

## **ELECTRONICS & COMMUNICATION ENGINEERING**

### **List of courses**

<b>SEMESTER 1</b>		
Basic Electrical Technology	Prof. G. D. Roy Prof. N. K. De Prof. T. K. Bhattacharya	Web
Basic Electrical Technology	Prof. L. Umanand	Video
Engineering Chemistry I	Prof. B. L. Tembe Prof. K. Mangala Sunder	Web
Engineering Chemistry I	Prof. K. Mangala Sunder	Video
Engineering Mechanics	Prof. Manoj K. Harbola	Web
Engineering Mechanics	Prof. U. S. Dixit	Web
Engineering Mechanics	Prof. Manoj K. Harbola	Video
Engineering Mechanics	Prof. U. S. Dixit	Video
Engineering Physics I	Prof. K. L. Yadav Prof. Jagdish Rai Prof. Ishwar Singh Prof. G. D. Verma	Video
Engineering Physics I (Experiment)	Prof. Alike Khare Prof. Pratima Agarwal Prof. S. Ravi	Web
Engineering Physics I (Theory)	Prof. Alike Khare Prof. Pratima Agarwal Prof. S. Ravi	Web
Mathematics I	Prof. Inder K. Rana	Web
Mathematics I	Prof. Swagato K. Ray Prof. Shobha Madan Prof. P. Shunmugaraj	Video
Physics I - Oscillations & Waves	Prof. S. Bharadwaj	Video

<b>SEMESTER 2</b>		
Basic Electronics	Prof. Y. N. Singh Prof. Joesph John	Web
Basic Electronics	Prof. Pramod Agarwal	Web
Basic Electronics	Prof. Chitralekha Mahanta	Video
Basic Electronics and Lab	Prof. T. S. Natarajan	Web
Basic Electronics and Lab	Prof. T. S. Natarajan	Video
Basic Thermodynamics	Prof. K. Srinivasan Prof. Pradip Dutta	Web

Engineering Chemistry II	Prof. H. M. Chawla Prof. R. N. Ram	Web
Engineering Chemistry III	Prof. S. Sankararaman Prof. K.M. Muraleedharan Prof. Santosh J. Gharpure Prof. N.Narasimha Murthy	Web
Engineering Physics II	Prof. D. K. Ghosh	Web
Engineering Physics II	Prof. V. Ravishankar Prof. S. Raychaudhuri	Video
Environment and Ecology	Prof. Anuradha Sharma Prof. V. B. Upadhyay	Web
Environmental Chemistry and Analysis	Prof. M. S. Subramanian	Web
Mathematics II	Prof. P. Chandra Prof. A. K. Lal Prof. V. Raghavendra Prof. G. Santhanam	Web
Mathematics II	Prof. Sunita Gakhar Prof. H. G. Sharma Prof. Tanuja Srivastava	Video

**SEMESTER 3**

Electrical and Electronic Measurements	Prof. V. Jagadeesh Kumar	Video
Material Science	Prof. S. K. Gupta	Video
Materials Science	Prof. Satish V. Kailas	Web
Mathematics III	Prof. M. Guru Prem Prasad Prof. Durga C. Dalal	Web
Mathematics III	Prof. P. N. Agrawal Prof. Tanuja Srivastava	Video
Numerical Analysis and Computer Programming	Prof. P. B. Sunil Kumar	Video
Numerical Analysis in Computer Programming	Prof. Rathish Kumar Prof. V. Raghavendra Prof. M. K. Kadalbajoo Prof. P. B. Sunil Kumar	Web
Strength of Materials	Prof. Ashok Gupta	Web
Strength of Materials	Prof. S. K. Bhattacharyya	Video
Strength of Materials	Prof. V. K. Goel Prof. S. C. Sharma Prof. B. K. Mishra	Web
Strength of Materials	Prof. V. K. Goel Prof. S. C. Sharma Prof. B. K. Mishra	Video

**SEMESTER 4**

Circuit Theory	Prof. S. C. Dutta Roy	Video
Data Communication	Prof. Ajit Pal	Video
Data Communications	Prof. H. S. Jamadagni	Web
Digital Circuits	Prof. Anil Mahanta Prof. Roy Paily Palanthinkal	Web
Digital Circuits and Systems	Prof. S. Srinivasan	Video

