

Electronics & Tele Communication

Sem. – III

Subject – Signal Analysis

NOC:Signals and Systems Prof. Kushal K. Shah IISER Bhopal –
<https://nptel.ac.in/courses/108106163>

NOC:Principles of Signals and Systems Prof. Aditya K. Jagannatham IIT Kanpur –
<https://nptel.ac.in/courses/108104100>

Subject – Electronics Devices & Linear Circuits

NOC : Fundamentals of electronic materials and devices Prof. Parasuraman S IIT Madras –
<https://nptel.ac.in/courses/113106065>

Introduction To Electronic Circuits , IIT Delhi Prof. S.C. Dutta Roy
<https://nptel.ac.in/courses/108102097>

Analog Circuits Prof. A.N. Chandorkar IIT Bombay –
<https://nptel.ac.in/courses/117101106>

NOC: Integrated Circuits and Applications, IIT Guwahati Prof. Shaik Rafi Ahamed
<https://nptel.ac.in/courses/108103378>

Subject – Digital System Design

NOC: Digital System Design, IIT Ropar Prof. Neeraj Goel
<https://nptel.ac.in/courses/108106177>

Digital Systems Design Prof. D. Roychoudhury IIT Kharagpur –
<https://nptel.ac.in/courses/117105080>

Subject – Network Theory & Control System

NOC:Network Analysis Prof. T.K. Bhattacharya IIT Kharagpur –
<https://nptel.ac.in/courses/108105159>

NOC:Control systems Prof. C.S.Shankar Ram IIT Madras –
<https://nptel.ac.in/courses/107106081>

Subject – IPR & Entrepreneurship

NOC: Intellectual Property Rights and Competition Law, IIT Kharagpur Prof. K. D. Raju, Prof. Niharika Sahoo Bhattacharya
<https://nptel.ac.in/courses/110105139>

NOC:Intellectual Property Prof. Feroze Ali IIT Madras -
<https://nptel.ac.in/courses/109106137>

NOC:Introduction on Intellectual Property to Engineers and Technologists Prof. Tapas Kumar Bandyopadhyay IIT Kharagpur -
<https://nptel.ac.in/courses/109105112>

NOC:Entrepreneurship Prof. C Bhaktavatsala Rao IIT Madras -
<https://nptel.ac.in/courses/110106141>

NOC:Innovation, Business Models and Entrepreneurship Prof. Vinay Sharma Prof. Rajat Agrawal IIT Roorkee -
<https://nptel.ac.in/courses/110107094>

Economics / Management / Entrepreneurship Prof. P.K.J. Mohapatra IIT Kharagpur -
<https://nptel.ac.in/courses/110105067>

Subject – Non Conventional Energy Sources

NOC: Non-conventional energy Resources, IIT Madras Prof. Prathap Haridoss
<https://nptel.ac.in/courses/121106014>

Electronics & Tele Communication

Sem. – IV

Subject – Neural Network And Fuzzy Logic

NOC:Fuzzy Logic and Neural Networks Prof. Dilip Kumar Pratihari IIT Kharagpur –
<https://nptel.ac.in/courses/127105006>

Neural Networks and Applications, IIT Kharagpur Prof. Somnath Sengupta
<https://nptel.ac.in/courses/117105084>

Subject – Microcontroller

NOC:Microprocessors And Microcontrollers Prof. Santanu Chattopadhyay IIT Kharagpur –
<https://nptel.ac.in/courses/108105102>

Subject – Analog And Digital Communication

NOC: Analog Communication, IIT Kharagpur Prof. Goutam Das
<https://nptel.ac.in/courses/117105143>

DIGITAL COMMUNICATION , IIT Delhi Prof. Surendra Prasad
<https://nptel.ac.in/courses/108102096>

NOC: Analog and digital communications I (Hinglish), IIT Guwahati Prof. Ribhu
<https://nptel.ac.in/courses/108103864>

