

LIST OF NPTEL COURSES FOR ELECTRONICS AND COMPUTER ENGINEERING (RC 19-20)

COURSE DURATION : JULY- DEC 2022

Course Id	Discipline	Course Name	SME Name	Institute	Duration	Credits
noc22-ce84	Civil Engineering	Remote Sensing and GIS	Prof. Rishikesh Bharti	IITG	8 weeks	2
noc22-cs71	Computer Science and Engineering	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	8 Weeks	2
noc22-cs72	Computer Science and Engineering	Data Science for Engineers	Prof. Rangunathan Rengasamy Prof. Shankar Narasimhan	IITM	8 Weeks	2
noc22-cs74	Computer Science and Engineering	Python for Data Science	Prof. Rangunathan Rengasamy	IITM	4 Weeks	1
noc22-cs77	Computer Science and Engineering	Introduction to Game Theory and Mechanism Design	Prof. Swaprava Nath	IITB	12 Weeks	3
noc22-cs92	Computer Science and Engineering	Data Structure And Algorithms Using Java	Prof. Debasis Samanta	IITKGP	12 Weeks	3
noc22-cs95	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things	Prof. Sudip Misra	IITKGP	12 Weeks	3
noc22-cs99	Computer Science and Engineering	Object Oriented Analysis And Design	Prof. Partha Pratim Das Prof. Ansuman Banerjee Prof. Kausik Datta	IITKGP	8 Weeks	2
noc22-cs122	Computer Science and Engineering	The Joy of Computing using Python	Prof. Sudarshan Iyengar	IIT Ropar	12 Weeks	3
noc22-de10	Design Engineering	Functional and Conceptual Design	Prof. Asokan T	IITM	12 Weeks	3
noc22-de14	Design Engineering	Innovation by Design	Prof. B. K. Chakravarthy	IITB	4 weeks	1
noc22-de15	Design Engineering	Understanding Design	Prof. Nina Sabnani	IITB	4 weeks	1
noc22-de16	Design Engineering	Design, Technology and Innovation	Prof. B. K. Chakravarthy	IITB	8 Weeks	2
noc22-hs71	Economics	Environmental & Resource Economics	Prof. Sabuj Kumar Mandal	IITM	12 Weeks	3
noc22-hs72	Economics	Economics of Banking and Finance Markets	Prof. Sukumar Vellakkal	IITK	12 weeks	3
noc22-hs140	Economics	Spatial Statistics and Spatial Econometrics	Prof. Gaurav Arora	IITD	12 Weeks	3
noc22-ee69	Electrical and Electronics Engineering	Electromagnetic Theory	Prof. Pradeep Kumar K	IITK	12 Weeks	3
noc22-ee75	Electrical and Electronics Engineering	Enclosure design of electronics equipment	Prof. N. V Chalapathi Rao	IISc	12 Weeks	3
noc22-ee79	Electrical and Electronics Engineering	Digital Switching - I	Prof. Y.N.Singh	IITK	8 Weeks	2
noc22-ee82	Electrical and Electronics Engineering	Introduction to Smart Grid	Prof. N.P. Padhy Prof. Premalata Jena	IITR	8 Weeks	2
noc22-ee85	Electrical and Electronics Engineering	Introduction to Wireless and Cellular Communications	Prof. David Koilpillai	IITM	12 Weeks	3
noc22-ee87	Electrical and Electronics Engineering	Introductory Neuroscience & Neuro-Instrumentation	Prof. Mahesh Jayachandra	IISc	12 Weeks	3
noc22-ee88	Electrical and Electronics Engineering	Fiber Optic Communication Technology	Prof. Deepa Venkitesh	IITM	12 Weeks	3
noc22-ee94	Electrical and Electronics Engineering	Fundamentals Of Electric Drives	Prof. Shyama Prasad Das	IITK	8 Weeks	2
noc22-ee106	Electrical and Electronics Engineering	Introduction to Photonics	Prof. Balaji Srinivasan Prof Shivananju	IITM	12 Weeks	3
noc22-ee108	Electrical and Electronics Engineering	An introduction to Coding Theory	Prof. Adrish Banerjee	IITK	8 Weeks	2

