



**CENTRAL PHILIPPINE ADVENTIST COLLEGE**  
**Bachelor of Science in Electronics Engineering**  
**Revised 2020**

1st Year Level					
1st Semester			2nd Semester		
Course No.	Course Title	Total Units	Course No.	Course Title	Total Units
MATH101	Basic Mathematics for ECE	4	MATH2E	Calculus 2	4
MATH1E	Calculus 1	6	GEES1	Engineering Drawing for ECE	1
CHEM1E	Chemistry for Engineers (Lec)	3	PHSC1E	Physics for Engineers (Lec)	3
CHEM1EL	Chemistry for Engineers (Lab)	1	PHSC1EL	Physics for Engineers (Lab)	1
MATH3E	Engineering Data Analysis	3	PHSC2E	Physics 2 (Lec)	3
GEC1	Understanding the Self	3	PHSC2EL	Physics 2 (Lab)	1
GEC3	Mathematics in the Modern World	3	EEW2	Electronics Eng'g Workshop 2 (Lec)	1
EEW1	Electronics Eng'g Workshop 1 (Lec)	1	EEW2L	Electronics Eng'g Workshop 2 (Lab)	1
EEW1L	Electronics Eng'g Workshop 1 (Lab)	1	COMP1E	Computer Programming (for ECE)	2
PED1	Physical Education 1	2	GEC4	Purposive Communication	3
NSTP1	National Service Training Program 1	3	PED2	Physical Education 2	2
			NSTP2	National Service Training Program 2	3
<b>TOTAL</b>		<b>30</b>	<b>TOTAL</b>		<b>25</b>

2nd Year Level					
1st Semester			2nd Semester		
Course No.	Course Title	Total Units	Course No.	Course Title	Total Units
MATH4E	Differential Equations	3	GEES3	Engineering Management	2
GEES2	Engineering Economics	3	ECE3	Digital Circuits and Techniques	2
ECE1	Electromagnetics	4	ECEC2	Circuits 2 (Lec)	3
ECEC1	Circuits 1 (Lec)	3	ECEC2L	Circuits 2 (Lab)	1
ECEC1L	Circuits 1 (Lab)	1	ECE4	Advanced Engineering Mathematics for ECE (Lec)	3
ECE2	Electronics 1: Electronic Devices and Circuits (Lec)	3	ECE4L	Advanced Engineering Mathematics for ECE (Lab)	1
ECE2L	Electronics 1: Electronic Devices and Circuits (Lab)	1	ECE5	Electronics 2: Electronic Circuit Analysis and Design (Lec)	3
CAD1	Computer-Aided Drafting for ECE	1	ECE5L	Electronics 2: Electronic Circuit Analysis and Design (Lab)	1
EEW3	Electronics Engineering Workshop 3 (Lec)	1	ECE6	Communications 1: Principles of Communication Systems (Lec)	3
EEW3L	Electronics Engineering Workshop 3 (Lab)	1	ECE6L	Communications 1: Principles of Communication Systems (Lab)	1
GEC6	Science, Technology and Society	3	EEW4	Electronics Engineering Workshop 4 (Lec)	1
PED3	Physical Education 3	2	EEW4L	Electronics Engineering Workshop 4 (Lab)	1
WOED1	Work Education 1: Philosophy of Work	2	PED4	Physical Education 4	2
			WOED2	Work Education 2: Specialization	2
<b>TOTAL</b>		<b>28</b>	<b>TOTAL</b>		<b>26</b>

SUMMER		
OJT 1	On-the-Job Training 1 (ECE) (200 hours)	3

3rd Year Level					
1st Semester			2nd Semester		
Course No.	Course Title	Total Units	Course No.	Course Title	Total Units
ECE7	Signals, Spectra, Signal Processing (Lec)	3	ECE11	Communications 3: Transmission Media, Antenna System and Design (Lec)	3
ECE7L	Signals, Spectra, Signal Processing (Lab)	1	ECE11L	Communications 3: Transmission Media, Antenna System and Design (Lab)	1
ECE8	Electronics 3: Electronic Systems and Design (Lec)	3	ECE12	Communications 4: Data Communications (Lec)	3
ECE8L	Electronics 3: Electronic Systems and Design (Lab)	1	ECE12L	Communications 4: Data Communications (Lab)	1
ECE9	Communications 2: Modulation and Coding Techniques (Lec)	3	ECE13	Digital Electronics 2: Microprocessor & Microcontroller Systems & Design (Lec)	3
ECE9L	Communications 2: Modulation and Coding Techniques (Lab)	1	ECE13L	Digital Electronics 2: Microprocessor & Microcontroller Systems & Design (Lab)	1
ECE10	Digital Electronics 1: Logic Circuits and Switching Theory (Lec)	3	ECE14	Feedback and Control Systems (Lec)	3
ECE10L	Digital Electronics 1: Logic Circuits and Switching Theory (Lab)	1	ECE14L	Feedback and Control Systems (Lab)	1
ECES1	Materials Science and Engineering	3	GEES4	Technopreneurship 101	3
RLG1	Life and Teachings of Jesus	3	RLG2	Denominational History	3
GEC2	Readings in Philippine History	3	WOED3	Work Education 3: Specialization	2
		<b>TOTAL</b>		<b>TOTAL</b>	<b>24</b>

SUMMER		
OJT 2	On-the-Job Training 2 (ECE) (200 hours)	3

4th Year Level					
1st Semester			2nd Semester		
Course No.	Course Title	Total Units	Course No.	Course Title	Total Units
ECES2	Environmental Science and Engineering	3	ECE17	Design 2/Capstone Project 2	1
ECE15	Methods of Research	3	ECE18	ECE Laws, Contracts, Ethics & Standards	3
ECE16	Design 1/Capstone Project 1	1	ECE19	Seminars/Colloquium	1
ECEET1	ECE Elective 1 (Lec)	3	ECEET2	ECE Elective 2 (Lec)	3
ECEET1L	ECE Elective 1 (Lab)	1	ECEET2L	ECE Elective 2 (Lab)	1
ECER1	ECE Review 1	4	ECER2	ECE Review 2	4
GEC7	Ethics	3	RLG4	Daniel and Revelation	3
GEC9	Life and Works of Rizal	3	GEC8	Contemporary World	3
RLG3	Christian Beliefs with Spiritual Gifts	3	GEC5	Art Appreciation	3
		<b>TOTAL</b>		<b>TOTAL</b>	<b>22</b>