

Short Descriptions of Course s for the BSc of EE Program

Course Code	Course Title	Course Code	Course Title
Common Courses (ECE & EPE)			
EE 201	Fundamentals of Electric Circuits	ECON 401	Engineering Economy
EE 202	Electric Circuit Analysis	GE 104	Basics of Engineering Drawing
EE 203	Electromagnetism	GE 105	Basics of engineering technology
EE 205	Electric Circuits Laboratory	MATH 107	Linear Algebra & Analytic Geometry
EE 208	Logic Design	MATH 203	Differential and Integral Calculus
EE 210	Logic Design Laboratory	MATH 208	Differential Equations
EE 300	Instruments & Electrical Measurements	MATH 244	Linear Algebra
EE 301	Signals and systems Analysis	MATH 254	Numerical Methods
EE 312	Electronics - I	MATH 328	Applied Operations Research
EE 313	Electronics Laboratory - I	EE 491	Senior Design Project I
EE 351	Principles of Control Systems	EE 492	Senior Design Project II
CSC 209	Computer Programming	STAT 328	Probabilities & Statistics
EE 354	Microprocessors and Interface Circuits	MGMT 402	Project Management
GE 210	Engineering Mechanics	GE 211	Introduction to Engineering Design I
GE 213	Introduction to Engineering Design II	PHYS 131	General Physics
MATH 106	Integral Calculus	CHEM 111	General Chemistry
EE 400	Senior Design Project	GE 407	Cooperative Training
GE 406	Summer Training	GE 401	Engineering Economic
Electronics and Communication Engineering		Electrical Power Engineering	
EE 317	Electronics -II	EE 330	Electric Machines - 1
EE 464	Error Control Coding	EE 331	Electric Machines - 2
EE 319	Electronics Laboratory - II	EE 332	Electric Machines Laboratory
EE 320	Communications Principles	EE 340	Fundamentals of Power Systems
EE 322	Digital Communications	EE 343	Power Systems Analysis
EE 326	Communication Laboratory	EE 344	Power Systems Laboratory
EE 405	IC Technology and Applications	EE 401	Electrical Standard Specifications
EE 406	Integrated Circuit Laboratory	EE 432	Power Electronics
EE 411	Programmable Logic Controllers	EE 433	Special Electrical Machines
CEN354	Principles of Networks Engineering	EE 434	Selection and Installation of Motors
EE 417	Communication Electronics	EE 435	Electric Drive Systems
EE 418	Design of Analog and Digital Filters	EE 436	Advanced Topics in Power Electronics
EE 419	Selected Topics in Electronics	EE 437	Power Electronics Laboratory
EE 420	Information Theory and Coding	EE 438	Selected Topics in Electrical Machines
EE 421	Telephone Systems and Traffic Analysis	EE 441	Electric Energy Utilization
EE 423	Wave Propagation and Antennas	EE 443	Control and Operation of Power Systems
EE 424	Optical Communication Networks	EE 444	Planning and design of Power Systems
EE 425	Computer Network Security	EE 445	Industrial Power Systems Design
EE 427	Design of Microwave System	EE 446	High Voltage Engineering
EE 428	Satellite Communications	EE 447	Computer Applications in Power Systems
EE 429	Selected Topics in Communications	EE 448	Selected Topics in Power Systems
EE 463	Mobile Communication	EE 455	Applied Control

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Course Code	Course Title	Course Code	Course Title
EE 412	Industrial Electronics	ME 322	Mechanical power engineering
EE 465	Networks Architecture and Protocols	EE 456	Digital Control Systems
EE 450	Industrial Instrumentation	EE 482	Design of Electrical Protection Systems
		EE 483	Principle of Photovoltaic Energy Systems