

Information Technology

Sem. - III

Subject – Advance Data Structure & Analysis

NOC: Programming and Data Structures, IIT Madras Prof. Narayanaswamy
<https://nptel.ac.in/courses/106106130>

Programming and Data Structure, IIT Kharagpur Dr. P.P.Chakraborty
<https://nptel.ac.in/courses/106105085>

Subject - Database Management System & Application

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

NOC: Database Design, IISc Bangalore Prof. S. Srinath, Prof. D. Janaki Ram
<https://nptel.ac.in/courses/106106093>

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

Subject - Automata Theory

Theory of Automata, Formal Languages and Computation, IIT Madras Prof. Kamala Krithivasan
<https://nptel.ac.in/courses/106106049>

NOC: Introduction to Automata, Languages and Computation, IIT Kharagpur Prof. Sourav Mukhopadhyay
<https://nptel.ac.in/courses/106105196>

Formal Languages and Automata Theory, IIT Guwahati Dr. K.V. Krishna, Dr. Diganta Goswami
<https://nptel.ac.in/courses/111103016>

Information Technology

Sem. – IV

Subject - Operating System

NOC: Introduction to Operating Systems, IIT Madras Prof. Chester Rebeiro

<https://nptel.ac.in/courses/106106144>

NOC: Operating System Fundamentals, IIT Kharagpur Prof. Santanu Chattopadhyay

<https://nptel.ac.in/courses/106105214>

NOC: Real Time Operating System, IIT Kharagpur Prof. Rajib Mall

<https://nptel.ac.in/courses/106105172>

NOC: Operating System, IIT Delhi Prof. Sorav Bansal

<https://nptel.ac.in/courses/106102132>

Subject - Computer Network & Network Design

NOC: Advanced Computer Networks, IIT Indore, IIT Gandhi nagar Prof. Neminath Hubballi
Prof. Sameer Kulkarni

<https://nptel.ac.in/courses/106106243>

NOC: Advanced Computer Networks, IIT Indore, IIT Gandhi nagar Prof. Neminath Hubballi
Prof. Sameer Kulkarni

<https://nptel.ac.in/courses/106106243>

NOC: Computer Networks And Internet Protocol, IIT Kharagpur Prof. Soumya Kanti Ghosh
Prof. Sandip Chakraborty

<https://nptel.ac.in/courses/106105183>

Computer Networks, IIT Kharagpur Prof. Sujoy Ghosh

<https://nptel.ac.in/courses/106105081>

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>

Information Technology

Sem. - V

Subject - Internet Programming

Internet Technology, IIT Kharagpur Prof. Indranil Sengupta

<https://nptel.ac.in/courses/106105084>

Subject - Computer Network Security

NOC: Network Security, IIT Bombay Prof. Gaurav S. Kasbekar

<https://nptel.ac.in/courses/108101585>

NOC: Cryptography and Network Security, IIT Kharagpur Prof. Sourav Mukhopadhyay

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

Cryptography and Network Security, IIT Kharagpur Dr. Debdeep Mukhopadhyay

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

Subject - Entrepreneurship & E-Business

NOC: Entrepreneurship, IIT Madras Prof. C Bhaktavatsala Rao

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

NOC: Entrepreneurship Essentials, IIT Kharagpur Prof. Manoj Kumar Mondal

<https://nptel.ac.in/courses/127105007>

NOC: E-Business, IIT Kharagpur Prof. Mamata Jenamani

<https://nptel.ac.in/courses/110105083>

Subject - Software Engineering

NOC: Software Engineering, IIT Kharagpur Prof. Rajib Mall

<https://nptel.ac.in/courses/106105182>

Software Engineering, IIT Bombay Prof. Rushikesh K Joshi, Prof. Umesh Bellur, Prof. N.L. Sarda

<https://nptel.ac.in/courses/106101061>

Subject - Microcontroller Embedded Programming

NOC: Embedded Systems Design, IIT Kharagpur Prof. Anupam Basu

<https://nptel.ac.in/courses/106105159>

NOC: Introduction to Embedded System Design, Netaji Subhas University of Technology and IIT Jammu

Prof. Dhananjay V. Gadre Prof. Badri N Subudhi

<https://nptel.ac.in/courses/108102169>

NOC: Microprocessors And Microcontrollers, IIT Kharagpur Prof. Santanu Chattopadhyay

<https://nptel.ac.in/courses/108105102>

Subject - Advanced Data Management Technologies

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

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

NOC: Data Mining for Decision Making, IIT Mandi Prof. Varun Dutt
<https://nptel.ac.in/courses/106106853>

