

# Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Modified Curriculum Year 2018-2019 (For Incoming I Yr.)

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	
GEC003	Understanding the Self	3			3	
GEC013	Science, Technology, and Society	3			3	
GEC033	Mathematics in the Modern World	3			3	
GEC053	Art Appreciation	3			3	
GEC063	Purposive Communication	3			3	
MATH153A	Calculus 1	3			3	
NSTP1-18	National Service Training Program 1	3			3	
PE002-18	Physical Fitness & Related Activities	2			2	
RZL023	Buhay at Mga Akda ni Rizal	3			3	
	<b>Total</b>	<b>29</b>			<b>29</b>	
<b>FIRST YEAR, Second Semester</b>						
CHM081L	Chemistry for Engineers Lab		1	3	1	CHM083
DRW051L	Computer Aided Drafting		1	3	1	
FIL083	Komunikasyon sa Akademikong Filipino	3			3	
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3			3	
LQEC603	Letran Quality Enrichment Course 60	3			3	
MATH153B	Calculus 2	3			3	MATH153A
MATH323	Engineering Data Analysis	3			3	MATH153A
NSTP2-18	National Service Training Program 2	3			3	NSTP1-18
PE022-18	Rhythmic Activities	2			2	PE002-18
PHY083	Physics for Engineers	3			3	MATH153A, coreq PHY081L
PHY081L	Physics for Engineers Lab		1	3	1	MATH153A, co req PHY083
RELED051	The Catholic Christian Faith	1			1	
	<b>Total</b>	<b>24</b>	<b>3</b>	<b>9</b>	<b>27</b>	
<b>FIRST YEAR, Inter-Semester</b>						
CoENG001L	Computer Fundamentals and Programming Lab		1	3	1	GEC013
ENGG072	Basic Thermodynamics	2			2	PHY083, PHY081L
ENGG103	Engineering Economics	3			3	GEC033, MATH323
	<b>Total</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>6</b>	
<b>SECOND YEAR, First Semester</b>						
EE033A	Electrical Circuits I	3			3	MATH153B, PHY083, PHY081L, co req EE031A-L
EE031A-L	Electrical Circuits I Lab		1	3	1	MATH153B, PHY083, PHY081L, co-req EE033A
ENGG013	Engineering Mechanics	3			3	PHY083, PHY081L
ENGG092	Fluid Mechanics	2			2	PHY083, PHY081L
FIL093	Pagbasa at Pagsulat Tungo sa Pananaliksik	3			3	FIL083
GEC043	The Contemporary World	3			3	
GEC073	Ethics	3			3	
LQEC613	Letran Quality Enrichment Course 61	3			3	LQEC603
MATH223	Differential Equations	3			3	MATH153B
PE032-18	Individual/Dual Sports	2			2	PE002-18
	<b>Total</b>	<b>25</b>	<b>1</b>	<b>3</b>	<b>26</b>	
<b>SECOND YEAR, Second Semester</b>						
EE033B	Electrical Circuits II	3			3	EE033A, EE031A-L, co req EE031B-L
EE031B-L	Electrical Circuits II Lab		1	3	1	EE033A, EE031A-L, co-req EE033B
EE042	Electromagnetics	2			2	MATH223, PHY083, PHY081L
EE053	Electronic Circuits: Devices and Analysis	3			3	EE033A, EE031A-L, co req EE051L
EE051L	Electronic Circuits: Devices and Analysis Lab		1	3	1	EE033A, EE031A-L, co req EE053
EE192A	EE Laws, Codes, and Professional Ethics	2			2	GEC073
EE323	Engineering Mathematics for EE	3			3	MATH223
ENGG062	Fundamentals of Deformable Bodies	2			2	ENGG013
FIL113	Panitikang Filipino	3			3	FIL093
RELED063	Contemporary Issues in Christian Marriage	3			3	RELED051
PE042-18	Team Sports	2			2	PE002-18
	<b>Total</b>	<b>23</b>	<b>2</b>	<b>6</b>	<b>25</b>	
<b>SECOND YEAR, Inter-Semester</b>						
EE082	Feedback Control Systems	2			2	EE053, EE051L, EE323
EE122A	Electrical Machines 1	2			2	EE033B, EE031B-L, EE042
ENGG183	Basic Occupational Safety and Health	3			3	GEC073
	<b>Total</b>	<b>7</b>			<b>7</b>	

