

**List of January 2024 Semester Course – NPTEL**

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
1	Aerospace Engineering	Gasdynamics: Fundamentals and Applications	Prof. Srisha Rao M V	IISc	12 Weeks	3	UG/PG
2	Aerospace Engineering	Aircraft Design	Prof. A.K.Ghosh	IITK	12 Weeks	3	UG/PG
3	Aerospace Engineering	Computational Science in Engineering	Prof. Ashok De	IITK	8 Weeks	2	UG/PG
4	Aerospace Engineering	Fundamentals of Theoretical and Experimental Aerodynamics	Prof. Arnab Roy	IITKGP	12 Weeks	3	UG/PG
5	Aerospace Engineering	Introduction to Aircraft Control System	Prof. Dipak Kumar Giri	IITK	12 Weeks	3	UG/PG
6	Aerospace Engineering	Introduction to Experiments in Flight	Prof. A.K.Ghosh	IITK	4 Weeks	1	UG
7	Aerospace Engineering	Lighter than Air Systems	Prof. Rajkumar S. Pant	IITB	12 Weeks	3	UG/PG
8	Aerospace Engineering	Rocket Propulsion	Prof. K. Ramamurthi Prof. V. Nagabhushana Rao	IITM	12 Weeks	3	UG/PG
9	Aerospace Engineering	Combustion of Solid Fuels and Propellants	Prof. Srinibas Karmakar	IITKGP	8 Weeks	2	UG/PG
10	Aerospace Engineering	Introduction to Ancient Indian Technology	Prof. D.P. Mishra	IITK	8 Weeks	2	UG

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11	Agriculture Engineering	Cooling Technology: Why and How utilized in Food Processing and allied Industries	Prof. Tridib Kumar Goswami	IITKGP	12 Weeks	3	UG/PG
12	Agriculture Engineering	Machine Learning For Soil And Crop Management	Prof. Somsubhra Chakraborty	IITKGP	12 Weeks	3	UG
13	Agriculture Engineering	Novel Technologies For Food Processing And Shelf Life Extension	Prof. Hari Niwas Mishra	IITKGP	12 Weeks	3	UG
14	Agriculture Engineering	Traction Engineering	Prof. Hifjur Raheman	IITKGP	8 Weeks	2	UG/PG
15	Agriculture Engineering	Watershed Hydrology	Prof. Rajendra Singh	IITKGP	12 Weeks	3	UG/PG
16	All disciplines of Engineering and Sciences	Technical Communications for Engineers	Prof. Arun K. Saraf	IITR	4 Weeks	1	UG/PG
17	All engineering disciplines	Engineering Thermodynamics in Hindi	Prof. Jayant K. Singh	IITK	12 Weeks	3	UG
18	Applied Mechanics	Engineering Mechanics - Statics and Dynamics	Prof. Anubhab Roy	IITM	8 Weeks	2	UG

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19	Applied Physics and Neurophysiology, Biomedical Engineering, Electrical and Electronics Engineering, Instrumentation Engineering, MEMS	Neural Science for Engineers	Prof. Vikas V	IISc & Nimhans	12 Weeks	3	PG
20	Architecture and Planning	Engineering/Architectural Graphics - part I - Orthographic projection	Prof. Avlokita Agrawal	IITR	8 Weeks	2	UG
21	Architecture and Planning	Engineering/Architectural Graphics – part II – Isometric and Axonometric Drawings	Prof. Avlokita Agrawal	IITR	4 Weeks	1	UG
22	Architecture and Planning	Environmental Impact Assessment	Prof. Harshit Sosan Lakra	IITR	12 Weeks	3	UG/PG
23	Architecture and Planning	Structure, Form, and Architecture: The Synergy	Prof. Shubhajit Sadhukhan	IITR	8 Weeks	2	PG
24	Architecture and Planning	User Interface Design	Prof. Saptarshi Kolay	IITR	4 Weeks	1	UG/PG
25	Architecture and Planning	Introduction to History of Architecture in India	Prof. Pushkar Sohoni	IISER Pune	4 Weeks	1	UG

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26	Architecture and Planning	Research Methodology for Planning and Architectural Studies	Prof. Shubhajt Sadhukhan	IITR	12 Weeks	3	UG/PG
27	Architecture and Planning	Urban Services Planning	Prof. Debapratim Pandit	IITKGP	12 Weeks	3	UG/PG
28	Architecture, Civil and Design	Strategies for Sustainable Design	Prof. Shiva Ji	IIT Hyderabad	12 Weeks	3	UG/PG
29	Architecture; Interior Design; Design; History of Design (esp. focusing on India); Indian Knowledge Systems	Interior Design	Prof. Smriti Saraswat	IITR	8 Weeks	2	UG/PG
30	Biological science	Maternal Infant Young Child Nutrition	Prof. Rupal Dalal	IITB	12 Weeks	3	UG/PG
31	Biological science	Maternal Infant Young Child Nutrition (Hindi)	Prof. Rupal Dalal	IITB	12 Weeks	3	UG/PG
32	Biological Sciences	Computational Genomics	Prof. Vineet Kumar Sharma	IISER Bhopal	12 Weeks	3	PG
33	Biology	RNA Biology	Prof. Rajesh Ramachandran	IISER Mohali	12 Weeks	3	PG
34	Biotechnology	Molecular Biology	Prof Vishal Trivedi	IITG	12 Weeks	3	UG
35	Biotechnology & Bioengineering	Pharmacognosy & Metabolic Engineering	Prof. Adinpunya Mitra	IITKGP	12 Weeks	3	PG

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36	Biotechnology and Bioengineering	Plant Developmental Biology	Prof. Shri Ram Yadav	IITR	4 Weeks	1	UG/PG
37	Biotechnology and Bioengineering	Structural Biology	Prof. Saugata Hazra	IITR	12 Weeks	3	UG/PG
38	Biotechnology and Bioengineering	Data Analysis For Biologists	Prof. Biplab Bose	IITG	8 Weeks	2	UG/PG
39	Biotechnology and Bioengineering	Biochemistry - IITM	Prof. Subramaniam K	IITM	12 Weeks	3	UG
40	Biotechnology and Bioengineering	Bioelectrochemistry	Prof. Mainak Das	IITK	4 Weeks	1	UG/PG
41	Biotechnology and Bioengineering	Bioengineering: An Interface with Biology and Medicine	Prof. Sanjeeva Srivastava	IITB	8 Weeks	2	UG
42	Biotechnology and Bioengineering	BioInformatics: Algorithms and Applications	Prof. Michael Gromiha	IITM	12 Weeks	3	UG/PG
43	Biotechnology and Bioengineering	Biointerface Engineering	Prof. Lalit M. Pandey	IITG	8 Weeks	2	UG/PG
44	Biotechnology and Bioengineering	Bioreactor Design and Analysis	Prof. Smita Srivastava	IITM	8 Weeks	2	UG/PG
45	Biotechnology and Bioengineering	Cell Biology: Cellular organization, division and processes	Prof. Shikha Laloraya	IISc	8 Weeks	2	UG/PG
46	Biotechnology and Bioengineering	Computational Systems Biology	Prof. Karthik Raman	IITM	12 Weeks	3	UG/PG

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47	Biotechnology and Bioengineering	Conservation Economics	Prof. Ankur Awadhiya	IITK	12 Weeks	3	UG/PG
48	Biotechnology and Bioengineering	Demystifying The Brain	Prof. Srinivas Chakravarthy	IITM	4 Weeks	1	UG/PG
49	Biotechnology and Bioengineering	Enzyme Sciences and Technology	Prof. Vishal Trivedi	IITG	12 Weeks	3	UG
50	Biotechnology and Bioengineering	Forests and their Management	Prof. Ankur Awadhiya	IITK	12 Weeks	3	UG
51	Biotechnology and Bioengineering	Host-Pathogen Interaction (Immunology)	Prof. Himanshu Kumar	IISER Bhopal	12 Weeks	3	PG
52	Biotechnology and Bioengineering	Interactomics : Basics & Applications	Prof. Sanjeeva Srivastava	IITB	12 Weeks	3	UG/PG
53	Biotechnology and Bioengineering	Introductory Mathematical Methods for Biologists	Prof. Ranjit Padinhateeri	IITB	8 Weeks	2	UG/PG
54	Biotechnology and Bioengineering	Material and Energy Balances	Prof. Vignesh Muthuvijayan	IITM	12 Weeks	3	UG
55	Biotechnology and Bioengineering	Medical Biomaterials	Prof. Mukesh Doble	IITM	8 Weeks	2	UG/PG
56	Biotechnology and Bioengineering	Metabolic Engineering	Prof. Pinaki Sar Prof. Amit Ghosh	IITKGP	8 Weeks	2	UG
57	Biotechnology and Bioengineering	Nanotechnology In Agriculture	Prof. Mainak Das	IITK	8 Weeks	2	UG/PG

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58	Biotechnology and Bioengineering	Thermodynamics for Biological Systems : Classical and Statistical Aspect	Prof. G. K. Suraishkumar Prof. Sanjib Senapati	IITM	12 Weeks	3	UG
59	Biotechnology and Bioengineering	Optical Spectroscopy and Microscopy : Fundamentals of optical measurements and instrumentation	Prof. Balaji Jayaprakash	IISc	12 Weeks	3	PG
60	Biotechnology/Biosciences/ Bioengineering	Introduction to Biomolecular Modeling	Dr. Parimal Kar	IIT Indore	12 Weeks	3	UG/PG
61	Chemical Engineering	Electrochemical Technology in Pollution Control	Prof. J. R. Mudakavi	IISc	8 Weeks	2	UG/PG
62	Chemical Engineering	Advanced Thermodynamics and Molecular Simulations	Prof. Prateek Kumar Jha	IITR	12 Weeks	3	UG/PG
63	Chemical Engineering	Applied Time-Series Analysis	Prof. Arun K Tangirala	IITM	12 Weeks	3	PG
64	Chemical Engineering	Aspen Plus Simulation Software - A Basic Course For Beginners	Prof. Prabirkumar Saha	IITG	12 Weeks	3	UG/PG
65	Chemical Engineering	Basic Principles And Calculations In Chemical Engineering	Prof. Subrata Kumar Majumdar	IITG	12 Weeks	3	UG

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66	Chemical Engineering	Biological process design for wastewater treatment	Prof. Vimal Chandra Srivastava	IITR	8 Weeks	2	UG/PG
67	Chemical Engineering	Biomass Conversion And Biorefinery	Prof. Kaustubha Mohanty	IITG	12 Weeks	3	UG/PG
68	Chemical Engineering	Chemical Engineering Fluid Dynamics and Heat Transfer	Prof. Rabibrata Mukherjee Prof. Arnab Atta	IITKGP	12 Weeks	3	UG
69	Chemical Engineering	Chemical Process Technology	Prof. Tamal Banerjee	IITG	12 Weeks	3	UG
70	Chemical Engineering	Chemical Process Utilities	Prof. Shishir Sinha	IITR	12 Weeks	3	UG/PG
71	Chemical Engineering	Chemical Reaction Engineering II	Prof. Ganesh Vishwanathan	IITB	12 Weeks	3	UG
72	Chemical Engineering	Computational Fluid Dynamics	Prof. Sreenivas Jayanti	IITM	12 Weeks	3	UG/PG
73	Chemical Engineering	Computational process design	Prof. Hariprasad Kodamana Prof. Manojkumar Ramteke	IITD	8 Weeks	2	UG
74	Chemical Engineering	Computer Aided Applied Single Objective Optimization	Prof. Prakash Kotecha	IITG	12 Weeks	3	UG/PG
75	Chemical Engineering	Environmental Quality Monitoring & Analysis	Prof. Ravi Krishna R	IITM	12 Weeks	3	UG/PG



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76	Chemical Engineering	Fluid Flow Operations	Prof. Subrata Kumar Majumdar	IITG	12 Weeks	3	UG
77	Chemical Engineering	Heat Transfer	Prof. Ganesh Viswanathan	IITB	12 Weeks	3	UG
78	Chemical Engineering	Membrane Technology	Prof. Kaustubha Mohanty	IITG	12 Weeks	3	UG/PG
79	Chemical Engineering	Momentum Transfer in Fluid	Prof. Somenath Ganguly / Prof. Sunando DasGupta	IITKGP	12 Weeks	3	UG
80	Chemical Engineering	Multiphase Flows	Prof. Rajesh Kumar Upadhyay	IIT(BHU) Varanasi	8 Weeks	2	UG/PG
81	Chemical Engineering	Multiphase Microfluidics	Prof. Raghvendra Gupta	IITG	8 Weeks	2	PG
82	Chemical Engineering	Physical And Electrochemical Characterizations In Chemical Engineering	Prof. Tamal Banerjee	IITG	8 Weeks	2	UG/PG
83	Chemical Engineering	Physico-chemical processes for wastewater treatment	Prof. Vimal Chandra Srivastava	IITR	12 Weeks	3	UG/PG
84	Chemical Engineering	Polymer Reaction Engineering	Prof. Shishir Sinha	IITR	12 Weeks	3	UG/PG
85	Chemical Engineering	Process Equipment Design	Prof. Shabina Khanam	IITR	12 Weeks	3	UG

