

# Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

## BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING

Curriculum Year 2022-2023

COURSE CODE	COURSE TITLE	Lec	Lab		TOTAL	PRE-REQUISITES/ CO-REQUISITES
		Units/Hours	Units	Hrs		
<b>FIRST YEAR, First Semester</b>						
CHM083	Chemistry for Engineers	3			3	co-req. CHM081L
CHM081L	Chemistry for Engineers Lab		1	3	1	co-req. CHM083
DRW051L	Computer Aided Drafting		1	3	1	
GEC003	Understanding the Self	3			3	
GEC013	Science, Technology, and Society	3			3	
GEC033	Mathematics in the Modern World	3			3	
GEC063	Purposive Communication	3			3	
MATH153A	Calculus 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>2</b>	<b>6</b>	<b>25</b>	
<b>FIRST YEAR, Second Semester</b>						
ENGG043	Materials Science and Engineering	3			3	CHM083, CHM081L
FIL083	Komunikasyon sa Akademikong Filipino	3			3	
GEC043	The Contemporary World	3			3	
LQEC703	Letran Quality Enrichment Course 70	3			3	
MATH153B	Calculus 2	3			3	MATH153A; co req PHY083, PHY081L
MATH323	Engineering Data Analysis	3			3	
NSTP2-18	National Service Training Program 2	3			3	NSTP1-18
PATHFIT2022	Exercise-Based Fitness	2			2	PATHFIT1002
PHY083	Physics for Engineers	3			3	MATH153A; co-req. MATH153B, PHY081L
PHY081L	Physics for Engineers Lab		1	3	1	MATH153A; co-req. MATH153B, PHY083
RELED051	The Catholic Christian Faith	1			1	
	<b>Total</b>	<b>27</b>	<b>1</b>	<b>3</b>	<b>28</b>	
<b>FIRST YEAR, Inter-Semester</b>						
ENGG103	Engineering Economics	3			3	MATH323
GEC073	Ethics	3			3	
MATH223	Differential Equations	3			3	MATH153B
	<b>Total</b>	<b>9</b>			<b>9</b>	
<b>SECOND YEAR, First Semester</b>						
CoENG002L	Computer Fundamentals and Programming Lab		2	6	2	
ECE013A	Circuits I	3			3	PHY083, PHY081L; co-req. ECE011A-L
ECE011A-L	Circuits I Lab		1	3	1	PHY083, PHY081L; co-req. ECE013A
ECE024	Electromagnetics	4			4	MATH223
ENGG112	Engineering Management	2			2	GEC063, ENGG103
FIL093	Pagbasa at Pagsulat Tungo sa Pananaliksik	3			3	FIL083
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3			3	
LQEC713	Letran Quality Enrichment Course 71	3			3	LQEC703
PATHFIT3032	Individual/Dual Sports	2			2	PATHFIT1002, PATHFIT2022
PHY103	Physics	3			3	PHY083, PHY081L; co-req. PHY101L
PHY101L	Physics Lab		1	3	1	PHY083, PHY081L; co-req. PHY103
RZL023	Buhay at Mga Akda ni Rizal	3			3	
	<b>Total</b>	<b>26</b>	<b>4</b>	<b>12</b>	<b>30</b>	
<b>SECOND YEAR, Second Semester</b>						
ECE013B	Circuits II	3			3	ECE013A, ECE011A-L; co-req. ECE011B-L
ECE011B-L	Circuits II Lab		1	3	1	ECE013A, ECE011A-L; co-req. ECE013B
ECE033A	Electronics I	3			3	ECE013A, ECE011A-L; co-req. ECE031A-L, ECE203, ECE201L
ECE031A-L	Electronics I Lab		1	3	1	ECE013A, ECE011A-L; co-req. ECE033A, ECE203, ECE201L
ECE133B	ECE Laws, Contracts, Ethics, Standards, and Safety	3			3	GEC043, GEC073
ECE203	Comm 1 (Principles of Communication Systems)	3			3	co-req. ECE033A, ECE031A-L
ECE201L	Comm 1 (Principles of Communication Systems Lab)		1	3	1	co-req. ECE033A, ECE031A-L
FIL113	Panitikang Filipino	3			3	FIL093
MATHECE253	Advanced Engineering Mathematics for ECE	3			3	MATH223; co req MATHECE251L
MATHECE251L	Advanced Engineering Mathematics for ECE Lab		1	3	1	MATH223; co req MATHECE253
PATHFIT4042	Contemporary Dance	2			2	PATHFIT1002, PATHFIT2022
RELED063	Contemporary Issues in Christian Marriage	3			3	RELED051
	<b>Total</b>	<b>23</b>	<b>4</b>	<b>12</b>	<b>27</b>	
<b>SECOND YEAR, Inter - Semester</b>						
ECE033B	Electronics II	3			3	ECE033A, ECE031A-L; co-req. ECE031B-L
ECE031B-L	Electronics II Lab		1	3	1	ECE033A, ECE031A-L; co-req. ECE033B
ECE383	Methods of Research	3			3	ECE033A, ECE031A-L, ECE203, ECE201L, MATH323
	<b>Total</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>7</b>	

