

**HOLY ANGEL UNIVERSITY**  
**SCHOOL OF ENGINEERING AND ARCHITECTURE**  
**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING (BSEE)**

Program Code: EE  
EFFECTIVE SCHOOL YEAR 2018-2019 (with Amendments)

COURSE CODE	COURSE TITLE	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S)/ CO-REQUISITE(S)
<b>FIRST YEAR, FIRST SEMESTER</b>					
1PURCOMM	Purposive Communication	3	0	3	None
2MATHMWORLD	Mathematics in the Modern World	3	0	3	None
CALC1	Calculus 1 (Differential)	3	0	3	None
CHEMENG	Chemistry for Engineers	3	0	3	None
CHEMENGL	Chemistry for Engineers Laboratory	0	3	1	Co-req: CHEMENG
CADRAFTING	Computer-Aided Drafting	0	3	1	None
4FYE1	Big History 1: Big Bang to the Future	3	0	3	None
THEOLOGY101	Theological Foundations: Judeo-Christian Tradition and Sacred Scriptures	3	0	3	None
7PE1	PE 1 - Movement Enhancement	2	0	2	None
CWTS1	Civic Welfare Training Service	0	3	3	None
<b>TOTAL</b>		<b>20</b>	<b>9</b>	<b>25</b>	

**FIRST YEAR, SECOND SEMESTER**

4ARTAPP	Art Appreciation	3	0	3	None
CALC2	Calculus 2 (Integral)	3	0	3	CALC1
EPHYSICS	Physics for Engineers	3	0	3	CALC1, Co-req: CALC2
EPHYSICSL	Physics for Engineers Laboratory	0	3	1	CALC1, Co-reqs: CALC2, EPHYSICS
COMFUNPROG	Computer Fundamentals and Programming	0	3	1	None
EEORIENT	Orientation to Electrical Engineering with Design Build	1	3	2	None
4FYE2	Big History 2: Looking through the Lens of Big History	3	0	3	4FYE1
THEOLOGY102	Special Issues in Catholic Theology	3	0	3	THEOLOGY101
7PE2	PE 2 - Fitness Exercises	2	0	2	7PE1
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
<b>TOTAL</b>		<b>18</b>	<b>12</b>	<b>24</b>	

**SECOND YEAR, FIRST SEMESTER**

4UNDERSELF	Understanding the Self	3	0	3	None
4READPHILHIS	Readings in Philippine History	3	0	3	None
9STS	Science, Technology and Society	3	0	3	None
DIFFEQNS	Differential Equations	3	0	3	CALC2
ECKTS1	Electrical Circuits 1	3	0	3	CALC2, EPHYSICS, EPHYSICSL
ECKTS1L	Electrical Circuits 1 Laboratory	0	3	1	CALC2, EPHYSICS, EPHYSICSL, Co-req: ECKTS1
ENGDATA	Engineering Data Analysis	3	0	3	CALC1
ENGMECH	Engineering Mechanics	3	0	3	CALC2, EPHYSICS, EPHYSICSL
FLUIDMEC	Fluid Mechanics	2	0	2	EPHYSICS, EPHYSICSL
7PE3	PE 3 - Physical Activities towards Health and Fitness 1	2	0	2	7PE2
<b>TOTAL</b>		<b>25</b>	<b>3</b>	<b>26</b>	

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**SECOND YEAR, SECOND SEMESTER**

EENGMATH	Engineering Mathematics for EE	3	0	3	DIFFEQNS
FDEFBODIES	Fundamentals of Deformable Bodies	2	0	2	ENGMECH
THERMODYN	Thermodynamics	3	0	3	CALC2, EPHYSICS, EPHYSICSL
ECKTS2	Electrical Circuits 2	3	0	3	ECKTS1, ECKTS1L
ECKTS2L	Electrical Circuits 2 Laboratory	0	3	1	ECKTS1, ECKTS1L, Co-req: ECKTS2
ETRONDEV	Electronic Circuits: Devices and Analysis	3	0	3	ECKTS1, ECKTS1L
ETRONDEVL	Electronic Circuits: Devices and Analysis Laboratory	0	3	1	ECKTS1, ECKTS1L, Co-req: ETRONDEV
ELECMAG-EE	Electromagnetics	3	0	3	EPHYSICS, EPHYSICSL, DIFFEQNS
THEOLOGY103	Christian Spirituality in the Contemporary World	3	0	3	THEOLOGY102
7PE4	PE 4 - Physical Activities towards Health and Fitness 2	2	0	2	7PE3
<b>TOTAL</b>		<b>22</b>	<b>6</b>	<b>24</b>	

