

De La Salle University  
**GOKONGWEI COLLEGE OF ENGINEERING**  
**Bachelor of Science in Industrial Engineering**  
CHECKLIST FOR FRESHMEN WHO STARTED AY 2024-2025

**Program Checklist**

*Individual course checklists provide students with information on where they are at any point in their course of study. This serves to guide the student on the appropriate courses to take upon each enrolment, particularly if pre-requisite courses are required.*

<b>FIRST TERM</b>				
<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
NSTP101	NSTP Orientation	0	--	
FNDMATH	Foundation Course for Mathematics	5	--	
BASCHEM	Foundation Course for Chemistry	3	--	
BASPHYS	Foundation Course for Physics	3	--	
FNDSTAT	Foundation Course for Statistics	3	--	
LBYME1C	Computer-Aided Drafting	1	--	
<b>TOTAL</b>		<b>15</b>		
<b>SECOND TERM</b>				
<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCC..01	Lasallian Core Curriculum (Placeholder 01)	3	--	
LCC..02	Lasallian Core Curriculum (Placeholder 02)	3	--	
CALENG1	Differential Calculus	3	H	FNDMATH
ECOPRIN	Principles of Economics	3	--	
LBYIE2F	Parametric CAD for IE	1	H	LBYME1C
IETHERM	Basic Engineering Thermodynamics for IE	3	H / H	FNDMATH / BASPHYS
MANACIE	Managerial Accounting for IE Majors	3	--	
NSTPCW1	National Service Training Program 1	(3)	--	
<b>TOTAL</b>		<b>19 (3)</b>		
<b>THIRD TERM</b>				

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
SAS1000	Student Affairs Services Orientation	0	--	
NSTPCW2	National Service Training Program 2	(3)	H	NSTP - R1/C1
LCLSONE	Lasallian Studies 1	(1)	--	
LASARE1	Lasallian Recollection 1	0	--	
LCC..03	Lasallian Core Curriculum (Placeholder 03)	3	--	
LCC..04	Lasallian Core Curriculum (Placeholder 04)	3	--	
CALENG2	Integral Calculus	3	H	CALENG1
ENGCHEM	Chemistry for Engineering	3	H	BASCHEM
LBYCH1A	Chemistry for Engineering Lab	1	C	ENGCHEM
COSACIE	Cost Accounting for IE Majors	3	H	MANACIE
LBYEC2A	Computer Fundamentals and Programming 1	1	--	
PE1CRDO	Cardio Fitness	2	--	
<b>TOTAL</b>		<b>19 (4)</b>		

#### FOURTH TERM

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCC..05	Lasallian Core Curriculum (Placeholder 05)	3	--	
PE2FTEX	Functional Exercise	2	--	
CALENG3	Differential Equations	3	H	CALENG2
ENGDAT1	Probability and Statistics for IE	3	S / H	CALENG2 / FNDSTAT
ENGPHY	Physics for Engineering	3	S / H	CALENG1 / BASPHYS
LBYPH1A	Physics for Engineering Lab	1	C	ENGPHY
ENGENVI	Environmental Science and Engineering	3	H	ENGCHEM
LBYEC2B	Computer Fundamentals and Programming 2	1	H	LBYEC2A
<b>TOTAL</b>		<b>19</b>		

#### FIFTH TERM

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCC..06	Lasallian Core Curriculum (Placeholder 06)	3	--	
PETHREE	Generic Code	2	H	PE1 / PE2
INDUMAT	Advanced Mathematics for Industrial Engineering	3	H	CALENG3
ENGDAT2	Statistical Analysis for Industrial Engineers	2	H	ENGDAT1
LBYIE2G	Statistical Analysis for Industrial Engineers Lab	1	C	ENGDAT2

PROMGT1	Operations Management	4	C	ENGDAT2
ENGMech	Engineering Mechanics for IE	3	H / S	ENGPPhys / CALENG2
SAS2000	Student Affairs Services Orientation 2	0	H	SAS1000
<b>TOTAL</b>		<b>18</b>		

### SIXTH TERM

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCLSTW0	Lasallian Studies 2	(1)	--	LCLSONE
LCC..07	Lasallian Core Curriculum (Placeholder 07)	3	--	
LASARE2	Lasallian Recollection 2	0	--	
IEOPER1	Operations Research 1	3	H	INDUMAT
INDUORG	Industrial Organization and Management	3	S	PROMGT1
BIOERG1	Physical Ergonomics	1	S	ENGDAT2
LBYIE2E	Physical Ergonomics Lab	1	C / S	BIOERG1/ ENGDAT2
MATEPRO	Industrial Materials and Processes	2	S / S	ENGChem / ENGPPhys
LBYIE2A	Industrial Materials and Processes Lab	1	C	MATEPRO
ECONOIE	Engineering Economics for IE Majors	3	S / S	ENGDAT1 / COSACIE
LBYEC3C	Intelligent Engineering Systems	1	H / S	LBYEC2B / ENGDAT1
<b>TOTAL</b>		<b>18 (1)</b>		

