

COLLEGE OF ENGINEERING & DESIGN

SILLIMAN UNIVERSITY



Dumaguete City

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING Effective School Year 2018-2019 (version 2)

FIRST YEAR

Number of add A fride Number of a fride A	1 st Semester					2 nd Semester					
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M1 Algebra for Bogs Applementant A B <td>Subject Code & Title</td> <td>Lec</td> <td>Lab</td> <td>Units</td> <td>Pre-requisites</td> <td>Subject Lode & Little</td> <td>Lec</td> <td>Lab</td> <td>Units</td> <td>Pre-requisites</td>	Subject Code & Title	Lec	Lab	Units	Pre-requisites	Subject Lode & Little	Lec	Lab	Units	Pre-requisites	
M2 PM 10 Second Part Subgener parking Application I I I M1 1. Subgener parking Application I I I I M1 1. Subgener parking Application I <td>EM 1 - Algebra for Eng'g. Application</td> <td>3</td> <td>0</td> <td>3</td> <td></td> <td>EM 11 - Calculus 1 (Differential Calculus)</td> <td>3</td> <td>0</td> <td>3</td> <td>EM 1, EM 2</td>	EM 1 - Algebra for Eng'g. Application	3	0	3		EM 11 - Calculus 1 (Differential Calculus)	3	0	3	EM 1, EM 2	
Drow 14. Engineering Derving Party and Park 1 Sec 1 Park 1. Sec 1 Sec	EM 2 - Trigonometry for Eng'g. Application	3	0	3		EM 13 – Mathematics for Engineering	3	0	3	EM 1	
Beak	Draw 11R – Engineering Drawing and Plans	0	3	1		Phys 1 – Selected Topics in Mech., Acoustics & Thermo	3	3	4	EM 1, EM 2	
04 04 04 04 05 05 04 05 04 <	Chem 14 – Chemistry for Engineers	3	3	4		Draw 12R – Computer-Aided Drafting (CAD)	0	3	1	Draw 11R	
B2 - The Contemporary Order 3 0 0	GE 4 - Mathematics in the Modern World	3	0	3		GE 5 – Purposive Communication	3	0	3		
R12 e. alongening Principant leader showing and sector showing and concernance of a sector of a	GE 3 – The Contemporary World	3	0	3		GE 6 – Art Appreciation	3	0	3		
Clin 1Product Program20202020201PE 1Program Program00 <td>GE 2 – Readings in Philippine History</td> <td>3</td> <td>0</td> <td>3</td> <td></td> <td>CHS 2 – Reading & Interpreting the Christian Scriptures</td> <td>3</td> <td>0</td> <td>3</td> <td>CHS 1</td>	GE 2 – Readings in Philippine History	3	0	3		CHS 2 – Reading & Interpreting the Christian Scriptures	3	0	3	CHS 1	
PE1 - Physical Encodes Science 2 0 2 NTD 2 <td>CHS 1 – Reading & Interpreting the Hebrew Scriptures</td> <td>3</td> <td>0</td> <td>3</td> <td></td> <td>PE 2 – Physical Education</td> <td>2</td> <td>0</td> <td>2</td> <td>PE 1</td>	CHS 1 – Reading & Interpreting the Hebrew Scriptures	3	0	3		PE 2 – Physical Education	2	0	2	PE 1	
NSTP 1National Service Training Program330111 </td <td>PE 1 – Physical Fitness & Swimming</td> <td>2</td> <td>0</td> <td>2</td> <td></td> <td>NSTP 2 - National Service Training Program</td> <td>3</td> <td>0</td> <td>3</td> <td>NSTP 1</td>	PE 1 – Physical Fitness & Swimming	2	0	2		NSTP 2 - National Service Training Program	3	0	3	NSTP 1	
PEP 1Per analty Enhancement Program Total23455SUMMER	NSTP 1 - National Service Training Program	3	0	3		PEP 2 - Personality Enhancement Program	-	-	-		
Total Z6 6 28 SUMMER EM 12 - Cakuba 2 (Integral Cakuba) 4 0 4 M M 1 SUMMER EM 12 - Cakuba 2 (Integral Cakuba) 4 0 4 M	PEP 1 - Personality Enhancement Program	-	-	-							
SUMMER SUMMER SUMMER No	Total	26	6	28		Total	23	6	25		
EM 12 Calculus 2 (integral Calculus) 4 0 4 0 4 0 4 0 4 0 5 GR 1 - Understanding the Saf 3 0 1	SUMMER										
