \_\_\_\_\_  
 Course: \_\_\_\_\_  
 Yr./Section: \_\_\_\_\_

**COLLEGE OF ENGINEERING**

**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING (BSIE)  
School Year 2012-2013**

**Second Semester**

<b>Subject Code</b>	<b>Description</b>	<b>Hrs Lec</b>	<b>Hrs Lab</b>	<b>Units Credit</b>	<b>Pre-requisites</b>
IE 426	Operations Research 2	3	0	3	IE 415
IE Elec 2	IE Elective 2 (Occupational Safety and Health)	3	0	3	-
IE 427	Production Systems	3	0	3	IE 414 & IE 415
IE 428	Principles of Economics	3	0	3	Eco 1
Emat	Materials Engineering	3	0	3	Chem 2 Lec/Lab
Acctg 422	Managerial Accounting	3	0	3	Acctg 311
IE 519	Facilities Planning and Design	3	0	3	-
<b>TOTAL</b>				<b>21</b>	

**SUMMER**

<b>Subject Code</b>	<b>Description</b>	<b>Hrs Lec</b>	<b>Hrs Lab</b>	<b>Units Credit</b>	<b>Pre-requisites</b>
IE Ethics	Engineering Values and Ethics	3	0	3	-
IE Elec 3	IE Elective 3 (Risk Management)	3	0	3	-
IE 5112	Project Feasibility 1	3	0	3	Acctg 422 & IE 427
<b>TOTAL</b>				<b>9</b>	

**FIFTH YEAR**

**First Semester**

<b>Subject Code</b>	<b>Description</b>	<b>Hrs Lec</b>	<b>Hrs Lab</b>	<b>Units Credit</b>	<b>Pre-requisites</b>
IE 5111	Information Systems	3	0	3	CpE 321 Lec/Lab
IE 5110	Systems Engineering and Design	3	0	3	Eeco, IE 426, IE 414, IE 413 lec/lab & IE 427
IE 5213	Project Feasibility 2	3	0	3	IE 5112
IE 5214	Undergraduate Research	1	6	3	-
IE Elec 4	IE Elective 4 (Job Evaluation and Salary Wage Administration)	3	0	3	-
IE 5215	Field Trips and Seminars	0	3	1	-
<b>TOTAL</b>				<b>16</b>	

**Second Semester**

<b>Subject Code</b>	<b>Description</b>	<b>Hrs Lec</b>	<b>Hrs Lab</b>	<b>Units Credit</b>	<b>Pre-requisites</b>
OJT	On-The-Job Training	0	600	3	-
<b>TOTAL</b>				<b>3</b>	

**Suggested IE Electives:**

1. Personnel Management
2. Occupational safety and Health
3. Risk Management
4. Job Evaluation and Salary Wage Administration