

# Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

## BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 3rd Year)

COURSE CODE	COURSE TITLE	Lec Units/Hours	Lab Hrs	TOTAL Units	PRE-REQUISITES/ CO-REQUISITES	
					Hrs	PRE-REQUISITES/ CO-REQUISITES
<b>FIRST YEAR, First Semester</b>						
CHM081L	Chemistry for Engineers Lab			1	3	1 co-req CHM083
CHM083	Chemistry for Engineers	3				3 co-req CHM081L
GEC013	Science, Technology, and Society	3				3
GEC063	Purposive Communication	3				3
LQEC23-013	Letran Quality Enhancement Course I (Letran Calamba Identity and 21st Century Learning Skills)	3				3
MATH153A	Calculus 1	3				3
MATH343A	Engineering Mathematics 1	3				3
NSTP1-18	National Service Training Program 1	3				3
PATHFIT1002	Movement Competency Training		2			2
	<b>Total</b>	<b>23</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>24</b>
<b>FIRST YEAR, Second Semester</b>						
Drw051L	Computer Aided Drafting			1	3	1
GEC003	Understanding the Self	3				3
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3				3
IE013A	Statistical Analysis for Industrial Engineers 1	3				3
MATH153B	Calculus 2	3				3 MATH153A, co-req PHY083, PHY081L
MATH343B	Engineering Mathematics 2	3				3 MATH343A
NSTP2-18	National Service Training Program 2	3				3 NSTP1-18
PATHFIT2022	Exercise-Based Fitness		2			2 PATHFIT1002
PHY081L	Physics for Engineers Lab			1	3	1 MATH153A, co-req MATH153B, PHY083
PHY083	Physics for Engineers	3				3 MATH153A, co-req MATH153B, PHY081L
RELED053	The Catholic Christian Faith			3		3
	<b>Total</b>	<b>26</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>28</b>
<b>SECOND YEAR, First Semester</b>						
CoENG002L	Computer Fundamentals and Programming			2	6	2
ECON013	Principles of Economics	3				3
ENGG013	Engineering Mechanics	3				3 PHY083, PHY081L
IE013B	Statistical Analysis for Industrial Engineers 2	3				3 IE013A
IE081A-L	Industrial Materials and Processes Lab			1	3	1 CHM083, CHM081L, PHY083, PHY081L co-req. IE082A
IE082A	Industrial Materials and Processes	2				2 CHM083, CHM081L, PHY083, PHY081L co-req. IE081A-L
LQEC23-023	Letran Quality Enrichment Course II (21st Century Literacy Skills & Life Skills and Sustainability)	3				3
MATH223	Differential Equations	3				3 MATH153B
PATHFIT3032	Individual /Dual Sports		2			2 PATHFIT1002, PATHFIT2022
RELED063	Contemporary Issues in Christian Marriage			3		3 RELED053
	<b>Total</b>	<b>22</b>	<b>0</b>	<b>3</b>	<b>9</b>	<b>25</b>
<b>SECOND YEAR, Second Semester</b>						
ACT033D	Financial Accounting	3				3
ENGG103	Engineering Economics	3				3
GEC033	Mathematics in the Modern World	3				3
IE203	Industrial Organization and Management	3				3 co-req IE213, IE211L
IE211L	Work Study and Measurement Lab			1	3	1 IE013A, IE082A, IE081A-L, co-req IE213, IE203
IE213	Work Study and Measurement Lec	3				3 IE013A, IE082A, IE081A-L, co-req IE211L, IE203
IE253	Advanced Mathematics for Industrial Engineering	3				3 MATH223
PATHFIT4042	Contemporary Dance	2				2 PATHFIT1002, PATHFIT2022
RELED083	Christian Ethics	3				3 RELED053
RZL023	Buhay at Mga Gawa ni Rizal			3		3
	<b>Total</b>	<b>26</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>27</b>

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					Hrs	Hrs
<b>THIRD YEAR, First Semester</b>						
ACT043D	Managerial Accounting	3		3	ACT033D	
ENGG073	Thermodynamics	3		3	MATH223	
GEC073	Ethics	3		3		
GECELEC1	Living in the IT Era	3		3		
GECELEC3	Philippine Popular Culture	3		3		
IE031A-L	Ergonomics 1 Lab		1	3	IE213, IE211L, co-req IE032A	
IE032A	Ergonomics 1	2		2	IE213, IE211L, co-req IE031A-L	
IE113C	Operations Research 1	3		3	IE253	
IE223	Quality Management Systems	3		3	IE013B,IE213,IE211L	
RELED073	Contemporary Issues About Church and Human Society with Immersion	3		3	RELED053	
	<b>Total</b>	<b>26</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>27</b>
<b>THIRD YEAR, Second Semester</b>						
ENGG083	Environmental Science and Engineering	3		3	CHM083, CHM081L	
GEC043	The Contemporary World	3		3		
GECELEC2	The Entrepreneurial Mind	3		3		
IE031B-L	Ergonomics 2 Lab		1	3	IE032A, IE031A-L, co-req IE032B	
IE032B	Ergonomics 2	2		2	IE032A, IE031A-L, co-req IE031B-L	
IE113D	Operations Research 2	3		3	IE113C	
IE241L	Operations Management Lab		1	3	IE113C, IE223, co-req IE243	
IE243	Operations Management	3		3	IE113C, IE223, co-req IE241L	
IE-Elec-1	IE Elective 1	3		3	IE213, IE211L, IE253	
IE-PF	Project Feasibility	2		2	IE113C, ACT043D, co-req IE-PF-L	
IE-PF-L	Project Feasibility Lab		1	3	IE113C,ACT043D, co-req IE-PF	
ENGG183	Basic Occupational Safety and Health	3		3		
	<b>Total</b>	<b>25</b>	<b>0</b>	<b>3</b>	<b>9</b>	<b>28</b>
<b>FOURTH YEAR, First Semester</b>						
EE013B	Elementary Electrical Engineering	3		3	PHY083, PHY081L	
GEC053	Art Appreciation	3		3		
IE233	Systems Engineering	3		3	IE243, IE241L	
IE263	Supply Chain Management	3		3	IE243, IE241L	
IE273	Information Systems	3		3	CoENG002L	
IE-CP	IE Capstone Project	1		1	IE113D, co-req IE-CP-L	
IE-CP-L	IE Capstone Project Lab		2	6	IE113D, co-req IE-CP	
IE-Elec-2	IE Elective 2	3		3	IE-Elec-1	
IE-Elec-3	IE Elective 3	3		3	IE-Elec-1	
ENGG193	Technopreneurship	3		3	ENGG103	
	<b>Total</b>	<b>25</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>27</b>
<b>FOURTH YEAR, Second Semester</b>						
IE-PRC5	*Practicum/Industry Immersion (500 hrs)	5		5	EE013B, ENGG193, IE233, IE263, IE273, IE-CP, IE-CP-L, IE-PF, IE-PF-L	
	<b>Total</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>GRAND TOTAL</b>		<b>178</b>	<b>0</b>	<b>13</b>	<b>39</b>	<b>191</b>

\*Practicum - No simultaneous enrollment is allowed.