GR1 Understanding the Self 3 0 3 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 </td <td>EM 12 - Calculus 2 (Integral Calculus)</td> <td>4</td> <td>0</td> <td>4</td> <td>EM 11</td> <td></td> <td></td> <td></td> <td></td> <td></td>	EM 12 - Calculus 2 (Integral Calculus)	4	0	4	EM 11						
Total 7 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> 1 1 1</th1<>	GE 1 – Understanding the Self	3	0	3							
SECOND YFAR EM 21 - Differential Equations 3 0 3 EM 12 BM 26 > Engineering Mathematics for EE 3 0 3 EM 12, EM 1	Total	7	0	7							
EN 21 - Differential Equations 3 3 4 MI 12, MI 12	SECOND YEAR										
E 21EE - Ekctrical Gravits 1 (DC Circuits) 3 3 4 M 23.91 1.91 1.92 1.92 1.92 1.92 1.92 1.92 1	EM 21 – Differential Equations	3	0	3	EM 12	EME 26 – Engineering Mathematics for EE	3	0	3	EM 12, EM 21	
Statics of Rigid Bodie 3 0 3 EX 24 Paysid EE 24 E = Externic Circuits: Devices and Analysis 3 3 3 4 EE 21E MEE 21 - Basid Thermodynamics 2 0 2 Phys 1 EE 26 - Information Technology 3 0 3 MEX 21 Paysid CPT 11 - Computer Programming 0 6 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D	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	
Mark 21 Basic Thermodynamics 2 0 2 Phys 1 FE 2.6 Information Technology 3 0 3 MERIE LGP 1H CFP 1IR - Computer Programming 0 6 2 EE 28 -Ekctromagnetics 2 0 2 8.234, EA 21 CR7 -Science, Technology and Society 3 0 3 CIS 2 EE 2.3 -Fuid Mechanics 2 0 2 8.234, EA 21 CB10 -Why Proson Education 2 0 3 CIS 2 EE 24 -Fuid Mechanics 3 0 3 EE 234, EA 24 PE 3 -Physical Education 2 0 2 PE 1 GE 11 -Pree Elective 3 0 3 EE 14 PE 3 -Physical Education 2 0 2 PE 1 GE 11 -Pree Elective 3 0 3 EE 14 PE 3 -Physical Education 2 3 3 EE 24 Fe 24 EE 24 EE 30 -Feedback Control Systems 3 3 4 EE 128 EE 24 -Elective 14 Elective 14 Electi	ES 23B - Statics of Rigid Bodies	3	0	3	EM 12 & Phys 1	EE 24 EE - Electronic Circuits: Devices and Analysis	3	3	4	EE 21EE	
1 0 3 0 3 0 3 0 2 0 0 2 0 2 0 2 0 0 2 0 0 2 0 2 0 2 0 2 0 2 0 2 0 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	MEE 21 - Basic Thermodynamics	2	0	2	Phys 1	EE 26 - Information Technology	3	0	3	EE 21EE & CFP 11R	
G1 1 AP Conjugation Lange of Car of Carlos and Section Particulation Conformable Bodies of Part Conjugation Carlos and Section Particulation Conformable Bodies of Part Carlos and Section Particulation Conformable Bodies of Part Carlos and Section Particulation Conformable Bodies of Part Carlos and Section Part Part Part Part Part Part Part Part	CEP 11R - Computer Programming	0	6	2	T Hy 5 T	EF 28 _ Electromagnetics	2	0	2	FM 21 & Phys 1	
0.17 - 3. 0 0 3 0 3 0 2 0 1 0 3 0 3 0 3 0 3 0 3 0 3 0 1 0 1 0	CE 7 Science Technology and Society	3	0	2		ESE 22 - Fundamentals of Deformable Radios	2	0	2	FS 23R FM 21	
Or. 10 - Winder Person Build and main 3 0 3 CHS 5.5 6.5 5.4 0.5 2.5<	CE 10 Whee Derson Education	3	0	2		ESE 35 - Fundamentals of Defoi mable boules	2	0	2	Dhys 1	
GL 12/LIPS 3 - ERRICS of the LineStain Path 3 0 0 3 0 0 3 0 1 0	GE 10 – Whole Person Education	3	0	3	0110.0	ESE 26 - Fluid Mechanics	2	0	2	Phys I	
Ph 3 - Privscal Education 2 0 2 PF 1 PF 4 - Prove Detection 3 0 3 0 3 P 1 P 4 - Physical Education 2 0 2 P 1 Total 2 9 2 P 4 - Physical Education 3 3 0 3 2 P 1 Total 22 9 2 9 2 P 4 - Physical Education 3 3 4 E 1.500 (Second Second	GE 12/CHS 3 – Ethics of the Christian Faith	3	0	3	CHS Z	EM 24 – Engineering Data Analysis	3	0	3	EM ZI	
Prior	PE 3 – Physical Education	Z	0	Z	PE I	GE 11 - Free Elective	3	0	3	22.4	
Indication of the formation of the format						PE 4 – Physical Education	2	0	2	PE 1	
