

## COMPULSORY COURSES

2013 STUDY PLAN		2007 STUDY PLAN	
		EE 100	Introduction to Electrical Engineering
		EE 202	Communication Skills for Engineers
EE 204	Introduction to Linear Systems	EE 240	Introduction to Linear Systems
EE 207	Electromagnetics I	EE 207	Electromagnetics I
EE 210	Electric Circuits I	EE 210	Electric Circuits I
EE 213	Electric Circuits Lab	EE 213	Electric Circuits Lab
EE 220	Introduction to Electronics	EE 220	Introduction to Electronics
EE 260	Signals and Systems Analysis	EE 260	Signals and Systems Analysis
EE 305	Numerical Methods for Engineers	EE 305	Numerical Methods for Engineers
EE 307	Electromagnetics II	EE 307	Electromagnetics II
EE 310	Electric Circuits II	EE 310	Electric Circuits II
EE 320	Electronic Circuits	EE 320	Electronic Circuits
EE 324	Electronic Circuits Lab	EE 322	Electronic Circuits Lab
EE 332	Electric Machines	EE 332	Electric Machines
EE 341	Measurement Systems and Sensors	EE 341	Instrumentation and Measurements
EE 360	Random Signal Analysis	EE 360	Random Signal Analysis
EE 420	Digital Electronic Circuits	EE 420	Digital Electronic Circuits
EE 422	Digital Electronic Circuits Lab	EE 422	Digital Electronic Circuits Lab
EE 432	Electric Machines Lab	EE 482	Electromechanical Systems Lab
EE 440	Control Systems	EE 440	Control Systems
EE 442	Instrumentation and Control Systems Lab	EE 442	Control Systems Lab
EE 450	Communication Systems	EE 450	Communication Systems
EE 470	Microcontrollers and Embedded Systems	EE 445	Microcontrollers and Embedded Systems
EE 472	Microcontrollers and Embedded Systems Lab		
EE 480	Power Systems	EE 480	Power Systems
EE 490	Engineering Training	EE 490	Engineering Training
EE 591	Graduation Project I	EE 591	Graduation Project I
EE 592	Graduation Project II	EE 592	Graduation Project II

CPE 234	Digital Logic Design and Computer Architecture	EE 345	Introduction to Microcontrollers
CPE 235	Digital Logic Design Lab	EE 346	Microcontrollers Lab

**COMMUNICATIONS SPECIALIZATION  
COMPULSORY COURSES**

<b>2013 STUDY PLAN</b>		<b>2007 STUDY PLAN</b>	
EE 407	Antennas and Radio Wave Propagation	EE 407	Radio Wave Propagation and Antennas
EE 452	Communication Systems Lab	EE 452	Communication Systems Lab
EE 460	Digital Signal Processing	EE 460	Digital Signal Processing
		EE 462	Digital Signal Processing Lab
EE 506	Microwaves and Fiber Optics Lab		
EE 524	RF Communication Circuits	EE 524	Electronic Communication Circuits
EE 551	Digital Communications	EE 551	Digital Communications
EE 552	Digital Communications Lab	EE 552	Digital Communications Lab
EE 559	Wireless and Mobile Communications	EE 559	Introduction to Wireless Communications
EE 575	Communication Networks	EE 570	Communication Networks
<b>ELECTIVE COURSES</b>			
EE 507	Antennas	EE 507	Antennas
EE 508	Introduction to Electromagnetic Compatibility	EE 508	Introduction to Electromagnetic Compatibility
EE 509	Microwave Engineering	EE 509	Microwave Engineering
EE 521	Solid State Electronics	EE 521	Solid State Electronics
EE 522	Optoelectronics	EE 522	Optoelectronics
EE 525	Electronic Circuit Design	EE 525	Electronic Circuit Design
EE 526	Semiconductor Devices	EE 526	Semiconductor Devices
EE 528	Microwave Electronics	EE 528	Microwave Electronics
EE 529	Integrated Circuits Design	EE 529	CMOS Circuit Design
EE 555	Optical Fiber Communication Systems	EE 555	Optical Fiber Communication Systems
EE 558	Satellite Communication Systems	EE 558	Satellite Communication Systems
EE 565	Digital Speech Processing	EE 565	Digital Speech Processing
EE 566	Digital Image Processing	EE 566	Digital Image Processing
EE 579	Cryptography and Network Security		
EE 595	Special Topics in Communications		

**POWER SEPCIALIZATION  
COMPULSORY COURSES**

<b>2013 STUDY PLAN</b>		<b>2007 STUDY PLAN</b>	
EE 435	Power Electronics	EE 435	Power Electronics
EE 447	Digital Control	EE 447	Digital Control
EE 485	Power Systems Analysis	EE 580	Power Systems Analysis
EE 531	Electric Drive Systems	EE 531	Electric Drive Systems
EE 536	Power Electronics Lab	EE 436	Power Electronics Lab
EE 581	Power Systems Integration Lab		
EE 582	Power Systems Lab	EE 582	Power Systems Lab
EE 585	Power Systems Operation	EE 483	Power Transmission and Distribution
EE 586	Power Systems Protection	EE 586	Power Systems Protection
<b>ELECTIVE COURSES</b>			
EE 525	Electronic Circuit Design	EE 525	Electronic Circuit Design
EE 526	Semiconductor Devices	EE 526	Semiconductor Devices
EE 532	Renewable Energy Systems		
EE 535	Power Semiconductor Devices		
EE 537	Switched Mode Power Supplies	EE 537	Switched Mode Power Supplies
EE 538	High Voltage Engineering	EE 538	High Voltage Engineering
EE 539	Advanced Electrical Machines	EE 539	Advanced Electrical Machines
EE 540	Robotics	EE 540	Introduction to Robotics
EE 541	Sensors and Actuators	EE 541	Sensors and Actuators
EE 542	Fuzzy Control		
EE 546	Power Systems Control	EE 546	Power Systems Control
EE 547	Computer Control	EE 547	Computer Control
EE 549	Mixed Signal Test Engineering		
EE 583	Power Electronic Applications in Power Systems		
EE 587	Power Systems Quality		
EE 596	Special Topics in Power		
EE 597	Special Topics in Control		

**NON-EE STUDENTS COURSES**

<b>2013 STUDY PLAN</b>		<b>2007 STUDY PLAN</b>	
EE 212	Electric Circuit Analysis (Non-EE students)	EE 212	Electric Circuit Analysis
EE 303	Fundamentals of Electrical Engineering (Non-EE students)	EE 303	Fundamentals of Electrical Engineering
EE 304	Electric Drives (Non-EE students)	EE 304	Electric Drives
EE 306	Electrical Engineering Lab (Non-EE students)	EE 306	Electrical Engineering Lab
EE 321	Electronic Circuits for Non-EE Students	EE 321	Fundamentals of Electronics
EE 322	Electronic Circuits Lab for Non-EE Students	EE 322	Electronic Circuits Lab