**THIRD YEAR, FIRST SEMESTER**

3FIL1	Konstekswalisadong Komunikasyon sa Filipino	3	0	3	None
4ETHICS	Ethics	3	0	3	None
ENGGECON	Engineering Economics	3	0	3	2nd Year Standing
NUMETHODS	Numerical Methods and Analysis	2	3	3	EENGMATH
ELMAC1	Electrical Machines 1	4	0	4	ECKTS2, ECKTS2L, ELECMAG-EE
ELMAC1L	Electrical Machines 1 Laboratory	0	3	1	ECKTS2, ECKTS2L, ELECMAG-EE, Co-req: ELMAC1
FELCOM	Fundamentals of Electronic Communications	3	0	3	ETRONDEV, ETRONDEVL
INDELTRON	Industrial Electronics	3	0	3	ETRONDEV, ETRONDEVL
INDELTRONL	Industrial Electronics Laboratory	0	3	1	ETRONDEV, ETRONDEVL, Co-req: INDELTRON
LOGCKTS	Logic Circuits and Switching Theory	2	0	2	ETRONDEV, ETRONDEVL
<b>TOTAL</b>		<b>23</b>	<b>9</b>	<b>26</b>	

**THIRD YEAR, SECOND SEMESTER**

3FIL2	Filipino sa Iba't Ibang Disiplina	3	0	3	3FIL1
EELAW	EE Law, Codes and Professional Ethics	3	0	3	4ETHICS
OCCUSAFETY	Basic Occupational Health and Safety	3	0	3	3rd Year Standing
MICPROSYS	Microprocessor Systems	2	0	2	LOGCKTS
ENVISCIENG	Environmental Science and Engineering	3	0	3	CHEMENG, CHEMENGL
ELAPP	Electrical Apparatus and Devices	3	0	3	ECKTS2, ECKTS2L
ELAPPL	Electrical Apparatus and Devices Laboratory	0	3	1	ECKTS2, ECKTS2L, Co-req: ELAPP
ELMAC2	Electrical Machines 2	4	0	4	ELMAC1, ELMAC1L
ELMAC2L	Electrical Machines 2 Laboratory	0	3	1	ELMAC1, ELMAC1L, Co-req: ELMAC2
FEDCONS	Feedback Control Systems	3	0	3	ETRONDEV, ETRONDEVL, EENGMATH
<b>TOTAL</b>		<b>24</b>	<b>6</b>	<b>26</b>	

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**THIRD YEAR, SUMMER TERM**

EE-OJT	Electrical Engineering On-The-Job Training (320 Hours)			3	3rd Year Standing, Permission of Program Chair or School Dean
<b>TOTAL</b>				<b>3</b>	

**FOURTH YEAR, FIRST SEMESTER**

1LIT12	Great Books	3	0	3	None
MATSCI	Materials Science and Engineering	3	0	3	CHEMENG, CHEMENGL, FDEFBODIES
ELPRAC	Electrical Standards and Practices	0	3	1	EELAW
ELSYSDS	Electrical Systems and Illumination Engineering Design	3	0	3	ELMAC2, ELMAC2L
ELSYSDSL	Electrical Systems and Illumination Engineering Design Laboratory	0	6	2	ELMAC2, ELMAC2L, Co-req: ELSYSDS
MGTENPROJ	Management of Engineering Projects	3	0	3	ENGGECON
INCNTRL	Instrumentation and Control	3	0	3	FEDCONS
INCNTRLL	Instrumentation and Control Laboratory	0	3	1	FEDCONS, Co-req: INCNTRL
RESMETH-EE	Research Methods	0	3	1	ENGDATA
ELECTIVE 1	EE Elective 1			3	
<b>TOTAL</b>		<b>15</b>	<b>15</b>	<b>23</b>	