### SEVENTH TERM

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCC..08	Lasallian Core Curriculum (Placeholder 08)	3	--	
PEDFOUR	Generic Code	2	H	PE1 / PE2 / PE3
IEOPER2	Operations Research 2	3	H	IEOPER1
PROMGT2	Work Study and Measurement	3	S / S	PROMGT1 / BIOERG1
LBYIE3A	Work Study and Measurement Lab	1	C	PROMGT2
SYSENG1	Systems Engineering 1 Lecture	2	C / S / S	PROMGT2 / INDUORG / ECONOIE
LBYIE3J	Operations Research Lab	1	C	IEOPER2
COGERG2	Cognitive Ergonomics	1	S	BIOERG1
LBYIE3C	Cognitive Ergonomics Lab	1	C / S	COGERG2 / LBYIE2G
IMEMARK	Industrial Marketing	2	--	
<b>TOTAL</b>		<b>19</b>		

EIGHTH TERM				
<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCC..09	Lasallian Core Curriculum (Placeholder 09)	3	--	
LCC..10	Lasallian Core Curriculum (Placeholder 10)	3	--	
IEOPER3	Operations Research 3	3	S	IEOPER2
SYSENG2	Systems Engineering 2 Lecture	2	H / S	SYSENG1 / IEOPER1
LBYIE3B	Systems Engineering 1 Lab / Capstone Design Project 1	1	S	SYSENG1
LBYIE3K	System Simulation Lec and Lab	1	C	IEOPER3
INFORSY	Information Systems	2	S	SYSENG1
LBYIE3F	Information Systems Lab	1	C	INFORSY
IEMERES	Methods of Research for IE	3	H / S	GEPCOMM / COGERG2
			S / S	IEOPER2 / PROMGT2
<b>TOTAL</b>		<b>19</b>		
NINTH TERM				
<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCLSTRI	Lasallian Studies 3	(1)	--	LCLSTWO
LCC..11	Lasallian Core Curriculum (Placeholder 11)	3	--	
LCC..12	Lasallian Core Curriculum (Placeholder 12)	3	--	
LASARE3	Lasallian Recollection 3	0		
LBYIE3E	Systems Engineering 2 Lab / Capstone Design Project 2	1	S / H	SYSENG2 / LBYIE3B
FACILIT	Facilities Planning	2	S / S	IEOPER2 / PROMGT2
PROMGT3	Quality Management Systems	3	S / S / S	ENGDAT2 / LBYIE2A / PROMGT1
IEPRODE	Product Design	1	S / S	COGERG2 / LBYIE3C
LBYIE3G	Product Design Lab	1	C / S	IEPRODE / LBYIE2F
IELECT1	IE Elective 1	3		<i>*at least 3rd year standing</i>
<b>TOTAL</b>		<b>17 (1)</b>		
TENTH TERM				
<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCC..13	Lasallian Core Curriculum (Placeholder 13)	3	--	
IELECT2	IE Elective 2	3	--	<i>*at least 3rd year standing</i>
FEAPROJ	Project Feasibility	3	H / H / H	ECOPRIN / ECONOIE / IMEMARK

IEOCSAF	Occupational Safety and Health for IE	3	S / S	PROMGT2 / BIOERG1
LBYIE4F	System Dynamics Lec and Lab	1	S	LBYIE3K
SUPCHAN	Supply Chain Management	3	S	FACILIT
THSIE4A	IE Thesis 1	1	H	IEMERES
SAS3000	Student Affairs Services Orientation 3	0	H	SAS2000
<b>TOTAL</b>		<b>17</b>		

#### ELEVENTH TERM

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
PRCISEA	IE Industry Immersion	3	S / S	IEMERES / SUPCHAN
			S / S	FEAPROJ / IEOCSAF
			S / S / S	IEPRODE / INFORSY / MATEPRO
			S	SAS3000
	* must have taken up all IE professional courses		S / S / S	PROMGT3 / IEOPER3 / SYSENG2
<b>TOTAL</b>		<b>3</b>		

#### TWELFTH TERM

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>UNITS</b>	<b>PREREQUISITES</b>	
LCC..14	Lasallian Core Curriculum (Placeholder 14)	3	--	
LCC..15	Lasallian Core Curriculum (Placeholder 15)	3	--	
ENGTREP	Technopreneurship	3	--	<i>*at least 3rd year standing</i>
IELECT3	IE Elective 3	3	--	<i>*at least 3rd year standing</i>
THSIE4B	IE Thesis 2	1	H / H	THSIE4A / PRCISEA
FDATSCI	Foundation of Data Science	2	H/S	ENGDAT2 / LBYIE3J
ELEPRIN	Elementary Electrical Engineering for IE	3	H	ENGPYS
<b>TOTAL</b>		<b>18</b>		

**LEGEND:**  
**H** = HARD PRE-REQUISITE  
**S** = SOFT PRE-REQUISITE  
**C** = CO - REQUISITE

**TOTAL UNITS**      **201 (9) units**