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		Units/Hours	Units	Hrs		
<b>THIRD YEAR, First Semester</b>						
EE103B	Fundamentals of Electronic Communications	3			3	EE053, EE051L
EE123B	Electrical Machines 2	3			3	EE122A, co req EE121B-L
EE121B-L	Electrical Machines 2 Lab		1	3	1	EE122A, co req EE123B
EE142	Logic Circuits and Switching Theory	2			2	EE053, EE051L
EE173A	Industrial Electronics	3			3	EE053, EE051L, co req EE171A-L
EE171A-L	Industrial Electronics Lab		1	3	1	EE053, EE051L, co req EE173A
EE262A	Electrical Apparatus and Devices	2			2	EE033B, EE031B-L, co req EE261A-L
EE261A-L	Electrical Apparatus and Devices Lab		1	3	1	EE033B, EE031B-L, co req EE262A
EE321L	Electrical Standards and Practices Lab		1	3	1	EE192A
EE342	Management of Engineering Projects	2			2	ENGG103, GEC063
EE381L	Research Method Lab		1	3	1	EE031B-L
ENGG042	Materials Science and Engineering	2			2	CHM083, CHM081L, ENGG062
MATH302	Numerical Methods and Analysis	2			2	EE323, co req MATH301L
MATH301L	Numerical Methods and Analysis Lab		1	3	1	EE323, cor eq MATH302
	<b>Total</b>	<b>19</b>	<b>6</b>	<b>18</b>	<b>25</b>	
<b>THIRD YEAR, Second Semester</b>						
EE093B	Power System Analysis	3			3	EE321L, co req EE091B-L, EE311L, EE332, EE331L
EE091B-L	Power System Analysis Lab		1	3	1	EE321L, co req EE093B, EE311L, EE332, EE331L
EE112B	Instrumentation and Control	2			2	EE082, co req EE111B-L
EE111B-L	Instrumentation and Control Lab		1	3	1	EE082, co req EE112B
EE163A	Electrical Systems and Illumination Engineering Design	3			3	EE123B, EE121B-L, co req EE162A-L
EE162A-L	Electrical Systems and Illumination Engineering Design Lab		2	6	2	EE123B, EE121B-L, co req EE163A
EE201A-L	Seminars/Colloquia Lab		1	3	1	EE381L
EE311L	Fundamentals of Power Plant Engineering Design Lab		1	3	1	co req EE093B, EE091B-L
EE332	Distribution Systems and Substation Design	2			2	co req EE093B, EE091B-L, EE331L
EE331L	Distribution Systems and Substation Design Lab		1	3	1	co req EE093B, EE091B-L, EE332
EE-RP-L	Research Project Lab		1	3	1	EE381L
RELED073	Contemporary Issues About Church and Human Society with Immersion	3			3	RELED051
	<b>Total</b>	<b>13</b>	<b>8</b>	<b>24</b>	<b>21</b>	
<b>THIRD YEAR, Inter-Semester</b>						
EE232	Microprocessor Systems	2			2	EE142
ENGG083	Environmental Science and Engineering	3			3	
ENGG193	Technopreneurship	3			3	
	<b>Total</b>	<b>8</b>			<b>8</b>	
<b>FOURTH YEAR, First Semester</b>						
EE-Elec1	EE Elective 1	3			3	EE192A, ENGG062, EE082, EE122A, LQEC603
EE-PRC3	Practicum (300 hrs)	3			3	EE123B, EE121B-L, EE321L
	<b>Total</b>	<b>6</b>			<b>6</b>	
<b>FOURTH YEAR, Second Semester</b>						
EE-Elec2	EE Elective 2	3			3	EE-Elec1 co req EE-ST006
EE-ST006	Special Topics for EE	6			6	EE-Elec1, EE093B, EE091B-L, EE163A, EE162A-L, EE201A-L, EE311L, EE332, EE331L, EE-RP-L, LQEC613 co req EE-Elec2
	<b>Total</b>	<b>9</b>			<b>9</b>	
<b>GRAND TOTAL</b>		<b>168</b>	<b>21</b>	<b>63</b>	<b>189</b>	