**FOURTH YEAR, SECOND SEMESTER**

4CONWORLD	The Contemporary World	3	0	3	None
4RIZAL	Life and Works of Rizal	3	0	3	None
POWERSYS	Power Systems Analysis	3	0	3	ELPRAC
POWERSYSL	Power Systems Analysis Laboratory	0	3	1	ELPRAC, Co-req: POWERSYS
PPEDESIGN	Fundamentals of Power Plant Engineering Design	0	3	1	ELPRAC, Co-req: POWERSYS
DISTRIBSYS	Distribution Systems and Substation Design	2	3	3	ELPRAC, Co-req: POWERSYS
RESPROJ-EE	Research Project or Capstone Design Project	0	3	1	RESMETH-EE
EESCOL	Seminars / Colloquia	0	3	1	4th Year Standing
TECHENTREP	Technopreneurship	3	0	3	ENGGECON
ELECTIVE 2	EE Elective 2			3	
<b>TOTAL</b>		<b>14</b>	<b>15</b>	<b>22</b>	

**PROGRAM TOTAL**

**199**

**IMPORTANT:** Registration in any subject is allowed only upon passing the prerequisite(s) of the said subject, if any. A subject enrolled in violation of this rule will not be given any credit regardless of the grade obtained.

**NOTES:** The nth Year Standing means that the student must have completed at least 75% of the load requirements of the previous year level.

This curriculum is based on requirements specified by Commission on Higher Education (CHED) Memorandum Order No. 88, series of 2017: Policies, Standards and Guidelines for the Bachelor of Science in Electrical Engineering Program.

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**SUGGESTED ELECTIVE COURSES**

ADVINMOTOR	Advanced Industrial Motor Control	2	0	2	ELMAC1, ELMAC1L
ADVINMOTORL	Advanced Industrial Motor Control Laboratory	0	3	1	ELMAC1, ELMAC1L, Co-req: ADVINMOTOR
PLCMANPOW	Programmable Logic Controllers in Manufacturing and Power	2	0	2	ADVINMOTOR, ADVINMOTORL
PLCMANPOWL	Programmable Logic Controllers in Manufacturing and Power Laboratory	0	3	1	ADVINMOTOR, ADVINMOTORL, Co-req: PLCMANPOW
HMI	Human-Machine Interface (Mechatronics)	2	0	2	ADVINMOTOR, ADVINMOTORL
HMIL	Human-Machine Interface (Mechatronics) Laboratory	0	3	1	ADVINMOTOR, ADVINMOTORL, Co-req: HMI
AESYSDSN	Advanced Electrical Systems Design	2	0	2	ELSYSDSN, ELSYSDSNL
AESYSDSNL	Advanced Electrical Systems Design Laboratory	0	3	1	ELSYSDSN, ELSYSDSNL, Co-req: AESYSDSN
SPSTRENRES	Special Studies in Renewable Energy Resources	3	0	3	ELAPP, ELAPPL, ELMAC2, ELMAC2L
SUBSTATION	Substation Maintenance	3	0	3	ELAPP, ELAPPL
MPOWERGENS	Maintenance of Power Generators	3	0	3	ELMAC2, ELMAC2L
TESTINGCOMM	Testing and Commissioning of Electrical Systems	3	0	3	ELSYSDSN, ELSYSDSNL
ELECTAUDIT	Electrical Audit Evaluation	3	0	3	ELSYSDSN, ELSYSDSNL
EESTIMATE	Electrical Estimating	3	0	3	ELSYSDSN, ELSYSDSNL
PNEUMATICS	Pneumatics and Process Control	3	0	3	ELMAC1, ELMAC1L
MACHAUTOPC	Machine Automation and Process Control	2	0	2	PNEUMATICS
MACHAUTOPCL	Machine Automation and Process Control Laboratory	0	3	1	PNEUMATICS, Co-req: MACHAUTOPC