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86	Chemical Engineering	Renewable Energy Engineering: Solar, Wind And Biomass Energy Systems	Prof. Vaibhav Vasant Goud, Prof. R. Anandalakshmi	IITG	12 Weeks	3	UG/PG
87	Chemical Engineering	Thermodynamics Of Fluid Phase Equilibria	Prof. Jayant K. Singh	IITK	8 Weeks	2	UG/PG
88	Chemical Engineering	Unit operations of particulate matter	Prof. Shabina Khanam	IITR	4 Weeks	1	UG
89	Chemical Engineering	Waste to Energy Conversion	Prof. P. Mondal	IITR	8 Weeks	2	UG
90	Chemical Engineering	Advanced Thermodynamics	Prof. Nanda Kishore	IITG	12 Weeks	3	PG
91	Chemical Engineering, Biotechnology, Food Technology, Textile Engineering	Inorganic Chemical Technology	Prof. Nanda Kishore	IITG	12 Weeks	3	UG
92	Chemical Engineering, Mechanical Engineering, Physics and Chemistry	Applied Statistical Thermodynamics	Prof. Tamal Banerjee	IITG	12 Weeks	3	PG
93	Chemistry	Metallocene and Metal-carbene based Organometallic Compounds as Industrially Important Advanced Polyolefin Catalysts	Prof. Sanjib K. Patra	IITKGP	8 Weeks	2	UG/PG

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94	Chemistry	Advanced Chemical Thermodynamics and Kinetics	Prof. Arijit Kumar De	IISER Mohali	12 Weeks	3	UG/PG
95	Chemistry	Advanced Transition Metal Organometallic Chemistry	Prof. P. Ghosh	IITB	12 Weeks	3	UG/PG
96	Chemistry	Basic thermodynamics: Classical and Statistical Approaches	Prof. Arnab Mukherjee	IISER Pune	12 Weeks	3	UG
97	Chemistry	Basics in Inorganic Chemistry	Prof. D. Maiti	IITB	4 Weeks	1	UG
98	Chemistry	Biochemistry	Prof. Swagata Dasgupta	IITKGP	12 Weeks	3	UG/PG
99	Chemistry	Chemistry Of Main Group Elements	Prof. M.S. Balakrishna	IITB	12 Weeks	3	UG/PG
100	Chemistry	Co-Ordination Chemistry (Chemistry Of Transition Elements)	Prof. Debashis Ray	IITKGP	12 Weeks	3	UG
101	Chemistry	Electrochemical impedance Spectroscopy	Prof. S. Ramanathan	IITM	12 Weeks	3	PG
102	Chemistry	Elementary Electrochemistry	Prof. Angshuman Roy Choudhury	IISER Mohali	8 Weeks	2	UG/PG
103	Chemistry	Essentials Of Biomolecules : Nucleic Acids And Peptides	Prof. Lal Mohan Kundu	IITG	12 Weeks	3	PG

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104	Chemistry	Essentials of Oxidation, Reduction and C-C Bond Formation. Application in Organic Synthesis	Prof. Yashwant D Vankar	IITB	12 Weeks	3	PG
105	Chemistry	Experimental Biochemistry	Prof. Swagata Dasgupta Prof. Soumya De	IITKGP	12 Weeks	3	UG
106	Chemistry	Fundamentals of Spectroscopy	Prof. Sayan Bagchi Prof. Anirban Hazra	NCL Pune, IISER Pune	12 Weeks	3	UG
107	Chemistry	Industrial Inorganic Chemistry	Prof. Debashis Ray	IITKGP	12 Weeks	3	UG/PG
108	Chemistry	Interpretative molecular spectroscopy	Prof. M. S. Balakrishna	IITB	12 Weeks	3	UG/PG
109	Chemistry	Medicinal Chemistry	Prof. Harinath Chakrapani	IISER Pune	12 Weeks	3	UG/PG
110	Chemistry	Molecular Spectroscopy: A Physical Chemist's perspective	Prof. Anindya Datta	IITB	12 Weeks	3	UG/PG
111	Chemistry	Nuclear and Radiochemistry	Prof. B.S.Tomar Prof. P.K.Mohapatra	Homi Bhabha National Institute	12 Weeks	3	PG

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112	Chemistry	One and Two dimensional NMR Spectroscopy: Concepts and Spectral Analysis	Prof. N. Suryaprakash	IISc	12 Weeks	3	UG/PG
113	Chemistry	Organic Chemistry I (Tamil)	Prof. Srinivasan Venkataraman	IISER PUNE	4 Weeks	1	UG
114	Chemistry	Organometallic Chemistry	Prof. D. Maiti	IITB	4 Weeks	1	UG
115	Chemistry	Pericyclic Reactions and Organic Photochemistry	Prof. Sankararaman	IITM	8 Weeks	2	PG
116	Chemistry	Symmetry and Group Theory	Prof. Jeetender Chugh	IISER PUNE	12 Weeks	3	PG
117	Chemistry	Symmetry, Stereochemistry and Applications	Prof. Angshuman Roy Choudhury	IISER Mohali	12 Weeks	3	UG
118	Chemistry	Transition Metal Organometallics in Catalysis and Biology	Prof. P. Ghosh	IITB	12 Weeks	3	UG/PG
119	Chemistry	Ultrafast laser spectroscopy	Prof. Anindya Datta	IITB	12 Weeks	3	PG
120	Chemistry	Bioinorganic Chemistry	Prof. S. P. Rath	IITK	4 Weeks	1	UG/PG
121	Chemistry and Biochemistry	Thermodynamics: Classical To Statistical	Prof. Sandip Paul	IITG	12 Weeks	3	UG/PG
122	Chemistry, Physics	Time Dependent Quantum Chemistry	Prof. Atanu Bhattacharya	IISc	12 Weeks	3	PG

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123	Civil Engineering	Advanced Foundation Engineering	Prof. Kousik Deb	IITKGP	12 Weeks	3	UG/PG
124	Civil Engineering	Advanced Soil Mechanics	Prof. Sreedeeep S	IITG	12 Weeks	3	UG/PG
125	Civil Engineering	Air pollution and Control	Prof. Bhola Ram Gurjar	IITR	12 Weeks	3	UG/PG
126	Civil Engineering	Applied Environmental Microbiology	Prof. Gargi Singh	IITR	12 Weeks	3	PG
127	Civil Engineering	Applied Seismology for Engineers	Dr Abhishek Kumar	IITG	12 Weeks	3	UG/PG
128	Civil Engineering	Basic construction materials	Prof. Manu Santhanam Prof. Radhakrishna G. Pillai	IITM	12 Weeks	3	UG
129	Civil Engineering	Construction Methods And Equipment Management	Prof. Indu Siva Ranjani Gandhi	IITG	8 Weeks	2	PG
130	Civil Engineering	Development and Applications of Special Concretes	Prof. Sudhir Misra	IITK	8 Weeks	2	PG
131	Civil Engineering	Earthquake Resistant Design of Foundations	Prof. B. K. Maheshwari	IITR	8 Weeks	2	UG/PG
132	Civil Engineering	Engineering Hydrology	Prof. Sreeja Pekkatt	IITG	12 Weeks	3	UG

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133	Civil Engineering	Environmental Remediation of Contaminated Sites	Prof. Bhanu Prakash Vellanki	IITR	12 Weeks	3	UG/PG
134	Civil Engineering	Expansive Soil	Prof. Anil Kumar Mishra	IITG	8 Weeks	2	UG/PG
135	Civil Engineering	Finite Element Method	Prof. Biswanath Banerjee Prof. Amit Shaw	IITKGP	12 Weeks	3	UG/PG
136	Civil Engineering	Geographic Information Systems	Prof. Arun K. Saraf	IITR	12 Weeks	3	UG/PG
137	Civil Engineering	Geology and Soil Mechanics	Prof. Priyanka Ghosh	IITK	12 Weeks	3	UG/PG
138	Civil Engineering	Geomorphology	Prof. Pitambar Pati	IITR	12 Weeks	3	PG
139	Civil Engineering	Geosynthetics And Reinforced Soil Structures	Prof. K.Rajagopal	IITM	12 Weeks	3	PG
140	Civil Engineering	Geotechnical Engineering - 1	Prof. D. N. Singh	IITB	12 Weeks	3	UG
141	Civil Engineering	Geotechnical Engineering II Foundation Engineering	Prof. Dilip Kumar Baidya	IITKGP	12 Weeks	3	UG
142	Civil Engineering	Hydraulic Engineering	Prof. Mohammad Saud Afzal	IITKGP	12 Weeks	3	UG

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143	Civil Engineering	Introduction to Accounting and Finance for Civil Engineers	Prof. K. N. Jha Prof. Sudhir Misra	IITK	8 Weeks	2	UG/PG
144	Civil Engineering	Maintenance and Repair of Concrete Structures	Prof. Radhakrishna G. Pillai	IITM	12 Weeks	3	UG/PG
145	Civil Engineering	Mechanical Characterization of Bituminous Materials	Prof. M. R. Nivitha (MRN) Prof. Neethu Roy(NR) Prof. A. Padmarekha(APR) Prof. J. Murali Krishnan(JMK)	PSG Tech., Coimbatore MBCET, Trivandrum SRM IST, Kattankulathur IIT Madras	12 Weeks	3	PG
146	Civil Engineering	Microwave Remote Sensing in Hydrology	Prof. J. Indu	IITB	12 Weeks	3	PG
147	Civil Engineering	Pavement Construction Technology	Prof. Rajan Choudhary	IITG	12 Weeks	3	UG/PG
148	Civil Engineering	Plastic Waste Management	Prof. Brajesh Kumar Dubey	IITKGP	8 Weeks	2	PG



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149	Civil Engineering	Remote Sensing Essentials	Prof. Arun K. Saraf	IITR	12 Weeks	3	UG/PG
150	Civil Engineering	Retrofitting and Rehabilitation of Civil Infrastructure	Prof. Swati Maitra Prof. Sriman Bhattacharya	IITKGP	12 Weeks	3	PG
151	Civil Engineering	Rock Engineering	Prof. Priti Maheshwari	IITR	12 Weeks	3	UG
152	Civil Engineering	Soil Dynamics	Prof. Paramita Bhattacharya	IITKGP	12 Weeks	3	UG/PG
153	Civil Engineering	Soil Structure Interaction	Prof. Kousik Deb	IITKGP	12 Weeks	3	UG/PG
154	Civil Engineering	Structural Analysis-I	Prof. Amit Shaw	IITKGP	12 Weeks	3	UG
155	Civil Engineering	Structural Dynamics	Prof. Ramancharala Pradeep Kumar	IITH	12 Weeks	3	UG
156	Civil Engineering	Structural Vibration	Dr. Arunasis Chakarborty	IITG	12 Weeks	3	UG/PG
157	Civil Engineering	Surface Water Hydrology	Prof. Rajib Maity	IITKGP	12 Weeks	3	UG
158	Civil Engineering	Traffic Engineering	Prof. Bhargab Maitra	IITKGP	12 Weeks	3	PG
159	Civil Engineering	Unsaturated Soil Mechanics	Prof. Tadikonda Venkata Bharat	IITG	12 Weeks	3	UG/PG
160	Civil Engineering	Urban Transportation Systems Planning	Prof. Bhargab Maitra	IITKGP	12 Weeks	3	PG

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161	Civil Engineering	Vibration of Continuous Systems	Prof. Sudip Talukdar	IITG	12 Weeks	3	PG
162	Civil Engineering	Water and waste water treatment	Prof. Bhanu Prakash Vellanki	IITR	12 Weeks	3	UG
163	Civil Engineering	Water Supply Engineering	Prof. Manoj Kumar Tiwari	IITKGP	12 Weeks	3	UG/PG
164	Civil Engineering	निर्माण प्रबंधन (Construction Management) के सिद्धांत [Nirman prabandhan (Construction Management) ke Siddhant]	Prof. Sudhir Misra	IITK	8 Weeks	2	UG
165	Civil Engineering, Rural Development, Earth Science, Geology	Remote Sensing and GIS for rural development	Prof. Pennan Chinnasamy	IITB	12 Weeks	3	UG
166	Computer Science & Engineering	Foundations of Cryptography	Prof. Ashish Choudhury	IIT Bangalore	12 Weeks	3	UG/PG
167	Computer Science & Engineering	Introduction to programming in C	Prof. Satyadev Nandakumar	IITK	8 Weeks	2	UG/PG
168	Computer Science & Engineering	Linear programming and its applications to computer science	Prof. Rajat Mittal	IITK	8 Weeks	2	UG/PG

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169	Computer Science & Engineering, Mathematics	Basics of Computational Complexity	Prof. Nitin Saxena	IITK	12 Weeks	3	UG/PG
170	Computer Science and Engineering	Advanced Computer Architecture	Prof. Smruti Ranjan Sarangi	IITD	12 Weeks	3	PG
171	Computer Science and Engineering	Secure Computation: Part I	Prof. Ashish Choudhury	IIIT Bangalore	12 Weeks	3	UG/PG
172	Computer Science and Engineering	An Introduction to Artificial Intelligence	Prof. Mausam	IITD	12 Weeks	3	UG
173	Computer Science and Engineering	Cloud Computing and Distributed Systems	Prof. Rajiv Misra	IITK	8 Weeks	2	UG/PG
174	Computer Science and Engineering	Switching Circuits and Logic Design	Prof. Indranil Sengupta	IITKGP	12 Weeks	3	UG
175	Computer Science and Engineering	Advanced Computer Networks	Prof. Neminath Hubballi Prof. Sameer Kulkarni	IIT Indore IIT Gandhi nagar	12 Weeks	3	UG/PG
176	Computer Science and Engineering	Affective Computing	Prof. Jainendra Shukla Prof. Abhinav Dhall	IIITD	12 Weeks	3	UG/PG
177	Computer Science and Engineering	AI:Constraint Satisfaction	Prof. Deepak Khemani	IITM	8 Weeks	2	UG/PG

