



Department of Electrical & Electronic Engineering Independent University, Bangladesh

Pre-Requisite Courses for UG EEE (New Curriculum)

Core Courses (63 Credits)		
Course ID	Course Title	Pre-Requisite
EEE 131	Electrical Circuits-I	
EEE 211	Electrical Circuits-II	EEE 131
EEE 211L	Electrical Circuit Lab	EEE 131 & EEE 211
EEE 221	EEE 221 Electronics-I	EEE 131
EEE 231	Signals and Systems	MAT 213
EEE 232	Digital Logic Design	EEE 221
EEE 233	Energy Conversion-I	EEE 211
EEE 234	Electronics-II	EEE 221
ETE 311	Communication Engineering	EEE 231
EEE 313	Electromagnetic Fields and Waves	MAT 213
EEE 314L	Numerical Technique Lab	MAT 213
EEE 315L	Electrical and Electronic Project Lab	EEE 234
EEE 316L	Engineering Drawing & Electrical Services Design Lab	EEE 211
EEE 321	Digital Signal Processing	EEE 231
ETE 322	Communication Engineering-II	ETE311
EEE 323	Microprocessor and Interfacing	EEE 232
ETE 331	Computer Networks	ETE 311
EEE 334	Embedded Systems	EEE 323
EEE 422	Ethics, Engineering Economics and Management	Minimum 100 credits
EEE 423L	Sensor and Instrumentation Lab	EEE 234
Concentration (Compulsory) (19 Credits)		
EEE 312	Energy Conversion - II	EEE 233
EEE 332	Power Electronics and Drives	EEE 234
EEE 333	Power System -I	EEE 233
EEE 411	Control Systems	EEE 234
EEE 419	Power System -II	EEE333
EEE 497	Internship	Minimum 100 credits
EEE 498	Senior Project	Minimum 100 credits
Concentration (Optional) (9 Credits)		
Group A	EEE 432 Power Plant Engineering	Minimum 100 credits
	EEE 433 Power System Planning and Optimization	
	EEE 434 High Voltage Engineering	
	EEE 435 Renewable Energy Technology	
	EEE 436 Switchgear and Protection	
	EEE 437 Smart Power Grid	
	EEE 440 Special Topics in Power and Renewable Energy	

Group B	ETE 442 Optical Fiber Communications	Minimum 100 credits
	ETE 443 RF and Microwave Engineering	
	ETE 444 Cellular Mobile Communications	
	ETE 445 Antenna and Wave Propagation	
	ETE 446 Satellite Communications	
	ETE 447 Telecommunication Networks and Switching Systems	
	ETE 448 Cryptography and Network Security	
	ETE 449 Network Operating System and Administration	
	ETE 451 Telecommunication Policy and Management	
	ETE 452 Internet and Web Technology	
	ETE 460 Special Topics in Telecommunications	
Group-C	EEE 463 Analog and Digital Integrated Circuits	Minimum 100 credits
	EEE 464 Nanotechnology	
	EEE 465 Biomedical Signal Processing	
	EEE 466 VLSI Design	
	EEE 467 Optoelectronics	
	EEE 468 Measurement and Instrumentation	
	EEE 469 Robotics and Mechatronics	
	EEE 470 Biomedical Instrumentation	
	EEE 471 Electrical Properties of Materials	
	EEE 473 IC Fabrication Process Integration	
	EEE 475 Special Topics in Electronics	

Pre-Requisite Courses for UG ETE (New Curriculum)

Core Courses (63 Credits)		
Course ID	Course Title	Pre-Requisite
EEE 131	Electrical Circuit-I	
EEE 211	Electrical Circuit-II	EEE 131
ETE 221	Electronics-I	EEE 131
EEE 225	Energy Conversion Engineering	EEE 211
ETE 231	Signals and Systems	MAT 221
ETE 232	Digital Logic Design	ETE 221
ETE 234	Electronics-II	ETE 221
ETE 312	Communication Engineering Fundamentals	ETE 231
ETE 313	Electromagnetic Fields and Waves	MAT 213
ETE 314L	Numerical Technique Lab	MAT 213
ETE315L	Electronic and Telecommunication Project Lab	ETE 234
ETE 316	Microprocessor and Interfacing	ETE 232
ETE 321	Computer Networks	ETE 312
ETE 324	Digital Signal Processing	ETE 231
ETE334	Embedded Systems	ETE 316
ETE 413	Sensor and Instrumentation	ETE 234
EEE 422	Ethics, Engineering Economics and Management	Minimum 100 credits

Concentration (Compulsory) (21 Credits)		
ETE 323	Digital Communications	ETE 312
ETE332	RF and Microwave Engineering	ETE 312
ETE333	Telecommunication Networks and Switching Systems	ETE321
ETE335	Wireless Communications	ETE312
ETE411	Optical Fiber Communications	ETE312
ETE423	Network Operating System & Administration	ETE 321
ETE 497	Internship	Minimum 100 credits
ETE 498	Senior Project	
Concentration (Optional) (9 Credits)		
Group A	ETE 445 Antenna and Wave Propagation	Minimum 100 credits
	ETE 446 Satellite Communications	
	ETE 448 Cryptography and Network Security	
	ETE 451 Telecommunication Policy and Management	
	ETE 452 Internet and Web Technology	
	ETE 460 Special Topics in Telecommunications	
Group B	ETE461 Power Electronics and Drives	Minimum 100 credits
	ETE 462 Control Systems	
	ETE 463 Analog and Digital Integrated Circuits	
	ETE 464 Nanotechnology	
	ETE 465 Biomedical Signal Processing	
Group C	ETE 466 VLSI Design	Minimum 100 credits
	ETE 467 Optoelectronics	
	ETE 469 Robotics and Mechatronics	
	ETE 470 Biomedical Instrumentation	
	ETE 471 Electrical Properties of Materials	
	ETE 473 IC Fabrication Process Integration	