

**DEPARTMENT OF ELECTRICAL ENGINEERING  
INDIAN INSTITUTE OF SCIENCE**

**COURSES OFFERED BY EE FACULTY DURING AUG-DECEMBER 2017**

It should be noted that SCC has defined MWF 1 hour slots starting at 8.00 AM/2.00 PM and TTH 1.5 hours slots starting at 8.30 AM/2.00PM for conducting course instruction classes.

Course No.	Credits	Course Title	Instructor/s	Time Slot	LAB
E1 241	3:0	DYNAMICS OF LINEAR SYSTEMS	Pavan Kumar	MWF 12-1.00	
E3 201	3:0	INTRODUCTION TO SOLID STATE ELECTRONIC DEVICES	Sudarshan Tangali (Visiting Professor)	*	
E4 221	2:1	DSP AND AI TECHNIQUES IN POWER SYSTEM PROTECTION	U.J. Shenoy	*	
E4 231	3:0	POWER SYSTEM DYNAMICS & CONTROL	Gurunath G/ Prof. Vijay Vittal	T-TH 11.30-1.00	
E4 234	3:0	ADVANCED POWER SYSTEMS ANALYSIS	Sarasij Das	WF 11.30-1.00	
E5 201	2:1	PRODUCTION, MEASUREMENT AND APPLICATION OF HIGH VOLTAGE	BS Rajanikanth/ B Subba Reddy	MW 10-11	T-Th 2-5
E5 215	2:1	PULSED POWER ENGINEERING	Joy Thomas M	MW 11-12	M W 2-5
E5 253	2:1	DIELECTRICS AND ELECTRICAL INSULATION ENGG.	Joy Thomas M	MW 11-12	M W 2-5
E6 201	3:1	POWER ELECTRONICS	G. Narayanan	MW 8.30-10	M W F 2-5
E6 224	3:0	TOPICS IN POWER ELECTRONICS AND DISTRIBUTED GENERATION	Vinod John	TTH 8.30-10	
E6 225	3:0	ADVANCED POWER ELECTRONICS	Kaushik Basu	TTH 3.30-5.00	
E8 201	3:0	ELECTROMAGNETISM	Udayakumar	T-TH 10-11.30	

Course No.	Credits	Course Title	Instructor/s	Time Slot	LAB
E0 247	3:1	SENSOR NETWORKS	G.N. Rathna	*	
E0 332	3:1	MATRIX ANALYSIS AND COMPUTATIONS	Kunal N Chaudhury	T-TH 10-11.30	
E1 222	3:0	STOCHASTIC MODELS AND APPLICATIONS	P. S Sastry	T-TH 11.00-12.30	
E1 241	3:0	DYNAMICS OF LINEAR SYSTEMS	Pavan Kumar	MWF 12-1.00	
E1 251	3:0	LINEAR AND NONLINEAR OPTIMISATION	Muthuvel Arigovindan	W,F 2 – 3.30	
E2 212	3:0	MATRIX THEORY	A.G. Ramakrishnan	MWF 9-10	
E9 201	3:0	DIGITAL SIGNAL PROCESSING	Soma Biswas/Prasanta Kumar Ghosh	T-TH 3:30-5:00	
E9 205	3:1	MACHINE LEARNING FOR SIGNAL PROCESSING	Sriram Ganapathy	MW – 3.30-5	
E9 241	2:1	DIGITAL IMAGE PROCESSING	Chandra Sekhar S	M,W – 10-11.00	
E9 243	3:0	COMPUTER AIDED TOMOGRAPHIC IMAGING	K. Rajgopal	T-TH 11.30-1.00	
E9 245	3:1	SELECTED TOPICS IN COMPUTER VISION	Venu Madhav Govindu	M,W – 2-4.00	
E9 291	2:1	DSP SYSTEM DESIGN	G.N. Rathna	*	

- To be fixed

All classes should be held in the EE building.

Batch of students to be formed to accommodate suitably in Power Electronics and High voltage laboratory as per convenience.

(CHAIRMAN)

DEPARTMENT OF ELECTRICAL ENGINEERING,  
INDIAN INSTITUTE OF SCIENCE

I TERM – AUG-DEC 2017

COURSES FOR 1 YEAR M.Tech. (ELECTRICAL ENGINEERING - EE)

POOL `A`

Course No.	Credits	Course Title	Instructors	Time Slot	LAB
E1 241	3:0	Dynamics of Linear Systems	Pavan Kumar	MWF 12-1.00	
E1 251	3:0	Linear & Nonlinear Optimization	Muthuvel Arigovindan	W F 2-3.30	
E4 234	3:0	ADVANCED POWER SYSTEMS ANALYSIS	Sarasij Das	WF 11.30-1.00	
E6 201	3:1	POWER ELECTRONICS	G. Narayanan	MW 8.30-10	M W F 2-5

Soft Core

Course No.	Credits	Title of the Course	Instructor/s	TIME SLOT	LAB
E4 231	3:0	POWER SYSTEM DYNAMICS & CONTROL	Gurunath G	T-TH 11.30-1.00	

I TERM – AUG-DEC 2017

COURSES For I Year M.Tech. (SIGNAL PROCESSING - SP)

Hard Core

Course No.	Credits	Title of the Course	Instructor/s	TIME SLOT	LAB
E1 251	3:0	Linear and Nonlinear Optimization	Muthuvel Arigovindan, EE	WF 2-3.30	
E2 202	3:0	Random Processes	Utpal Mukherji, Parimal Parag (ECE)	T-TH 2-3.30	
E2 212	3:0	Matrix Theory	A G Ramakrishnan (EE)	MWF 9-10	
9 CREDITS COMPLUSORY					

Soft Core

Course No.	Credits	Title of the Course	Instructor/s	TIME SLOT	LAB
E2 211	3:0	Digital Communication	B Sundar Rajan, ECE	T-TH 11.30-1.00	
E9 211	3:0	ADAPTIVE SIGNAL PROCESSING	K V S Hari, (ECE)	T-TH 10.00-11.30	
E9 221	3:0	Signal Quantization and Compression	????	*	
E9 241	2:1	Digital Image Processing	Chandra Sekhar S, EE	MW 10-11	
E9 291	2:1	DSP System Design	G.N.Rathna (EE)	*	

(CHAIRMAN)

**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**Indian Institute of Science**  
**Bangalore**

**I TERM – AUG-DEC 2017**

**COURSES For I Year M.Tech. (SYSTEMS ENGINEERING)**

**Hard Core**

Course No.	Credits	Title of the Course	Instructor/s	Time slot	LAB
E0 251	3:1	Data Structures and Algorithms(AUG)	Sathish Govindarajan, CSA	T-TH 9.30-11.00	
E1 222	3:0	Stochastic Models and Applications(AUG)	P.S. Sastry, EE	T-TH 11.00-12.30	
E1 241	3:0	Dynamics of Linear Systems(AUG)	Pavan Kumar, EE	MWF 12-1.00 or T TH 2-3.30	
E1 251	3:0	Linear and Nonlinear Optimization(AUG)	Muthuvel Arigovindan, EE	WF 2-3.30	

**Soft Core**

Course No.	Credits	Title of the Course	Instructor/s	Time Slot	LAB
E0 219	3:1	Linear Algebra and Applications(AUG)	M N Murty, CSA	T-TH 3.30-5.00	
E9 201	3:0	Digital Signal Processing(AUG)	Soma Biswas , EE	T-TH 3.30-5.00	
E9 241	2:1	Digital Image Processing (AUG)	Chandra Sekhar S, EE	MW 10-11	

(CHAIRMAN)