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178	Computer Science and Engineering	Artificial Intelligence: Knowledge Representation And Reasoning	Prof. Deepak Khemani	IITM	12 Weeks	3	UG/PG
179	Computer Science and Engineering	Blockchain and its Applications	Prof. Sandip Chakraborty Prof. Shamik Sural	IITKGP	12 Weeks	3	UG/PG
180	Computer Science and Engineering	Circuit Complexity Theory	Prof. Raghunath Tewari	IITK	12 Weeks	3	UG/PG
181	Computer Science and Engineering	Cloud Computing	Prof. Soumya Kanti Ghosh	IITKGP	12 Weeks	3	UG
182	Computer Science and Engineering	Compiler Design	Prof. Santanu Chattopadhyay	IITKGP	12 Weeks	3	UG
183	Computer Science and Engineering	Computer Networks And Internet Protocol	Prof. Soumya Kanti Ghosh Prof. Sandip Chakraborty	IITKGP	12 Weeks	3	UG/PG
184	Computer Science and Engineering	Data Analytics with Python	Prof. A Ramesh	IITR	12 Weeks	3	UG/PG
185	Computer Science and Engineering	Data Base Management System	Prof. Partha Pratim Das Prof. Samiran Chattopadhyay	IITKGP	8 Weeks	2	UG/PG
186	Computer Science and Engineering	Data Mining	Prof. Pabitra Mitra	IITKGP	8 Weeks	2	UG

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187	Computer Science and Engineering	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	8 Weeks	2	UG
188	Computer Science and Engineering	Embedded System Design with ARM	Prof. Indranil Sengupta Prof. Kamalika Datta	IITKGP	8 Weeks	2	UG
189	Computer Science and Engineering	Embedded Systems Design	Prof. Anupam Basu	IITKGP	12 Weeks	3	UG
190	Computer Science and Engineering	Foundation of Cloud IoT Edge ML	Prof. Rajiv Misra	IITP	8 Weeks	2	UG/PG
191	Computer Science and Engineering	Foundations of Cyber Physical Systems	Prof. Soumyajit Dey	IITKGP	12 Weeks	3	UG/PG
192	Computer Science and Engineering	Fundamental Algorithms: Design And Analysis	Prof. Sourav Mukhopadhyay	IITKGP	4 Weeks	1	UG/PG
193	Computer Science and Engineering	Getting Started with Competitive Programming	Prof. Neeldhara Misra	IIT Gandhinagar	12 Weeks	3	UG
194	Computer Science and Engineering	GPU Architectures And Programming	Prof. Soumyajit Dey	IITKGP	12 Weeks	3	UG/PG
195	Computer Science and Engineering	Information Security - 5 - Secure Systems Engineering	Prof. Chester Robeiro	IITM	8 Weeks	2	UG/PG
196	Computer Science and Engineering	Introduction to Automata, Languages and Computation	Prof. Sourav Mukhopadhyay	IITKGP	12 Weeks	3	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
197	Computer Science and Engineering	Introduction to Embedded System Design	Prof. Dhananjay V. Gadre Prof. Badri N Subudhi	IITD	12 Weeks	3	UG/PG
198	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things	Prof. Sudip Misra	IITKGP	12 Weeks	3	PG
199	Computer Science and Engineering	Introduction To Internet Of Things	Prof. Sudip Misra	IITKGP	12 Weeks	3	UG
200	Computer Science and Engineering	Introduction to Machine Learning (Tamil)	Prof. Arun Rajkumar	IITM	8 Weeks	2	UG/PG
201	Computer Science and Engineering	Introduction To Soft Computing	Prof. Debasis Samanta	IITKGP	8 Weeks	2	UG/PG
202	Computer Science and Engineering	Machine Learning for Engineering and science applications	Prof. Balaji Srinivasan and Prof. Ganapathy	IITM	12 Weeks	3	UG/PG
203	Computer Science and Engineering	Natural Language Processing	Prof. Pawan Goyal	IITKGP	12 Weeks	3	UG/PG
204	Computer Science and Engineering	Object Oriented System Development Using UML, Java And Patterns	Prof. Rajib Mall	IITKGP	12 Weeks	3	PG
205	Computer Science and Engineering	Optimisation for Machine Learning: Theory and Implementation (Hindi)	Prof. Pravesh Biyani	IITD	8 Weeks	2	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
206	Computer Science and Engineering	Problem Solving Through Programming In C	Prof. Anupam Basu	IITKGP	12 Weeks	3	UG/PG
207	Computer Science and Engineering	Programming In Java	Prof. Debasis Samanta	IITKGP	12 Weeks	3	UG
208	Computer Science and Engineering	Programming in Modern C++	Prof. Partha Pratim Das	IITKGP	12 Weeks	3	UG/PG
209	Computer Science and Engineering	Programming, Data Structures And Algorithms Using Python	Prof. Madhavan Mukund	CMI	8 Weeks	2	UG
210	Computer Science and Engineering	Selected Topics in Algorithms	Prof. Palash Dey	IITKGP	12 Weeks	3	PG
211	Computer Science and Engineering	Software Testing	Prof. Rajib Mall	IITKGP	4 Weeks	1	UG/PG
212	Computer Science and Engineering	Systems and Usable Security	Prof. Neminath Hubballi	IIT Indore	4 Weeks	1	UG/PG
213	Computer Science and Engineering	Theory of Computation	Prof. Subrahmanyam Kalyanasundaram	IIT Hyderabad	12 Weeks	3	UG
214	Computer Science And Engineering	User-centric Computing For Human-Computer Interaction	Prof. Samit Bhattacharya	IITG	8 Weeks	2	UG/PG
215	Computer Science and Engineering, EIE, ECE, MnC	Digital Design with Verilog	Dr. Chandan Karfa, Dr. Aryabartta Sahu	IITG	12 Weeks	3	UG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
216	Computer Science and Engineering/Mathematics	Probability for Computer Science	Prof. Nitin Saxena	IITK	8 Weeks	2	UG/PG
217	Computer Science Engineering , Electrical and Electronics Engineering	Parallel Computer Architecture	Prof. Hemangee K. Kapoor	IITG	12 Weeks	3	UG/PG
218	Design Engineering	Fundamentals of Automotive Systems	Prof. C. S. Shankar Ram	IITM	12 Weeks	3	UG/PG
219	Design Engineering	Understanding Design	Prof. Nina Sabnani	IITB	4 Weeks	1	UG
220	Design Engineering	Understanding Ethnography	Prof. Nina Sabnani	IITB	8 Weeks	2	UG/PG
221	Design Engineering	Understanding Incubation and Entrepreneurship	Prof. B. K. Chakravarthy	IITB	12 Weeks	3	UG
222	Design Engineering	Usability Engineering	Prof. Debayan Dhar	IITG	12 Weeks	3	UG/PG
223	Design Engineering	Design, Technology and Innovation	Prof. B. K. Chakravarthy	IITB	8 Weeks	2	UG
224	Design Engineering	Innovation by Design	Prof. B. K. Chakravarthy	IITB	4 Weeks	1	UG
225	Earth Science	Groundwater Engineering	Prof. Arun K. Saraf	IITR	12 Weeks	3	UG/PG
226	Earth Science/ Geology / Geoscience	The evolution of the Earth and life	Prof. Devapriya Chattopadhyay	IISER Pune	12 Weeks	3	UG



S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
227	Earth Sciences	Geomorphic Processes: Landforms And Landscapes	Prof. Javed N. Malik	IITK	8 Weeks	2	UG
228	Earth Sciences	Natural Hazards	Prof. Javed N. Malik Prof. Shantiswarup Sahoo	IITK	8 Weeks	2	PG
229	Earth Sciences	Stress and Strain issues in Structural Geology	Prof. Soumyajit Mukherjee	IITB	12 Weeks	3	UG/PG
230	Economic Sciences	Applied Econometrics	Prof. Sabuj Kumar Mandal	IITM	12 Weeks	3	PG
231	Economic Sciences	Applied Statistics and Econometrics	Prof. Deep Mukherjee	IITK	12 Weeks	3	UG/PG
232	Economic Sciences	Indian Economy: Some Contemporary Perspectives	Prof. Wasim Ahmad	IITK	8 Weeks	2	UG
233	Economic Sciences	Microfoundations Of Macroeconomics	Prof. Wasim Ahmad	IITK	8 Weeks	2	UG/PG
234	Economic Sciences	Introduction to Econometrics	Prof. Sabuj Kumar Mandal	IITM	12 Weeks	3	UG
235	Economics	Health Economics	Dr. Pratap C. Mohanty	IITR	8 Weeks	2	UG/PG
236	Electrical and Electronics Engineering	Fundamentals of semiconductor devices	Prof. Digbijoy N. Nath	IISc	12 Weeks	3	UG
237	Electrical and Electronics Engineering	Photonic integrated circuit	Prof. Shankar Kumar Selvaraja	IISc	12 Weeks	3	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
238	Electrical and Electronics Engineering	Deep Learning	Prof. Prabir Kumar Biswas	IITKGP	12 Weeks	3	UG/PG
239	Electrical and Electronics Engineering	Electronics Enclosures Thermal issues	Prof. N.V Chalapathi Rao	IISc	8 Weeks	2	UG/PG
240	Electrical and Electronics Engineering	Electronics equipment integration and Prototype building	Prof. N.V Chalapathi Rao	IISc	8 Weeks	2	UG/PG
241	Electrical and Electronics Engineering	Fundamental of Power Electronics	Prof. L.Umanand	IISc	12 Weeks	3	UG/PG
242	Electrical and Electronics Engineering	Integrated Circuits, Mosfets, OP-Amps and their Applications	Prof. Hardik Jeetendra Pandya	IISc	12 Weeks	3	UG/PG
243	Electrical and Electronics Engineering	A brief introduction of Micro - Sensors	Prof. Santanu Talukder	IISER Bhopal	4 Weeks	1	PG
244	Electrical and Electronics Engineering	Advanced topics of Wireless Communication (Hindi)	Prof. Vivek Ashok Bohara	IIT Delhi	8 Weeks	2	UG/PG
245	Electrical and Electronics Engineering	Analog Circuits	Prof. Jayanta Mukherjee	IITB	8 Weeks	2	UG
246	Electrical and Electronics Engineering	Analog Electronic Circuits - IITM	Prof. Shanthi Pavan	IITM	12 Weeks	3	UG
247	Electrical and Electronics Engineering	Analog Ic Design	Prof. Aniruddhan.S	IITM	12 Weeks	3	UG/PG
248	Electrical and Electronics Engineering	Circuit Analysis for Analog Designers	Prof. Shanthi Pavan	IITM	12 Weeks	3	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
249	Electrical and Electronics Engineering	Control engineering	Prof. Ramkrishna Pasumarthy	IITM	12 Weeks	3	UG/PG
250	Electrical and Electronics Engineering	Digital Signal Processing and its Applications	Prof. V. M. Gadre	IITB	12 Weeks	3	UG/PG
251	Electrical and Electronics Engineering	Digital System Design	Prof. Neeraj Goel	IIT Ropar	12 Weeks	3	UG
252	Electrical and Electronics Engineering	Foundations of Wavelets and Multirate Digital Signal Processing	Prof. V. M. Gadre	IITB	4 Weeks	1	UG/PG
253	Electrical and Electronics Engineering	Linear Dynamical Systems	Prof. Tushar Jain	IIT Mandi	8 Weeks	2	PG
254	Electrical and Electronics Engineering	Microwave Integrated Circuits	Prof. Jayanta Mukherjee	IITB	8 Weeks	2	UG/PG
255	Electrical and Electronics Engineering	Modern Computer Vision	Prof. A. N. Rajagopalan	IITM	12 Weeks	3	UG/PG
256	Electrical and Electronics Engineering	Multirate DSP	Prof. R. David Koilpillai	IITM	12 Weeks	3	UG/PG
257	Electrical and Electronics Engineering	Optical Fiber Sensors	Prof Balaji Srinivasan	IITM	12 Weeks	3	UG/PG
258	Electrical and Electronics Engineering	Power Management Integrated Circuits	Prof. Qadeer Ahmad Khan	IITM	12 Weeks	3	UG/PG
259	Electrical and Electronics Engineering	Principles of Digital Communication	Prof. Abhishek Dixit	IITD	12 Weeks	3	UG
260	Electrical and Electronics Engineering	RF and Microwave Networks	Prof. Bratin Ghosh	IITKGP	12 Weeks	3	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
261	Electrical and Electronics Engineering	Semiconductor device modeling and Simulation	Prof. Vivek Dixit	IITKGP	12 Weeks	3	UG/PG
262	Electrical and Electronics Engineering	Signals and Systems	Prof. Hitesh Shrimali Prof. Kushal K. Shah	IIT Mandi	12 Weeks	3	UG
263	Electrical and Electronics Engineering	CMOS Digital VLSI Design	Prof. Sudeb Dasgupta	IITR	8 Weeks	2	UG/PG
264	Electrical and Electronics Engineering	Electric Vehicles - Part 1	Prof. Amit Jain	IITD	4 Weeks + 4 Weeks (New)	2	UG/PG
265	Electrical and Electronics Engineering	Electromagnetic Waves in Guided and Wireless Media	Prof. Pradeep Kumar K	IITK	8 Weeks	2	UG/PG
266	Electrical and Electronics Engineering	Fuzzy Sets, Logic and Systems & Applications	Prof. Nishchal Kumar Verma	IITK	12 Weeks	3	UG/PG
267	Electrical and Electronics Engineering	Optimal control	Prof. Barjeev Tyagi	IITR	8 Weeks	2	PG
268	Electrical and Electronics Engineering	Power Quality Improvement Technique	Prof. Avik Bhattacharya	IITR	8 Weeks	2	PG
269	Electrical and Electronics Engineering	Principles of Communication Systems - I	Prof. Aditya Jagannatham	IITK	12 Weeks	3	UG