EM 31 - Numerical Methods and Analysis 2 3 3 M2 4 E2 3.0 - Feedback Control Systems 3 3 4 E2 3.1 EB 31 - Logic Circuits and Switching Theory 2 3 3 E2 4EE E3 3. - Extrical Circuits 3(Electrical Faults) 3 3 4 E2 3.2 EE 33 - Industrial Electronic 3 3 4 E2 4EE E3 3. - Microprocessor Systems 2 3 3 E3 7.8	Total	22	9	25		Total	26	6	28		
EM 31 - Numerical Methods and Analysis 2 3 3 2 4 2 3 3 2 4	THIRD YEAR										
EE 31 - Logic Circuits and Switching Theory233EE 24 EEEE 32 - Electrical Circuits 3(Electrical Faults)3354EE 24 EEEE 33 - Industrial Electronic334E2 4EEE3 4 - Microprocessor Systems2334E3 7EE 35 - Fundamentak of Electronic334E 24 2EEEE 33 - Electrical Machines 23334E 37E 37S5E 37E 38- Electrical Machines 23334E 37E 37S5E 37E 37E 3SE 3E 24 2EEE 33 - Electrical Machines 23334E 37E 37E 3SE 22 2 EEE 33 - Electrical Apparatus and Devices3334E 37E 37E 3C PantE 37E 3C PantE 37E 3E 3E 22 2 EEE 34 - Electrical Apparatus and Devices3331E 37E 37E 3C PantE 37E 37E 3C PantE 37E 3C PantE 37E 3E 3C PantE 37E 23E 37E 3E 37E 37 <td>EM 31 – Numerical Methods and Analysis</td> <td>2</td> <td>3</td> <td>3</td> <td>26</td> <td>EE 30 – Feedback Control Systems</td> <td>3</td> <td>3</td> <td>4</td> <td>EE 31, EME 26, EE 22, EE 24EE</td>	EM 31 – Numerical Methods and Analysis	2	3	3	26	EE 30 – Feedback Control Systems	3	3	4	EE 31, EME 26, EE 22, EE 24EE	
EB 33 - Industrial Electronics334EE 24EEEE 34 - Microprocessor Systems233E 3E 3EB 33 - Fundamentak of Electronic Communications335E 24EEEES 32 - Basic Occupational Health and Safety334E 37 & GA5EB 37 - Electrical Machines 1233E 22 & EE 38EES 32 - Basic Occupational Health and Safety334E 37 & GA5ES 31 - Engineering Economics303E 22 & EE 38E 26 - Electrical Apparatus and Devices233E 22GE 9 - The Life and Works of Jose Rizal303EEEE 37 - Electrical Apparatus and Devices203CEE 37 & CEGE 9 - The Life and Works of Jose Rizal303EEEE 37 - Electrical Apparatus and Devices203CEE 37 & CEGE 9 - The Life and Works of Jose Rizal303EEE <td< td=""><td>EE 31 – Logic Circuits and Switching Theory</td><td>2</td><td>3</td><td>3</td><td>EE 24EE</td><td>EE 32 – Electrical Circuits 3(Electrical Faults)</td><td>3</td><td>3</td><td>4</td><td>EE 22 & EE 24EE</td></td<>	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	
EB 35 - Fundamentals of Ekctronic Communications30303E 24 EEEE 32 - Basic Occupational Health and Safety30303E 37 A GR 8EB 37 - Ekctrical Machines 1233E 22 & EE 22EE 38 - Ekctrical Machines 23334E 37 - Ekctrical Machines 2ES 21 - Engineering Economics3303EE 32EE 33 - Ekctrical Apparatus and Devices and Engineering3303EE 32GE 8 - Ethics30303EE 32EE 32Ea word metal Science and Engineering303EE 32GE 9 - The Life and Works of Jose Rizal3033EE 32EE 42EE 420EE 420<	EE 33 – Industrial Electronics	3	3	4	EE 24EE	EE 34 – Microprocessor Systems	2	3	3	EE 31	
CommunicationsImage: Section of the sectin of the sectin	EE 35 – Fundamentals of Electronic	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 37 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 27 GE 8 - Ethics 3 0 3 0 3 EE 37 EE 32 - Electrical Apparatus and Devices 2 0 2 EE 37 & GE 8 GE 9 - The Life and Works of Jose Rizal 3 0 3 0 3 0 3 0 2 EE 37 & GE 8 GE 9 - The Life and Works of Jose Rizal 3 0 3 0 3 0 3 0 3 0 3 0 2 EE 37 & GE 8 GE 9 - The Life and Works of Jose Rizal 7 7 3 9 7 8 9 9 9 9 9 15 2 15 2 15 2 15 2 15 2 15 2 15 2 15 2 16 </td <td>Communications</td> <td>2</td> <td>2</td> <td>2</td> <td></td> <td></td> <td>2</td> <td>2</td> <td></td> <td>FF 25</td>	Communications	2	2	2			2	2		FF 25	