NOC:Principles of Digital Communications Prof. Abhishek Dixit IIT Delhi –
<https://nptel.ac.in/courses/108102120>

Digital Communication Prof. Bikash Kumar Dey IIT Bombay –
<https://nptel.ac.in/courses/117101051>

Subject - Cyber Security

NOC: Cyber Security and Privacy, IIT Madras Prof. Saji K Mathew -
<https://nptel.ac.in/courses/106106248>

NOC: Internet Crimes and Cyber Security, NALSAR University of Law Prof. K.V.K. Santhy Prof. B Md Irfan -
<https://nptel.ac.in/courses/129106894>

NOC:Foundations of Cyber Physical Systems Prof. Soumyajit Dey IIT Kharagpur -
<https://nptel.ac.in/courses/106105241>

Subject - Digital Marketing

NOC: Fundamentals of Digital Marketing, IIT Kharagpur Prof. Saini Das Prof. Atanu Ghosh
<https://nptel.ac.in/courses/110105920>

Subject – Power System

NOC:Power System Engineering Prof. Debapriya Das IIT Kharagpur –
<https://nptel.ac.in/courses/108105104>

NOC:Power system analysis Prof. Debapriya Das IIT Kharagpur –
<https://nptel.ac.in/courses/117105140>

Power System Analysis Prof. A.K. Sinha IIT Kharagpur –
<https://nptel.ac.in/courses/108105067>

Subject - Computer Organization And Architecture

NOC:Computer Architecture Prof. Smruti R.Sarangi IIT Delhi –
<https://nptel.ac.in/courses/106102157>

NOC:Computer Architecture(Course sponsored by Aricent) Prof.Madhu Mutyam IIT Madras –
<https://nptel.ac.in/courses/106106134>

Computer Architecture, IIT Delhi Prof. Anshul Kumar
<https://nptel.ac.in/courses/106102062>

Computer Architecture, IIT Kanpur Dr. Mainak Chaudhuri
<https://nptel.ac.in/courses/106104122>

NOC: Computer Architecture and Organization, IIT Kharagpur Prof. Indranil Sengupta, Prof. Kamalika Datta
<https://nptel.ac.in/courses/106105163>

Computer Organization, IIT Madras Prof. S. Raman
<https://nptel.ac.in/courses/106106092>

NOC: Computer Organization and Architecture, IIT Madras Prof. Kamakoti
<https://nptel.ac.in/courses/106106166>

Electronics & Tele Communication

Sem. – V

Subject – Digital Communication

DIGITAL COMMUNICATION , IIT Delhi Prof. Surendra Prasad

<https://nptel.ac.in/courses/108102096>

NOC:Principles of Digital Communications Prof. Abhishek Dixit IIT Delhi –

<https://nptel.ac.in/courses/108102120>

Digital Communication Prof. Bikash Kumar Dey IIT Bombay –

<https://nptel.ac.in/courses/117101051>

Subject – Discrete Time Signal Processing

NOC:Discrete Time Signal Processing Prof. Mrityunjy Chakraborty IIT Kharagpur –

<https://nptel.ac.in/courses/117105134>

Subject – Digital VLSI

NOC:CMOS Digital VLSI Design Prof. Sudeb Dasgupta IIT Roorkee –

<https://nptel.ac.in/courses/108107129>

NOC:Digital VLSI Testing Prof. Santanu Chattopadhyay IIT Kharagpur –

<https://nptel.ac.in/courses/117105137>

Subject – Random Signal Analysis

NOC: Probability and Random Processes IIT Guwahati Prof Rohit Sinha Prof. Ribhu

<https://nptel.ac.in/courses/108103185>

NOC: Probability and Random Variables/ Processes for Wireless Communications, IIT Kanpur
Prof. Aditya K. Jagannatham