noc22-ee111	Electrical and Electronics Engineering	Electrical Machines - I	Prof. Tapas Kumar Bhattacharya	IITKGP	12 Weeks	3
noc22-ee113	Electrical and Electronics Engineering	Fundamentals Of Electrical Engineering	Prof. Debapriya Das	IITKGP	12 Weeks	3
noc22-hs74	Humanities and Social Sciences	Patent Drafting for Beginners	Prof. Feroz Ali	IITM	4 weeks	1
noc22-hs87	Humanities and Social Sciences	Patent Law for Engineers and Scientists	Prof. Feroz Ali	IITM	12 Weeks	3
noc22-hs110	Humanities and Social Sciences	Entrepreneurship And IP Strategy	Prof. Gouri Gargate	IITKGP	8 Weeks	2
noc22-hs128	Humanities and Social Sciences	Science, Technology and Society	Prof. Sambit Mallick	IITG	12 Weeks	3
noc22-hs132	Humanities and Social Sciences	Mathematics for Economics - I	Prof. Debarshi Das	IITG	12 Weeks	3
noc22-lw03	Law	Introduction to Law on Electricity	Prof. Uday Shankar	IITKGP	8 Weeks	2
noc22-lw04	Law	Legal and Regulatory Issues in Biotechnology	Prof. Niharika Sahoo Bhattacharya	IITKGP	4 Weeks	1
noc22-mg57	Management	Marketing Management - I	Prof. Jayanta Chatterjee Prof. Shashi Shekhar	IITK	8 Weeks	2
noc22-mg58	Management	Managing Services	Prof. Jayanta Chatterjee	IITK	8 Weeks	2
noc22-mg59	Management	Data Analysis & Decision Making - III	Prof. Raghu Nandan Sengupta	IITK	12 Weeks	3
noc22-mg60	Management	Project Management	Prof. Raghu Nandan Sengupta	IITK	8 Weeks	2
noc22-mg62	Management	Decision-Making Under Uncertainty	Prof. N. Gautam	Texas A&M Univ.	4 weeks	1
noc22-mg63	Management	Financial Accounting	Prof. Varadraj Bapat	IITB	8 Weeks	1
noc22-mg64	Management	Cost Accounting	Prof. Varadraj Bapat	IITB	4 weeks	1
noc22-mg65	Management	Management Accounting	Prof. Anil K. Sharma	IITR	12 Weeks	3
noc22-mg66	Management	Working Capital Management	Prof. Anil K. Sharma	IITR	12 Weeks	3
noc22-mg70	Management	Marketing research and analysis	Prof. J.K.Nayak	IITR	8 Weeks	2
noc22-mg71	Management	Project management for managers	Prof. Mukesh Kumar Barua	IITR	12 Weeks	3
noc22-mg73	Management	Innovation, Business Models and Entrepreneurship	Prof. Rajat Agarwal Prof. Vinay Sharma	IITR	8 Weeks	2
noc22-mg74	Management	Operations and supply chain management	Prof. G. Srinivasan	IITM	12 Weeks	3
noc22-mg77	Management	Strategy: An Introduction to game Theory	Prof. Aditya Jagannatham Prof. Vimal Kumar	IITK	8 Weeks	2
noc22-mg79	Management	The Future of Manufacturing Business: Role of Digital Technologies	Prof. R. K. Amit Prof. U. Chandrasekhar	IITM & Wipro 3D	8 Weeks	2
noc22-mg80	Management	Managerial Skills for Interpersonal Dynamics	Prof. Santosh Rangnekar	IITR	12 Weeks	3
noc22-mg82	Management	Product and Brand Management	Prof. Vinay Sharma	IITR	12 Weeks	3
noc22-mg83	Management	Quantitative Investment Management	Prof. J P Singh	IITR	12 Weeks	3
noc22-mg85	Management	Business and Sustainable Development	Prof. Trupti Mishra	IITB	4 weeks	1
noc22-mg87	Management	Descriptive Statistics With R Software	Prof. Prashant Jha Prof. Shalabh	IITK	8 Weeks	2
noc22-mg88	Management	Strategic Management for Competitive Advantage	Prof. Sanjib Chowdhury	IITKGP	12 Weeks	3
noc22-mg89	Management	Strategic Management – The Competitive Edge	Prof. R Srinivasan	IISC	8 Weeks	2
noc22-mg92	Management	Corporate Finance	Prof. Abhijeet Chandra	IITKGP	8 Weeks	2
noc22-mg94	Management	Decision Support System For Managers	Prof. Kunal Kanti Ghosh Prof. Anupam Ghosh Prof Sujoy Bhattacharya	IITKGP	12 Weeks	3
noc22-mg95	Management	Ethics In Engineering Practice	Prof. Susmita Mukhopadhyay	IITKGP	8 Weeks	2
noc22-mg98	Management	Intellectual Property Rights And Competition Law	Prof. K. D. Raju Prof. Niharika Sahoo Bhattacharya	IITKGP	8 Weeks	2
noc22-mg100	Management	Management Information System	Prof. Kunal Kanti Ghosh Prof. Saini Das Prof. Surojit Mukherjee	IITKGP	12 Weeks	3
noc22-mg101	Management	Patent Search and Analysis	Prof. M. Padmavati Prof. Shreya Matilal	IITKGP	8 Weeks	2
noc22-mg103	Management	Principles Of Human Resource Management	Prof. Aradhna Malik	IITKGP	8 Weeks	2
noc22-mg104	Management	Principles Of Management	Prof. Susmita Muhopadhyay Prof. S. Srinivasan	IITKGP	12 Weeks	3