NOC: Data Mining, IIT Kharagpur Prof. Pabitra Mittr
<https://nptel.ac.in/courses/106105174>

Subject - Computer Graphics & Multimedia System

Computer Graphics, IIT Madras Prof. Sukhendu Das
<https://nptel.ac.in/courses/106106090>

NOC: Computer Graphics, IIT Guwahati Prof. Samit Bhattacharya
<https://nptel.ac.in/courses/106103224>

Introduction to Computer Graphics, IIT Delhi Prof. Prem K Kalra
<https://nptel.ac.in/courses/106102065>

Subject - Advanced Data Structure & Analysis

Programming and Data Structure, IIT Kharagpur Dr. P.P.Chakraborty
<https://nptel.ac.in/courses/106105085>

NOC: Programming and Data Structures, IIT Madras Prof. Narayanaswamy
<https://nptel.ac.in/courses/106106130>

NOC: Introduction to Algorithms and Analysis, IIT Kharagpur Prof. Sourav Mukhopadhyay
<https://nptel.ac.in/courses/106105164>

Information Technology

Sem. - VI

Subject - Data Mining & Business Intelligence

NOC: Data Mining, IIT Kharagpur Prof. Pabitra Mitra

<https://nptel.ac.in/courses/106105174>

NOC: Data Mining for Decision Making, IIT Mandi Prof. Varun Dutt

<https://nptel.ac.in/courses/106106853>

Subject - Wireless Technology

Wireless Communication, IIT Delhi Prof. Ranjan Bose

<https://nptel.ac.in/courses/117102062>

NOC: Wireless Ad Hoc and Sensor Networks, IIT Kharagpur Prof. Sudip Misra

<https://nptel.ac.in/courses/106105160>

Subject - AI & DS - I

NOC: Data Science for Engineers, IIT Madras Prof. Rangunathan Rengasamy, Prof. Shankar Narasimhan

<https://nptel.ac.in/courses/106106179>

NOC: Artificial Intelligence (AI) for Management, IIT Madras Prof. Saji K Mathew

<https://nptel.ac.in/courses/106106849>

NOC: Artificial Intelligence: Search Methods for Problem Solving, IIT Madras Prof. Deepak Khemani

<https://nptel.ac.in/courses/106106226>

NOC: Artificial Intelligence for Economics, IIT Kharagpur Prof. Adway Mitra, Prof. Dripto Bakshi, Prof. Palash Dey

<https://nptel.ac.in/courses/106105470>

NOC: Fundamentals of Artificial Intelligence, IIT Guwahati Prof. Shyamanta M. Hazarika

<https://nptel.ac.in/courses/112103280>

NOC: An Introduction to Artificial Intelligence, IIT Delhi Prof. Mausam

<https://nptel.ac.in/courses/106102220>

Subject - Image Processing

NOC: Computer Vision, IIT Kharagpur Prof. Jayanta Mukhopadhyay

<https://nptel.ac.in/courses/106105216>

NOC: Computer Vision And Image Processing - Fundamentals And Applications, IIT Guwahati Prof. M.K. Bhuyan

<https://nptel.ac.in/courses/108103174>

Digital Image Processing, IIT Kharagpur Prof. P.K. Biswas

<https://nptel.ac.in/courses/117105079>

Digital Image Processing, IIT Kharagpur Prof. P.K. Biswas

<https://nptel.ac.in/courses/117105079>

Subject - Ethical Hacking & Forensic

NOC: Ethical Hacking, IIT Kharagpur Prof. Indranil Sengupta

<https://nptel.ac.in/courses/106105217>

Information Technology

Sem. - VII

Subject - AI & DS-II

NOC: Data Science for Engineers, IIT Madras Prof. Rangunathan Rengasamy, Prof. Shankar Narasimhan

<https://nptel.ac.in/courses/106106179>

NOC: Artificial Intelligence : Search Methods for Problem Solving, IIT Madras Prof. Deepak Khemani

<https://nptel.ac.in/courses/106106126>

NOC: Artificial Intelligence: Knowledge Representation And Reasoning, IIT Madras Prof. Deepak Khemani

<https://nptel.ac.in/courses/106106140>

NOC: Artificial Intelligence: Search Methods for Problem Solving, IIT Madras Prof. Deepak Khemani

<https://nptel.ac.in/courses/106106226>

NOC: Mobile Virtual Reality and Artificial Intelligence, IIT Mandi Prof. Varun Dutt