<https://nptel.ac.in/courses/117104117>

Probability and Random Processes Prof. Mrityunjy Chakraborty IIT Kharagpur –

<https://nptel.ac.in/courses/117105085>

Subject – Data Compression And Cryptography

NOC:Foundations of Cryptography Prof. Ashish Choudhury IIT Bangalore –

<https://nptel.ac.in/courses/106106221>

NOC:Cryptography And Network Security Prof. Sourav Mukhopadhyay IIT Kharagpur –

<https://nptel.ac.in/courses/106105162>

Cryptography and Network Security Dr. Debdeep Mukhopadhyay IIT Kharagpur –

<https://nptel.ac.in/courses/106105031>

Subject – IT Infra & Security

NOC:Introduction to Information Security I Prof. V. Kamakoti IIT Madras –

<https://nptel.ac.in/courses/106106141>

NOC: Information Security- II, IIT Madras Prof. Kamakoti
<https://nptel.ac.in/courses/106106141>

NOC: Information Security-3, IIT Madras Prof. Kamakoti Veezhinathan
<https://nptel.ac.in/courses/106106157>

NOC: Information Security - IV, IIT Madras Prof. V. Kamakoti, Prof. M J Shankar Raman, Prof. Vasan
<https://nptel.ac.in/courses/106106178>

Subject – Data Structure & Algorithm

Data Structures And Algorithms Prof. Naveen Garg IIT Delhi –
<https://nptel.ac.in/courses/106102064>

NOC: Data Structures and Algorithms Design, IIT Kanpur Prof. Nitin Saxena
<https://nptel.ac.in/courses/106104697>

NOC: Programming, Data Structures and Algorithms using C, IIT Madras Prof. Hema A Murthy, Prof. Shankar Balachandran, Prof. N. S. Narayanaswamy, Prof. Sudarshan Iyengar
<https://nptel.ac.in/courses/106106127>

NOC: Programming, Data Structures and Algorithms using Python Prof. Madhavan Mukund IIT Madras –
<https://nptel.ac.in/courses/106106145>

Subject – Sensor Technology

MEMS and Microsystems Prof. Santiram Kal IIT Kharagpur –
<https://nptel.ac.in/courses/117105082>

Electronics & Tele Communication

Sem. – VI

Subject – Electromagnetics And Antenna

Engineering Electromagnetics Prof. Sheel Aditya IIT Delhi –
<https://nptel.ac.in/courses/108102119>

Applied Electromagnetics For Engineers Dr. Pradeep Kumar K IIT Kanpur –
<https://nptel.ac.in/courses/108104099>

NOC:Antennas Prof. Girish Kumar IIT Bombay –
<https://nptel.ac.in/courses/108101092>

Subject – Computer Communication Network

Data Communication Prof. Ajit Pal IIT Kharagpur –
<https://nptel.ac.in/courses/106105082>

NOC:Computer Networks and Internet Protocol Prof. Sandip Chakraborty, Prof. Soumya Kanti Ghosh IIT Kharagpur –
<https://nptel.ac.in/courses/106105183>

Computer Networks Prof. Sujoy Ghosh IIT Kharagpur –
<https://nptel.ac.in/courses/106105081>

Subject – Image Processing & Machine Vision

Digital Image Processing Prof. P.K. Biswas IIT Kharagpur –
<https://nptel.ac.in/courses/117105079>

NOC:Computer Vision and Image Processing - Fundamentals and Applications Prof. M. K. Bhuyan IIT Guwahati –
<https://nptel.ac.in/courses/108103174>

Subject – Artificial Neural Network & Fuzzy Logic

NOC:Fuzzy Logic and Neural Networks Prof. Dilip Kumar Pratihari IIT Kharagpur –
<https://nptel.ac.in/courses/127105006>

Neural Networks and Applications, IIT Kharagpur Prof. Somnath Sengupta
<https://nptel.ac.in/courses/117105084>

Subject – Mixed Signal VLSI

VLSI Circuits, IIT Madras Prof. S. Srinivasan
<https://nptel.ac.in/courses/117106092>

