

**NPTEL VIDEO SUBJECT WISE VIDEO COURSES
DEPARTMENT OF MECHANICAL ENGINEERING**

S.No	Course_ID	Course_Name	Professor_Name	WEB LINK
1	112101095	Advanced Strength of Materials	Prof. S.K. Maiti	https://nptel.ac.in/courses/112/101/112101095/
2	112101097	Heat and Mass Transfer	Prof. U.N. Gaitonde, Prof. S.P. Sukhatme	https://nptel.ac.in/courses/112/101/112101097/
3	112101099	Robotics	Prof. C. Amarnath, Prof. B. Seth, Prof. K. Kurien Issac, Prof. P.S. Gandhi, Prof. P. Seshu	https://nptel.ac.in/courses/112/101/112101099/
4	112102106	Project and Production Management	Prof. Arun Kanda	https://nptel.ac.in/courses/112/102/112102106/
5	112102101	Computer Aided Design and Manufacturing	Prof. Anoop Chawla, Prof. P.V. Madhusudan Rao	https://nptel.ac.in/courses/112/102/112102101/
6	112103108	Engineering Mechanics	Dr. G. Saravana Kumar, Prof. U.S. Dixit	https://nptel.ac.in/courses/112/103/112103108/
7	112103112	Mechanical Vibrations	Prof. Rajiv Tiwari, Prof. S.K. Dwivedy	https://nptel.ac.in/courses/112/103/112103112/
8	112104121	Kinematics of Machines	Prof. Ashok K Mallik	https://nptel.ac.in/courses/112/104/112104121/
9	112104114	Dynamics of Machines	Prof. Amitabha Ghosh	https://nptel.ac.in/courses/112/104/112104114/
10	112104115	Finite Element Method	Prof. C.S. Upadhyay	https://nptel.ac.in/courses/112/104/112104115/
11	112105124	Design of Machine Elements I	Prof. S.K. Roychowdhury, Prof. B. Maiti, Prof. G. Chakraborty	https://nptel.ac.in/courses/112/105/112105124/
12	112105126	Manufacturing Processes II	Prof. A.K. Chattopadhyay, Prof. A.B. Chattopadhyay, Prof. S. Paul	https://nptel.ac.in/courses/112/105/112105126/
13	112105128	Refrigeration and Air Conditioning	Prof. R.C. Arora, Prof. M. Ramgopal	https://nptel.ac.in/courses/112/105/112105128/
14	112106138	Mechanical Measurements and Metrology	Prof. S.P. Venkateshan, Prof. Shunmugam M. S	https://nptel.ac.in/courses/112/106/112106138/
15	112106131	Advanced Operations Research	Prof. G. Srinivasan	https://nptel.ac.in/courses/112/106/112106131/
16	112107147	Strength of Materials	Dr. S.P. Harsha	https://nptel.ac.in/courses/112/107/112107147/