<https://nptel.ac.in/courses/106106696>

Artificial Intelligence, IIT Kharagpur Prof. Anupam Basu, Prof. S. Sarkar

<https://nptel.ac.in/courses/106105077>

Artificial Intelligence(Prof.P.Dasgupta), IIT Kharagpur Prof. P. Dasgupta

<https://nptel.ac.in/courses/106105079>

NOC: Fundamentals of Artificial Intelligence, IIT Guwahati Prof. Shyamanta M. Hazarika

<https://nptel.ac.in/courses/112103280>

NOC: An Introduction to Artificial Intelligence, IIT Delhi Prof. Mausam

<https://nptel.ac.in/courses/106102220>

Subject - Internet Of Everything

NOC: Design for internet of things, IISc Bangalore Prof. T V Prabhakar

<https://nptel.ac.in/courses/108108179>

NOC: Design for internet of things, IISc Bangalore Prof. T V Prabhakar

<https://nptel.ac.in/courses/108108098>

NOC: Introduction To Internet Of Things, IIT Kharagpur Prof. Sudip Misra

<https://nptel.ac.in/courses/106105166>

Subject - High Performance Computing

High Performance Computer Architecture, IIT Kharagpur Prof. Ajit Pal

<https://nptel.ac.in/courses/106105033>

High Performance Computing, IISc Bangalore Prof. Mathew Jacob

<https://nptel.ac.in/courses/106108055>

Subject - Software Testing & QA

NOC: Software Testing, IIT Kharagpur Prof. Rajib Mall

<https://nptel.ac.in/courses/106105150>

NOC: Software Testing, IIIT Bangalore Prof. Meenakshi D'souza

<https://nptel.ac.in/courses/106101163>

Subject – ARVR

NOC: Foundations of Virtual Reality, IIT Madras and University of Oulu Prof. M.Manivannan, Prof. Anna LaValle, Prof. Steven LaValle

<https://nptel.ac.in/courses/106106699>

Virtual Reality, IIT Madras Prof Steven LaValle

<https://nptel.ac.in/courses/106106138>

NOC: Mobile Virtual Reality and Artificial Intelligence, IIT Mandi Prof. Varun Dutt

<https://nptel.ac.in/courses/106106696>

Subject - Quantum Computing

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

<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>

Information Technology

Sem. - VIII

Subject - Blockchain and DLT

NOC: Blockchain Architecture Design and Use Cases, IIT Madras Prof. Sandip Chakraborty & Prof. Praveen Jayachandran

<https://nptel.ac.in/courses/106105184>

NOC: Introduction to Blockchain Technology and Applications, IIT Kanpur Prof. Sandeep Shukla

<https://nptel.ac.in/courses/106104220>

NOC: Blockchain and its Applications, IIT Kharagpur Prof. Sandip Chakraborty Prof. Shamik Sural

<https://nptel.ac.in/courses/106105235>

Subject - Big Data Analytics

NOC: Algorithms for Big Data, IIT Madras Prof. John Augustine

<https://nptel.ac.in/courses/106106142>

NOC: Big Data Computing, IIT Patna Prof. Rajiv Misra

<https://nptel.ac.in/courses/106104189>

NOC: Statistical Foundation for Big Data Analysis, IIT Kharagpur Prof. Arindam Banerjee

<https://nptel.ac.in/courses/106105848>

Subject - Reinforcement Learning

NOC: Reinforcement Learning, IIT Madras Prof. Balaraman Ravindran

<https://nptel.ac.in/courses/106106143>

Subject - Knowledge Management

NOC: Knowledge Management, IIT Kharagpur Prof. K B L Srivastava

<https://nptel.ac.in/courses/110105076>

Subject - User Interface Design

NOC: Human Computer Interactions, IIIT Hyderabad Prof. K. Ponnuram

<https://nptel.ac.in/courses/106106177>

NOC: User-centric Computing For Human-Computer Interaction, IIT Guwahati Prof. Samit Bhattacharya

<https://nptel.ac.in/courses/106103220>

Subject - Cloud Computing

NOC: Cloud Computing, IIT Kharagpur Prof. Soumya Kanti Ghosh

<https://nptel.ac.in/courses/106105167>

NOC: Cloud Computing and Distributed Systems, IIT Patna Prof. Rajiv Misra

<https://nptel.ac.in/courses/106104182>

NOC: Google Cloud Computing Foundations, IIT Kharagpur Prof. Soumya Kanti Ghosh
<https://nptel.ac.in/courses/106105223>

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>