NOC: VLSI Technology, IIT Madras Prof. Prof. Nandita Dasgupta
<https://nptel.ac.in/courses/117106093>

CMOS Analog VLSI Design Prof. A.N. Chandorkar IIT Bombay –
<https://nptel.ac.in/courses/117101105>

OC: CMOS Digital VLSI Design, IIT Roorkee Prof. Sudeb Dasgupta
<https://nptel.ac.in/courses/108107129>

Subject – Computer Organization & Architecture

NOC: Computer architecture and organization Prof. Indranil Sengupta, Prof. Kamalika Datta IIT Kharagpur –
<https://nptel.ac.in/courses/106105163>

NOC: Computer Organization and Architecture Prof. V. Kamakoti IIT Madras –
<https://nptel.ac.in/courses/106106166>

NOC: Computer Organization and Architecture: A Pedagogical Aspect, IIT Guwahati Prof. Santhosh biswas Prof. Jatindra kumar deka Prof. Arnab sarkar
<https://nptel.ac.in/courses/106103180>

Subject – Database Management System

NOC: Introduction to Database Systems Prof. P. Sreenivasa Kumar IIT Madras –
<https://nptel.ac.in/courses/106106220>

NOC: Fundamentals of Database Systems, IIT Kanpur Prof. Arnab Bhattacharya
<https://nptel.ac.in/courses/106104135>

Subject – IoT & Industry 4.0

NOC: Introduction to internet of things Prof. Sudip Misra IIT Kharagpur –
<https://nptel.ac.in/courses/106105166>

NOC: Introduction to Industry 4.0 and Industrial Internet of Things Prof. Sudip Misra IIT Kharagpur –
<https://nptel.ac.in/courses/106105195>

Subject – Radar Engineering

NOC: Principles and Techniques of Modern Radar Systems Dr. Amitabha Bhattacharya IIT Kharagpur –
<https://nptel.ac.in/courses/108105154>

Electronics & Tele Communication

Sem. – VII

Subject – Microwave Engineering

NOC: Microwave Engineering Dr. Ratnajit Bhattacharjee IIT Guwahati –
<https://nptel.ac.in/courses/108103141>

NOC: Microwave Theory and Techniques Prof. Girish Kumar IIT Bombay –
<https://nptel.ac.in/courses/108101112>

Subject – Mobile Communication System

Advanced 3G and 4G Wireless Mobile Communications Prof. Aditya K. Jagannatham IIT Kanpur –
<https://nptel.ac.in/courses/117104099>

Subject – Deep Learning

NOC: Deep Learning Prof. P.K. Biswas IIT Kharagpur –
<https://nptel.ac.in/courses/106105215>

NOC: Deep Learning - IIT Ropar, IIT Ropar Prof. Sudarshan Iyengar -
<https://nptel.ac.in/courses/106106184>

NOC: Deep Learning - Part 2 Prof. Mitesh Khapra IIT Madras –
<https://nptel.ac.in/courses/106106201>

NOC: Foundations of Deep Learning: Concepts and Applications, IISc Bangalore RV University Prof. Sriram Ganapathy Prof. Ashwini Kodipalli Prof. Baishali Garai
<https://nptel.ac.in/courses/106108840>

Subject – Cloud Computing & Security

NOC: Cloud computing Prof. Soumya Kanti Ghosh IIT Kharagpur –
<https://nptel.ac.in/courses/106105167>

NOC: Google Cloud Computing Foundation Course Prof. Soumya Kanti Ghosh IIT Kharagpur –
[https://nptel.ac.in/courses/106105223 /](https://nptel.ac.in/courses/106105223/)

Subject – Big Data Analytics

NOC: Big Data Computing Dr. Rajiv Misra IIT Patna –
<https://nptel.ac.in/courses/106104189>

NOC: Statistical Foundation for Big Data Analysis, IIT Kharagpur Prof. Arindam Banerjee
<https://nptel.ac.in/courses/106105848>

