

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE			
JECRC Campus ,Shri Ram ki Nangal, Via- Vatika ,Tonk Road ,Jaipur			
Department of Mechanical Engineering			
NPTEL online video lecture link			
S. No.	Subject	Topic	Link
1	Basic Mechanical Engineering	Introduction of Basics of Mechanical Engineering	https://onlinecourses.nptel.ac.in/noc24_me104/preview
2	Engineering mechanics	Introduction and Force Systems Equilibrium of Rigid Bodies and Introduction to Trusses	https://onlinecourses.nptel.ac.in/noc23_me74/preview
3	Computer Aided Design & Manufacturing I	Overview of CAD/CAM	https://nptel.ac.in/courses/112102102
4	Managerial Economics and Financial Accounting	Introduction to Managerial Economics ,Theory of Demand	https://onlinecourses.nptel.ac.in/noc20_mg67/preview
5	Engineering Thermodynamics	Basic concepts, Work and heatFirst law of thermodynamics for systems	https://onlinecourses.nptel.ac.in/noc23_me141/preview
6	Material Science and Engineering	Lattice, Crystal structures, Miller indices for planes and directions.	https://onlinecourses.nptel.ac.in/noc24_mm12/preview
7	Mechanics of Solids	Introduction to Mechanics of Deformable Bodies	https://onlinecourses.nptel.ac.in/noc22_ce46/preview
8	Data Analytics	Data Analytics – An Overview	https://onlinecourses.swayam2.ac.in/ntr24_ed70/preview
9	Digital Electronics	Deals with Number Systems & Boolean Algebra	https://onlinecourses.swayam2.ac.in/ntr25_ed125/preview
10	Fluid Mechanics and Fluid Machines	Introduction And Basic Concepts Properties Of Fluid Pressure And Fluid Statics	https://onlinecourses.nptel.ac.in/noc22_ce85/preview
11	Manufacturing Processes	Manufacturing properties of materials , Casting processes	https://onlinecourses.nptel.ac.in/noc21_me30/preview
12	Theory of Machines	Introduction to mechanisms (, mobility Analysis Mobility Analysis, Displacement Analysis	https://onlinecourses.nptel.ac.in/noc24_me44/preview
13	Mechatronics Systems	Introduction to Mechatronics ,Sensors and transducers	https://onlinecourses.nptel.ac.in/noc21_me27/preview

14	Heat Transfer	Introduction to Conduction Energy Balance 1-D Steady state Conduction – Resistance	https://onlinecourses.nptel.ac.in/noc20_ch12/preview
15	Manufacturing Technology	Manufacturing Properties of materials Casting processes' Machining processes	https://onlinecourses.nptel.ac.in/noc21_me30/preview
16	Design of Machine Elements-I	Design of Machine Elements	http://acl.digimat.in/nptel/courses/video/112105124/L35.html
17	Steam Engineering	Vapour Power Cycles: Carnot cycle, Rankine cycle, reheat cycle	https://onlinecourses.nptel.ac.in/noc19_me63/preview
18	Automobile Engineering	Classification of Internal Combustion Engines, Engine Components, Operation of Four Stroke Engines	https://onlinecourses.nptel.ac.in/noc20_de06/preview
19	Non-Destructive Evaluation and Testing	Theory and Practice of Non Destructive Testing	https://onlinecourses.nptel.ac.in/noc25_mm29/preview
20	Measurement and Metrology	Introduction to Engineering Metrology	https://onlinecourses.nptel.ac.in/noc22_me75/preview
21	Computer Integrated Manufacturing Systems	Introduction to Computer Integrated Manufacturing (CIM) Computer Aided Design	https://onlinecourses.nptel.ac.in/noc22_me10/preview
22	Mechanical Vibrations	Fundamental of Vibrations.	https://onlinecourses.nptel.ac.in/noc22_me76/preview
23	Design of Machine Elements-II	Geometrical Transformations 3-D shapes/ solid modelling	https://onlinecourses.nptel.ac.in/noc24_me152/preview
24	Quality Management	Total Quality Management and Quality Management Philosophies	https://onlinecourses.nptel.ac.in/noc20_mg34/preview
25	Refrigeration and Air Conditioning	Aircraft Refrigeration Cycles, vapour Compression Cycle,P-h Charts, Actual Vapour Compression Cycle	https://onlinecourses.nptel.ac.in/noc19_me58/preview
26	Non-Conventional Machining Methods	Abrasive Jet and Abrasive Water Jet Machining	https://onlinecourses.nptel.ac.in/noc21_me05/preview
27	Micro Electro and Mechanical Systems	Introduction to MEMS & Microsystems	https://nptel.ac.in/courses/117105082
28	I. C. Engines	IC Engines and Gas Turbines	https://onlinecourses.nptel.ac.in/noc20_me42/preview
29	Operations Research	Simplex Method for Solving LPP and Big-M Method	https://onlinecourses.swayam2.ac.in/cec20_ma10/preview

30	Turbomachines	Introduction to Turbomachinery	https://onlinecourses.nptel.ac.in/noc21_me127/preview
31	Hybrid and Electric Vehicles	Introduction to Electric and Hybrid Electric Vehicle	https://onlinecourses.swayam2.ac.in/nou25_ec13/preview
32	Operations Management	Operations and Supply Chain Management	https://onlinecourses.nptel.ac.in/noc25_mg105/preview
33	Computer Aided Design and Manufacturing	Computer Aided Design and Manufacturing I	http://nptel.ac.in/course/112102102/
34	Computer Aided Design and Manufacturing II	Computer Aided Design and Manufacturing II	http://nptel.ac.in/course/112102103/
35	Engineering Mechanics Thermodynamics	Mechanics	http://nptel.ac.in/course/112105164/
36	Engineering Thermodynamics	Advanced Engineering Thermodynamics	http://nptel.ac.in/course/112103016/
37	Manufacturing Processes	Advanced Manufacturing Processes	http://nptel.ac.in/course/112107077/
38	Engineering Thermodynamics	Applied Thermodynamics	http://nptel.ac.in/course/112107077/
39	Product development	Automation & Controls	http://nptel.ac.in/course/112102011/
40	Engineering Thermodynamics	Thermodynamics concepts	http://nptel.ac.in/course/112104113/
41	Engineering Thermodynamics	Basic Thermodynamics laws	http://nptel.ac.in/course/112108148/
42	Fluid Mechanics	Computational Fluid Dynamics	http://nptel.ac.in/course/112107080/
43	Fluid Mechanics	Computational Fluid Dynamics and Heat Transfer	http://nptel.ac.in/course/112104030/
44	Fluid Mechanics	Computational Fluid Dynamics for Turbomachinery	http://nptel.ac.in/course/112106061/
45	Fluid Mechanics	Computational Heat Transfer and Fluid Flow	http://nptel.ac.in/course/112108091/

46	Heat and Mass Transfer	Convective Heat and Mass Transfer	http://nptel.ac.in/course_s/112104159/
47	Materials Science	Atomic Structure, Interatomic Bonding and structure of Crystalline solids	https://nptel.ac.in/courses/112108150
48	Heat Transfer	Second Level Course in Heat Transfer	https://nptel.ac.in/courses/112101001
49	Design of Machine Elements-I	Design For Manufacturing	https://nptel.ac.in/courses/112101005
50	Dynamics of Machines	Equations of motion for a planar body	https://nptel.ac.in/courses/112101096
51	Robotics	Automation	https://nptel.ac.in/courses/112101098


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