## **BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING** Special UPLB UC Meeting 05 / 21-22 / 18; President's Approval 08/28/19

#### **First Semester**

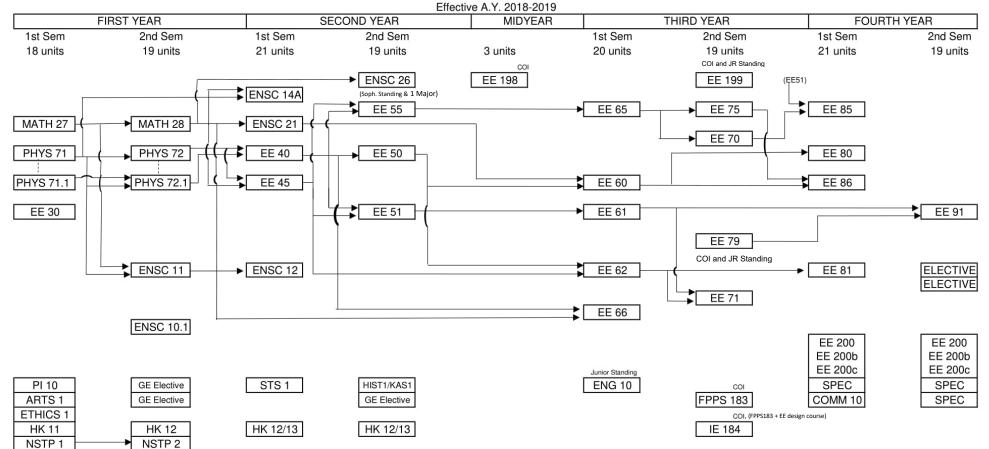
# Units Second Semester

FIRST YEAR

			FIRST YEAR		
MATH 27 PHYS 71 PHYS 71.1 EE 30 PI 10 ARTS 1 ETHICS 1 HK 11 NSTP 1	Analytic Geometry and Calculus II University Physics I University Physics I Laboratory Introduction to Electrical Engineering The Life and Works of Jose Rizal Critical Perspectives in the Arts Ethics and Moral Reasoning in Everyday Life Wellness and Basic Injury Management National Service Training Program I Total	3 4 1 3 3 3 (2) ( <u>3)</u> 18	MATH 28 PHYS 72 PHYS 72.1 ENSC 10.1 ENSC 11 GE Elective GE Elective HK 12 NSTP 2	Analytic Geometry and Calculus III University Physics II University Physics II Laboratory Engineering Graphics Laboratory Statics of Rigid Bodies Human Kinetics Activities National Service Training Program II Total	3 4 1 2 3 3 3 (2) ( <u>3)</u> 19
SECOND YEAR					
EE 40	Fundamentals of Electrical Engineering I	4	EE 50	Fundamentals of Electrical Engineering II	4
EE 45	Fundamentals of Engineering Electromagnetics	3	EE 51	Electromechanical Energy Conversion for DC	3
ENSC 12	Dynamics of Rigid Bodies	3	EE 55	Semiconductor Devices	3
ENSC 14a	Engineering Thermodynamics and Heat Transfer	5	ENSC 26	Computer Applications in Engineering	3
ENSC 21	Mathematical Methods in Engineering	3	HIST1/KAS1	Philippine History / Kasaysayan ng Pilipinas	3
STS 1	Science, Technology, and Society	3	GE Elective	Elective	3
HK 12/13	Human / Advanced Human Kinetics Activities	<u>(2)</u>	HK 12/13	Human / Advanced Human Kinetics Activities	<u>(2)</u>
	Total	21		Total	19
MIDYEAR EE 198 Internship <u>3</u> 3 THIRD YEAR					
==					
EE 60 EE 65	Signals and Systems Electronic Circuits	3 4	EE 70 EE 75	Instrumentation Engineering Digital Electronics	4 4
EE 61	Electromechanical Energy	4	EE 71	Analysis of Power Systems	3
EE 62	Conversion for AC Principles of Power Systems	3	EE 79	Electrical Engineering Law, Ethics, and Contracts	1
EE 66	Signals and Noise in Electrical	3	FPPS 183	Engineering Economic Analysis	3
ENG 10	Engineering Networks Writing of Scientific Papers	<u>3</u>	IE 184	Project Development and Management	3
	<b>.</b> .		EE 199	Undergraduate Seminar	<u>1</u> 19
	Total	20		Total	19
FOURTH YEAR					
EE 85	Industrial Electronics	3	EE 200 EE 200b EE 200c	Thesis or Innovationeering or Engineering Industry Research	3
EE 80	Control Systems Analysis	3	SPEC	Specialization Course	3
EE 86	Electronic Communication Systems I Maintenance of Electrical Equipment	3	SPEC	Specialization Course	3
EE 81	and Devices	3	Elective	Elective	3
COMM 10 EE 200	Critical Perspectives in Communication	3	Elective	Elective	3
EE 200 EE 200b EE 200c	Thesis or Innovationeering or Engineering Industry Research	3	EE 91	Electrical System Design, Planning, and Estimation	<u>4</u>
SPEC	Specialization Total	<u>3</u> 21		Total	19

Final revision July 2019

### Units



### FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING