



BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Effective 1st Semester, SY 2023-2024

Per CMO No. 88, s. 2017 and BOT Referendum No. 16, s. 2023

FIRST YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EE 101	Introduction to Electrical Engineering	1	0	1	None	None
EM 110	Fundamentals of Engineering Mathematics	4	0	4	None	EM 111
EM 111	Calculus 1 (Differential Calculus)	4	0	4	None	EM 110
EIM 111	Electrical Installation and Maintenance 1	2	1	3	None	None
NS 111	Chemistry for Engineers	3	1	4	None	None
CAD 1	Computer-Aided Drafting	0	1	1	None	None
GE 4	Mathematics in the Modern World	3	0	3	None	None
PE 1	Physical Activities toward Health and Fitness 1 (PATHFit 1): Movement Competency Training	2	0	2	None	None
NSTP 1	National Service Training Program 1 (ROTC, LTS, CWTS)	3	0	3	None	None
TOTAL		22	3	25		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 122	Calculus 2 (Integral Calculus)	4	0	4	EM 111	NS 122
EM 123	Linear Algebra	3	0	3	EM 110	None
EIM 122	Electrical Installation and Maintenance 2	2	1	3	EIM 111	None
CS 121	Computer Programming	0	1	1	None	None
NS 122	Physics for Engineers	3	1	4	EM 111	EM 122
GE 2	Readings in Philippine History	3	0	3	None	None
GE 5	Purposive Communication	3	0	3	None	None
PE 2	Physical Activities toward Health and Fitness 2 (PATHFit 2): Exercise-Based Fitness Activities	2	0	2	PE 1	None
NSTP 2	National Service Training Program 2 (ROTC, LTS, CWTS)	3	0	3	NSTP 1	None
TOTAL		23	3	26		

Note: After 1st Year, the student is now qualified to take Electrical Installation Maintenance (EIM) NC II administered by TESDA.

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
GE 7	Science, Technology and Society	3	0	3	None	None
GE ELECT 2	People and the Earth's Ecosystem	3	0	3	None	None
TOTAL		6	0	6		



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SECOND YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EE 211	Electrical Circuits 1	3	1	4	NS 122, EM 122	None
EM 213	Differential Equations	3	0	3	EM 122	None
EM 214	Engineering Data Analysis	3	0	3	EM 111	None
EIM 213	Basic Motor Control	2	1	3	EIM 122	None
MECH 211	Engineering Mechanics	3	0	3	NS 122	None
ME 221	Basic Thermodynamics	2	0	2	NS 122	None
GE 1	Understanding the Self	3	0	3	None	None
GE 3	The Contemporary World	3	0	3	None	None
PE 3	Physical Activities toward Health and Fitness 3 (PATHFit 3): Sports	2	0	2	PE 2	None
TOTAL		24	3	26		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EE 221	Electromagnetics	3	0	3	NS 122, EM 213	None
EE 222	Electrical Circuits 2	3	1	4	EE 211	None
EM 225	Engineering Math for EE	4	0	4	EM 213	None
ECE 223	Electronic Circuits: Devices and Analysis	3	1	4	EE 211	None
EIM 224	Advanced Motor Control with PLC Applications	3	1	4	EIM 213	None
MECH 222	Fundamentals of Deformable Bodies	2	0	2	MECH 211	None
BES 311	Engineering Economics	3	0	3	EM 214	None
GE 9	The Life and Works of Rizal	3	0	3	None	None
PE 4	Physical Activities toward Health and Fitness 4 (PATHFit 4): Dance	2	0	2	PE 3	None
TOTAL		26	3	29		

Note: After 2nd Year, the student is now qualified to take Electrical Installation Maintenance (EIM) NC III administered by TESDA.

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
GE 6	Art Appreciation	3	0	3	None	None
GE 8	Ethics	3	0	3	None	None
TOTAL		6	0	6		



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THIRD YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EE 311	Electrical Machines 1	2	1	3	EE 221, EE 222	None
EE 314	Electrical Circuit 3	3	0	3	EE 222	None
EE 312	Research Methods	0	1	1	EM 214	None
EM 316	Numerical Methods and Analysis	2	1	3	EM 225	None
ECE 311	Fundamentals of Electronic Communications	3	0	3	ECE 223	None
ECE 312	Industrial Electronics	3	1	4	ECE 223	None
ECE 313	Logic Circuits and Switching Theory	2	1	3	ECE 223	None
TOTAL		15	5	20		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EE 321	Electrical Apparatus and Devices	2	1	3	EE 222	None
EE 322	Electrical Machines 2	3	1	4	EE 311	None
EE 323	Basic Occupational Safety and Health	3	0	3	None	None
EE 324	EE Law, Codes and Professional Ethics	3	0	3	GE 8	None
EE 325	Feedback Control Systems	3	0	3	EM 225, ECE 223	None
EE 326	Research Project or Capstone Design Project	0	1	1	EE 312	None
ECE 324	Microprocessor Systems	2	1	3	ECE 313	None
ME 322	Fluid Mechanics	3	0	3	NS 122	None
ME 323	Environmental Science and Engineering	2	0	2	None	None
GE ELECT 3	Living in the IT Era	3	0	3	None	None
TOTAL		24	4	28		

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
OJT	On-The-Job-Training (360 hours)	0	6	6	4 th Year Standing	None



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FOURTH YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EE 412	Electrical Standards and Practices	0	1	1	EE 324	None
EE 413	Electrical Systems and Illumination Engineering Design	3	2	5	EE 322	None
EE 414	EE Elective 1	2	1	3	4 th Year Standing	None
EE 415	Management of Engineering Projects	2	0	2	BES 311	None
ME 413	Materials Science and Engineering	2	0	2	NS 111, MECH 222	None
ME 414	Instrumentation and Control	2	1	3	EE 325	None
BES 413	Technopreneurship	3	0	3	4 th Year Standing	None
EER 411	Correlational 1	4	0	4	4 th Year Standing	None
TOTAL		18	5	23		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EE 421	Power System Analysis	3	1	4	EE 412	EE 422
EE 422	Fundamentals of Power Plant Engineering Design	1	1	2	None	EE 421
EE 423	Distribution Systems and Substation Design	3	1	4	None	EE 421
EE 424	EE Elective 2	3	0	3	EE 414	None
EE 425	Seminars/Colloquia	0	1	1	4 th Year Standing	None
EER 422	Correlational 2	6	0	6	4 th Year Standing	None
GE ELECT 2	People and the Earth's Ecosystem	3	0	3	None	None
TOTAL		19	4	23		

SUMMARY OF UNITS PER SEMESTER				
Year	First Semester	Second Semester	Midyear Term	Total Units
First Year	25	26	6	57
Second Year	26	29	6	61
Third Year	20	28	6	54
Fourth Year	23	23		46
TOTAL				218 units
SUMMARY				
I. General Education Courses				24 units
II. GEC Elective/Mandated Courses				12units
III. PE 1,2,3 & 4 and NSTP 1& 2				14 units
IV. MATH COURSES				21 units
V. WORKSHOPS				13 units
VI. ALLIED COURSES				52units
VII. PROFESSIONAL COURSES				82 units
TOTAL NO. OF UNITS				218 units

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