NOC: Algorithms for Big Data, IIT Madras Prof. John Augustine
<https://nptel.ac.in/courses/106106142>

Subject – Software Define Ratio

NOC:Basics of software-defined radios and practical applications Dr. Meenakshi Rawat IIT Roorkee –

<https://nptel.ac.in/courses/108107107>

Subject – Robotics

NOC:Introduction to Robotics Prof. Ashish Dutta IIT Kanpur –

<https://nptel.ac.in/courses/112104298>

NOC:Introduction to robotics Dr. Balaraman Ravindran, Dr. Krishna Vasudevan, Dr. T Asokan IIT Madras –

<https://nptel.ac.in/courses/107106090>

NOC:Robotics Prof. Dilip Kumar Pratihar IIT Kharagpur –

<https://nptel.ac.in/courses/112105249>

Robotics Prof. B. Seth, Prof. K. Kurien Issac, Prof. P.S. Gandhi, Prof. C. Amarnath, Prof. P. Seshu IIT Bombay –

<https://nptel.ac.in/courses/112101099>

Subject – Quantum Computing

NOC: Quantum Computing, IIT Kanpur Prof. Debabrata Goswami

<https://nptel.ac.in/courses/104104082>

NOC:Introduction to Quantum Computing: Quantum Algorithms and Qiskit Prof. Anupama Ray, Prof. Sheshashayee Raghunathan, Prof. Prabha Mandayam IBM and IITM –

<https://nptel.ac.in/courses/106106232>

NOC: Quantum Computing: Algorithms and Limitations Through the Query Model, IIT Kanpur Prof. Rajat Mittal

<https://nptel.ac.in/courses/106104845>

Subject - Reliability Engineering

NOC:Introduction to Reliability Engineering Prof. Neeraj Kumar Goyal IIT Kharagpur -

<https://nptel.ac.in/courses/127105234>

NOC:Statistical learning for Reliability Analysis Prof. Monalisa Sarma IIT Kharagpur -

<https://nptel.ac.in/courses/106105239>

Subject - Management Information System

NOC:Management Information System Prof. Kunal Kanti Ghosh, Prof. Saini Das, Prof. Surojit Mukherjee IIT Kharagpur -

<https://nptel.ac.in/courses/110105148>

Management Information System Prof. Biswajit Mahanty IIT Kharagpur -

<https://nptel.ac.in/courses/122105022>

Subject - Design Of Experiments

NOC:Design and Analysis of Experiments Prof. Jhareswar Maiti IIT Kharagpur -

<https://nptel.ac.in/courses/110105087>

Subject - Operation Research

NOC:Introduction to Operations Research Prof. G. Srinivasan IIT Madras -
<https://nptel.ac.in/courses/110106062>

Advanced Operations Research Prof. G. Srinivasan IIT Madras -
<https://nptel.ac.in/courses/110106062>

Fundamentals of Operations Research Prof. G. Srinivasan IIT Madras -
<https://nptel.ac.in/courses/112106134>

Subject - Cyber Security & Laws

NOC: Cyber Security and Privacy, IIT Madras Prof. Saji K Mathew -
<https://nptel.ac.in/courses/106106248>

NOC: Internet Crimes and Cyber Security, NALSAR University of Law Prof. K.V.K. Santhy Prof. B Md Irfan -
<https://nptel.ac.in/courses/129106894>

NOC:Foundations of Cyber Physical Systems Prof. Soumyajit Dey IIT Kharagpur -
<https://nptel.ac.in/courses/106105241>

Electronics & Tele Communication

Sem. – VIII

Subject – Optical Communication & Networks

NOC:Optical communications Dr. Pradeep Kumar K IIT Kanpur –
<https://nptel.ac.in/courses/117104127>

Advanced Optical Communication Prof. R.K. Shevgaonkar IIT Bombay –
<https://nptel.ac.in/courses/117101002>