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270	Electrical and Electronics Engineering	Principles of Signals and Systems	Prof. Aditya Jagannatham	IITK	12 Weeks	3	UG
271	Electrical and Electronics Engineering	Smart Grid: Basics to Advanced Technologies	Prof. N. P. Padhy, Prof. Premalata Jena	IITR	12 Weeks	3	UG/PG
272	Electrical and Electronics Engineering	Computer Vision And Image Processing - Fundamentals And Applications	Prof. M. K. Bhuyan	IITG	12 Weeks	3	UG/PG
273	Electrical and Electronics Engineering	Design Of Power Electronic Converters	Prof. Shabari Nath	IITG	8 Weeks	2	UG/PG
274	Electrical and Electronics Engineering	Microprocessors And Interfacing	Prof. Shaik Rafi Ahamed	IITG	12 Weeks	3	UG
275	Electrical and Electronics Engineering	Operation And Planning Of Power Distribution Systems	Prof. Sanjib Ganguly	IITG	12 Weeks	3	PG
276	Electrical and Electronics Engineering, Computer Science and Engineering, VLSI Specialization	Design and Analysis of VLSI Subsystems	Prof. Madhav Rao	IIT Bangalore	12 Weeks	3	UG/PG
277	Electrical Engineering	Sensors and Actuators	Prof. Hardik Jeetendra Pandya	IISc	12 Weeks	3	UG/PG
278	Electrical Engineering	Microprocessors and Microcontrollers	Prof. Santanu Chattopadhyay	IITKGP	12 Weeks	3	UG

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279	Electrical Engineering	An Introduction to Information Theory	Prof. Adrish Banerjee	IITK	8 Weeks	2	UG/PG
280	Electrical Engineering	Applied Linear Algebra	Prof. Dwaipayan Mukherjee	IITB	12 Weeks	3	PG
281	Electrical Engineering	Biomedical Signal Processing	Prof. Sudipta Mukhopadhyay	IITKGP	12 Weeks	3	UG/PG
282	Electrical Engineering	Computer-Aided Design of Electrical Machines	Prof. Bhim Singh	IITD	12 Weeks	3	PG
283	Electrical Engineering	Digital Communication using GNU Radio	Prof. Kumar Appaiah	IITB	12 Weeks	3	UG/PG
284	Electrical Engineering	Digital Electronic Circuits	Prof. Goutam Saha	IITKGP	12 Weeks	3	UG
285	Electrical Engineering	Electrical Machines - II	Prof. Tapas Kumar Bhattacharya	IITKGP	12 Weeks	3	UG
286	Electrical Engineering	Evolution Of Air Interface Towards 5G	Prof. Suvra Sekhar Das	IITKGP	8 Weeks	2	UG/PG
287	Electrical Engineering	Facts Devices	Prof. Avik Bhattacharya	IITR	8 Weeks	2	PG
288	Electrical Engineering	IC Design for Wireless Systems	Prof. Abhishek Kumar	IIT Hyderabad	12 Weeks	3	UG/PG
289	Electrical Engineering	Industrial Automation And Control	Prof. Alokanti Deb	IITKGP	12 Weeks	3	UG/PG
290	Electrical Engineering	Medical Image Analysis	Prof. Debdoot Sheet	IITKGP	4 Weeks	1	UG/PG

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291	Electrical Engineering	Modeling, Analysis and Estimation of Three Phase Unbalanced Power Network	Prof. Biswarup Das	IITR	12 Weeks	3	PG
292	Electrical Engineering	Network Analysis	Prof. Tapas Kumar Bhattacharya	IITKGP	12 Weeks	3	UG
293	Electrical Engineering	Optical Wireless Communications for Beyond 5G Networks and IoT	Prof. Anand Srivastava	IITD	12 Weeks	3	UG/PG
294	Electrical Engineering	Power Quality	Prof. Bhim Singh	IITD	12 Weeks	3	UG/PG
295	Electrical Engineering	Power System Engineering	Prof. Debapriya Das	IITKGP	12 Weeks	3	UG
296	Electrical Engineering	State space Approach to Control System Analysis and Design	Prof A P Tiwari	IIT Mandi	12 Weeks	3	PG
297	Electrical Engineering	VLSI Signal Processing	Prof. Mrityunjoy Chakraborty	IITKGP	8 Weeks	2	UG/PG
298	Electrical Engineering	Digital Protection of Power System	Prof. Bhaveshkumar R. Bhalja	IITR	8 Weeks	2	PG
299	Electrical Engineering	Control System Design	Prof G R Jayanth	IISc	12 Weeks	3	UG/PG

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300	Electronics & Communication, Microwave/RF, Physics	Basics of Semiconductor Microwave Devices	Prof Digbijoy N Nath	IISc	12 Weeks	3	UG/PG
301	Electronics and Communication	Physics of Nanoscale Devices	Prof. Vishvendra Singh Poonia	IITR	12 Weeks	3	UG/PG
302	Electronics and Communication Engineering	Communication Networks	Prof. Gautam Das	IITKGP	12 Weeks	3	PG
303	Electronics and Communication Engineering	Fundamentals Of MIMO Wireless Communication	Prof. Suvra Sekhar Das	IITKGP	8 Weeks	2	UG/PG
304	Electronics and Communication Engineering	Integrated Circuits and Applications	Prof. Shaik Rafi Ahamed	IITG	12 Weeks	3	UG
305	Electronics and Communication Engineering	Millimeter Wave Technology	Prof. Mrinal Kanti Mandal	IITKGP	8 Weeks	2	PG
306	Electronics and Communication Engineering	RF Receiver Design	Prof. Darshak Bhatt	IITR	12 Weeks	3	UG/PG
307	Electronics and Communication Engineering	Signal Processing Techniques and its Applications	Prof. Shyamal Das Mandal	IITKGP	12 Weeks	3	UG/PG



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308	Electronics and Communications	Network Theory	Shouri Chatterjee	IITD	12 Weeks	3	UG
309	Electronics and Electrical Engineering	VLSI Physical Design with Timing Analysis	Prof. Bishnu Prasad Das	IITR	12 Weeks	3	UG/PG
310	Electronics Engineering, Electrical Engineering	Electronics and IoT Design Workshop	Prof. Dhananjay V. Gadre	Netaji Subhas University of Technology	12 Weeks	3	UG/PG
311	Engineering	Games and Information	Prof. Ankur A. Kulkarni	IITB	12 Weeks	3	PG
312	General/Mapping Science/Scientometrics/Humanities & Social Sciences/Library & Information Science/Information Systems & Services	Science Communication: Research Productivity and Data Analytics using Open Source Software	Prof. Nabi Hasan Prof. Mohit Garg	IITD	12 Weeks	3	PG
313	Humanities & Social Sciences	Petroleum Economics and Management	Prof. Anwasha Aditya	IITKGP	12 Weeks	3	UG/PG
314	Humanities and Social Science	Advanced Level of Spoken Sanskrit	Prof. Anuradha Choudry	IITKGP	8 Weeks	2	PG
315	humanities and Social Science	Education for Sustainable Development	Prof. Atasi Mohanty	IITKGP	12 Weeks	3	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
316	Humanities and Social Science	Elements of Literature and Creative Communication	Prof. H S Komalesha	IITKGP	12 Weeks	3	UG
317	Humanities and Social Science	Emotional Intelligence	Prof. Rabindra Kumar Pradhan	IITKGP	8 Weeks	2	UG/PG
318	Humanities and Social Science	Introduction On Intellectual Property To Engineers And Technologists	Prof. Tapas Kumar Bandyopadhyay	IITKGP	8 Weeks	2	UG/PG
319	Humanities and Social Science	Legal Compliance For Incorporating Startup	Prof. Indrajit Dube	IITKGP	4 Weeks	1	UG/PG
320	Humanities and Social Science	Speaking Effectively	Prof. Anjali Gera Roy	IITKGP	8 Weeks	2	UG
321	Humanities and Social Science	Strategic Performance Management	Prof. Kbl Srivastava	IITKGP	8 Weeks	2	PG
322	Humanities and Social Science	Technology Transfer Through Joint Venture	Prof. Indrajit Dube	IITKGP	4 Weeks	1	UG/PG
323	humanities and Social Science	Training and Development	Prof. Susmita Mukhopadyay Prof. S. Srinivasan	IITKGP	12 Weeks	3	UG/PG
324	Humanities and Social Sciences	Development of Sociology in India	Prof. Ashish Saxena	IITK	4 Weeks	1	PG
325	Humanities and Social Sciences	Great Experiments In Psychology	Prof. Rajlakshmi Guha	IITKGP	4 Weeks	1	PG

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326	Humanities and Social Sciences	Soft Skill Development	Prof. Priyadarshi Patnaik Prof. V. N. Giri Prof. D. Suar	IITKGP	8 Weeks	2	UG/PG
327	Humanities and Social Sciences	The Science of Happiness and Wellbeing	Prof. Priyadarshi Patnaik Prof. Manas K Mandal	IITKGP	8 Weeks	2	UG/PG
328	Humanities and Social Sciences	An Introduction to Microeconomics	Prof. Vimal Kumar	IITK	12 Weeks	3	PG
329	Humanities and social sciences	Appreciating Hindustani Music	Prof. Lakshmi Sreeram Prof. Srijan Deshpande	IITM	8 Weeks	2	UG
330	Humanities and Social Sciences	Basics of language Science	Prof. Rajesh Kumar	IITM	12 Weeks	3	UG/PG
331	Humanities and Social Sciences	Bilingualism: A cognitive and psycholinguistic perspective	Prof. Bidisha Som	IITG	8 Weeks	2	UG/PG
332	Humanities and Social Sciences	Contextualizing Gender	Prof. Rashmi Gaur	IITR	12 Weeks	3	UG/PG
333	Humanities and Social Sciences	Economic Growth And Development	Prof. Rajshree Bedamatta	IITG	8 Weeks	2	UG/PG
334	Humanities and Social Sciences	Effective Writing	Prof. Binod Mishra	IITR	4 Weeks	1	UG/PG

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335	Humanities and Social Sciences	Energy Resources, Economics and Environment	Prof. Rangan Banerjee	IITD	12 Weeks	3	UG/PG
336	Humanities and Social Sciences	English Literature of the Romantic Period, 1798-1832	Prof. Pramod K Nayar	University of Hyderabad	8 Weeks	2	UG/PG
337	Humanities and Social Sciences	Enhancing Soft Skills and Personality	Prof. T. Ravichandran	IITK	8 Weeks	2	UG/PG
338	Humanities and Social Sciences	Exploring Survey Data on Health Care	Prof. Pratap C. Mohanty	IITR	8 Weeks	2	UG/PG
339	Humanities and Social Sciences	Feminism : Concepts and Theories	Prof. Mathangi Krishnamurthy	IITM	12 Weeks	3	UG
340	Humanities and Social Sciences	German - I	Prof. Milind Brahme	IITM	12 Weeks	3	UG
341	Humanities and Social Sciences	German - II	Prof. Milind Brahme	IITM	12 Weeks	3	UG
342	Humanities and Social Sciences	German - III	Prof. Milind Brahme	IITM	12 Weeks	3	UG/PG
343	Humanities and Social Sciences	Globalization: Theoretical Perspectives	Prof. R. Santhosh	IITM	12 Weeks	3	PG
344	Humanities and Social Sciences	Group Dynamics	Prof. Pooja Garg	IITR	8 Weeks	2	UG
345	Humanities and Social Sciences	Health Research Fundamentals	Prof. P. Manickam	NIE	8 Weeks	2	UG

