

**Colegio de San Juan de Letran Calamba**

Brgy. Bucal, City of Calamba, Laguna

**BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING**  
**Curriculum Year 2023-2024 (Modified Curriculum, 3rd Year)**

COURSE CODE	COURSE TITLE	Lec Units/Hrs	Lab Units	TOTAL		PRE-REQUISITES/ CO-REQUISITES
				Hrs		
<b>FIRST YEAR, First Semester</b>						
CHM081L	Chemistry for Engineers Lab		1	3	<b>1</b>	co-req CHM083
CHM083	Chemistry for Engineers		3		<b>3</b>	co-req CHM081L
DRW051L	Computer Aided Drafting		1	3	<b>1</b>	
GEC013	Science, Technology, and Society		3		<b>3</b>	
GEC063	Purposive Communication		3		<b>3</b>	
LQEC23-013	Letran Quality Enhancement Course I (Letran Calamba Identity and 21st Century Learning Skills)		3		<b>3</b>	
MATH153A	Calculus 1		3		<b>3</b>	
MATH343A	Engineering Mathematics 1		3		<b>3</b>	
NSTP1-18	National Service Training Program 1		3		<b>3</b>	
PATHFIT1002	Movement Competency Training		2		<b>2</b>	
		<b>Total</b>	<b>23</b>	<b>2</b>	<b>6</b>	<b>25</b>
<b>FIRST YEAR, Second Semester</b>						
GEC003	Understanding the Self		3		<b>3</b>	
GEC033	Mathematics in the Modern World		3		<b>3</b>	
MATH153B	Calculus 2		3		<b>3</b>	MATH153A; co-req PHY083, PHY081L
MATH323	Engineering Data Analysis		3		<b>3</b>	MATH153A
MATH343B	Engineering Mathematics 2		3		<b>3</b>	MATH343A
NSTP2-18	National Service Training Program 2		3		<b>3</b>	NSTP1-18
PATHFIT2022	Exercise-Based Fitness		2		<b>2</b>	PATHFIT1002
PHY081L	Physics for Engineers Lab		1	3	<b>1</b>	MATH153A; co-req MATH153B, PHY083
PHY083	Physics for Engineers		3		<b>3</b>	MATH153A; co-req MATH153B, PHY081L
RELED053	The Catholic Christian Faith		3		<b>3</b>	
		<b>Total</b>	<b>26</b>	<b>1</b>	<b>3</b>	<b>27</b>
<b>SECOND YEAR, First Semester</b>						
CoENG002L	Computer Fundamentals and Programming Lab		2	6	<b>2</b>	
ECE011A-L	Circuits I Lab		1	3	<b>1</b>	PHY083, PHY081L, co-req ECE013A
ECE013A	Circuits I		3		<b>3</b>	PHY083, PHY081L, co-req ECE011A-L
GEC073	Ethics		3		<b>3</b>	
GECELEC1	Living in the IT Era		3		<b>3</b>	
LQEC23-023	Letran Quality Enrichment Course II (21st Century Literacy Skills & Life Skills and Sustainability)		3		<b>3</b>	LQEC23-013
MATH223	Differential Equations		3		<b>3</b>	MATH153B
PATHFIT3032	Individual/Dual Sports		2		<b>2</b>	PATHFIT1002, PATHFIT2022
PHY101L	Physics 2 Lab		1	3	<b>1</b>	PHY083, PHY081L, co-req PHY103
PHY103	Physics 2		3		<b>3</b>	PHY083, PHY081L, co-req PHY101L
RELED063	Contemporary Issues in Christian Marriage		3		<b>3</b>	RELED053
		<b>Total</b>	<b>23</b>	<b>4</b>	<b>12</b>	<b>27</b>
<b>SECOND YEAR, Second Semester</b>						
ECE011B-L	Circuits II Lab		1	3	<b>1</b>	ECE013A, ECE011A-L, co-req ECE013B
ECE013B	Circuits II		3		<b>3</b>	ECE013A, ECE011A-L, co-req ECE011B-L
ECE024	Electromagnetics		4		<b>4</b>	MATH223
ECE033A	Electronics I: Electronic Devices and Circuits		3		<b>3</b>	ECE013A, ECE011A-L, co-req ECE033A, ECE013B, ECE011B-L, ECE203, ECE201
ECE031A-L	Electronics I: Electronic Devices and Circuits Lab		1	3	<b>1</b>	ECE013A, ECE011A-L, co-req ECE031A-L, ECE013B, ECE011B-L, ECE203, ECE201
ECE201L	Communications 1: Principles of Communication Systems Lab		1	3	<b>1</b>	co-req ECE203, ECE033A, ECE031A-L
ECE203	Communications 1: Principles of Communication Systems		3		<b>3</b>	co-req ECE201L, ECE033A, ECE031A-L
GECELEC2	The Entrepreneurial Mind		3		<b>3</b>	
PATHFIT4042	Contemporary Dance		2		<b>2</b>	PATHFIT1002, PATHFIT2022
RELED083	Christian Ethics		3		<b>3</b>	RELED053
RZL023	Buhay at Mga Gawa ni Rizal		3		<b>3</b>	
		<b>Total</b>	<b>24</b>	<b>3</b>	<b>9</b>	<b>27</b>
<b>SECOND YEAR, Inter - Semester</b>						
ENGG103	Engineering Economics		3		<b>3</b>	MATH153A
MATHECE251L	Advanced Engineering Mathematics for ECE Lab		1	3	<b>1</b>	MATH223, co-req MATHECE253
MATHECE253	Advanced Engineering Mathematics for ECE		3		<b>3</b>	MATH223, co-req MATHECE251L
		<b>Total</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>7</b>