Subject – Natural Language Processing

Natural Language Processing, IIT Bombay Prof. Pushpak Bhattacharyya
<https://nptel.ac.in/courses/106101007>

NOC: Natural Language Processing, IIT Kharagpur Prof. Pawan Goyal
<https://nptel.ac.in/courses/106105158>

Subject – Wireless Networks

NOC:Introduction to Wireless and Cellular Communications Prof. David KoilPillai IIT Madras –
<https://nptel.ac.in/courses/106106167>

Wireless Communication Prof. Ranjan Bose IIT Delhi –
<https://nptel.ac.in/courses/117102062>

Subject – RF Design

RF Integrated Circuits Dr. Shouribrata Chatterjee IIT Delhi –
<https://nptel.ac.in/courses/117102012>

NOC:RF and Microwave Networks Prof. Bratin Ghosh IIT Kharagpur –
<https://nptel.ac.in/courses/108105189>

Subject – Satellite & Nano Satellite Communication

NOC:Satellite Communication Systems Prof. Kalyankumar Bandyopadhyay IIT Kharagpur –
<https://nptel.ac.in/courses/117105131>

Subject – Microstrip Antenna

NOC:Antennas Prof. Girish Kumar IIT Bombay –
<https://nptel.ac.in/courses/108101092>

Subject – Augmented Reality & Virtual reality

NOC:Virtual Reality Engineering Dr. M. Manivannan IIT Madras –
<https://nptel.ac.in/courses/121106013>

Virtual Reality Prof Steven LaValle IIT Madras –
<https://nptel.ac.in/courses/106106138>

NOC: Foundation for Virtual and Augmented Reality Systems, IIT Guwahati Prof Samit Bhattacharya -

<https://nptel.ac.in/courses/106103842>

Subject - Project Management

Project and Production Management Prof. Arun Kanda IIT Delhi -

<https://nptel.ac.in/courses/112102106>

Subject - Entrepreneurship Development & Management

NOC:Entrepreneurship Prof. C Bhaktavatsala Rao IIT Madras -

<https://nptel.ac.in/courses/110106141>

NOC:Innovation, Business Models and Entrepreneurship Prof. Vinay Sharma Prof. Rajat Agrawal IIT Roorkee -

<https://nptel.ac.in/courses/110107094>

Economics / Management / Entrepreneurship Prof. P.K.J. Mohapatra IIT Kharagpur -

<https://nptel.ac.in/courses/110105067>

Subject - Human Resource Management

NOC:Advances in Strategic Human Resource Management Prof. Ashish Pandey IIT Bombay -

<https://nptel.ac.in/courses/110101164>

NOC:Principles of Human Resource Management Prof. A Malik IIT Kharagpur -

<https://nptel.ac.in/courses/110105069>

Human Resource Management-I, IIT Kharagpur Prof. Kalyan Chakravarti

<https://nptel.ac.in/courses/122105020>

Subject - Research Methodology

NOC: Research Methodology, IIT Madras Prof. Edamana Prasad, Prof. Prathap Haridoss

<https://nptel.ac.in/courses/121106007>

Subject – IPR & Patenting

NOC: Intellectual Property Rights and Competition Law, IIT Kharagpur Prof. K. D. Raju, Prof. Niharika Sahoo Bhattacharya

<https://nptel.ac.in/courses/110105139>

NOC:Intellectual Property Prof. Feroze Ali IIT Madras -

<https://nptel.ac.in/courses/109106137>

NOC:Introduction on Intellectual Property to Engineers and Technologists Prof. Tapas Kumar Bandyopadhyay IIT Kharagpur -

<https://nptel.ac.in/courses/109105112>

Subject - Digital Business Management

NOC:The Future of Manufacturing Business: Role of Digital Technologies Prof. R. K. Amit Prof. U. Chandrasekhar IIT Madras -

<https://nptel.ac.in/courses/110106146>