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346	Humanities And Social Sciences	Human Behaviour	Prof. Naveen Kashyap	IITG	8 Weeks	2	PG
347	Humanities and Social Sciences	Indian Feminisms: Concepts and Issues	Prof. Anandita Pan	IISER Bhopal	4 Weeks	1	UG/PG
348	Humanities and Social Sciences	Indian Poetry in English	Prof. Binod Mishra	IITR	8 Weeks	2	UG/PG
349	Humanities and Social Sciences	Intellectual Property	Prof. Feroz Ali	IITM	12 Weeks	3	UG/PG
350	Humanities And Social Sciences	Introduction To Cognitive Psychology	Prof. Naveen Kashyap	IITG	12 Weeks	3	UG/PG
351	Humanities and Social Sciences	Introduction to Cultural Studies	Prof. Avishek Parui	IITM	12 Weeks	3	PG
352	Humanities and Social Sciences	Introduction to Environmental Economics	Prof. Diptimayee Nayak & Prof. S. P. Singh	IITR	12 Weeks	3	UG/PG
353	Humanities And Social Sciences	Introduction To Modern Indian Drama	Prof. Kiran Keshavamurthy	IITG	8 Weeks	2	PG
354	Humanities And Social Sciences	Introduction To Modern Indian Political Thought	Prof. Mithilesh Kumar Jha	IITG	12 Weeks	3	UG/PG
355	Humanities and social sciences	Introduction to Pāṇinian grammar	Prof. Malhar Kulkarni	IITB	12 Weeks	3	UG
356	Humanities And Social Sciences	Introduction To Political Theory	Prof. Mithilesh Kumar Jha	IITG	12 Weeks	3	UG
357	Humanities and Social Sciences	Introduction to Psychology	Prof. Braj Bhushan	IITK	8 Weeks	2	UG

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358	Humanities and Social Sciences	Introduction to World Literature	Prof. Merin Simi Raj	IITM	12 Weeks	3	PG
359	Humanities and Social Sciences	Japani Bhasha - Saral swaroop	Prof. Vatsala Misra	IITK	12 Weeks	3	UG/PG
360	Humanities and Social Sciences	Language and Mind	Prof. Rajesh Kumar	IITM	8 Weeks	2	UG
361	Humanities And Social Sciences	Language, Culture And Cognition: An Introduction	Prof. Bidisha Som	IITG	8 Weeks	2	UG/PG
362	Humanities and Social Sciences	Literary Criticism (From Plato to Leavis)	Prof. Merin Simi Raj	IITM	12 Weeks	3	PG
363	Humanities and Social Sciences	Literature and Coping Skills	Prof. Ajit K Mishra	IIT(BHU) Varanasi	8 Weeks	2	UG/PG
364	Humanities and Social Sciences	Literature and Life	Prof. S P Dhanavel	IITM	12 Weeks	3	UG
365	Humanities and Social Sciences	Literature, Culture and Media	Prof. Rashmi Gaur	IITR	12 Weeks	3	UG/PG
366	Humanities and Social Sciences	Modern Indian Writing in Translation	Prof. Divya A	IITM	12 Weeks	3	UG/PG
367	Humanities and Social Sciences	Narrative Mode and Fiction	Prof. Sarbani Banerjee	IITR	12 Weeks	3	UG/PG
368	Humanities and Social Sciences	Nation and Narration	Dr. Sreenath V.S Dr. Anandita Pan	IISER Bhopal	8 Weeks	2	PG
369	Humanities and Social Sciences	Online Communication in the Digital Age	Prof. Rashmi Gaur	IITR	12 Weeks	3	UG/PG

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370	Humanities and Social Sciences	Patent Drafting for Beginners	Prof. Feroz Ali	IITM	4 Weeks	1	UG/PG
371	Humanities and Social Sciences	Patent Law for Engineers and Scientists	Prof. Feroz Ali	IITM	12 Weeks	3	UG/PG
372	Humanities And Social Sciences	Philosophical Foundations Of Social Research	Prof. Sambit Mallick	IITG	8 Weeks	2	UG/PG
373	Humanities And Social Sciences	Phonetics And Phonology: A Broad Overview	Prof. Shakuntala Mahanta	IITG	8 Weeks	2	UG
374	Humanities and Social Sciences	Psychiatry - An Overview and How the Brain Creates Mind	Prof. Alok Bajpai	IITK	8 Weeks	2	UG/PG
375	Humanities and Social Sciences	Psychology of Emotion: Theory and Applications	Dr. Dilwar Hussain	IITG	12 Weeks	3	UG/PG
376	Humanities And Social Sciences	Psychology Of Stress, Health And Well-Being	Prof. Dilwar Hussain	IITG	12 Weeks	3	UG/PG
377	Humanities and Social Sciences	Reading India's Partition: Movement, Memory and Migration	Prof. Anuparna Mukherjee	IISER Bhopal	8 Weeks	2	PG
378	Humanities And Social Sciences	Sociological Perspectives On Modernity	Prof. Sambit Mallick	IITG	12 Weeks	3	UG/PG
379	Humanities and Social Sciences	The Nineteenth - Century English Novel	Prof. Divya A	IITM	12 Weeks	3	PG

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380	Humanities and Social Sciences	Trauma and Literature	Prof. Avishek Parui	IITM	12 Weeks	3	PG
381	Humanities and Social Sciences	Twentieth Century Fiction	Prof. Avishek Parui	IITM	12 Weeks	3	UG/PG
382	Humanities and Social Sciences	United Nations Sustainable Development Goals (UN SDGs)	Prof. Shiva Ji	IITH	12 Weeks	3	UG/PG
383	Humanities and Social Sciences	समास samāsa in Pāṇinian grammar- I	Prof. Malhar Kulkarni	IITB	12 Weeks	3	UG
384	Humanities and Social Sciences	Perspectives in English Studies	Prof Hemachandran Karah	IITM	12 Weeks	3	UG
385	Humanities and Social Sciences(Economics, Development Studies)	Economics of Health and Education	Rajshree Bedamatta	IITG	12 Weeks	3	UG/PG
386	Hydro and Renewable Energy	Energy Resources, Economics, and Sustainability	Prof. Pratham Arora	IITR	8 Weeks	2	UG/PG
387	Information Systems	Business Intelligence & Analytics	Prof. Saji K Mathew	IITM	12 Weeks	3	PG
388	Interdisciplinary	Urban ecological heritagescapes through interactive governance: Theories and applications	Dr Jenia Mukherjee	IITKGP	4 Weeks	1	UG/PG
389	Interdisciplinary/English	Vulnerability Studies: An Introduction	Prof. Pramod K Nayar	IITM	8 Weeks	2	UG/PG



S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
390	Law	Advanced Contracts, Tendering and Public Procurement	Prof. Sairam Bhat	NLSIU	12 Weeks	3	UG/PG
391	Law	IP Management & Technology Transfer	Prof. Gouri Gargate	IITKGP	8 Weeks	2	UG/PG
392	Law/ Public Administration/ Public Policy	Constitution Law and Public Administration in India	Prof. Sairam Bhat	IITM	12 Weeks	3	UG/PG
393	Management	Infrastructure Economics	Prof. Nalin Bharti	IIT Patna	8 Weeks	2	UG/PG
394	Management	Systems Engineering: Theory & Practice	Prof. Deepu Philip	IITK	8 Weeks	2	UG/PG
395	Management	Advances in Strategic Human Resource Management (HRM)	Prof. Ashish Pandey	IITB	4 Weeks	1	UG/PG
396	Management	AI in Marketing	Prof. Zillur Rahman	IITR	12 Weeks	3	PG
397	Management	Artificial Intelligence (AI) for Investments	Prof. Abhinava Tripathi	IITK	12 Weeks	3	UG/PG
398	Management	Behavioral And Personal Finance	Prof. Abhijeet Chandra	IITKGP	8 Weeks	2	UG/PG
399	Management	Business analytics and data mining Modeling using R	Prof. Gaurav Dixit	IITR	12 Weeks	3	UG/PG
400	Management	Business Analytics For Management Decision	Prof. Rudra P Pradhan	IITKGP	12 Weeks	3	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
401	Management	Business Development: From Start to Scale	Prof. C Bhaktavatsala Rao	IITM	12 Weeks	3	UG/PG
402	Management	Business Law for Managers	Prof. S Srinivasan Prof. Kaushik Mukherjee	IITKGP	8 Weeks	2	UG/PG
403	Management	Business Statistics	Prof. Mukesh Kumar Barua	IITR	12 Weeks	3	UG/PG
404	Management	Consumer Behaviour	Prof. Srabanti Mukherjee	IITKGP	8 Weeks	2	UG/PG
405	Management	Data Analysis and Decision Making - I	Prof. Raghu Nandan Sengupta	IITK	12 Weeks	3	PG
406	Management	Decision making with spreadsheet	Prof. A Ramesh	IITR	12 Weeks	3	UG/PG
407	Management	Design Thinking - A Primer	Prof. Ashwin Mahalingam Prof. Bala Ramadurai	IITM	4 Weeks	1	UG/PG
408	Management	E-Business	Prof. Mamata Jenamani	IITKGP	12 Weeks	3	UG
409	Management	Ethics In Engineering Practice	Prof. Susmita Mukhopadhyay	IITKGP	8 Weeks	2	UG/PG
410	Management	Financial accounting - IITMandi	Prof. Puran Singh	IIT Mandi	12 Weeks	3	UG/PG
411	Management	Financial Derivatives & Risk Management	Prof. J. P. Singh	IITR	12 Weeks	3	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
412	Management	Financial Institutions And Markets	Prof. Jitendra Mahakud	IITKGP	12 Weeks	3	UG/PG
413	Management	Financial Management For Managers	Prof. Anil K. Sharma	IITR	12 Weeks	3	UG/PG
414	Management	Financial Statement Analysis and Reporting	Prof. Anil K. Sharma	IITR	12 Weeks	3	UG/PG
415	Management	Foundation Course In Managerial Economics	Prof. Barnali Nag	IITKGP	8 Weeks	2	UG/PG
416	Management	Global Marketing Management	Prof. Zillur Rahman	IITR	12 Weeks	3	UG/PG
417	Management	Innovation in Marketing and Marketing of Innovation	Prof. Vinay Sharma	IITR	12 Weeks	3	UG/PG
418	Management	Integrated Marketing Communication	Prof. Vinay Sharma	IITR	12 Weeks	3	UG/PG
419	Management	Integrated Marketing Management	Prof. R. Srinivasan	IISc	8 Weeks	2	PG
420	Management	International Business	Prof. Jogendra Kumar Nayak	IITR	12 Weeks	3	UG/PG
421	Management	International Marketing	Prof. Biswarup Ghosh	IITKGP	8 Weeks	2	PG
422	Management	Introduction to Operations Research	Prof. G. Srinivasan	IITM	8 Weeks	2	UG/PG
423	Management	Introduction to probability and Statistics	Prof. G. Srinivasan	IITM	4 Weeks	1	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
424	Management	Introduction to Stochastic Processes	Prof. Manjesh Hanawal	IITB	12 Weeks	3	PG
425	Management	Introduction to System Dynamics Modeling	Prof. Jayendran Venkateswaran	IITB	8 Weeks	2	UG/PG
426	Management	Investment Management	Prof. Abhijeet Chandra	IITKGP	8 Weeks	2	UG/PG
427	Management	Leadership and Team Effectiveness	Prof. Santosh Rangnekar	IITR	12 Weeks	3	UG/PG
428	Management	Leadership for India Inc: Practical Concepts and Constructs	Prof. C Bhaktavatsala Rao	IITM	12 Weeks	3	PG
429	Management	Management of Field Sales	Prof. Jayanta Chatterjee	IITK	4 Weeks	1	UG/PG
430	Management	Managing Change In Organizations	Prof. Kbl Srivastava	IITKGP	8 Weeks	2	UG/PG
431	Management	Mergers, Acquisitions and Corporate Restructuring	Prof. Chandra Sekhar Mishra	IITKGP	8 Weeks	2	PG
432	Management	Marketing Analytics	Prof. Swagato Chatterjee	IITKGP	12 Weeks	3	PG
433	Management	Marketing Management - II	Prof. Jayanta Chatterjee & Prof. Shashi Shekhar Mishra	IITK	8 Weeks	2	UG/PG
434	Management	Marketing Research and Analysis-II	Prof. Jogendra Kumar Nayak	IITR	12 Weeks	3	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
435	Management	MCDM Techniques Using R	Prof. Gaurav Dixit	IITR	4 Weeks	1	UG/PG
436	Management	Modelling And Analytics For Supply Chain Management	Prof. Kunal Kanti Ghosh Prof. Anupam Ghosh	IITKGP	12 Weeks	3	PG
437	Management	Organizational Behaviour: Individual Dynamics in Organization	Dr. Abraham Cyril Issac	IITG	12 Weeks	3	PG
438	Management	Organizational Design Change and Transformation	Prof. Susmita Mukhopadhyay Prof. Sangeeta Sahney Prof. S. Srinivasan	IITKGP	12 Weeks	3	UG/PG
439	Management	Principles of Management	Prof. Usha Lenka	IITR	12 Weeks	3	UG/PG
440	Management	Production and Operation Management	Prof. Rajat Agrawal	IITR	12 Weeks	3	PG
441	Management	Quality Control and Improvement with MINITAB	Prof. Indrajit Mukherjee	IITB	8 Weeks	2	PG
442	Management	Quality Design And Control	Prof. Pradip Kumar Ray	IITKGP	12 Weeks	3	UG/PG
443	Management	Retail Management	Prof. Swagato Chatterjee	IITKGP	8 Weeks	2	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
444	Management	Safety and Risk Analytics	Prof. Jhareswar Maiti	IITKGP	12 Weeks	3	UG/PG
445	Management	Sales And Distribution Management	Prof. Sangeeta Sahney	IITKGP	8 Weeks	2	UG/PG
446	Management	Services Marketing: Integrating People, Technology, Strategy	Prof. Zillur Rahman	IITR	8 Weeks + 4 Weeks (New)	3	PG
447	Management	Simulation of Business Systems: An Applied Approach	Prof. Deepu Philip	IITK	8 Weeks	2	UG/PG
448	Management	Six Sigma	Prof. Jitesh J Thakkar	IITKGP	12 Weeks	3	UG/PG
449	Management	Strategic Services Marketing	Prof. Kalpak Kulkarni	IITR	12 Weeks	3	UG/PG
450	Management	Strategic Sourcing	Prof. Arshinder Kaur	IITM	12 Weeks	3	PG
451	Management	Supply Chain Analytics	Prof. Rajat Agrawal	IITR	8 Weeks	2	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
452	Management	Supply Chain Digitization	Prof. Priyanka Verma Prof. Sushmita Narayana Prof. Debabrata Das	National Institute of Industrial Engineering (NITIE), Mumbai	12 Weeks	3	PG
453	Management	Talent Acquisition and Management	Prof. Santosh Rangnekar	IITR	12 Weeks	3	UG/PG
454	Management	Technology Forecasting for strategic decision making - An Introduction	Prof. Dmitry Kucharavy Prof. Bala Ramadurai	EM Strasbourg Business School (University of Strasbourg) and IITM	4 Weeks	1	PG
455	Management	Management of New Products and Services	Prof. Jayanta Chatterjee	IITK	4 Weeks	1	PG