ES 21 Engineering Economics 3 0 3 EM 24 EE 36 Execution Apparatus and Devices 2 3 3 5 EE 22 GE 8 - Ethics 3 0 3 0 3 EE 32 EE 1232 - EE Laws, Codes and Professional Ethics 2 0 2 EE 37 & GE 8 GE 9 - The Life and Works of Jose Rizal 3 0 3 0 3 EE 37 EE 132 - EE Laws, Codes and Professional Ethics 2 0 2 EE 37 & GE 8 GE 9 - The Life and Works of Jose Rizal 3 0 3 1 EE 37 EE 132 - EE Laws, Codes and Professional Ethics 2 0 2 EE 37 & GE 8 Common the Job Training (240 Hrs) 2 3 3 Passed all 3rd's "ET 2000000000000000000000000000000000000		2	3	3	EE 22 & EE 28	EE 38 - Electrical Machines 2	3	3	4	EE 37	
GE 8- Ethics30303030301012<	ES 21 – Engineering Economics	3	0	3	EM 24	EE 36 – Electrical Apparatus and Devices	2	3	3	EE ZZ	
GE 9- The Life and Works of Jose Rizal30303013013013013013101310 </td <td>GE 8 – Ethics</td> <td>3</td> <td>0</td> <td>3</td> <td></td> <td>ES 25R – Environmental Science and Engineering</td> <td>3</td> <td>0</td> <td>3</td> <td>Chem 14</td>	GE 8 – Ethics	3	0	3		ES 25R – Environmental Science and Engineering	3	0	3	Chem 14	
Total212125TermTotal211526E15261526EE303Passed all 3rd yr. EE major subjectsEE3033Passed all 3rd yr. EE major subjectsEE416511	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	
SUMMEREE 300 - On-The-Job Training (240 Hrs)233Passed all 3rd yr. Et major subjectsEE 430 - Power Systems Analysis365E 41, EE 51, CFP 11REE 41 - Electrical Standards and Practices0365EE 42EE 40 - Power Systems Analysis365EE 41, EE 51, CFP 11REE 43 - Electrical Sys. Design & Illumination Eng'g Design365EE 43EE 44 - Spec. Stud on Renewable Energy Res - Waves/Occan Energy(Elect.3)303EE 45EE 45 - Machine Automation & Process Control- Programmable Logic Controlers in Manufacturing (Elect.1)232EE 22, EE 31EE 46 - Power System Protection - Protection of Generators, Transformers, Bus-bars & Lines (Elec.3)303EE 51EE 47 - Research Methods132EE 32, EE 34, EE 34EE 42 - Research Project or Capstone Design Project062EE 47EE 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingES 40R- Engineering Management202ES 21ES 28 - Technopreneurship303ES 32, EE 34, EE 34, EE 34EE 51 - Electrical Transients303EE 32, EE 36, EE 34, EE 34EE 50 - Distribution System & Substation Design233EE 32, EE 36, EE 34, EE 34, EE 34, EE 34EE 53 - Material Science and Engineering202EE 36EE 36EE 36, EE 34	Total	21	12	25		Total	21	15	26		
EE 300 - On-The-Job Training (240 Hrs)Z3Passed all 3th yr. EE major subjectsEE 40 - Power Systems AnalysisEE 41 - Electrical Standards and Practices031EEL 32EE 40 - Power Systems Analysis365EE 41, EE 51, CFP 11REE 43 - Electrical Sys. Design & Illumination Eng's Design365EE 38EE 44 - Spec. Stud on Renewable Energy Res - Waves/Ocean Energy(Elect2)303EE 45EE 45 - Machine Automation & Process Control- Programmable Logic Controllers in Manufacturing (Elec.1)233EE 22, EE 31EE 46 - Power System Protection -Protection of Generators, Transformers, Bus-bars & Lines (Elec.3)303EE 47EE 47 - Research Methods132EE 30EE 48 - Seminars/Colloquia0062EE 47EE 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingEE 51 - Electrical Transients303EE 32EE 50 - Distribution System & Substation Design233EE 32, EE 36, EI 32, EE 36, EI 32, EE 36, EI 32, EE 365EE 32EE 32, EE 36, EI 32, EE 36, <br< td=""><td></td><td>0</td><td>0</td><td>•</td><td></td><td>SUMMER</td><td></td><td></td><td></td><td></td></br<>		0	0	•		SUMMER					