17	112107143	Industrial Engineering	Dr. D.K. Dwivedi,Dr. Inderdeep Singh,Prof. Pradeep Kumar, Prof. P.K. Jain	https://nptel.ac.in/courses/112/107/112107143/
18	112107145	Manufacturing Processes I	Dr. D.K. Dwivedi,Dr. Inderdeep Singh,Dr. D. Benny Karunakar	https://nptel.ac.in/courses/112/107/112107145/
19	112106140	Principles of Mechanical Measurements	Prof. R. Raman	https://nptel.ac.in/courses/112/106/112106140/
20	112106135	Introduction to Finite Element Method	Dr. R. Krishnakumar	https://nptel.ac.in/courses/112/106/112106135/
21	112106130	Advanced Finite Elements Analysis	Dr. R. Krishnakumar	https://nptel.ac.in/courses/112/106/112106130/
22	112106134	Fundamentals of Operations Research	Prof. G. Srinivasan	https://nptel.ac.in/courses/112/106/112106134/
23	112105123	Basic Thermodynamics	Prof. S.K. Som	https://nptel.ac.in/courses/112/105/112105123/
24	113105057	Advanced Materials and Processes	Prof. B.S. Murty	https://nptel.ac.in/courses/113/105/113105057/
25	102106026	Thermodynamics	Prof. G.K. Suraishkumar	https://nptel.ac.in/courses/102/106/102106026/
26	107103004	Ergonomics for beginners: Industrial design perspective	Prof. Debkumar Chakrabarti	https://nptel.ac.in/courses/107/103/107103004/
27	112101002	Convective Heat and Mass Transfer	Prof. A.W. Date	https://nptel.ac.in/courses/112/101/112101002/
28	112101004	Cryogenic Engineering	Prof. M.D. Atrey	https://nptel.ac.in/courses/112/101/112101004/
29	112102014	Tribology	Dr. Harish Hirani	https://nptel.ac.in/courses/112/102/112102014/
30	112104029	Biomicroelectromechanical systems	Dr. Shantanu Bhattacharya	https://nptel.ac.in/courses/112/104/112104029/
31	112105045	Computational Fluid Dynamics	Prof. S. Chakraborty	https://nptel.ac.in/courses/112/105/112105045/
32	112105055	Vibration of Structures	Prof. A. Dasgupta	https://nptel.ac.in/courses/112/105/112105055/
33	112106064	Design and Optimization of Energy systems	Prof. C. Balaji	https://nptel.ac.in/courses/112/106/112106064/
34	112106065	Engineering Fracture Mechanics	Prof. K. Ramesh	https://nptel.ac.in/courses/112/106/112106065/

35	112106068	Experimental Stress Analysis	Prof. K. Ramesh	https://nptel.ac.in/courses/112/106/112106068/
36	112106073	Rocket Propulsion	Prof. K. Ramamurthi	https://nptel.ac.in/courses/112/106/112106073/
37	112106155	Conduction And Radiation	Prof. C. Balaji	https://nptel.ac.in/courses/112/106/112106155/
38	113104008	Fuels Refractory and Furnaces	Prof. Satish Ch. Koria	https://nptel.ac.in/courses/113/104/113104008/
39	113104009	Introduction to Biomaterials	Dr. Birkamjit Basu,Dr. Kantesh Balani	https://nptel.ac.in/courses/113/104/113104009/
40	113104010	Materials and Energy balance in Metallurgical Processes	Prof. Satish Ch. Koria	https://nptel.ac.in/courses/113/104/113104010/
41	113104013	Steel Making	Prof. Dipak Mazumdar,Prof. Satish Ch. Koria	https://nptel.ac.in/courses/113/104/113104013/
42	113105021	Non-ferrous Extractive Metallurgy	Prof. H.S. Ray,Mr. L Pugazhenthly	https://nptel.ac.in/courses/113/105/113105021/
43	113105024	Principles of Physical Metallurgy	Prof. R.N. Ghosh	https://nptel.ac.in/courses/113/105/113105024/
44	113106031	Advanced Metallurgical Thermodynamics	Prof. B.S. Murty	https://nptel.ac.in/courses/113/106/113106031/
45	113106039	Physics of Materials	Dr. Prathap Haridoss	https://nptel.ac.in/courses/113/106/113106039/
46	112105171	Fluid Mechanics	Prof. S.K. Som	https://nptel.ac.in/courses/112/105/112105171/
47	112107078	Advanced Manufacturing Processes	Dr. A.K. Sharma	https://nptel.ac.in/courses/112/107/112107078/
48	113104006	Electroceramics	Dr. Ashish Garg	https://nptel.ac.in/courses/113/104/113104006/
49	113104061	Environmental Degradation of Materials	Dr. Kallol Mondal	https://nptel.ac.in/courses/113/104/113104061/
50	112107086	Processing of non metals	Dr. Inderdeep Singh	https://nptel.ac.in/courses/112/107/112107086/
51	112104031	Computer Aided Engineering Design	Dr. Anupam Saxena	https://nptel.ac.in/courses/112/104/112104031/
52	113105015	Advanced ceramics for strategic applications	Prof. H.S. Maiti	https://nptel.ac.in/courses/113/105/113105015/