noc22-mg107	Management	Strategic Sales Management	Prof. Sourabh Arora Prof. Kalpak Kulkarni	IITR	8 Weeks	2
noc22-ma40	Mathematics	Essential Mathematics For Machine Learning	Prof. Sanjeev Kumar Prof. S.K. Gupta	IITR	12 Weeks	3
noc22-ma41	Mathematics	Mathematical Methods and its Applications	Prof. P.N. Agarwal Prof.S.K Gupta	IITR	12 Weeks	3
noc22-ma45	Mathematics	Linear Algebra	Prof. Dilip P. Patil	IISc	12 Weeks	3
noc22-ma47	Mathematics	Introduction to Fuzzy Set Theory, Arithmetic and Logic	Prof. Nilladri Chatterjee	IITD	12 Weeks	3
noc22-ma49	Mathematics	Calculus of One Real Variable	Prof. Joydeep Dutta	IITK	8 Weeks	2
noc22-ma50	Mathematics	Calculus of Several Real Variables	Prof. Joydeep Dutta	IITK	8 Weeks	2
noc22-ma51	Mathematics	Integral Transforms And Their Applications	Prof. Sarthok Sircar	IITD	12 Weeks	3
noc22-ma52	Mathematics	Introduction to Methods of Applied Mathematics	Prof. Mani Mehra Prof. Vivek Kumar Aggarwal	IITD	12 Weeks	3
noc22-ma53	Mathematics	Matrix Analysis with Applications	Prof. S.K.Gupta Prof. Sanjeev Kumar	IITR	8 Weeks	2
noc22-ma54	Mathematics	Introduction to Abstract Group Theory	Prof. Krishna Hanumanthu	CMI	8 Weeks	2
noc22-ma56	Mathematics	Introduction to Probability Theory and Stochastic Processes	Prof. S Dharmaraja	IITD	12 Weeks	3
noc22-ma57	Mathematics	Complex Analysis	Prof. Pranav Haridas	Kerala School of Mathematics	12 Weeks	3
noc22-ma58	Mathematics	Computational Commutative Algebra	Prof. Manoj Kummini	CMI	12 Weeks	3
noc22-ma59	Mathematics	Algebra - I	Prof. S. Viswanath Prof. Amritanshu Prasad	IMSc	12 Weeks	3
noc22-ma62	Mathematics	Laplace transform	Prof. Indrava Roy	IMSc	4 Weeks	1
noc22-ma63	Mathematics	Operator Theory	Prof. G. Ramesh	IIT Hyderabad	12 Weeks	3
noc22-ma64	Mathematics	Measure and Integration	Prof S. Kesavan	IMSC	12 Weeks	3
noc22-ma66	Mathematics	Sobolev Spaces and Partial Differential Equations	Prof. Kesavan	IMSc	12 Weeks	3
noc22-ma69	Mathematics	Foundations of R Software	Prof. Shalabh	IITK	12 Weeks	3
noc22-ma72	Mathematics	Differential equations for engineers	Prof. Srinivasa Manam	IITM	12 Weeks	3
noc22-ma73	Mathematics	Partial Differential Equations	Prof. Sivaji Ganesh	IITB	12 Weeks	3
noc22-ma75	Mathematics	Advanced Calculus For Engineers	Prof. Jitendra Kumar Prof. Suresh Kumar	IITKGP	12 Weeks	3
noc22-ma78	Mathematics	Introduction To Abstract And Linear Algebra	Prof. Sourav Mukhopadhyay	IITKGP	8 Weeks	2
noc22-ma80	Mathematics	Mathematical Methods For Boundary Value Problems	Prof. Somnath Bhattacharyya	IITKGP	4 Weeks	1
noc22-ma81	Mathematics	Introduction to Probability Theory and Statistics	Prof. S Dharmaraja	IITD	12 Weeks	3
noc22-ma82	Mathematics	Matrix Computation and its applications	Prof. Mani Mehra Prof. Vivek K. Aggarwal	IITD	12 Weeks	3
noc22-mm44	Metallurgical and Materials Engineering	Electronic Properties of the Materials: Computational Approach	Prof. Somnath Bhowmick	IITK	8 Weeks	2
noc22-ge23	Multidisciplinary	Introduction to Research	Prof. Edamana Prasad Prof. Prathap Haridoss	IITM	8 Weeks	2
noc22-ge28	Multidisciplinary	Solar Energy Engineering and Technology	Prof. Pankaj Kalita	IITG	12 Weeks	3
noc22-ph30	Physics	Introduction to Quantum Field Theory(Theory of Scalar Fields)	Prof. Anurag Tripathi	IIT Hyderabad	12 Weeks	3
noc22-ph31	Physics	Concepts in Magnetism and Superconductivity	Prof. A Taraphder	IITKGP	8 Weeks	2
noc22-ph37	Physics	Solid State Physics	Prof. Amal Kumar Das	IITKGP	12 Weeks	3
noc22-ph44	Physics	Physics of Renewable Energy Systems	Prof. Amreesh Chandra	IITKGP	12 Weeks	3