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456	Management	Yoga and Positive Psychology for Managing Career and Life	Prof. Ashish Pandey	IITB	8 Weeks	2	UG/PG
457	Management	Management of Inventory Systems	Prof. P K Ray	IITKGP	12 Weeks	3	UG/PG
458	Management (Primary) Computer Science (Secondary) Mathematics (Secondary)	Business Forecasting	Prof. Pankaj Dutta	IITB	8 Weeks	2	UG/PG
459	Management & Entrepreneurship	Business Fundamentals for Entrepreneurs (Part 2: Internal Operation)	Prof. Devdip Purkayastha	IITB	4 Weeks	1	UG/PG
460	Materials Science & Engineering	Corrosion Protection Methods	Prof. Kallol Mondal	IITK	8 Weeks	2	UG
461	Mathematics	Advanced Computational Techniques	Prof. Somnath Bhattacharyya	IITKGP	4 Weeks	1	UG/PG
462	Mathematics	Advanced Course on Partial Differential Equations - II	Prof. A K Nandakumaran Prof. P.S. Datti	IISc	12 Weeks	3	PG
463	Mathematics	Advanced Engineering Mathematics	Prof. H S Mahato	IITKGP	12 Weeks	3	UG
464	Mathematics	Advanced Linear Algebra	Prof. Premananda Bera	IITR	12 Weeks	3	PG



S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
465	Mathematics	Advanced Probability Theory	Prof. Niladri Chatterjee	IITD	12 Weeks	3	UG/PG
466	Mathematics	Algebra - II	Prof. Sankaran Viswanath Prof. Amritanshu Prasad	IMSc	12 Weeks	3	PG
467	Mathematics	Algebraic Combinatorics	Prof. Amritanshu Prasad Prof. Sankaran Viswanath	IMSc	12 Weeks	3	UG/PG
468	Mathematics	An Introduction to Hyperbolic Geometry	Prof. Abhijit Pal	IITK	12 Weeks	3	PG
469	Mathematics	An introduction to Point-Set-Topology Part-I	Prof. Anant R Shastri	IITB	12 Weeks	3	UG
470	Mathematics	An invitation to Topology	Prof. Indrava Roy	IMSc	12 Weeks	3	UG
471	Mathematics	Applied Linear Algebra in AI and ML	Prof. Swanand Khare	IITKGP	12 Weeks	3	UG/PG
472	Mathematics	Basic Calculus - 1	Prof. Arindama Singh	IITM	12 Weeks	3	UG
473	Mathematics	Basic Linear Algebra	Prof. I.K.Rana	IITB	8 Weeks	2	UG
474	Mathematics	Basic Real Analysis	Prof. I. K. Rana	IITB	12 Weeks	3	UG

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475	Mathematics	Computational Mathematics with SageMath	Prof. Ajit Kumar	Institute of Chemical Technology, Mumbai	12 Weeks	3	UG/PG
476	Mathematics	Dynamical System and Control	Prof. N. Sukavanam, Prof. D. N Pandey	IITR	12 Weeks	3	UG/PG
477	Mathematics	Engineering Mathematics II	Prof. Jitendra Kumar	IITKGP	12 Weeks	3	UG
478	Mathematics	Essentials Of Data Science With R Software - 1: Probability And Statistical Inference	Prof. Shalabh	IITK	12 Weeks	3	UG/PG
479	Mathematics	Essentials Of Data Science With R Software - 2: Sampling Theory And Linear Regression Analysis	Prof. Shalabh	IITK	12 Weeks	3	UG/PG
480	Mathematics	First Course on Partial Differential Equations - I	Prof. A. K. Nandakumaran Prof. P. S. Datti	IISc	8 Weeks	2	PG
481	Mathematics	Fourier Analysis and its applications	Prof. G. K Srinivasan	IITB	12 Weeks	3	PG

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482	Mathematics	Functional Analysis	Prof. Kesavan	IMSc	12 Weeks	3	PG
483	Mathematics	Graph Theory	Prof. Soumen Maity	IISER PUNE	8 Weeks	2	UG/PG
484	Mathematics	Introduction to Algebraic Geometry and Commutative Algebra	Prof. Dilip P. Patil	IISc	12 Weeks	3	UG/PG
485	Mathematics	Introduction to Galois Theory	Prof. Krishna Hanumanthu	CMI	8 Weeks	2	UG/PG
486	Mathematics	Introduction to Group Theory	Prof. R. Venkatesh	IISc	12 Weeks	3	UG
487	Mathematics	Introduction to Lie algebras	R. Venkatesh	IISc	12 Weeks	3	PG
488	Mathematics	Introduction To Queueing Theory	Prof. N. Selvaraju	IITG	12 Weeks	3	UG/PG
489	Mathematics	Introduction To Rings And Fields	Prof. Krishna Hanumanthu	CMI	8 Weeks	2	PG
490	Mathematics	Introduction to Statistics	Prof. Sameen Naqvi	IIT Hyderabad	12 Weeks	3	UG/PG
491	Mathematics	Linear Algebra	Prof. Pranav Haridas	Kerala School of Mathematics	12 Weeks	3	UG

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492	Mathematics	Mathematical Modelling: Analysis and Applications	Prof. Ameeya Kumar Nayak	IITR	4 Weeks	1	UG/PG
493	Mathematics	Multivariable Calculus	Prof. S. K. Gupta & Prof. Sanjeev Kumar	IITR	8 Weeks	2	UG
494	Mathematics	Numerical Analysis	Prof. S. Baskar	IITB	12 Weeks	3	UG/PG
495	Mathematics	Numerical Linear Algebra	Prof. P.N. Agrawal, Prof. D. N Pandey	IITR	12 Weeks	3	UG/PG
496	Mathematics	Numerical Methods: Finite difference approach	Prof. Ameeya Kumar Nayak	IITR	4 Weeks	1	PG
497	Mathematics	Ordinary and Partial Differential Equations and Applications	Prof. P.N. Agrawal, Prof. D. N Pandey	IITR	12 Weeks	3	UG
498	Mathematics	Probabilistic Methods in PDE	Prof. Anindya Goswami	IISER Pune	12 Weeks	3	PG
499	Mathematics	Probability And Statistics	Prof. Somesh Kumar	IITKGP	12 Weeks	3	UG/PG
500	Mathematics	Probability –I with Examples Using R	Prof. Siva Athreya	ISI Bangalore	12 Weeks	3	UG
501	Mathematics	Scientific Computing using Matlab	Prof. Mani Mehra Prof. Vivek K. Aggarwal	IITD	12 Weeks	3	UG/PG

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502	Mathematics	Set Theory and Mathematical Logic	Prof. Amit Kuber	IITK	12 Weeks	3	UG
503	Mathematics	Statistical Inference	Prof. Niladri Chatterjee	IITD	8 Weeks	2	UG/PG
504	Mathematics and Statistics	Probability Theory for Data Science	Dr. Ishapathik Das	IIT Tirupati	12 Weeks	3	UG
505	ME, CH, AE, MM	Applied Thermodynamics	Prof. V. Raghavan	IITM	12 Weeks	3	UG
506	Mechanical Engineering	Experimental Stress Analysis	Prof. K. Ramesh	IITM	12 Weeks	3	UG/PG
507	Mechanical Engineering	Acoustic Materials And Metamaterials	Prof. Sneha Singh	IITR	8 Weeks	2	PG
508	Mechanical Engineering	Automatic Control	Prof. Anil Kumar	IITR	8 Weeks	2	UG/PG
509	Mechanical Engineering	Convective Heat Transfer	Prof. Arup Kumar Das	IITR	4 Weeks	1	UG
510	Mechanical Engineering	Failure Analysis And Prevention	Prof. D. K. Dwivedi	IITR	8 Weeks	2	UG/PG
511	Mechanical Engineering	Financial Mathematics	Prof. P. K. Jha	IITR	12 Weeks	3	UG/PG
512	Mechanical Engineering	Inspection And Quality Control In Manufacturing	Prof. Kaushik Pal	IITR	4 Weeks	1	UG/PG
513	Mechanical Engineering	Manufacturing Guidelines For Product Design	Prof. Inderdeep Singh	IITR	8 Weeks	2	UG/PG
514	Mechanical Engineering	Mechanical Measurement Systems	Prof. Ravi Kumar	IITR	8 Weeks	2	UG/PG

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515	Mechanical Engineering	Mechatronics	Prof. Pushparaj Mani Pathak	IITR	8 Weeks	2	UG/PG
516	Mechanical Engineering	Modelling And Simulation Of Dynamic Systems	Prof. Pushparaj Mani Pathak	IITR	8 Weeks	2	UG/PG
517	Mechanical Engineering	Operations Management	Prof. Inderdeep Singh	IITR	12 Weeks	3	UG/PG
518	Mechanical Engineering	Principles Of Casting Technology	Prof. P. K. Jha	IITR	8 Weeks	2	UG/PG
519	Mechanical Engineering	Principles Of Industrial Engineering	Prof. D. K. Dwivedi	IITR	12 Weeks	3	UG
520	Mechanical Engineering	Robotics and Control : Theory and Practice	Prof. N. Sukavanam, Prof. M. Felix Orlando	IITR	8 Weeks	2	UG/PG
521	Mechanical Engineering	Steam And Gas Power Systems	Prof. Ravi Kumar	IITR	8 Weeks	2	UG/PG
522	Mechanical Engineering	Surface Engineering Of Nanomaterials	Prof. Kaushik Pal	IITR	8 Weeks	2	UG/PG
523	Mechanical Engineering	Two Phase Flow And Heat Transfer	Prof. Arup Kumar Das	IITR	4 Weeks	1	UG/PG
524	Mechanical Engineering	Introduction to Soft Matter	Prof. Alope Kumar	IISc	8 Weeks	2	UG/PG
525	Mechanical Engineering	Robotics: Basics and Selected Advanced Concepts	Prof. Ashitava Ghosal	IISc	12 Weeks	3	UG/PG

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526	Mechanical Engineering	Advanced Robotics	Prof. Ashish Dutta	IITK	12 Weeks	3	UG/PG
527	Mechanical Engineering	Basics of Finite Element Analysis - II	Prof. Nachiketa Tiwari	IITK	8 Weeks	2	UG/PG
528	Mechanical Engineering	Computational Fluid Dynamics For Incompressible Flows	Prof. Amaresh Dalal	IITG	12 Weeks	3	UG/PG
529	Mechanical Engineering	Computer Integrated Manufacturing	Prof. J. Ramkumar Prof. Amandeep Singh	IITK	12 Weeks	3	UG/PG
530	Mechanical Engineering	Design Practice	Prof. Shantanu Bhattacharya	IITK	8 Weeks	2	UG/PG
531	Mechanical Engineering	Dynamics and Control of Mechanical Systems	Prof. Ashitava Ghosal	IISc	12 Weeks	3	UG/PG
532	Mechanical Engineering	Evolutionary Computation For Single And Multi-Objective Optimization	Prof. Deepak Sharma	IITG	8 Weeks	2	PG
533	Mechanical Engineering	Explosions and Safety	Prof. K. Ramamurthi Prof. Prasad Patnaik BSV	IITM	12 Weeks	3	UG/PG
534	Mechanical Engineering	Finite Element Modeling Of Welding Processes	Prof. Swarup Bag	IITG	12 Weeks	3	UG/PG