53	113105028	Science and Technology of Polymers	Prof. B. Adhikari	https://nptel.ac.in/courses/113/105/113105028/
54	113105025	Processing of Semiconducting Materials	Dr. Pallab Banerji	https://nptel.ac.in/courses/113/105/113105025/
55	112107089	Welding Engineering	Dr. D. K. Dwivedi	https://nptel.ac.in/courses/112/107/112107089/
56	112105051	Solar Energy Technology	Prof. V.V. Satyamurty	https://nptel.ac.in/courses/112/105/112105051/
57	112103023	Nonlinear Vibration	Prof. S.K. Dwivedy	https://nptel.ac.in/courses/112/103/112103023/
58	113104014	Structure of Materials	Prof. Sandeep Sangal, Dr. Anandh Subramaniam	https://nptel.ac.in/courses/113/104/113104014/
59	113104012	Optoelectronic Materials and Devices	Prof. Monica Katiyar, Prof. Deepak Gupta	https://nptel.ac.in/courses/113/104/113104012/
60	112103025	Theory & Practice of Rotor Dynamics	Prof. Rajiv Tiwari	https://nptel.ac.in/courses/112/103/112103025/
61	112104035	Mathematical Methods in Engineering and Science	Dr. Bhaskar Dasgupta	https://nptel.ac.in/courses/112/104/112104035/
62	112104172	Engineering Drawing	Dr. Anupam Saxena	https://nptel.ac.in/courses/112/104/112104172/
63	112104162	Advanced manufacturing process for micro sytem fabrication	Dr. Shantanu Bhattacharya	https://nptel.ac.in/courses/112/104/112104162/
64	112108092	Micro and Smart Systems	Prof. K.N. Bhat, Prof. G.K. Anathasuresh, Prof. S. Gopalakrishnan, Dr. K.J. Vinoy	https://nptel.ac.in/courses/112/108/112108092/
65	112106056	Advanced Gas Dynamics	Dr. Rinku Mukherjee	https://nptel.ac.in/courses/112/106/112106056/
66	112107079	Computational Fluid Dynamics	Dr. K. M. Singh	https://nptel.ac.in/courses/112/107/112107079/
67	112105053	Technology of Surface Coating	Prof. A.K. Chattopadhyay	https://nptel.ac.in/courses/112/105/112105053/
68	112104028	Advanced Machining Processes	Prof. Vijay K. Jain	https://nptel.ac.in/courses/112/104/112104028/
69	107106009	Principles of Engineering System Design	Dr. T Asokan	https://nptel.ac.in/courses/107/106/107106009/
70	107106080	Vehicle Dynamics	Dr. R. Krishnakumar	https://nptel.ac.in/courses/107/106/107106080/

71	112106169	Microfluidics	Dr. Ashis Kumar Sen	https://nptel.ac.in/courses/112/106/112106169/
72	112106170	Convective Heat Transfer	Dr. Arvind Pattamatta, Prof. Ajit K. Kolar	https://nptel.ac.in/courses/112/106/112106170/
73	113106062	Electronic materials, devices, and fabrication	Parasuraman S	https://nptel.ac.in/courses/113/106/113106062/
74	112106177	Introduction to Explosions and Explosion Safety	Prof. K. Ramamurthi	https://nptel.ac.in/courses/112/106/112106177/
75	112107087	Vibration control	Dr. S. P. Harsha	https://nptel.ac.in/courses/112/107/112107087/
76	112106166	Gas Dynamics and Propulsion	Prof. V. Babu	https://nptel.ac.in/courses/112/106/112106166/
77	112106154	Spray Theory and Applications	Dr. Paul E. Sojka , Prof. Mahesh Panchagnula	https://nptel.ac.in/courses/112/106/112106154/
78	112104026	Acoustics	Prof. Nachiketa Tiwari	https://www.digimat.in/nptel/courses/video/112104026/L01.html
79	112104181	NOC:BioMEMS and Microsystems	Dr. Shantanu Bhattacharya	https://nptel.ac.in/courses/112/104/112104181/
80	112105048	Machinery fault diagnosis and signal processing	Prof. A.R. Mohanty	https://nptel.ac.in/courses/112/105/112105048/
81	112105182	Introduction to Fluid Machines and Compressible Flow	Prof. S.K. Som	https://nptel.ac.in/courses/112/105/112105182/
82	112105183	Introduction to Fluid Mechanics and Fluid Engineering	Prof. S. Chakraborty	https://nptel.ac.in/courses/112/105/112105183/
83	112106180	NOC:Engineering Mechanics Statics and Dynamics	Prof. Mahesh Panchagnula	https://nptel.ac.in/courses/112/106/112106180/
84	112106186	NOC:Foundation of Computational Fluid Dynamics	Dr.S.Vengadesan	https://nptel.ac.in/courses/112/106/112106186/
85	112105187	Micro fluidics	Prof. S. Chakraborty	https://nptel.ac.in/courses/112/105/112105187/
86	112104188	NOC:Manufacturing Systems Technology	Dr. Shantanu Bhattacharya	https://nptel.ac.in/courses/112/104/112104188/
87	101104018	Introduction to Propulsion	Dr. D.P. Mishra	https://nptel.ac.in/courses/101/104/101104018/
88	101101001	Introduction to Aerospace Propulsion	Prof. A M Pradeep ,Prof. Bhaskar Roy	https://nptel.ac.in/courses/101/101/101101001/

