

## Electronics and Communication Engineering

### Semester 1

1	Basic Electrical Technology	Web	Prof. G. D. Roy, Prof. N. K. De, Prof. T. K. Bhattacharya	IIT Kharagpur
2	BioChemistry I	Video	Prof. S. Dasgupta	IIT Kharagpur
3	Engineering Chemistry I	Web	Prof. B. L. Tembe, Prof. K. Mangala Sunder	IIT Bombay
4	Engineering Mechanics	Web	Prof. Manoj K. Harbola	IIT Kanpur
5	Engineering Physics I (Experiment)	Web	Prof. Alike Khare , Prof. Pratima Agarwal, Prof. S. Ravi	IIT Guwahati
6	Engineering Physics I (Theory)	Web	Prof. Alike Khare , Prof. Pratima Agarwal, Prof. S. Ravi	IIT Guwahati
7	Mathematics I	Web	Prof. Inder K. Rana	IIT Bombay
8	Physics I - Oscillations & Waves	Video	Prof. S. Bharadwaj	IIT Kharagpur

### Semester 2

9	Basic Electronics	Web	Prof. Y. N. Singh, Prof. Joesph John	IIT Kanpur
10	Basic Electronics and Lab	Web	Prof. T. S. Natarajan	IIT Madras
11	Basic Thermodynamics	Web	Prof. K. Srinivasan, Prof. Pradip Dutta	IISc Bangalore
12	Engineering Chemistry III	Web	Prof. S. Sankararaman, Prof. K.M. Muraleedharan, Prof. Santosh J. Gharpure, Prof. N.Narasimha Murthy	IIT Madras
13	Engineering Physics II	Web	Prof. D. K. Ghosh	IIT Bombay
14	Environment and Ecology	Web	Prof. Anuradha Sharma, Prof. V. B. Upadhyay	IIT Delhi
15	Environmental Chemistry and Analysis	Web	Prof. M. S. Subramanian	IIT Madras
16	Mathematics II	Web	Prof. P. Chandra, Prof. A. K. Lal, Prof. V. Raghavendra, Prof. G. Santhanam	IIT Kanpur

### Semester 3

17	Materials Science	Web	Prof. Satish V. Kailas	IISc Bangalore
18	Mathematics III	Web	Prof. M. Guru Prem Prasad , Prof. Durga C. Dalal	IIT Guwahati
19	Numerical Analysis and Computer Programming	Video	Prof. P. B. Sunil Kumar	IIT Madras
20	Numerical Analysis in Computer Programming	Web	Prof. Rathish Kumar, Prof. V. Raghavendra, Prof. M. K. Kadalbajoo, Prof. P. B. Sunil Kumar	IIT Kanpur
21	Strength of Materials	Web	Prof. Ashok Gupta	IIT Delhi

### Semester 4

22	Circuit Theory	Video	Prof. S. C. Dutta Roy	IIT Delhi
23	Data Communication	Video	Prof. Ajit Pal	IIT Kharagpur
24	Data Communications	Web	Prof. H. S. Jamadagni	IISc Bangalore
25	Digital Circuits	Web	Prof. Anil Mahanta, Prof. Roy Paily Palanthinkal	IIT Guwahati
26	Digital Circuits and Systems	Video	Prof. S. Srinivasan	IIT Madras
27	Electrical Machines I	Web	Prof. Krishna Vasudevan, Prof. G. Sridhara Rao, Prof. P. Sasidhara Rao	IIT Madras
28	Electromagnetic Fields	Video	Prof. Harishankar Ramachandarn	IIT Madras

