

# INDUSTRIAL ENGINEERING DEGREE PLAN AY 2018-2019



In collaboration with:



## SEMESTER I

CODES	COURSE TITLE	CREDITS
GMAT1505	Calculus & Analytical Geometry I	5
GSCI1303	General Chemistry I	3
GSCI1103L	General Chemistry I Lab	1
GCOM1304	Composition I	3
GENG1301	Introduction to Engineering	3
GHUM1303	World Religions	3
<b>Total</b>		<b>18</b>

## SEMESTER II

CODES	COURSE TITLE	CREDITS
GMAT2506	Calculus & Analytical Geometry II	5
GSCI2304	General Chemistry II	3
GSCI2104L	General Chemistry II Lab	1
ENGR13031	Computer Program for Engineering Applications	3
GCOM1305	Composition II	3
GSCI1405	General Physics with Calculus I	4
GSCI1105L	General Physics with Calculus I Lab	1
<b>Total</b>		<b>20</b>

## SEMESTER III

CODES	COURSE TITLE	CREDITS
IENG2301	Introduction to Systems & Industrial Engineering (IE)	3
IENG2302	Object-Oriented Modelling & Design	3
GSCI2406	General Physics with Calculus II	4
GSCI2106L	General Physics with Calculus II Lab	1
GMAT2507	Calculus & Analytical Geometry III	5
GHUM2305	Introduction to Philosophy (Arts and Humanities)	3
GHUM1207	Kewarganegaraan/Civic	2
<b>Total</b>		<b>21</b>

## SEMESTER IV

CODES	COURSE TITLE	CREDITS
IENG2304	Engineering Economy	3
IENG2305	Mathematical Foundations of IE	3
IENG2103	Industrial Engineering Colloquium	1
ENGR2302	Statics	3
GSOC2303	General Psychology (Individuals and Societies)	3
GHUM1301	Pancasila	3
GHUM1302	Indonesian Language	2
<b>Total</b>		<b>18</b>

## SEMESTER V

CODES	COURSE TITLE	CREDITS
IENG3306	Introduction to Engineering Probability & Statistics	3
IENG3307	Deterministic Operations Research	3
IENG3308	Software for Engineers	3
IENG3309	Manufacturing Process	3
IENG3109L	Manufacturing Process Lab	1
IENG3310	Technical Writing	3
ENGR3303	Environmental Ethics	3
<b>Total</b>		<b>19</b>

## SEMESTER VI

CODES	COURSE TITLE	CREDITS
IENG3311	Probabilistic Models in Operation Research	3
IENG3312	Integrated Manufacturing Systems	3
IENG3313	Production System Analysis (SCM I)	3
IENG3314	Engineering Experimental Design	3
IENG3315	Quality Control & Six Sigma	3
GINR1301	Intro to International Relation (Individual & Societies)	3
<b>Total</b>		<b>18</b>

## SUMMER

CODES	COURSE TITLE	CREDITS
<b>CODES</b>	<b>COURSE TITLE</b>	<b>UNITS</b>
IENG 4301	Internship	3
<b>Total</b>		<b>3</b>

## SEMESTER VII

CODES	COURSE TITLE	CREDITS
IENG4316	Simulation Modelling & Analysis	3
IENG4317	Human Factors & Ergonomics in Design	3
IENG4318	Project Management (Elective)	3
IENG4319	Human Side Organization	3
STEM4302	Senior Capstone I	3
<b>Total</b>		<b>15</b>

## SEMESTER VIII

CODES	COURSE TITLE	CREDITS
IENG4320	Supply Chain (Elective)	3
IENG4321	Embedded Computer Systems	4
IENG4322	Cost Estimation (Elective)	3
STEM4303	Senior Capstone II	3
<b>Total</b>		<b>13</b>

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**IE TECHNICAL ELECTIVES**

IENG4318	Project Management	3	IENG4324	Engineering Statistics	3
IENG4320	Supply Chain Management	3	IENG4325	Reliability Engineering	3
IENG4323	Engineering Decision Making Under Uncertainty	3	IENG4326	Survey of Optimization Methods	3
IENG4322	Cost Estimation	3	IENG4327	The Systems Engineering Process	3