

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

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

COURSE CODE	COURSE TITLE	Lec Units/Hours	Lab Units	TOTAL Hrs	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	25
FIRST YEAR, Second Semester					
CoENG001L	Computer Fundamentals and Programming Lab		1	3	1
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	2	28
SECOND YEAR, First Semester					
EE031A-L	Electrical Circuits 1 Lab	3		3	MATH153B, PHY083, PHY081L, co-req EE033A
EE033A	Electrical Circuits 1		1	3	1 MATH153B, PHY083, PHY081L, co-req EE031A-L
ENGG013	Engineering Mechanics	3		3	PHY083, PHY081L
ENGG072	Basic Thermodynamics	2		2	PHY083, PHY081L
GEC073	Ethics	3		3	
GECELEC1	Living 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, PATHFIT2022
RELED063	Contemporary Issues in Christian Marriage	3		3	RELED053
		Total	25	1	3
SECOND YEAR, Second Semester					
EE031B-L	Electrical Circuits 2 Lab	3		3	EE033A, EE031A-L, co-req E033B
EE033B	Electrical Circuits 2		1	3	1 EE033A, EE031A-L, co-req E031B-L
EE042	Electromagnetics	2		2	MATH223, PHY083, PHY081L
EE051L	Electronic Circuits; Devices and Analysis Lab		1	3	1 EE033A, EE031A-L, co-req EE051L, EE103B
EE053	Electronic Circuits; Devices and Analysis	3		3	EE033A, EE031A-L, co-req EE053, EE103B
EE103B	Fundamentals of Electronic Communications	3		3	co-req EE053, EE051L
ENGG062	Fundamentals of Deformable Bodies	2		2	ENGG013
GEC043	The Contemporary World	3		3	
GECELEC2	The Entrepreneurial Mind	3		3	
PATHFIT4042	Contemporary Dance	2		2	PATHFIT1002, PATHFIT2022
RELED083	Christian Ethics	3		3	RELED053
		Total	24	2	6
SECOND YEAR, Inter-Semester					
EE192A	EE Laws, Codes, and Professional Ethics	2		2	GEC073
EE323	Engineering Mathematics for EE	3		3	MATH223
ENGG103	Engineering Economics	3		3	MATH153A
		Total	8	0	0
THIRD YEAR, First Semester					
EE122A	Electrical Machines 1	2		2	EE033B, EE031B-L, EE042
EE171A-L	Industrial Electronics Lab		1	3	1 EE053, EE051L, co-req EE173A
EE173A	Industrial Electronics	3		3	EE053, EE051L, co-req EE171A-L
EE261A-L	Electrical Apparatus and Devices Lab		1	3	1 EE033B, EE031B-L, co-req EE262A
EE262A	Electrical Apparatus and Devices	2		2	EE033B, EE031B-L, co-req EE261A-L
EE321L	Electrical Standards and Practices Lab		1	3	1 EE192A
EN233	Feedback and Control Systems	3		3	EE053, EE051L, EE323
EN243	Logic Circuits and Switching Theory	3		3	EE053, EE051L
ENGG092	Fluid Mechanics	2		2	PHY083, PHY081L
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3		3	
GECELEC3	Philippine Popular Culture	3		3	
MATH301L	Numerical Methods and Analysis Lab		1	3	1 EE323, co-req MATH302
MATH302	Numerical Methods and Analysis	2		2	EE323, co-req MATH301L
		Total	23	4	12
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THIRD YEAR, Second Semester					
EE091B-L	Power System Analysis Lab		1	3	EE321L, co-req EE093B, EE332, EE331L, EE311L
EE093B	Power System Analysis	3		3	EE321L, co-req EE091B-L, EE332, EE331L, EE311L
EE121B-L	Electrical Machines 2 Lab		1	3	EE122A, co-req EE123B
EE123B	Electrical Machines 2	3		3	EE122A, co-req EE121B-L
EE201A-L	Seminars/Colloquia Lab		1	3	co-req EE381L
EE311L	Fundamentals of Power Plant Engineering Design Lab	1	3	1	co-req EE093B, EE091B-L
EE331L	Distribution Systems and Substation Design Lab	1	3	1	co-req EE093B, EE091B-L, EE332
EE332	Distribution Systems and Substation Design	2		2	co-req EE093B, EE091B-L, EE331L
EE381L	Research Method Lab		1	3	EE122A, co-req EE201A-L
EN253	Microprocessors	3		3	EN243
ENGG193	Technopreneurship	3		3	
RELED073	Contemporary Issues About Church and Human Society with Immersion	3		3	RELED053
RZL023	Buhay at Mga Gawa ni Rizal	3		3	
		Total	20	6	18
					26
FOURTH YEAR, First Semester					
EE162A-L	Electrical Systems and Illumination Engineering Design Lab		2	6	2 EE123B, EE121B-L, co-req EE163A
EE163A	Electrical Systems and Illumination Engineering Design	3		3	EE123B, EE121B-L, co-req EE162A-L
EE342	Management of Engineering Projects	2		2	ENGG103
EE-RP-L	Research Project Lab		1	3	EE381L
ENGG043	Materials Science and Engineering	3		3	CHM083, CHM081L, ENGG062
ENGG083	Environmental Science and Engineering	3		3	CHM083, CHM081L
ENGG183	Basic Occupational Safety and Health	3		3	
GEC053	Art Appreciation	3		3	
EE111B-L	Instrumentation and Control Lab		1	3	EN233, co-req EE112B
EE112B	Instrumentation and Control	2		2	EN233, co-req EE111B-L
EE-Elec1	EE Elective 1	3		3	EE093B, EE091B-L
		Total	22	4	12
					26
FOURTH YEAR, Second Semester					
EE-PRC3	Practicum (300 hrs)*	3		3	EE163A, EE162A-L
EE-ST006	Special Topics for EE	6		6	EE-Elec1
EE-Elec2	EE Elective 2	3		3	EE-Elec1
		Total	12	0	0
					12
GRAND TOTAL					
		183	21	63	204

*Practicum - No simultaneous enrollment is allowed.

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