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College	College of Engineering	Department	Electrical Engineering and Computer Science
Program	Electronics and Communication	Degree Level	Bachelor of Engineering
Total Credit Hours	137 CH	Applicable for a batch of	2018 and after

Year One		Year Two		Year Three		Year Four		Year Five
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
ISLM101 Islamic Civilization	CHEM101 Chemistry	ECEN221 Circuits Theory I Pre-R: MATH101	ECEN344 Renewable Energy Pre-R: ECEN221	ECEN311 Optical Communications Pre-R: ECEN342	MATH305 Numerical Methods Pre-R: MATH102 and ENGR111	ECEN312 Microcontrollers Pre-R: ENGR111, ECEN211	ECEN591 Capstone Design Project I Pre-R: 90CH	ECEN592 Capstone Design Project II Pre-R: ECEN591
ENGL101 English Communication Skills 1	ENGL102 English Communication Skills 2 Pre-R: ENGL101	ECEN341 Signals and Systems Pre-R: MATH102	ECEN223 Communication Lab I Co-R: ECEN342	ECEN322 Circuit Theory II Pre-R: ECEN221	ECEN351 Electromagnetic Theory I Pre-R: ECEN221	MATH406 Calculus III Pre-R: MATH102	ECEN541 Digital Signal Processing Pre-R: ECEN341	ECEN543 Wireless Communications Pre-R: ECEN441
ENGR111 Computer Applications	MATH102 Calculus II Pre-R: MATH101	ENGR201 Engineering Drawing	ECEN331 Electronics I Pre-R: ECEN221	ECEN332 Electronics II Pre-R: ECEN331	MATH204 Probability and Statistics Pre-R: MATH102	ECEN533 Power Electronics Pre-R: ECEN322	ECEN431 Communication Electronics Pre-R: ECEN332, ECEN342	ECEN532 Digital Electronics Pre-R: ECEN332
MATH101 Calculus I	PHYS102 Physics II Pre-R: PHYS101	ENGR202 Technical Writing and Presentation Pre-R: ENGL102	ECEN222 Instrumentation and Measurement Techniques Pre-R: ECEN221	ECEN481 Electronics Lab II Co-R: ECEN332	ECEN441 Digital Communication Systems Pre-R: ECEN342	ENGR404 Engineering Economics	Electronics and Communication Engineering Elective	Electronics and Communication Engineering Elective
PHYS101 Physics I	ECEN211 Digital Systems Pre-R: MATH101	MATH215 Linear Algebra Pre-R: MATH101	ECEN342 Analog Communication Systems Pre-R: ECEN341	ECEN381 Circuits Lab Co-R: ECEN322	MATH203 Differential Equations Pre-R: MATH102	ECEN452 Electromagnetic Theory II Pre-R: ECEN351	ECEN432 Communication Electronics Lab Co-R: ECEN431	Electronics and Communication Engineering Elective
	ECEN281 Digital Systems Lab Co-R: ECEN211		ECEN382 Electronics Lab I Co-R: ECEN331	ECEN316 Integrating Group Project Pre-R: 60CH	ECEN323 Communication Lab II Co-R: ECEN441		ENGR322 Summer Internship Pre-R: 105 credits	ECEN534 Digital Electronics Lab Co-R: ECEN532
				MNGT 313 Entrepreneurship Pre-R: 60CH				
15 CH	16 CH	15 CH	14 CH	17 CH	16 CH	15 CH	13 CH	16 CH

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List of Elective Courses:

A student must register in **3** courses with a total of **9** credits hours following the program study plan.

Course Code	Course Title	Pre-Requisite	Credits hours
ECEN461	Control Systems	ECEN341	3
ECEN515	Communication Networks	ECEN441	3
ECEN535	CMOS Circuits Design	ECEN332	3
ECEN552	Antenna Theory and Design	ECEN452	3
ECEN555	Selected Topics in Communication Engineering	ECEN441	3
ECEN556	Selected Topics in Electronics Engineering	ECEN332	3
EETE427	Neural Networks and Fuzzy Logic	MATH406, ENGR111	3
EETE515	Optimization Techniques in Engineering	MATH305	3
EETE419	Automated Control Systems	ECEN461	3
ECEN553	Satellite Communications	ECEN441	3
ECEN554	Advanced Digital System Design	ECEN532	3
ECEN551	Microwave Engineering	ECEN452	3
OJTR406	Industrial Internship I	90 Credits	0
OJTR407	Industrial Internship II	OJTR406	0