COLLEGE OF ENGINEERING & DESIGN
SILLIMAN UNIVERSITY
Dumaguete City
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Effective School Year 2018-2019 (version 2)

FIRST YEAR

1st Semester Subject Code & Title	Lec	Lab	Units	Pre-requisites	2nd Semester Subject Code & Title	Lec	Lab	Units	Pre-requisites
EM 1 - Algebra for Eng'g. Application	3	0	3		EM 11 - Calculus 1 (Differential Calculus)	3	0	3	EM 1, EM 2
EM 2 - Trigonometry for Eng'g. Application	3	0	3		EM 13 – Mathematics for Engineering	3	0	3	EM 1
Draw 11R – Engineering Drawing and Plans	0	3	1		Phys 1 – Selected Topics in Mech., Acoustics & Thermo	3	3	4	EM 1, EM 2
Chem 14 – Chemistry for Engineers	3	3	4		Draw 12R – Computer-Aided Drafting (CAD)	0	3	1	Draw 11R
GE 4 - Mathematics in the Modern World	3	0	3		GE 5 – Purposive Communication	3	0	3	
GE 3 – The Contemporary World	3	0	3		GE 6 – Art Appreciation	3	0	3	
GE 2 – Readings in Philippine History	3	0	3		CHS 2 – Reading & Interpreting the Christian Scriptures	3	0	3	CHS 1
CHS 1 – Reading & Interpreting the Hebrew Scriptures	3	0	3		PE 2 – Physical Education	2	0	2	PE 1
PE 1 – Physical Fitness & Swimming	2	0	2		NSTP 2 - National Service Training Program	3	0	3	NSTP 1
NSTP 1 - National Service Training Program	3	0	3		PEP 2 - Personality Enhancement Program	-	-	-	
PEP 1 - Personality Enhancement Program	-	-	-						
Total	**26**	**6**	**28**		**Total**	**23**	**6**	**25**	

SUMMER

Subject Code & Title	Lec	Lab	Units	Pre-requisites					
EM 12 - Calculus 2 (Integral Calculus)	4	0	4	EM 11					
GE 1 – Understanding the Self	3	0	3						
Total	**7**	**0**	**7**						

SECOND YEAR

Subject Code & Title	Lec	Lab	Units	Pre-requisites	Subject Code & Title	Lec	Lab	Units	Pre-requisites
EM 21 – Differential Equations	3	0	3	EM 12	EME 26 – Engineering Mathematics for EE	3	0	3	EM 12, EM 21
EE 21EE – Electrical Circuits 1 (DC Circuits)	3	3	4	EM 12, EM 13, Phys 1	EE 22 – Electrical Circuits 2 (AC Circuits)	3	3	4	EE 21EE
ES 23R – Statics of Rigid Bodies	3	0	3	EM 12 & Phys 1	EE 24 EE - Electronic Circuits: Devices and Analysis	3	3	4	EE 21EE
MEE 21 – Basic Thermodynamics	2	0	2	Phys 1	EE 26 – Information Technology	3	0	3	EE 21EE & CFP 11R
CFP 11R – Computer Programming	0	6	2		EE 28 – Electromagnetics	2	0	2	EM 21 & Phys 1
GE 7 – Science, Technology and Society	3	0	3		ESE 33 – Fundamentals of Deformable Bodies	2	0	2	ES 23R, EM 21
GE 10 – Whole Person Education	3	0	3		ESE 26 – Fluid Mechanics	2	0	2	Phys 1
GE 12/CHS 3 – Ethics of the Christian Faith	3	0	3	CHS 2	EM 24 – Engineering Data Analysis	3	0	3	EM 21
PE 3 – Physical Education	2	0	2	PE 1	GE 11 – Free Elective	3	0	3	
					PE 4 – Physical Education	2	0	2	PE 1
Total	**22**	**9**	**25**		**Total**	**26**	**6**	**28**	

THIRD YEAR

Subject Code & Title	Lec	Lab	Units	Pre-requisites	Subject Code & Title	Lec	Lab	Units	Pre-requisites
EM 31 – Numerical Methods and Analysis	2	3	3	EM 24, EE 22, EME 26	EE 30 – Feedback Control Systems	3	3	4	EE 31, EME 26, EE 22, EE 24EE
EE 31 – Logic Circuits and Switching Theory	2	3	3	EE 24EE	EE 32 – Electrical Circuits 3 (Electrical Faults)	3	3	4	EE 22 & EE 24EE
EE 33 – Industrial Electronics	3	3	4	EE 24EE	EE 34 – Microprocessor Systems	2	3	3	EE 31
EE 35 – Fundamentals of Electronic Communications	3	0	3	EE 24EE	EES 32 – Basic Occupational Health and Safety	3	0	3	EE 37 & GE 8
EE 37 – Electrical Machines 1	2	3	3	EE 22 & EE 28	EE 38 – Electrical Machines 2	3	3	4	EE 37
ES 21 – Engineering Economics	3	0	3	EM 24	EE 36 – Electrical Apparatus and Devices	2	3	3	EE 22
GE 8 – Ethics	3	0	3		ES 25R – Environmental Science and Engineering	3	0	3	Chem 14
GE 9 – The Life and Works of Jose Rizal	3	0	3		EEL 32 – EE Laws, Codes and Professional Ethics	2	0	2	EE 37 & GE 8
Total	**21**	**12**	**25**		**Total**	**21**	**15**	**26**	

SUMMER

Subject Code & Title	Lec	Lab	Units	Pre-requisites					
EE 300 – On-The-Job Training (240 Hrs)	**2**	**3**	**3**	Passed all 3rd yr. EE major subjects					

FOURTH YEAR

Subject Code & Title	Lec	Lab	Units	Pre-requisites	Subject Code & Title	Lec	Lab	Units	Pre-requisites
EE 41 – Electrical Standards and Practices	0	3	1	EEL 32	EE 40 – Power Systems Analysis	3	6	5	EE 41, EE 51, CFP 11R
EE 43 – Electrical Sys. Design & Illumination Eng'g Design	3	6	5	EE 38	EE 44 – Spec. Stud on Renewable Energy Res –Waves/Ocean Energy (Elect2)	3	0	3	EE 45
EE 45 – Machine Automation & Process Control- Programmable Logic Controllers in Manufacturing (Elec.1)	2	3	3	EE 22, EE 31	EE 46 – Power System Protection –Protection of Generators, Transformers, Bus-bars & Lines (Elec.3)	3	0	3	EE 51
EE 47 – Research Methods	1	3	2	EE 32, EE 34, EE 38, EM 24	EE 42 – Research Project or Capstone Design Project	0	6	2	EE 47
EE 49 – Instrumentation and Control	3	3	4	EE 30	EE 48 – Seminars/Colloquia	0	3	1	Graduating
ES 40R – Engineering Management	2	0	2	ES 21	ES 28 – Technopreneurship	3	0	3	ES 21
EE 51 - Electrical Transients	3	0	3	EE 32	EE 50 – Distribution System & Substation Design	2	3	3	EE 32, EE 36, EE 38, EE 51
EE 53 - Materials Science and Engineering	2	0	2	EE 36					
Total	**16**	**18**	**22**		**Total**	**14**	**18**	**20**	

Total units: 209

*Students are required to obtain a minimum grade of 1.8 in all Eng'g & Phys subjects for progression.

Revision approved by Academic Council on May 15, 2019.