

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, 2nd Year)

COURSE CODE	COURSE TITLE	Lec Units/Hours	Lab Units	Hrs	TOTAL	PRE-REQUISITES/ CO-REQUISITES
FIRST YEAR, First Semester						
CHM081L	Chemistry for Engineers Lab		1	3	1	co-req CHM083
CHM083	Chemistry for Engineers	3			3	co-req CHM081L
DRW051L	Computer Aided Drafting		1	3	1	
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	
	Total	23	2	6	25	
FIRST YEAR, Second Semester						
GEC003	Understanding the Self	3			3	
GEC033	Mathematics in the Modern World	3			3	
MATH153B	Calculus 2	3			3	MATH153A; co-req PHY083, PHY081L
MATH323	Engineering Data Analysis	3			3	MATH153A
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	
	Total	26	1	3	27	
SECOND YEAR, First Semester						
CoENG002L	Computer Fundamentals and Programming Lab		2	6	2	
ECE011A-L	Circuits I Lab		1	3	1	PHY083, PHY081L, co-req ECE013A
ECE013A	Circuits I	3			3	PHY083, PHY081L, co-req ECE011A-L
GEC073	Ethics	3			3	
GECELEC1	Living in the IT Era	3			3	
LQEC23-023	Letran Quality Enrichment Course II (21st Century Literacy Skills & Life Skills and Sustainability)	3			3	LQEC23-013
MATH223	Differential Equations	3			3	MATH153B
PATHFIT3032	Individual/Dual Sports	2			2	PATHFIT1002, PATFIT2022
PHY101L	Physics 2 Lab		1	3	1	PHY083, PHY081L, co-req PHY103
PHY103	Physics 2	3			3	PHY083, PHY081L, co-req PHY101L
RELED063	Contemporary Issues in Christian Marriage	3			3	RELED053
	Total	23	4	12	27	
SECOND YEAR, Second Semester						
ECE011B-L	Circuits II Lab		1	3	1	ECE013A,ECE011A-L, co-req ECE013B
ECE013B	Circuits II	3			3	ECE013A,ECE011A-L, co-req ECE011B-L
ECE024	Electromagnetics	4			4	MATH223
ECE033A	Electronics I: Electronic Devices and Circuits	3			3	ECE013A,ECE011A-L, co-req ECE033A, ECE013B, ECE011B-L, ECE203, ECE201L
ECE031A-L	Electronics I: Electronic Devices and Circuits Lab		1	3	1	ECE013A,ECE011A-L, co-req ECE031A-L, ECE013B, ECE011B-L, ECE203, ECE201L
ECE201L	Communications 1: Principles of Communication Systems Lab		1	3	1	co-req ECE203, ECE033A,ECE031A-L
ECE203	Communications 1: Principles of Communication Systems	3			3	co-req ECE201L, ECE033A, ECE031A-L
GECELEC2	The Entrepreneurial Mind	3			3	
PATHFIT4042	Contemporary Dance	2			2	PATHFIT1002, PATHFIT2022
RELED083	Christian Ethics	3			3	RELED053
RZL023	Buhay at Mga Gawa ni Rizal	3			3	
	Total	24	3	9	27	
THIRD YEAR, First Semester						
ECE031B-L	Electronics II: Electronic Circuits Analysis and Design Lab		1	3	1	ECE033A, ECE031A-L, co-req ECE033B
ECE033B	Electronics II: Electronic Circuits Analysis and Design	3			3	ECE033A, ECE031A-L, co-req ECE031B-L
ECE221L	Communications 2: Modulation and Coding Techniques Lab		1	3	1	ECE203, ECE201L, co-req ECE223
ECE223	Communications 2: Modulation and Coding Techniques	3			3	ECE203, ECE201L, co-req ECE221L
EN241L	Logic Circuits and Switching Theory Lab		1	3	1	ECE033A, ECE031A-L, co-req EN243
EN243	Logic Circuits and Switching Theory	3			3	ECE033A, ECE031A-L, co-req EN241L
GECELEC3	Philippine Popular Culture	3			3	
RELED073	Contemporary Issues about Church and Human Society with Immersion	3			3	RELED053
ENGG103	Engineering Economics	3			3	MATH153A
MATHECE251L	Advanced Engineering Mathematics for ECE Lab		1	3	1	MATH223, co-req MATHECE253
MATHECE253	Advanced Engineering Mathematics for ECE	3			3	MATH223, co-req MATHECE251L
	Total	21	4	12	25	