EVENTIFIEAREE 41 - Electrical Standards and Practices031EEL 32EE 40 - Power Systems Analysis365E4.1.EE.51.CFP 11REE 43 - Electrical Sys. Design & Illumination Eng g Design365EE 38EE 44 - Spec. Stud on Renewable Energy Res - Waves/Ocean Energy(Elect)303EE 45EE 45 - Machine Automation & Process Control- Programmable Logic Controllers in Manufacturing (Elec.1)233EE 22, EE 31EE 46 - Power System Protection - Protection of Generators, Transformers, Bus-bars & Lines (Elec.3)303EE 51EE 47 - Research Methods132EE 32, EE 34, EE 38, EE 42EE 42 - Research Project or Capstone Design Project062EE 47EE 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingES 40R - Engineering Management202ES 21ES 28 - Technopreneurship303EE 32, EE 36, EE 32, EE 34, EE 34EE 51 - Electrical Transients303EE 32EE 50 - Distribution System & Substation Design233EE 32, EE 36, EE 33, EE 34, EE 34EE 53 - Materials Science and Engineering202EE 36Control System & Substation Design233EE 32, EE 36, EE 33, EE 34, EE 34EE 53 - Materials Science and Engineering202EE 36Control System & Substation Design11010	EE 300 - On-The-Job Training (240 Hrs)	Z	3	3	Passed all 3 rd yr						
EE 41 - Electrical Standards and Practices031EEL 32EE 40 - Power Systems Analysis365EE 41, EE 31, CFF 11KEE 43 - Electrical Sys. Design & Illumination Eng'g Design365EE 38EE 44 - Spec. Stud on Renewable Energy Res -Waves/Ocean Energy(Elect2)303EE 45EE 45 - Machine Automation & Process Control- Programmable Logic Controllers in Manufacturing (Elec.1)233EE 22, EE 31EE 46 - Power System Protection -Protection of Generators, Transformers, Bus-bars & Lines (Elec.3)303EE 47EE 47 - Research Methods132EE 32, EE 34, EE 38, EE 32, EE 34, EE 38,EE 42 - Research Project or Capstone Design Project062EE 47EE 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingES 40R- Engineering Management202ES 21ES 28 - Technopreneurship303EE 32, EE 36, EE 38, EE 51EE 51 - Electrical Transients303EE 32EE 50 - Distribution System & Substation Design233EE 32, EE 36, EE 38, EE 51EE 53 - Materials Science and Engineering202EE 36EE 36EE 50 - Distribution System & Substation Design233EE 38, EE 51			2		H an	OURTH YEAR		_	1	EE 41 EE 51 CED 11D	
LE 43 - Electrical Sys. Design & Illumination Eng Design365EE 38EE 44 - Spec. Stud on Renewable Energy Res - Waves/Ocean Energy(Elect2)303EE 45EE 45 - Machine Automation & Process Control- Programmable Logic Controllers in Manufacturing (Elec.1)233EE 22, EE 31EE 46 - Power System Protection -Protection of Generators, Transformers, Bus-bars & Lines (Elec.3)303EE 51EE 47 - Research Methods132EE 32, EE 34, EE 38, EM 24EE 42 - Research Project or Capstone Design Project062EE 47EE 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingES 40R- Engineering Management202ES 21ES 28 - Technopreneurship303EE 32, EE 36, EE 38, EE 50 - Distribution System & Substation Design233EE 32, EE 36, EE 38, EE 51EE 53 - Materials Science and Engineering202EE 36Image: EE 32Image: EE 32Image: EE 32Image: EE 32Image: EE 32EE 53 - Materials Science and Engineering202EE 36Image: EE 32Image: EE 32Image: EE 32Image: EE 32Image: EE 32Image: EE 32EE 53 - Materials Science and Engineering202EE 36Image: EE 32Image: EE 32Image: EE 32Image: EE 32Image: EE 32Image: EE 32Image: EE 53 - Materials Science and Engineering21022<	EE 41 – Electrical Standards and Practices	U	3	1	EEL 32	EE 40 – Power Systems Analysis	3	6	5		
