

Mechanical

Sem-III

Subject - Strength Of Material

Strength of Materials, IIT Roorkee Dr. S. P. Harsha

<https://nptel.ac.in/courses/112107147>

Advanced Strength of Materials, IIT Bombay Prof. S.K. Maiti

<https://nptel.ac.in/courses/112101095>

Thermodynamics

NOC: Statistical Thermodynamics for Engineers, IISc Bangalore Prof. Saptarshi Basu

<https://nptel.ac.in/courses/112108317>

NOC: Applied Thermodynamics, IIT Madras Prof. V. Raghavan

<https://nptel.ac.in/courses/112106419>

NOC: Applied Thermodynamics, IIT Guwahati Prof. Niranjan Sahoo, Prof. Pranab Kumar Mondal

<https://nptel.ac.in/courses/112103307>

Engineering Thermodynamics, IIT Madras Prof. Babu Viswanathan

<https://nptel.ac.in/courses/112106310>

NOC: Thermal Engineering: Basic and Applied, IIT Guwahati Prof. Pranab K. Mondal

<https://nptel.ac.in/courses/112103316>

NOC: Applied Thermodynamics for Engineers, IIT Guwahati Prof. Dipankar N. Basu

<https://nptel.ac.in/courses/112103275>

Basic Thermodynamics, IIT Kharagpur Prof. Suman Chakraborty

<https://nptel.ac.in/courses/112105123>

NOC: Laws of thermodynamics, IIT Kharagpur Prof. S.K Som Prof. Suman Chakraborty

<https://nptel.ac.in/courses/112105220>

NOC: Concepts of Thermodynamics, IIT Kharagpur Prof. Suman Chakraborty, Prof. Aditya Bandopadhyay

<https://nptel.ac.in/courses/112105266>

NOC: Thermodynamics, IIT Delhi Prof. S.R. Kale

<https://nptel.ac.in/courses/112102255>

Subject - Materials science

Materials Science, IIT Delhi Prof. S.K. Gupta

<https://nptel.ac.in/courses/122102008>

NOC: Introduction to materials science and engineering, IIT Delhi Prof. Rajesh Prasad

<https://nptel.ac.in/courses/113102080>

NOC: Phase Diagrams in Materials Science and Engineering, IIT Kanpur Prof. Krishanu Biswas

<https://nptel.ac.in/courses/113104068>

Mechanical

Sem-IV

Subject - Finite Element Analysis

NOC: Basics of Finite Element Analysis - I, IIT Kanpur Prof. Nachiketa Tiwari
<https://nptel.ac.in/courses/112104193>

Advanced Finite Elements Analysis, IIT Madras Dr. R. Krishnakumar
<https://nptel.ac.in/courses/112106130>

NOC: Finite Element Method, IIT Kharagpur Prof. Biswanath Banerjee, Prof. Amit Shaw
<https://nptel.ac.in/courses/112105308>

Finite Element Method, IIT Kanpur Prof. C.S. Upadhyay
<https://nptel.ac.in/courses/112104115>

Finite Element Analysis, IIT Madras Dr. B.N. Rao
<https://nptel.ac.in/courses/105106051>

Subject – Manufacturing Processes

NOC: Fundamentals of Manufacturing Processes, IIT Roorkee Prof. D. K. Dwivedi, Prof. Shamik Basak
<https://nptel.ac.in/courses/112107219>

Manufacturing Processes I, IIT Roorkee Dr. D. K. Dwivedi, Dr. Inderdeep Singh , Dr. D. B. Karunakar
<https://nptel.ac.in/courses/112107145>

NOC: Manufacturing Processes - Casting and Joining, IIT Kanpur Prof. Sounak Kumar Choudhury
<https://nptel.ac.in/courses/112104301>

Manufacturing Processes II, IIT Kharagpur Prof. A.B. Chattopadhyay, Prof. A.K. Chattopadhyay, Prof. S. Paul
<https://nptel.ac.in/courses/112105126>

NOC: Manufacturing Process Technology -Part I, IIT Kanpur Prof. Shantanu Bhattacharya
<https://nptel.ac.in/courses/112104195>

NOC: Manufacturing Process Technology - II, IIT Kanpur Prof. Shantanu Bhattacharya
<https://nptel.ac.in/courses/112104204>

Subject – Theory of Machines

Theory Of Mechanisms, IIT Madras Prof. Sujatha Srinivasan
<https://nptel.ac.in/courses/112106270>

NOC:Kinematics of Mechanisms and Machines Prof. A. Dasgupta IIT Kharagpur -
<https://nptel.ac.in/courses/112105268/>

Kinematics of Machines Prof. Ashok K Mallik IIT Kanpur -
<https://nptel.ac.in/courses/112104121>

Mechanical

Sem. - V

Subject - Mechanical Measurement & Control

Principles of Mechanical Measurements, IIT Madras Prof. R. Raman

<https://nptel.ac.in/courses/112106140>

Mechanical Measurements and Metrology, IIT Madras Prof. S.P. Venkateshan, Prof. Shunmugam M. S