29	IC Technology	Web	Prof. Roy Paily Palathinkal, Prof. Indrajit Chakraborty	IIT Guwahati
30	Solid State Devices	Video	Prof. S. Karmalkar	IIT Madras
<b>Semester 5</b>				
31	Analog Circuits	Web	Prof. Pramod Agarwal	IIT Roorkee
32	Communication Networks and Switching	Web	Prof. S.L. Maskara	IIT Kharagpur
33	Computer Organisation and Architecture	Web	Prof. Bhaskaran Raman	IIT Kanpur
34	Computer Organization	Video	Prof.S.Raman	IIT Madras
35	Computer Organization and Architecture	Web	Prof. Jatindra Kumar Deka	IIT Guwahati
36	Concept of Management and Evolution of Management thought	Video	Prof K B Akhilesh	IISc Bangalore
37	Control Engineering	Web	Prof. M Gopal	IIT Delhi
38	Digital Communication	Web	Prof. R. V. Rajakumar, Prof. Saswat Chakrabarti	IIT Kharagpur
39	Digital Systems Design	Video	Prof. D. Roychoudhury	IIT Kharagpur
40	Management Science I	Web	Prof. M. Thenmozhi	IIT Madras
41	Management Science II	Web	Prof. R. Madhumathi	IIT Madras
42	MEMS and Microsystems	Video	Prof. Santiram Kal	IIT Kharagpur
43	Microcontrollers and Applications	Web	Prof. S. P. Das	IIT Kanpur
44	Microprocessors and Microcontrollers	Web	Prof. Krishna Kumar	IISc Bangalore
45	Principles of Communication	Web	Prof. V. Venkat Rao	IIT Madras
<b>Semester 6</b>				
46	Industrial Drives	Web	Prof. K. Rajagopal	IIT Delhi
47	Industrial Drives - Power Electronics	Video	Prof. K. Gopakumar	IISc Bangalore
48	Industrial Instrumentation	Web	Prof. V. Jayashankar	IIT Madras
49	Power Electronics	Web	Prof. D. Kastha, Prof. D. Prasad, Prof. N. K. De, Prof. S. Sengupta	IIT Kharagpur
50	Power System Generation, Transmission and Distribution (Encapsulated from earlier Video)	Video	Prof.D.P.Kothari	IIT Delhi
51	Power Systems Operation and Control	Web	Prof. A. M. Kulkarni	IIT Bombay
52	Signals and Systems	Web	Prof. V.M.Gadre	IIT Bombay
<b>Semester 7</b>				
53	Digital Signal Processing	Web	Prof. Govind Sharma	IIT Kanpur
54	Optical Communication	Web	Prof. R.K. Shevgaonkar, Prof. D.K.Ghosh	IIT Bombay
55	VLSI Circuits	Video	Prof. S. Srinivasan	IIT Madras
56	VLSI Design	Web	Prof. A. N. Chandorkar	IIT Bombay
<b>Semester 8/Electives</b>				
57	Adaptive Signal Processing	Video	Prof. M. Chakaborty	IIT Kharagpur
58	Broadband Networks: Concepts and Technology	Video	Prof. Abhay Karandikar	IIT Bombay

59	Digital Image Processing	Web	Prof. Sumana Gupta	IIT Kanpur
60	Digital Voice & Picture Communication	Video	Prof. S. Sengupta	IIT Kharagpur
61	Electronics for Analog Signal Processing - I	Video	Prof.K.Radhakrishna Rao	IIT Madras
62	Electronics for Analog Signal Processing - II	Video	Prof.K.Radhakrishna Rao	IIT Madras
63	High Speed Devices and Circuits	Video	Prof. K.N. Bhat	IIT Madras
64	High Speed Semiconductor Devices	Web	Prof. Anjan Ghosh	IIT Kanpur
65	Information Theory and Coding	Web	Prof. Pavan S Nuggehalli	IISc Bangalore
66	Multimedia processing	Web	Prof. Somnath Sengupta	IIT Kharagpur
67	Networks and Systems	Video	Prof.V.G.K.Murti	IIT Madras
68	Networks Signals and Systems	Video	Prof. T.K.Basu	IIT Kharagpur
69	Probability and Random Processes	Web	Prof. Prabin K. Bora	IIT Guwahati
70	Semiconductor Devices	Web	Prof. G. S. Vishveshwaran	IIT Delhi
71	Transmission Lines and EM Waves	Web	Prof. R.K. Shevgaonkar	IIT Bombay
72	Wireless Communication	Video	Prof. Ranjan Bose	IIT Delhi