Electrical Machines I	Prof. Krishna Vasudevan Prof. G. Sridhara Rao Prof. P. Sasidhara Rao	Web
Electromagnetic Fields	Prof. Harishankar Ramachandarn	Video
Electromagnetic Fields	Prof. Ratnajit Bhattacharjee	Web
IC Technology	Prof. Roy Paily Palathinkal Prof. Indrajit Chakraborty	Web
Solid State Devices	Prof. S. Karmalkar	Video

**SEMESTER 5**

Communication Networks and Switching	Prof. S.L. Maskara	Web
Computer Organisation and Architecture	Prof. Bhaskaran Raman	Web
Computer Organization and Architecture	Prof. Jatindra Kumar Deka	Web
Control Engineering	Prof. M Gopal	Web
Control Engineering	Prof. S. D. Agashe	Video
Digital Communication	Prof. R. V. Rajakumar Prof. Saswat Chakrabarti	Web
Digital Communications	Prof. Manjunath	Video
Management Science I	Prof. M. Thenmozhi	Web
Management Science II	Prof. R. Madhumathi	Web
Microcontrollers and Applications	Prof. S. P. Das	Web
Microprocessors and Microcontrollers	Prof. Krishna Kumar	Web
Principles of Communication	Prof. V. Venkat Rao	Web
Principles of Communication	Prof. Surendra Prasad	Video

**SEMESTER 6**

Industrial Drives	Prof. K. Rajagopal	Web
Industrial Drives	Prof. K. Gopakumar	Video
Industrial Instrumentation	Prof. V. Jayashankar	Web
Industrial Instrumentation	Prof. Alok Barua	Video
Power Electronics	Prof. D. Kastha Prof. D. Prasad Prof. N. K. De Prof. S. Sengupta	Web
Power Electronics	Prof. B. G. Fernandes Prof. Kishore Chatterjee	Video
Power System Generation, Transmission and Distribution (Encapsulated from earlier Video)	Prof.D.P.Kothari	Video
Power Systems Operation and Control	Prof. A. M. Kulkarni	Web
Power Systems Operation and Control	Prof. S. N. Singh	Video

**SEMESTER 7**

Basics of VLSI	Prof. H.S. Jamadagni	Video
Digital Signal Processing	Prof. Govind Sharma	Web

Digital Signal Processing	Prof. S.C. Dutta Roy	Video
Optical Communication	Prof. R.K. Shevgaonkar Prof. D.K.Ghosh	Web
Optical Communication System	Prof. Yatindra N. Singh Prof P. K. Chatterjee	Video
VLSI Circuits	Prof. S. Srinivasan	Video
VLSI Design	Prof. A. N. Chandorkar	Web
VLSI Design	Prof. H.S. Jamadagni	Web

<b>SEMESTER 8 / Electives</b>		
Adaptive Signal Processing	Prof. M. Chakaborty	Video
Broadband Networks: Concepts and Technology	Prof. Abhay Karandikar	Video
Digital Image Processing	Prof. Sumana Gupta	Web
Digital Image Processing	Prof. P.K. Biswas	Video
Digital Voice & Picture Communication	Prof. S. Sengupta	Video
High Speed Devices and Circuits	Prof. K.N. Bhat	Video
High Speed Semiconductor Devices	Prof. Anjan Ghosh	Web
Information Theory and Coding	Prof. Pavan S Nuggehalli	Web
Information Theory and Coding	Prof. S. N. Merchant	Video
Multimedia processing	Prof. Somnath Sengupta	Web
Probability and Random Processes	Prof. Prabin K. Bora	Web
Probability and Random Processes	Prof. Mrityunjoy Chakraborty	Video
Semiconductor Devices	Prof. G. S. Vishveshwaran	Web
Signals and Systems	Prof. K.S. Venkatesh	Video
Transmission Lines and EM Waves	Prof. R.K. Shevgaonkar	Web
Transmission Lines and EM Waves	Prof. R. K. Shevgaonkar	Video
Wireless Communication	Prof. Ranjan Bose	Video