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				Hrs		
<b>THIRD YEAR, First Semester</b>						
ECE031B-L	Electronics II: Electronic Circuits Analysis and Design Lab		1	3	<b>1</b>	ECE033A, ECE031A-L, co-req ECE033B
ECE033B	Electronics II: Electronic Circuits Analysis and Design	3			<b>3</b>	ECE033A, ECE031A-L, co-req ECE031B-L
ECE051B-L	Signals, Spectra & Signal Processing Lab		1	3	<b>1</b>	MATHECE253, MATHECE251L, co-req ECE053B
ECE053B	Signals, Spectra & Signal Processing	3			<b>3</b>	MATHECE253, MATHECE251L, co-req ECE051B-L
ECE221L	Communications 2: Modulation and Coding Techniques Lab		1	3	<b>1</b>	ECE203, ECE201L, co-req ECE223
ECE223	Communications 2: Modulation and Coding Techniques	3			<b>3</b>	ECE203, ECE201L, co-req ECE221L
EN231L	Feedback and Control Systems Lab		1	3	<b>1</b>	MATHECE253, MATHECE251L, co-req EN233
EN233	Feedback and Control Systems	3			<b>3</b>	MATHECE253, MATHECE251L, co-req EN231L
EN241L	Logic Circuits and Switching Theory Lab		1	3	<b>1</b>	ECE033A, ECE031A-L, co-req EN243
EN243	Logic Circuits and Switching Theory	3			<b>3</b>	ECE033A, ECE031A-L, co-req EN241L
GECELEC3	Philippine Popular Culture	3			<b>3</b>	
RELED073	Contemporary Issues about Church and Human Society with Immersion	3			<b>3</b>	RELED053
<b>Total</b>		<b>21</b>	<b>5</b>	<b>15</b>	<b>26</b>	
<b>THIRD YEAR, Second Semester</b>						
ECE031C-L	Electronics III: Electronics Systems and Design Lab		1	3	<b>1</b>	ECE033B, ECE031B-L, co-req ECE033C
ECE033C	Electronics III: Electronics Systems and Design	3			<b>3</b>	ECE033B, ECE031B-L, co-req ECE031C-L
ECE171A-L	Seminars / Colloquium Lab		1	3	<b>1</b>	co-req ECE-DPA-L
ECE241L	Communications 3: Data Communications Lab		1	3	<b>1</b>	ECE223, ECE221L, co-req ECE243
ECE243	Communications 3: Data Communications	3			<b>3</b>	ECE223, ECE221L, co-req ECE241L
ECE251L	Microprocessors & Microcontroller Systems Lab		1	3	<b>1</b>	EN243, EN241L, co-req ECE253
ECE253	Microprocessors & Microcontroller Systems	3			<b>3</b>	EN243, EN241L, co-req ECE251L
ECE-DPA-L	ECE Design 1 Lab		1	3	<b>1</b>	ECE033B, ECE031B-L, co-req ECE171A-L, EN263
EN263	Methods of Research	3			<b>3</b>	co-req ECE-DPA-L
ENGG193	Technopreneurship	3			<b>3</b>	
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3			<b>3</b>	
GEC043	The Contemporary World	3			<b>3</b>	
<b>Total</b>		<b>21</b>	<b>5</b>	<b>15</b>	<b>26</b>	
<b>FOURTH YEAR, First Semester</b>						
ECE133B	ECE Laws, Contracts, Ethics, Standards, and Safety	3			<b>3</b>	GEC073
ECE261L	Communications 4: Transmission Media, Antenna System and Design Lab		1	3	<b>1</b>	ECE223, ECE221L, co-req ECE263
ECE263	Communications 4: Transmission Media, Antenna System and Design	3			<b>3</b>	ECE223, ECE221L, co-req ECE261L
ECE-DPB-L	ECE Design 2 Lab		1	3	<b>1</b>	ECE-DPA-L
ECE-ELEC2	ECE Elective 2	3			<b>3</b>	co req ECE263, ECE261L, ECE-ELEC2L
ECE-ELEC2L	ECE Elective 2 Lab		1	3	<b>1</b>	co req ECE263, ECE261L, ECE-ELEC2
ENGG043	Materials Science and Engineering	3			<b>3</b>	CHM083, CHM081L
ENGG083	Environmental Science and Engineering	3			<b>3</b>	CHM083, CHM081L
GEC053	Art Appreciation	3			<b>3</b>	
ECE-ELEC1	ECE Elective 1	3			<b>3</b>	coreq ECE263, ECE261L, ECE-ELEC1L
ECE-ELEC1L	ECE Elective 1 Lab		1	3	<b>1</b>	co-req ECE263, ECE261L, ECE-ELEC1
ENGG112	Engineering Management	2			<b>2</b>	
<b>Total</b>		<b>23</b>	<b>4</b>	<b>12</b>	<b>27</b>	
<b>FOURTH YEAR, Second Semester</b>						
ECE-PRC3	Practicum (300 hrs)*		3		<b>3</b>	ECE263, ECE261L
ECE-ST006	Special Topics for ECE		6		<b>6</b>	ECE-ELEC2, ECE-ELEC2L
<b>Total</b>		<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>	
<b>GRAND TOTAL</b>		<b>176</b>	<b>25</b>	<b>75</b>	<b>201</b>	

\*Practicum - No simultaneous enrollment is allowed.

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