89	101101002	Jet Aircraft Propulsion	Prof. Bhaskar Roy, Prof. A M Pradeep	https://nptel.ac.in/courses/101/101/101101002/
90	101101058	Turbomachinery Aerodynamics	Prof. A M Pradeep , Prof. Bhaskar Roy	https://nptel.ac.in/courses/101/101/101101058/
91	101104013	Foundation of Scientific Computing	Prof. Tapan K. Sengupta	https://nptel.ac.in/courses/101/104/101104013/
92	101104015	Instability and Transition of Fluid Flows	Prof. Tapan K. Sengupta	https://nptel.ac.in/courses/101/104/101104015/
93	101104017	Introduction to Helicopter Aerodynamics and Dynamics	Prof. A.R. Manjunath, Prof. C. Venkatesan	https://nptel.ac.in/courses/101/104/101104017/
94	101106042	Flight Dynamics II (Stability)	Dr. Nandan Kumar Sinha	https://nptel.ac.in/courses/101/106/101106042/
95	101108047	Advanced Control System Design for Aerospace Vehicles	Dr. Radhakant Padhi	https://nptel.ac.in/courses/101/108/101108047/
96	101108057	Optimal Control, Guidance and Estimation.	Dr. Radhakant Padhi	https://nptel.ac.in/courses/101/108/101108057/
97	101105024	High Speed Aero Dynamics	Dr. K.P. Sinhamahapatra	https://nptel.ac.in/courses/101/105/101105024/
98	101105030	Space Flight Mechanics	Dr. Manoranjan Sinha	https://nptel.ac.in/courses/101/105/101105030/
99	101105059	Introduction to Aerodynamics	Dr. K.P. Sinhamahapatra	https://nptel.ac.in/courses/101/105/101105059/
100	101104019	Jet and Rocket Propulsion	Dr. A. Kushari	https://nptel.ac.in/courses/101/104/101104019/
101	101104005	Aero elasticity	Prof. C. Venkatesan	https://nptel.ac.in/courses/101/104/101104005/
102	101106044	Gas Dynamics	Dr. T.M. Muruganandam	https://nptel.ac.in/courses/101/106/101106044/
103	101106031	Acoustic Instabilities in Aerospace Propulsion	Prof. R.I. Sujith	https://nptel.ac.in/courses/101/106/101106031/
104	101106033	Aerospace Propulsion	Dr. P.A. Ramakrishna	https://nptel.ac.in/courses/101/106/101106033/
105	101106045	Introduction to CFD	Prof. M. Ramakrishna	https://nptel.ac.in/courses/101/106/101106045/
106	101104061	NOC: Introduction to airplane performance	Dr. A.K. Ghosh, Dr. Deepu Philip	https://nptel.ac.in/courses/101/104/101104061/