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535	Mechanical Engineering	Fundamental Of Welding Science And Technology	Prof. Pankaj Biswas	IITG	8 Weeks	2	UG/PG
536	Mechanical Engineering	Fundamentals of Combustion	Prof. V. Raghavan	IITM	12 Weeks	3	UG/PG
537	Mechanical Engineering	Fundamentals of combustion for propulsion	Prof. S.Varunkumar Prof. H.S.Mukunda	IITM IISc Bangalore	8 Weeks	2	PG
538	Mechanical Engineering	Fundamentals Of Compressible Flow	Prof. Niranjana Sahoo	IITG	12 Weeks	3	UG/PG
539	Mechanical Engineering	Heat Transfer and Combustion in Multiphase Systems	Prof. Saptarshi Basu	IISc	8 Weeks	2	UG/PG
540	Mechanical Engineering	IC Engines And Gas Turbines	Prof. Pranab K. Mondal, Prof. Vinayak N. Kulkarni	IITG	12 Weeks	3	UG/PG
541	Mechanical Engineering	Introduction to Abrasive Machining and Finishing Processes	Prof. Mamilla Ravi Sankar	IIT Tirupati	8 Weeks	2	UG/PG
542	Mechanical Engineering	Introduction To Fluid Mechanics	Prof. Suman Chakraborty	IITKGP	12 Weeks	3	UG
543	Mechanical Engineering	Introduction to Machining and Machining Fluids	Prof. Mamilla Ravi Sankar	IIT Tirupati	8 Weeks	2	UG/PG



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544	Mechanical Engineering	Introduction To Mechanical Micro Machining	Prof. Ajay M Sidpara	IITKGP	12 Weeks	3	UG/PG
545	Mechanical Engineering	INTRODUCTION TO UNCERTAINTY ANALYSIS AND EXPERIMENTATION	Prof. S.R. Kale	IITD	8 Weeks	2	UG/PG
546	Mechanical Engineering	Kinematics Of Mechanisms And Machines	Prof. Anirvan Dasgupta	IITKGP	8 Weeks	2	UG/PG
547	Mechanical Engineering	Machinery Fault Diagnosis And Signal Processing	Prof. Amiya Ranjan Mohanty	IITKGP	12 Weeks	3	PG
548	Mechanical Engineering	Machining Science	Prof. Sounak Kumar Choudhury	IITK	4 Weeks	1	PG
549	Mechanical Engineering	Manufacturing Automation	Prof. Sounak Kumar Choudhury	IITK	4 Weeks	1	UG
550	Mechanical Engineering	Manufacturing Process Technology I & II	Prof. Shantanu Bhattacharya	IITK	12 Weeks	3	UG/PG
551	Mechanical Engineering	Mechanics Of Fiber Reinforced Polymer Composite Structures	Prof. Debabrata Chakraborty	IITG	12 Weeks	3	UG/PG
552	Mechanical Engineering	Mechanics Of Machining	Prof. Uday S. Dixit	IITG	8 Weeks	2	UG/PG
553	Mechanical Engineering	Mechanics of Sheet Metal Forming	Prof. R Ganesh Narayanan	IITG	8 Weeks	2	UG/PG

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554	Mechanical Engineering	Nature and Properties of Materials	Prof. Bishakh Bhattacharya	IITK	8 Weeks	2	UG
555	Mechanical Engineering	Noise Management & Control	Prof. Nachiketa Tiwari	IITK	12 Weeks	3	PG
556	Mechanical Engineering	Nonlinear Vibration	Prof. S. K. Dwivedy	IITG	12 Weeks	3	UG/PG
557	Mechanical Engineering	Oil Hydraulics and Pneumatics	Prof. Somashekhar S	IITM	12 Weeks	3	UG/PG
558	Mechanical Engineering	Optimization from fundamentals	Prof. Ankur A. Kulkarni	IITB	12 Weeks	3	PG
559	Mechanical Engineering	Power Plant System Engineering	Prof. Niranjana Sahoo	IITG	12 Weeks	3	UG
560	Mechanical Engineering	Product Design and Manufacturing	Prof. J.Ramkumar	IITK	12 Weeks	3	UG/PG
561	Mechanical Engineering	Product Engineering and Design Thinking	Prof. Pranab K Dan Prof. Prabir Sarkar	IITKGP	8 Weeks	2	UG/PG
562	Mechanical Engineering	Theory Of Composite Shells	Prof. Poonam Kumari	IITG	8 Weeks	2	PG
563	Mechanical Engineering	Theory of Rectangular Plates-Part1	Prof. Poonam Kumari	IITG	4 Weeks	1	PG
564	Mechanical Engineering	Thermal Engineering: Basic and Applied	Prof. Pranab K. Mondal	IITG	12 Weeks	3	UG/PG
565	Mechanical Engineering	Thermodynamics	Prof. S.R. Kale	IITD	12 Weeks	3	UG/PG
566	Mechanical Engineering	Turbulent Combustion: Theory and Modelling	Prof. Ashok De	IITK	12 Weeks	3	UG/PG

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567	Mechanical Engineering	Two-Phase Flow With Phase Change In Conventional And Miniature Channels	Prof. Manmohan Pandey	IITG	4 Weeks	1	UG
568	Mechanical Engineering	Viscous Fluid Flow	Prof. Amaresh Dalal	IITG	12 Weeks	3	UG/PG
569	Mechanical Engineering	Wheeled Mobile Robots	Prof. Asokan Thondiyath Prof. Santhakumar Mohan	IITM IIT Palakkad	8 Weeks	2	UG/PG
570	Mechanical Engineering	Cryogenic Hydrogen Technology	Prof. Indranil Ghosh	IITKGP	8 Weeks	2	UG/PG
571	Mechanical Engineering, Chemical Engineering, Aerospace Engineering, Physics	Advanced Measurement Techniques in Fluid Mechanics and Heat Transfer	Prof Saptarshi Basu	IISc	12 Weeks	3	PG
572	Mechanical Engineering, Metallurgical Engineering and Material Science	Introduction to Solidification Processing	Prof. Swarup Bag	IITG	8 Weeks	2	UG/PG
573	Mechanical-Engineering/Metallurgy/Material-science/Tribology/Aerospace	Data-Enabled Tribological Engineering: From Experiments to Predictive Models	Prof. (HAG) Harish Hirani	IITD	12 Weeks	3	UG/PG
574	Mechanical/Aerospace/Electrical Engineering	Nonlinear Control Design	Prof. Srikant Sukumar	IITB	12 Weeks	3	PG

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575	Medicine	Pulmonary Function tests - Interpretation and application in clinical practice	Multifaculty	Chettinad Hospital and Research Institute	4 Weeks	1	UG/PG
576	Metallurgical & Materials Engineering	Transport Phenomena in Materials	Dr. G. Phanikumar	IITM	12 Weeks	3	PG
577	Metallurgical and Materials Engineering	Introduction To Crystal Elasticity And Crystal Plasticity	Prof. Swarup Bag	IITG	8 Weeks	2	UG/PG
578	Metallurgical and Materials Engineering	Defects in Crystalline Solids (Part-II)	Prof. Shashank Shekhar	IITK	4 Weeks	1	UG
579	Metallurgical and Materials Engineering	Solar Photovoltaics: Principles, Technologies & Materials	Prof. Ashish Garg	IITK	8 Weeks	2	UG/PG
580	Metallurgical and Materials Engineering	Aqueous Corrosion and Its Control	Prof. V.S. Raja	IITB	12 Weeks	3	UG/PG
581	Metallurgical and Materials Engineering	Carbon Materials and Manufacturing	Prof. Swati Sharma	IIT Mandi	12 Weeks	3	PG
582	Metallurgical and Materials Engineering	Cathodic Protection Engineering	Prof. V.S. Raja	IITB	4 Weeks	1	UG/PG
583	Metallurgical and Materials Engineering	Dealing with materials data : collection, analysis and interpretation	Prof. M P Gururajan Prof. Hina Gokhale	IITB	12 Weeks	3	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
584	Metallurgical and Materials Engineering	Fundamentals Of Electronic Materials And Devices	Prof. Parasuraman Swaminathan	IITM	8 Weeks	2	UG/PG
585	Metallurgical and Materials Engineering	Material Characterization	Prof.S. Sankaran	IITM	12 Weeks	3	UG/PG
586	Metallurgical and Materials Engineering	Materials Science and Engineering	Prof. Vivek Pancholi	IITR	8 Weeks	2	UG
587	Metallurgical and Materials Engineering	Steel Quality: Role of Secondary Refining & Continuous Casting	Prof. Santanu Kr. Ray	IITM	12 Weeks	3	UG/PG
588	Metallurgical and Materials Engineering	Theory and Practice of Non Destructive Testing	Prof. Ranjit Bauri	IITM	8 Weeks	2	UG/PG
589	Metallurgical and Materials Engineering	Welding Processes	Prof. Murugaiyan Amirthalingam	IITM	12 Weeks	3	UG/PG
590	Metallurgical and Materials Engineering	Fundamentals of Material Processing - Part 2	Prof. Shashank Shekhar & Prof. Anshu Gaur	IITK	8 Weeks	2	UG
591	Metallurgical and Materials Engineering	Diffusion in Multicomponent Solids	Prof. Kaustubh Kulkarni	IITK	12 Weeks	3	UG/PG
592	Metallurgical and Materials Engineering	Properties of Materials (Nature and Properties of Materials : III)	Prof. Ashish Garg	IITK	8 Weeks	2	UG
593	Metallurgy and Material Science	Mechanical Behaviour of Materials (Part – I)	Prof. Shashank Shekhar / Prof. Sudhanshu Shekhar Singh	IITK	12 Weeks	3	UG

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594	Metallurgy and Mererial Science	Surface Engineering For Corrosion And Wear Resistance Application	Prof. Indranil Manna Prof. Jyotsna Dutta Majumdar	IITKGP	12 Weeks	3	UG/PG
595	Mining Engineering	Drilling And Blasting Technology	Prof. Kaushik Dey	IITKGP	12 Weeks	3	UG/PG
596	Mining Engineering	Mine Automation and Data Analysics	Prof. Radhakanta Koner	IIT-ISM Dhanbad	12 Weeks	3	UG/PG
597	Multidisciplinary	Fundamental Of Fluid Mechanics For Chemical And Biomedical Engineers	Prof. Raghvendra Gupta	IITG	12 Weeks	3	UG
598	Multidisciplinary	NBA Accreditation and Teaching and learning in Engineering (NATE)	Prof. N J Rao Prof. K Rajanikanth	IISc	12 Weeks	3	PG
599	Multidisciplinary	Teaching And Learning in Engineering (TALE)	Prof. N J Rao	IISc	4 Weeks	1	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
600	Multidisciplinary	Basic Course in Ornithology	Prof. Mousumi Ghosh Prof. Manjari Jain Prof. R Jayapal Prof. Anand Krishnan Prof. Suhel Quader Prof. V.V. Robin Prof. Umesh Srinivasan	NCF IISER Mohali SACON IISER Bhopal NCF IISER Tirupati IISc	12 Weeks	3	UG/PG
601	Multidisciplinary	Basics of Mental Health & Clinical Psychiatry	Prof. Arijita Banerjee Prof. Sumit Kumar	IITKGP	8 Weeks	2	UG
602	Multidisciplinary	Biophotonics	Prof. Basudev Lahiri	IITKGP	12 Weeks	3	PG
603	Multidisciplinary	Designing Learner-Centric MOOCs	Prof. Sahana Murthy Prof. Jayakrishnan M. Prof. Sameer Sahasrabudhe	IITB	4 Weeks + 4 Weeks (New)	2	PG
604	Multidisciplinary	Effective Engineering Teaching In Practice	Prof. G. K. Suraishkumar Prof. Edamana Prasad Prof. Richa Verma	IITM	4 Weeks	1	PG

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605	Multidisciplinary	Engineering Statistics	Prof. Manjesh Hanawal	IITB	12 Weeks	3	UG/PG
606	Multidisciplinary	Entrepreneurship Essentials	Prof. Manoj Kumar Mondal	IITKGP	12 Weeks	3	UG/PG
607	Multidisciplinary	Foundation Certificate In Palliative Care	Prof. Geeta Joshi Prof. Piyush Gupta	INTERNATIONAL INSTITUTE OF DISTANCE LEARNING AN INITIATIVE OF NAPCAIM	12 Weeks	3	UG
608	Multidisciplinary	Fuzzy Logic And Neural Networks	Prof. Dilip Kumar Pratihari	IITKGP	8 Weeks	2	UG/PG
609	Multidisciplinary	Groundwater hydrology and management	Prof. Pennan Chinnasamy	IITB	12 Weeks	3	UG



S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
610	Multidisciplinary	Introduction To Environmental Engineering And Science - Fundamental And Sustainability Concepts	Prof. Brajesh K Dubey	IITKGP	12 Weeks	3	UG
611	Multidisciplinary	Introduction to Reliability Engineering	Prof. Neeraj Kumar Goyal	IITKGP	8 Weeks	2	UG
612	Multidisciplinary	Introduction to Research (New: Research Methodology)	Prof. Edamana Prasad Prof. Prathap Haridoss	IITM	8 Weeks	2	PG
613	Multidisciplinary	Management of Medical Emergencies in Dental Practice	Multifaculty	Sree Balaji Dental College & Hospital and Tagore Dental College & Hospital	8 Weeks	2	UG/PG
614	Multidisciplinary	Nanobio Technology Enabled Point-of-Care Devices	Prof. Gorachand Dutta	IITKGP	8 Weeks	2	UG/PG

