



Adventist University of the Philippines

BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING

(Enhanced Curriculum 2014)

FIRST YEAR

<u>First Semester</u>			Units
			3
MATH	111	College Algebra	3
MATH	112	Plane and Spherical Trigonometry	3
ENCA	111	Communication Arts 1	3
FILI	111	Komunikasyon sa Akademikong Filipino	3
DRAW	111	Engineering Drawing 1	2
PHED	111	Physical Education 1	2
VOED	118	Driving 2	2
RELB	111	The Gospel	3
CWTS	111	NSTP I	3
MFET	111	Majors' Forum	(1)
SCSS	111	Students' Convocation	(1)
Total Units			24

<u>Second Semester</u>			Units
			3
MATH	122	Analytic and Solid Geometry	3
MATH	123	Solid Mensuration	2
MATH	220	Advanced Algebra	3
CHEM	111	General Chemistry 1 (Lec.)	3
CHEM	111L	General Chemistry 1 (Lab.)	2
DRAW	122	Computer Aided Drafting	2
VOED	111	Home Skills	2
RELB	122	The Destiny of Man	3
PHED	122	Physical Education II	2
CWTS	122	NSTP II	3
MFET	112	Majors' Forum	(1)
SCSS	112	Students' Convocation	(1)
Total Units			27

<u>Summer</u>			Units
RELB	213	Daniel and Revelation	3
FILI	122	Pagbasa at Pagsulat	3
SOSC	113	Politics and Gov. w/ Phil. Constitution	3
Total Units			9

SECOND YEAR

<u>First Semester</u>			Units
MATH	213	Calculus 1	3

PHYS	211	General Physics 1 (Lec.)	3
PHYS	211L	General Physics 1 (Lab.)	2
GEAS	211	Computer Fundamentals and Programming	3
ENCA	122	Communication Arts II	3
MATH	210	Discrete Mathematics	3
SOSC	212	Life and Works of Rizal	3
SOSC	124	Philippine History	3
PHED	213	Physical Education III	2
WOED	111	Work Education I	(1)
MFET	211	Majors' Forum	(1)
SCSS	211	Students' Convocation	(1)
Total Units			28

Second Semester

			Units
			3
MATH	224	Calculus II	3
PHYS	232	General Physics II (Lec.)	3
PHYS	232L	General Physics II (Lab.)	2
SOSC	215	Society and Culture w/ Family Planning	3
GEAS	221	Environmental Science	3
GEAS	222	Assembly Language	3
ENTW	312	Technical and Scientific Writing	3
RELB	224	Adventist Heritage	3
PHED	224	Physical Education IV	2
WOED	122	Work Education II	(1)
MFET	212	Majors' Forum	(1)
SCSS	212	Students' Convocation	(1)
Total Units			25

Summer

			Units
ESCI	231	Engineering Economy	3
MATH	231	Static of Rigid Bodies	3
ESCI	232	Engineering Workshop	2
Total Units			8

THIRD YEAR

First Semester

			Units
MATH	221	Calculus III	3
MATH	222	Differential Equations	3
ELEC	311	Electric Circuits 1 (Lec.)	3
ELEC	311L	Electric Circuits 1 (Lab.)	2
ECEE	311	Electronics Devices and Circuit 1 (Lec.)	3
ECEE	311L	Electronics Devices and Circuit 1 (Lab.)	2
ECEE	312	ECE Computer Applications	3
ECEE	313	Vector Analysis	3
GEAS	312	Dynamic of Rigid Bodies	3
MFET	311	Majors' Forum	(1)
SCSS	311	Students' Convocation	(1)
Total Units			27

Second Semester

			Units
MATH	321	Advanced Engineering Mathematics	3
ELEC	321	Electric Circuits II (Lec.)	3
ELEC	321L	Electric Circuits II (Lab.)	2
ECEE	321	Electronics Circuit Ana. and Design II (Lec.)	3
ECEE	321L	Electronics Circuit Ana. and Design II (Lab.)	2
ELEC	322	Logic Circuit & Switching Theory (Lec.)	3
ELEC	322L	Logic Circuit & Switching Theory (Lab.)	2
ECEE	323	Electromagnetics	3
MATH	319	Probability and Statistics	3
ECEE	324	Numerical Methods	3
MFET	312	Majors' Forum	(1)
SCSS	312	Students' Convocation	(1)
Total Units			29

Summer

			Units
COMM	331	Principles of Communication (Lec.)	3
COMM	331L	Principles of Communication (Lab.)	2
GEAS	333	Mechanics of Deformable Bodies	3
Total Units			8

FOURTH YEAR

First Semester

			Units
ECEE	411	Engineering Management	2
ELEC	411	Energy Conversion (Lec.)	3
ELEC	411L	Energy Conversion (Lab.)	2
ECEE	412	Signals, Signal Spectra, Signal Processing (Lec)	3
ECEE	412L	Signals, Signal Spectra, Signal Processing (Lab)	2
COMM	411	Digital Communications (Lec.)	3
COMM	411L	Digital Communications (Lab.)	2
GEAS	411	Material Science and Engineering	3
GEAS	412	Thermodynamics	3
ECEE	413	ECE Laws Contract and Ethics	2
MFET	411	Majors' Forum	(1)
SCSS	411	Students' Convocation	(1)
Total Units			27