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Curriculum Year 2022-2023

COURSE CODE	COURSE TITLE	Lec	Lab		TOTAL	PRE-REQUISITES/ CO-REQUISITES
		Units/Hours	Units	Hrs		
<b>THIRD YEAR, First Semester</b>						
___ ECE033C	Electronics III	3			3	ECE033B, ECE031B-L; co-req. ECE031C-L, ECE-DPA-L
___ ECE031C-L	Electronics III Lab		1	3	1	ECE033B, ECE031B-L; co-req. ECE033C, ECE-DPA-L
___ ECE053B	Signals, Spectra & Signal Processing	3			3	MATHECE253, MATHECE251L; co-req. ECE051B-L
___ ECE051B-L	Signals, Spectra & Signal Processing Lab		1	3	1	MATHECE253, MATHECE251L; co-req. ECE053B
___ ECE093	Dig Electro 1: Logic Circuits and Switching Theory	3			3	ECE033A, ECE031A-L; co-req. ECE091L
___ ECE091L	Dig Electro 1: Logic Circuits and Switching Theory Lab		1	3	1	ECE033A, ECE031A-L; co-req. ECE093
___ ECE223	Comm 2 (Modulation and Coding Techniques)	3			3	ECE203, ECE201L; co-req. ECE221L, ECE-DPA-L
___ ECE221L	Comm 2 (Modulation and Coding Techniques Lab)		1	3	1	ECE203, ECE201L; co-req. ECE223, ECE-DPA-L
___ ECE-DPA-L	ECE Design 1 Lab		1	3	1	ECE383; co-req ECE033C, ECE031C-L, ECE223, ECE221L
___ ENGG193	Technopreneurship	3			3	ENGG103
___ GEC053	Art Appreciation	3			3	
	<b>Total</b>	<b>18</b>	<b>5</b>	<b>15</b>	<b>23</b>	
<b>THIRD YEAR, Second Semester</b>						
___ ECE083	Feedback and Control Systems	3			3	MATHECE253, MATHECE251L; co-req. ECE081L
___ ECE081L	Feedback and Control Systems Lab		1	3	1	MATHECE253, MATHECE251L; co req. ECE083
___ ECE113	Dig Electro 2: Microprocessor & Microcontroller Systems	3			3	ECE093, ECE091L; co-req. ECE111L
___ ECE111L	Dig Electro 2: Microprocessor & Microcontroller Systems Lab		1	3	1	ECE093, ECE091L, co-req. ECE113
___ ECE171A-L	Seminars / Colloquium Lab		1	3	1	ENGG103; ECE133B
___ ECE243	Comm 3 (Data Communications)	3			3	ECE223, ECE221L; co-req. ECE241L
___ ECE241L	Comm 3 (Data Communications Lab)		1	3	1	ECE223, ECE221L; co-req. ECE243
___ ECE-DPB-L	ECE Design 2 Lab		1	3	1	ECE-DPA-L
___ RELED073	Contemporary Issues about Church and Human Society with Immersion	3			3	RELED051
	<b>Total</b>	<b>12</b>	<b>5</b>	<b>15</b>	<b>17</b>	
<b>THIRD YEAR, Inter-Semester</b>						
___ ECE263	Comm 4 (Transmission Media and Antenna Systems)	3			3	ECE223, ECE221L; co-req. ECE261L
___ ECE261L	Comm 4 (Transmission Media and Antenna Systems Lab)		1	3	1	ECE223, ECE221L; co-req. ECE263
___ ENGG083	Environmental Science and Engineering	3			3	ENGG043
	<b>Total</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>7</b>	
<b>FOURTH YEAR, First Semester</b>						
___ ECE-ELEC1	ECE Elective 1	3			3	ECE263, ECE261L, LQEC713 co req ECE-ELEC1L, ECE-PRC3
___ ECE-ELEC1L	ECE Elective 1 Lab		1	3	1	ECE263, ECE261L, LQEC713 co req ECE-ELEC1, ECE-PRC3
___ ECE-PRC3	Practicum (300 hrs)	3			3	ECE263, ECE261L co req ECE-ELEC1, ECE-ELEC1L
	<b>Total</b>	<b>6</b>			<b>7</b>	
<b>FOURTH YEAR, Second Semester</b>						
___ ECE-ELEC2	ECE Elective 2	3			3	ECE-ELEC1, ECE-ELEC1L co req ECE-ELEC2L, ECE-ST006
___ ECE-ELEC2L	ECE Elective 2 Lab		1	3	1	ECE-ELEC1, ECE-ELEC1L co req ECE-ELEC2, ECE-ST006
___ ECE-ST006	Special Topics for ECE	6			6	ECE-ELEC1, ECE-ELEC1L co req ECE-ELEC2, ECE-ELEC2L
	<b>Total</b>	<b>9</b>	<b>1</b>	<b>3</b>	<b>10</b>	
<b>GRAND TOTAL</b>		<b>165</b>	<b>25</b>	<b>75</b>	<b>190</b>	