Degree Title:	Bachelor of Science in Electronic and Telecommunication Engineering
Degree type:	Regular Program
Syllabus version:	Updated as per UGC guidelines for students admitted on or after Spring 2019

Breakdown of Course Categories	Credit Hours
Languages and General Education Courses (GED):	23
Basic Sciences:	32
Other Engineering:	8
Core Courses:	79
Elective Courses:	17
Total Credit Hours of Program:	159

List of Courses

Course Categories	Course Type	Course Code	Course Title	Credit Hour
Language and General Education Courses GED	Compulsory - Language	ENG 100	Elementary English	3
		ENG 102	English Composition, Writing and Speaking	3
		BNG 101	Functional Bengali Language	2
	Compulsory - Science, Arts and Business	CSC 110	Introduction to Computers	3
		GED 101	Ethics and Environmental Protection	3
		GED 102	History of Bangladesh Independence	3
	Optional (Any two courses) - Science, Arts and Business	ENV 110	Introduction to Environmental Science	3
		PHI 115	Introduction to World Religion	3
		ECO 101	Introduction to Microeconomics	3
		ECO 102	Introduction to Macroeconomics	3
		ACT 101	Introduction to Accounting	3
		MGT 101	Principles of Management	3
		SOC 100	Introduction to Sociology	3
		GED 103	Business Communications	3
		GED 104	Technology Entrepreneurship	3
Basic Science and Mathematics	Compulsory	PHY 101	Physics-I General Physics	3
		PHY 103	Physics-II Electricity, Magnetism and Electrical Circuit	3
		PHY 104	Physics-II Lab	1
		CHE 101	General Chemistry	3
		CHE 102	Chemistry Lab	1
		MAT 101	Algebra and Coordinate Geometry	3
		MAT 119	Math-I Integral and Differential Calculus	3
		MAT 129	Math-II Linear Algebra	3
		MAT 219	Math-III Differential Equation	3
		MAT 229	Math-IV Engineering Mathematics	3
		STA 132	Statistics and Probability	3
		MAT 358	Vector Analysis and Numerical methods	3
Other Engineering	Compulsory	CSE 101	Computer Programming: C, C++ and Introduction to Data Structure	3
		CSE 102	Computer Programming: C, C++ and Introduction to Data Structure Lab	1
		CSE 301	Computer Networks	3
		CSE 302	Computer Networks Lab	1
		ETE 101	Electrical Circuits-I	3
		ETE 102	Electrical Circuits-I Lab	1
		ETE 105	Electrical Circuits-II	3
		ETE 106	Electrical Circuit-II Lab	1
		ETE 110	Engineering Drawing	1
		ETE 222	Digital Logic Design	3
		ETE 223	Digital Logic Design Lab	1
		ETE 224	Electronics-I	3
		ETE 225	Electronics-I Lab	1
		ETE 229	Semiconductor Theory and Devices	3
		ETE 232	Electronics-II	3
		ETE 233	Electronics-II Lab	1

Core Courses	**Compulsory**	ETE 236	Fundamentals of Communications	3
		ETE 237	Fundamentals of Communications Lab	1
		ETE 301	Signals and Linear Systems	3
		ETE 302	Simulation and Modelling Lab (Introduction to PSpice, Orcad and MATLAB)	1
		ETE 312	Control Systems	3
		ETE 313	Control Systems Lab	1
		ETE 322	Energy Conversion	3
		ETE 331	Instrumentation and Measurement	3
		ETE 332	Instrumentation and Measurement Lab	1
		ETE 340	Microprocessor, Interfacing and Embedded Systems	3
		ETE 341	Microprocessor, Interfacing and Embedded Systems Lab	1
		ETE 345	Data Communication	3
		ETE 346	Data communication Lab	1
		ETE 353	Information Theory and Coding	3
		ETE 360	Digital Signal Processing	3
		ETE 361	Digital Signal Processing Lab	1
		ETE 401	Industrial and Power Electronics	3
		ETE 411	High Speed Telecommunication Networks	3
		ETE 421	Wireless and Mobile Communication	3
		ETE 430	Telecommunication Network Management	3
		ETE 445	Antennas and Propagation	3
		ETE 499	Project/Internship	6
Elective Courses	**Electronics Group (If Major is this group then - 2 Theory and 1 Lab from this group and 3 Theory and 1 Lab from other groups combined)**	ETE 402	VLSI Circuits Design	3
		ETE 400	VLSI Circuits Design Lab	1
		ETE 403	Robotics	3
		ETE 404	Embedded Systems	3
		ETE 412	Optoelectronics	3
		ETE 416	Optoelectronics Lab	1
		ETE 413	Bio – medical Electronics	3
		ETE 414	Bio – medical Electronics Lab	1
		ETE 422	Analog Integrated Circuit Design	3
	Communication Group (If Major is this group then - 2 Theory and 1 Lab from this group and 3 Theory and 1 Lab from other groups combined)	ETE 423	Microwave Engineering	3
		ETE 440	Broadcasting Technology	3
		ETE 456	Radio Frequency Engineering	3
		ETE 457	Radio Frequency Engineering Lab	1
		ETE 415	Digital and Satellite Communication	3
		ETE 425	Internet and Web Technology	3
		ETE 426	Internet and Web Technology Lab	1
		ETE 480	Radar and Navigation	3
		ETE 460	Optical Fiber Communication	3
		ETE 461	Optical Fiber Communication Lab	1
		ETE 451	Digital Image Processing	3
		ETE 452	Digital Image Processing Lab	1
	Computer Engineering Group (If Major is this group then - 2 Theory and 1 Lab from this	ETE 471	Multimedia Communication	3
		ETE 473	Microcontroller Based System Design	3
		ETE 474	Microcontroller Based System Design Lab	1
		ETE 475	Intelligent Systems	3
		ETE 477	Database Systems	3
		ETE 478	Database Systems Lab	1
		ETE 481	Machine Learning	3

	group and 3 Theory and 1 Lab from other groups combined)	ETE 482	Machine Learning Lab	1