<https://nptel.ac.in/courses/112106138>

NOC: Mechanical Measurement Systems, IIT Roorkee Prof. Ravi Kumar

<https://nptel.ac.in/courses/112107242>

NOC: Principles Of Mechanical Measurement, IIT Guwahati Prof. Dipankar N. Basu

<https://nptel.ac.in/courses/112103261>

Subject - Thermal Engineering

NOC: Thermal Engineering: Basic and Applied, IIT Guwahati Prof. Pranab K. Mondal

<https://nptel.ac.in/courses/112103316>

Subject - Dynamics Of Machinery

Dynamics of Machines, IIT Kanpur Prof. Amitabha Ghosh

<https://nptel.ac.in/courses/112104114>

Subject - Finite Element Analysis

NOC: Basics of Finite Element Analysis - I, IIT Kanpur Prof. Nachiketa Tiwari

<https://nptel.ac.in/courses/112104193>

Advanced Finite Elements Analysis, IIT Madras Dr. R. Krishnakumar

<https://nptel.ac.in/courses/112106130>

NOC: Finite Element Method, IIT Kharagpur Prof. Biswanath Banerjee, Prof. Amit Shaw

<https://nptel.ac.in/courses/112105308>

Finite Element Method, IIT Kanpur Prof. C.S. Upadhyay

<https://nptel.ac.in/courses/112104115>

Finite Element Analysis, IIT Madras Dr. B.N. Rao

<https://nptel.ac.in/courses/105106051>

Subject - Optimization Techniques

NOC: Design and Optimization of Energy systems, IIT Madras Prof. C. Balaji

<https://nptel.ac.in/courses/112106064>

NOC: Traditional And Non-Traditional Optimization Tools, IIT Kharagpur Prof. Dilip Kumar Pratihari

<https://nptel.ac.in/courses/112105235>

NOC: Optimization from fundamentals, IIT Bombay Prof. Ankur A. Kulkarni
<https://nptel.ac.in/courses/112101298>

Subject - Design Of Experiments

NOC: Experimental Stress Analysis-An Overview, IIT Madras Prof. K. Ramesh
<https://nptel.ac.in/courses/112106198>

Experimental Stress Analysis, IIT Madras Prof. K. Ramesh
<https://nptel.ac.in/courses/112106068>

NOC: Experimental Methods in Fluid Mechanics, IIT Guwahati Prof. Pranab K. Mondal
<https://nptel.ac.in/courses/112103290>

NOC: Experimental Modal Analysis, IIT Delhi Prof. Subodh V. Modak
<https://nptel.ac.in/courses/112102318>

Subject - Computational Methods

NOC: Computational Fluid Dynamics using Finite Volume Method, IIT Madras Prof. Kameswararao Anupindi
<https://nptel.ac.in/courses/112106294>

NOC: Foundation of Computational Fluid Dynamics, IIT Madras Prof. Vengadesan
<https://nptel.ac.in/courses/112106186>

NOC: Computational Fluid Dynamics, IIT Kharagpur Prof. Suman Chakraborty
<https://nptel.ac.in/courses/112105254>

NOC: Computational Continuum Mechanics, IIT Guwahati Prof. Sachin Singh Gautam
<https://nptel.ac.in/courses/112103296>

NOC: Computational Fluid Dynamics and Heat Transfer, IIT Kanpur Prof. Gautam Biswas
<https://nptel.ac.in/courses/112104302>

NOC: Computational Fluid Dynamics For Incompressible Flows, IIT Guwahati Prof. Amaresh Dalal
<https://nptel.ac.in/courses/112103289>

Mechanical

Sem. - VI

Subject - Machine Design

Design of Machine Elements I, IIT Kharagpur Prof. G. Chakraborty, Prof. S.K. Roychowdhury, Prof. B. Maiti

<https://nptel.ac.in/courses/112105124>

Subject - Turbo Machinery

NOC: Fluid Dynamics and Turbomachines, IIT Madras Prof. Dhiman Chatterjee, Prof. Shamit Bakshi

<https://nptel.ac.in/courses/112106200>

Introduction to Turbomachines, IIT Madras Prof. Babu Viswanathan

<https://nptel.ac.in/courses/112106303>

NOC: Introduction to Turbomachinery, IIT Kanpur Prof. Subrata Sarkar

<https://nptel.ac.in/courses/112104305>

Subject - Heating, Ventilation, Air Conditioning & Refrigeration

Refrigeration and Air Conditioning, IIT Kharagpur Prof. R.C. Arora, Prof. M. Ramgopal