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THIRD YEAR, Second Semester						
ECE031C-L	Electronics III: Electronics Systems and Design Lab		1	3	1	ECE033B, ECE031B-L, co-req ECE033C
ECE033C	Electronics III: Electronics Systems and Design	3			3	ECE033B, ECE031B-L, co-req ECE031C-L
ECE171A-L	Seminars / Colloquium Lab		1	3	1	co-req ECE-DPA-L
ECE241L	Communications 3: Data Communications Lab		1	3	1	ECE223, ECE221L, co-req ECE243
ECE243	Communications 3: Data Communications	3			3	ECE223, ECE221L, co-req ECE241L
ECE251L	Microprocessors & Microcontroller Systems Lab		1	3	1	EN243, EN241L, co-req ECE253
ECE253	Microprocessors & Microcontroller Systems	3			3	EN243, EN241L, co-req ECE251L
ECE-DPA-L	ECE Design 1 Lab		1	3	1	ECE033B, ECE031B-L, co-req ECE171A-L, EN263
EN263	Methods of Research	3			3	co-req ECE-DPA-L
ENGG193	Technopreneurship	3			3	
ECE051B-L	Signals, Spectra & Signal Processing Lab		1	3	1	MATHECE253, MATHECE251L, co-req ECE053B
ECE053B	Signals, Spectra & Signal Processing	3			3	MATHECE253, MATHECE251L, co-req ECE051B-L
EN231L	Feedback and Control Systems Lab		1	3	1	MATHECE253, MATHECE251L, co-req EN233
EN233	Feedback and Control Systems	3			3	MATHECE253, MATHECE251L, co-req EN231L
Total		21	7	21	28	
THIRD YEAR, Inter-Semester						
ECE-ELEC1	ECE Elective 1	3			3	ECE243, ECE241L, co-req ECE-ELEC1L
ECE-ELEC1L	ECE Elective 1 Lab		1	3	1	ECE243, ECE241L, co-req ECE-ELEC1
ENGG112	Engineering Management	2			2	
Total		5	1	3	6	
FOURTH YEAR, First Semester						
ECE133B	ECE Laws, Contracts, Ethics, Standards, and Safety	3			3	GEC073
ECE261L	Communications 4: Transmission Media, Antenna System and Design Lab		1	3	1	ECE223, ECE221L, co-req ECE263
ECE263	Communications 4: Transmission Media, Antenna System and Design	3			3	ECE223, ECE221L, co-req ECE261L
ECE-DPB-L	ECE Design 2 Lab		1	3	1	ECE-DPA-L
ECE-ELEC2	ECE Elective 2	3			3	ECE-ELEC1, ECE-ELEC1L, co req ECE-ELEC2L
ECE-ELEC2L	ECE Elective 2 Lab		1	3	1	ECE-ELEC1, ECE-ELEC1L, co req ECE-ELEC2
ENGG043	Materials Science and Engineering	3			3	CHM083, CHM081L
ENGG083	Environmental Science and Engineering	3			3	CHM083, CHM081L
GEC053	Art Appreciation	3			3	
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3			3	
GEC043	The Contemporary World	3			3	
Total		24	3	9	27	
FOURTH YEAR, Second Semester						
ECE-PRC3	Practicum (300 hrs)*	3			3	ECE263, ECE261L
ECE-ST006	Special Topics for ECE	6			6	ECE-ELEC2, ECE-ELEC2L
Total		9	0	0	9	
GRAND TOTAL		176	25	75	201	

*Practicum - No simultaneous enrollment is allowed.

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