Second Semester

			Units
COMM	421	Transmission Media & Antenna System (lec.)	3
COMM	421L	Transmission Media & Antenna System (Lab.)	2
ECEE	421	Industrial Electronics (Lec.)	3
ECEE	421L	Industrial Electronics (Lab.)	2
ECEE	422	Seminars and Fieldtrips	2
ECEE	423	Elective I	2
ECEE	424	Elective II	3
ECEE	426	Safety Management	2
ECEE	425	Professional Subjects Review I	2

MFET	412	Majors' Forum	(1)
SCSS	412	Students' Convocation	(1)
Total Units			23

Summer

Units

ECEE	431	Microprocessors and Systems (Lec)	3
ECEE	431L	Microprocessors and Systems (Lab.)	2
ECEE	432	Engineering Design (Lecture)	3
Total Units			8

FIFTH YEAR

First Semester

Units

ECEE	511L	Electronics Engineering Design (Laboratory)	2
ECEE	512L	Communications Engineering Design (Lab)	2
ECEE	513	Feedback and Control Systems (Lec.)	3
ECEE	513L	Feedback and Control Systems (Lab.)	2
COMM	511	Data Communication (Lec.)	3
COMM	511L	Data Communication (Lab.)	2
ECEE	514	Elective III	3
ECEE	515	Elective IV	3
ECEE	516	Professional Subjects Review II	2
MFET	511	Majors' Forum	(1)
SCSS	511	Students' Convocation	(1)
Total Units			24

Second Semester

Units

ECEE	521	On the Job Training	6
MFET	512	Majors' Forum	(1)
SCSS	512	Students' Convocation	(1)
Total Units			8

SUMMARY

GENERAL EDUCATION REQUIREMENTS

91 Units

English

9 Units

Communication Arts I	3
Communication Arts II	3
Technical and Scientific Writing	3

Filipino

6 Units

Komunikasyon sa Akademikong Filipino	3
Pagbasa at Pagsulat Tungo sa Pananaliksik	3

Literature

6 Units

Philippine Literature	3
World Literature	3

45 Units

Mathematics and Physics		
College Algebra	3	
Plane and Spherical Trigonometry	3	
Discrete Mathematics	3	
Solid Mensuration	2	
Advanced Algebra	3	
Analytic Geometry	3	
Differential Calculus (Calculus I)	3	
Integral Calculus (Calculus II)	3	
Intermediate Calculus (Calculus III)	3	
Differential Equations	3	
Advanced Engineering Mathematics	3	
Probability and Statistics	3	
General Physics I	5	
General Physics II	5	
Natural Science	5 Units	
General Chemistry I	5	
Social Science	12 Units	
Politics and Governance W/ Phil. Constitution	3	
Philippine History	3	
Society and Culture with Family Planning	3	
Rizal Life, Works and Teaching	3	
Physical Education	8 Units	
PE I	2	
PE II	2	
PE III	2	
PE IV	2	
CWTS	6 Units	
NSTP I	3	
NSTP II	3	
INTERNAL REQUIREMENTS		16 Units
Bible Courses	12 Units	
The Gospel	3	
The Destiny of Man	3	
Daniel and Revelation	3	
Adventist Heritage	3	
Vocational Education	4	
Home Skills	2	
Driving	2	
Work Education	(2)	
Work Education I	(1)	
Work Education II	(1)	
Majors' Forum	(8) Units	
MFET 111	(1)	
MFET 112	(1)	
MFET 211	(1)	
MFET 212	(1)	
MFET 311	(1)	
MFET 312	(1)	
MFET 411	(1)	
MFET 412	(1)	
	(8) Units	

Students' Convocation

SCSS 111	(1)
SCSS 112	(1)
SCSS 211	(1)
SCSS 212	(1)
SCSS 311	(1)
SCSS 312	(1)
SCSS 411	(1)
SCSS 412	(1)

MAJOR COURSES

121 Units

Electric Circuits I	5
Electronic Devices and Circuits	5
Electromagnetics	3
Engineering Workshop	2
Numerical Methods	3
Electric Circuits II	5
Electronic Circuit Analysis and Design	5
Logic Circuit and Switching Theory	5
ECE Computer Application	3
Vector Analysis	3
Engineering Management	2
Energy Conversion	5
Signals, Spectra, Signal Processing	5
ECE Contracts, Laws and Ethics	2
Safety Management	2
Principles of Communications	5
Digital Communications	5
Transmission Media and Antenna	5
Industrial Electronics	5
Seminars and Fieldtrips	2
Microprocessors and Systems	5
Engineering Design	3
Electronics Engineering Design Lab	2
Communications Engineering Design Lab	2
Feedback and Control Systems	5
Data Communications	5
Elective I	3
Elective II	3
Elective III	3
Elective IV	3
Professional Subjects Review I	2
Professional Subjects Review II	2
OJT (600 Hrs in the Industry)	6

COGNATES

31 Units

Engineering Drawing I	2
Computer Aided Drafting	2
Basic Computer and Programming	3
Assembly Language	3
Engineering Economy	3
Environmental Science	3
Static of Rigid Bodies	3
Dynamics of Rigid Bodies	3

Dynamics of Deformable Bodies	3
Material Science	3
Thermodynamics	3