

# Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2018-2019

COURSE CODE	COURSE TITLE	Lec		Lab		TOTAL	PRE-REQUISITES/ CO-REQUISITES
		Units/Hours	Units	Units	Hrs		
<b>FIRST YEAR, First Semester</b>							
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	
GEC003	Understanding the Self	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>26</b>	<b>2</b>	<b>6</b>	<b>28</b>		
<b>FIRST YEAR, Second Semester</b>							
FIL083	Komunikasyon sa Akademikong Filipino	3				3	
GEC013	Science, Technology, and Society	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>27</b>	<b>1</b>	<b>3</b>	<b>28</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>	
<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

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		Units/Hours	Units	Units	Hrs		
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>	