<https://nptel.ac.in/courses/112105128>

NOC: Advanced Refrigeration Systems, IIT (BHU) Varanasi Prof. Jahar Sarkar

<https://nptel.ac.in/courses/112106914>

NOC: Refrigeration and Air-Conditioning, IIT Roorkee Prof. Ravi Kumar

<https://nptel.ac.in/courses/112107208>

Subject - Automation & Artificial Intelligence

NOC: Automation in Manufacturing, IIT Guwahati Prof. Shrikrishna N. Joshi

<https://nptel.ac.in/courses/112103293>

NOC: Manufacturing Automation, IIT Kanpur Prof. Sounak Kumar Choudhury

<https://nptel.ac.in/courses/112104288>

Subject - Tool Engineering

NOC: Elements of metal cutting, Machine tools, gear cutting and CNC machining, IIT Kharagpur Prof. Asimava Roy Choudhury

<https://nptel.ac.in/courses/112105306>

NOC: Tools in Scientific Computing, IIT Kharagpur Prof. Aditya Bandopadhyay

<https://nptel.ac.in/courses/112105299>

NOC: Traditional And Non-Traditional Optimization Tools, IIT Kharagpur Prof. Dilip Kumar Pratihari

<https://nptel.ac.in/courses/112105235>

NOC: Metal Cutting And Machine Tools, IIT Kharagpur Prof. Asimava Roy Choudhury
<https://nptel.ac.in/courses/112105233>

**NOC: Computer Numerical Control CNC of Machine Tools and Processes , IIT Kharagpur
Prof. Asimava Roy Choudhury**
<https://nptel.ac.in/courses/112105211>

Subject - Metal Forming Technology

NOC: Principles of Metal Forming Technology, IIT Roorkee Prof. P. K. Jha
<https://nptel.ac.in/courses/112107250>

Mechanical

Sem. - VII

Subject - Design Of Mechanical System

NOC: Dynamics and Control of Mechanical Systems, IISc Bangalore Prof. Ashitava Ghosal
<https://nptel.ac.in/courses/112108313>

NOC: Noise Control in Mechanical Systems, IIT Roorkee Prof. Sneha Singh
<https://nptel.ac.in/courses/112107619>

NOC: Biomicroelectromechanical systems , IIT Kanpur Prof. Shantanu Bhattacharya
<https://nptel.ac.in/courses/112104029>

Subject - Logistics & Supply chain Management

NOC: Logistics & Supply Chain Management, IIT Kharagpur Prof. Vikas Thakur
<https://nptel.ac.in/courses/109105494>

Subject - Machinery Diagnostics

NOC: Machinery Fault Diagnosis And Signal Processing, IIT Kharagpur Prof. Amiya Ranjan Mohanty
<https://nptel.ac.in/courses/112105232>

Machinery fault diagnosis and signal processing, IIT Kharagpur Prof. A.R. Mohanty
<https://nptel.ac.in/courses/112105048>

Subject - Vibration Controls

Vibration control, IIT Roorkee Dr. S. P. Harsha
<https://nptel.ac.in/courses/112107087>

Vibration of Structures, IIT Kharagpur Prof. A. Dasgupta
<https://nptel.ac.in/courses/112105055>

NOC: Principles of Vibration Control, IIT Kanpur Prof. Bishakh Bhattacharya
<https://nptel.ac.in/courses/112104211>

NOC: Introduction to Mechanical Vibration, IIT Roorkee Prof. Anil Kumar
<https://nptel.ac.in/courses/112107212>

NOC: Nonlinear Vibration, IIT Guwahati Prof. S. K. Dwivedy
<https://nptel.ac.in/courses/112103300>

Mechanical Vibrations, IIT Guwahati Prof. Rajiv Tiwari, Prof. S.K. Dwivedy
<https://nptel.ac.in/courses/112103112>

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 rof. 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>

Mechanical

Sem. - VIII

Subject - Operations Planning & Control

NOC: Operations Management, IIT Roorkee Prof. Inderdeep Singh
<https://nptel.ac.in/courses/112107238>

Subject - Composite Materials

NOC: Theory Of Composite Shells, IIT Guwahati Prof. Poonam Kumari
<https://nptel.ac.in/courses/112103298>

NOC: Advanced Composites, IIT Kanpur Prof. Nachiketa Tiwari
<https://nptel.ac.in/courses/112104249>

NOC: Introduction to Composites, IIT Kanpur Prof. Nachiketa Tiwari
<https://nptel.ac.in/courses/112104229>

NOC: Manufacturing of Composites, IIT Kanpur Prof. J. Ramkumar
<https://nptel.ac.in/courses/112104221>

Subject - Smart Materials

NOC: Smart Materials and Intelligent System Design, IIT Kanpur Prof. Bishakh Bhattacharya
<https://nptel.ac.in/courses/112104251>

Subject - Product Design And Development

NOC: Product Design and Development, IIT Roorkee Prof. Inderdeep Singh
<https://nptel.ac.in/courses/112107217>

Subject - Total Quality Management

NOC: Total Quality Management - I, IIT Kanpur Prof. Raghu Nandan Sengupta
<https://nptel.ac.in/courses/110104080>

NOC: Total Quality Management - II, IIT Kanpur Prof. Raghunandan Sengupta
<https://nptel.ac.in/courses/110104085>

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>