EE 45 - Machine Automation & Process Control- Programmable Logic Controllers in Manufacturing (Elec.1)233EE 22, EE 31EE 46 - Power System Protection -Protection of Generators, Transformers, Bus-bars & Lines (Elec.3)303EE 51EE 47 - Research Methods132EE 32, EE 34, EE 38, EM 24EE 42 - Research Project or Capstone Design Project062EE 47EE 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingES 40R- Engineering Management202ES 21ES 28 - Technopreneurship303EE 32, EE 36, EE 33 - Materials Science and Engineering202EE 32EE 53 - Materials Science and Engineering202EE 36Image: Ee 32Image: Ee 32Image: Ee 32EE 53 - Materials Science and Engineering202EE 36Image: Ee 32Image: Ee 32Image: Ee 32EE 53 - Materials Science and Engineering202Image: Ee 32Image: Ee 32Image: Ee 32Image: Ee 32EE 53 - Materials Science and Engineering202Image: Ee 32Image: Ee 32Image: Ee 32Image: Ee 32Image: Ee 32EE 53 - Materials Science and Engineering202Image: Ee 32Image: Ee 32Image: Ee 32Image: Ee 32Image: Ee 32Image: Ee 32EE 53 - Materials Science and Engineering21022Image: Ee 32Image: Ee	LL 43 – Electrical Sys. Design & Illumination Eng'g Design	3	6	5	EE 38	上上 44 - Spec. Stud on Renewable Energy Res -Waves/Ocean Energy(Elect2)	3	0	3	EE 45	
EE 47 - Research Methods132EE 32, EE 34, EE 38, EE 42 - Research Project or Capstone Design Project062EE 47EE 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingES 40R- Engineering Management202ES 21ES 28 - Technopreneurship303EE 32, EE 36, EE 33, EE 32, EE 36, EE 33, EE 32EE 51 - Electrical Transients303EE 32EE 50 - Distribution System & Substation Design233EE 32, EE 36, EE 38, EE 51EE 53 - Materials Science and Engineering202EE 36Image: Control of the set of the s	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 49 - Instrumentation and Control334EE 30EE 48 - Seminars/Colloquia031GraduatingES 40R- Engineering Management202ES 21ES 28 - Technopreneurship303ES 21EE 51 - Electrical Transients303EE 32EE 50 - Distribution System & Substation Design233EE 32, EE 36, EE 38, EE 51EE 53 - Materials Science and Engineering202EE 36Image: Construction of the test of te	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	
ES 40R- Engineering Management202ES 21ES 28 - Technopreneurship303ES 21EE 51 - Electrical Transients303EE 32EE 50 - Distribution System & Substation Design233EE 32, EE 36, EE 38, EE 51EE 53 - Materials Science and Engineering202EE 36Image: Comparison of the test of t	EE 49 – Instrumentation and Control	3	3	4	EE 30	EE 48 – Seminars/Colloquia	0	3	1	Graduating	
EE 51 - Electrical Transients 3 0 3 EE 32 EE 50 - Distribution System & Substation Design 2 3 3 EE 32, EE 36, EE 33, EE 51 EE 53 - Materials Science and Engineering 2 0 2 EE 36 Image: Construction of the second	ES 40R– Engineering Management	2	0	2	ES 21	ES 28 – Technopreneurship	3	0	3	ES 21	
EE 53 - Materials Science and Engineering 2 0 2 EE 36 Image: Control of the state	EE 51 - Electrical Transients	3	0	3	EE 32	EE 50 - Distribution System & Substation Design	2	3	3	EE 32, EE 36,	
EE 55 - Materials Science and Engineering 2 0 2 EE 50	EE E2 Materials Science and Engine	- J - J	0	2	EE 26		-	5	5	ее <i>3</i> 8, ЕЕ 51	
10tal 16 18 22 10tal 14 18 20	Total	2 16	18	ے 22	EE 30	Total	14	18	20		

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

Total units: 209 Revision approved by Academic Council on May 15, 2019.