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615	Multidisciplinary	Non-conventional energy Resources	Prof. Prathap Haridoss	IITM	12 Weeks	3	UG/PG
616	Multidisciplinary	One Health	Multi Faculty	ICMR - Regional Medical Research Centre, Bhubaneswar	12 Weeks	3	PG
617	Multidisciplinary	Oral Biology	Prof.Ramya and Team	Saveetha Dental College & IITM	8 Weeks	2	UG
618	Multidisciplinary	Outcome Based Pedagogic Principles For Effective Teaching	Prof. Shyamal Kumar Das Mandal	IITKGP	4 Weeks	1	UG
619	Multidisciplinary	Research Methodology in Natural Sciences	Prof. Soumitro Banerjee	IISER Kolkata	12 Weeks	3	PG
620	Multidisciplinary	Roadmap for patent creation	Prof. Gouri Gargate	IITKGP	8 Weeks	2	UG/PG
621	Multidisciplinary	Rural Water Resources Management	Prof. Pennan Chinnasamy	IITB	12 Weeks	3	UG
622	Multidisciplinary	Experimental Robotics	Dr. Dilip Kumar Pratihari	IITKGP	4 Weeks	1	UG/PG

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623	Multidisciplinary	Thin Film Technology	Prof. Samit K Ray	IITKGP	12 Weeks	3	UG/PG
624	Multidisciplinary	Conservation & Project Management of Baoli Water Systems	Multifaculty	IITD	12 Weeks	3	UG/PG
625	Neurophysiology, Biomedical Engineering, Electrical and Electronics Engineering, Instrumentation Engineering, MEMS	Microsensors, Implantable Devices and Rodent Surgeries for Biomedical Applications	Shabari Girishan K V Hardik J. Pandya	RUAS IISc	12 Weeks	3	UG/PG
626	Neuroscience	Classics in Neuroscience	Prof. Varadhan SKM	IITM	8 Weeks	2	PG
627	Ocean Engineering	Advanced design of steel structures	Prof. Srinivasan Chandrasekaran	IITM	12 Weeks	3	PG
628	Ocean Engineering	Offshore Structures Under Special Environmental Loads Including Fire Resistance	Prof. Srinivasan Chandrasekaran	IITM	12 Weeks	3	PG
629	Petroleum Engineering	Surface Facilities for Oil and Gas Handling	Prof. Abdus Samad	IITM	12 Weeks	3	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
630	Physical Chemistry	Molecular Modelling and Drug Design	Prof. Arnab Mukherjee Prof. Suman Chakrabarty	IISER Pune S. N. Bose National Centre for Basic Sciences, Kolkata	12 Weeks	3	UG
631	Physics	Mathematical Methods in Physics 1	Prof. Auditya Sharma	IISER Bhopal	8 Weeks	2	UG
632	Physics	A Brief Course On Superconductivity	Prof. Saurabh Basu	IITG	4 Weeks	1	UG/PG
633	Physics	Advanced Condensed Matter Physics	Prof. Saurabh Basu	IITG	8 Weeks	2	UG/PG
634	Physics	Atomic And Molecular Physics	Prof. Amal Kumar Das	IITKGP	12 Weeks	3	UG
635	Physics	Electronic Theory Of Solids	Prof. Arghya Taraphder	IITKGP	12 Weeks	3	UG/PG
636	Physics	Experimental Physics - II	Prof. Amal Kumar Das	IITKGP	12 Weeks	3	UG
637	Physics	Fluid Dynamics for Astrophysics	Prof. Prasad Subramanian	IISER Pune	12 Weeks	3	PG

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638	Physics	Group Theory methods in Physics	Prof. P. Ramadevi	IITB	12 Weeks	3	UG
639	Physics	Introduction to Atmospheric and Space Sciences	Prof. M V Sunil Krishna	IITR	12 Weeks	3	UG/PG
640	Physics	Introduction To Statistical Mechanics	Prof. Girish S. Setlur	IITG	8 Weeks	2	PG
641	Physics	Nuclear Astrophysics	Prof. Anil Kumar Gourishetty	IITR	8 Weeks	2	UG/PG
642	Physics	Physics of Biological Systems	Prof. Mithun Mitra	IITB	12 Weeks	3	UG/PG
643	Physics	Physics through Computational Thinking	Prof. Auditya Sharma	IISER Bhopal	8 Weeks	2	UG
644	Physics	Quantum Entanglement: Fundamentals, measures and applications	Prof. Amarendra Kumar Sarma	IITG	4 Weeks	1	UG
645	Physics	Quantum Mechanics I	Prof. P. Ramadevi	IITB	12 Weeks	3	UG
646	Physics	Quantum Transport	Prof. Madhu Thalakulam	IISER Thiruvananthapuram	12 Weeks	3	PG
647	Physics	Thermal Physics	Prof. Debamalya Banerjee	IITKGP	12 Weeks	3	UG

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648	Physics	Topology and Condensed Matter Physics	Prof. Saurabh Basu	IITG	8 Weeks	2	PG
649	Physics, Engineering	Plasma Physics and Applications	Prof. M.V. Sunil Krishna	IITR	12 Weeks	3	UG/PG
650	Physics, Optics, Electrical Engineering, Computer science and engineering	Coherence and Quantum Entanglement	Prof. Anand Kumar Jha	IITK	12 Weeks	3	UG/PG
651	Physics, Chemistry	Advanced NMR Techniques in Solution and Solid-State	Prof. N. Suryaprakash	IISc	12 Weeks	3	PG
652	Psychology, Linguistics, Psycholinguistics, Cognitive Science	Psychology Of Bilingualism And Multilingualism	Prof. Ark Verma	IITK	8 Weeks	2	PG
653	Psychology/Design	Cognitive Ergonomics	Prof. M. K. Asthana	IITR	4 Weeks	1	UG/PG
654	Quantum Chemistry	Many body methods in quantum chemistry	Prof. Sourav Pal Prof. Achintya Kumar Dutta	IITB	12 Weeks	3	UG/PG
655	Rubber Technology	Characterization of Polymers, Elastomers and Composites	Prof. Santanu Chattopadhyay	IITKGP	12 Weeks	3	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
656	Sports Science	Human Movement Science	Prof. Shruti Bhandurge Prof. Subham Badhyal	IITM	8 Weeks	2	UG
657	Sports Science	Sports and Performance Nutrition	Prof. Geetha Ghaliyavar Prof. Ansa Saju	IITM	8 Weeks	2	UG/PG
658	Sports Science	Sports Psychology	Prof. Chaitanya Sridhar Prof. Nivedita Rajan Prof. Priyanka Prabhakar	IITM	8 Weeks	2	UG
659	Sports Science	Strength & Conditioning for the Indian Population	Prof. Deckline Leitao Prof. Varun Suresh Kumar	IITM	12 Weeks	3	UG
660	Sports Science	Essentials of Sports Injury Prevention & Rehabilitation	Col (Dr) Anup Krishnan (Retd) Wg Cdr (Dr) CS Guru Lt Col (Dr) Atul Sharma	IITM	8 Weeks	2	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
661	Sports Science	Introduction to Exercise Physiology & Sports Performance	Col (Dr) Anup Krishnan (Retd) Wg Cdr (Dr) CS Guru Lt Col (Dr) Atul Sharma	IITM	8 Weeks	2	UG/PG
662	Sports Science	Fundamentals of Sports Training, Load Management & recovery	Col (Dr) Anup Krishnan (Retd) Wg Cdr (Dr) CS Guru Prof. Kaustubh Shedjale	IITM	8 Weeks	2	UG/PG
663	Statistics	Predictive Analytics - Regression and Classification	Prof. Sourish Das	CMI	12 Weeks	3	PG
664	Textile Engineering	Advanced Textile Printing Technology	Prof. Kushal Sen	IITD	8 Weeks	2	UG/PG
665	Textile Engineering	Evaluation of Textiles Materials	Prof. Apurba Das	IITD	12 Weeks	3	UG
666	Textile Engineering	Testing of Functional and Technical Textiles	Prof. Apurba Das	IITD	8 Weeks	2	UG/PG
667	Textile Engineering	Textile Product Design and Development	Prof. R Chattopadhyay	IITD	12 Weeks	3	UG/PG
668	Textile Engineering	Textured Yarn Technology	Prof. Kushal Sen	IITD	12 Weeks	3	UG/PG



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669	Textile Engineering	Theory of Yarn Structure	Prof. Dipayan Das	IITD	12 Weeks	3	UG
670	Textile Technology	New Spinning Technologies	Prof. R Chattopadhyay	IITD	12 Weeks	3	UG/PG
671	Humanities and Social Sciences	Literary Theory and Literary Criticism	Prof. Aysha Iqbal	IITM	12 Weeks	3	PG
672	Humanities and Social Sciences	English Language for Competitive Exams	Prof. Aysha Iqbal	IITM	12 Weeks	3	UG/PG
673	Biomedical Engineering	Biomechanics	Prof. Varadhan	IITM	12 Weeks	3	UG/PG
674	Civil Engineering	Analysis and Design of Bituminous Pavements	M. R. Nivitha (MRN) Neethu Roy (NR) A. Padmarekha (APR) J. Murali Krishnan (JMK)	IITM	12 Weeks	3	PG
675	Humanities and Social Sciences	Learning English in Hindi	Prof. Rajesh Kumar	IITM	8 Weeks	2	UG/PG
676	Biotechnology and Bioengineering	Biostatistics and Design of experiments	Prof. Mukesh Doble	IITM	8 Weeks	2	UG/PG
677	Civil Engineering	Introduction to Lean Construction (Module 1 - Lean Basics)	Prof. Koshy Varghese Prof. N Raghavan	IITM	4 Weeks	1	UG/PG
678	Electrical and Electronics Engineering	Transmission lines and electromagnetic waves	Prof. Ananth Krishnan	IITM	12 Weeks	3	PG

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679	Computer Science and Engineering	Introduction to Machine Learning	Prof. Balaraman Ravindran	IITM	12 Weeks	3	UG/PG
680	Computer Science and Engineering	Reinforcement Learning	Prof. Balaraman Ravindran	IITM	12 Weeks	3	UG/PG
681	Electrical and Electronics Engineering	Digital IC Design	Prof. Janakiraman	IITM	12 Weeks	3	UG
682	Chemical Engineering	Chemical Engineering Thermodynamics	Prof. Sasidhar Gumma	IIT Tirupati	12 Weeks	3	UG
683	Civil Engineering	Modern Construction Materials	Prof. Ravindra Gettu	IITM	12 Weeks	3	UG/PG
684	Civil Engineering	Introduction to Civil Engineering Profession	Prof. Ravindra Gettu Prof. Subhadeep Banerjee	IITM	8 Weeks	2	UG
685	Computer Science and Engineering	Data Science for Engineers	Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan	IITM	8 Weeks	2	UG/PG
686	Computer Science and Engineering	Python for Data Science	Prof. Ragunathan Rengasamy	IITM	4 Weeks	1	UG
687	Computer Science & Engineering	Privacy and Security in Online Social Media	Prof. Ponnurangam Kumaraguru	IIITD	12 Weeks	3	UG/PG
688	Computer Science and Engineering	Introduction to Database Systems	Prof. Sreenivasa Kumar	IITM	12 Weeks	3	UG

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689	Computer Science and Engineering	Social Networks	Prof. Sudarshan Iyengar Prof. Yayati Gupta	IIT Ropar	12 Weeks	3	UG
690	Computer Science and Engineering	The Joy of Computing using Python	Prof. Sudarshan Iyengar	IIT Ropar	12 Weeks	3	UG/PG
691	Computer Science and Engineering	Discrete Mathematics	Prof. Sudarshan Iyengar Prof. Prabuchandran K.J	IIT Ropar	12 Weeks	3	UG
692	Computer Science and Engineering	Deep Learning - IIT Ropar	Prof. Sudarshan Iyengar Prof. Sanatan Sukhija	IIT Ropar	12 Weeks	3	UG/PG
693	Earth Sciences/Civil Engineering	Laboratory Practices in Earth Sciences: Landscape Mapping	Prof. Javed N Malik	IITK	8 Weeks	2	UG/PG
694	Computer Science and Engineering	Machine Learning, ML	Prof. Carl Gustaf Jansson Prof. Henrik Boström Prof. Fredrik Kilander	KTH Royal Institute of Technology, Sweden	8 Weeks	2	PG
695	Law	International Trade Law	Prof. Raju KD	IITKGP	8 Weeks	2	UG/PG
696	Metallurgical and Materials Engineering	Principles of Extractive Metallurgy	Dr. Tarun Kumar Kundu	IITKGP	12 Weeks	3	UG

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697	Agriculture Engineering	Water Quality Management Practices	Dr. Gourav Dhar Bhowmick	IITKGP	12 Weeks	3	UG/PG
698	Mechanical Engineering	Industrial Hydraulics and Automation	Dr. Niranjana Kumar & Dr. Ajit Kumar	IIT-ISM Dhanbad	12 Weeks	3	UG/PG
699	Humanities and Social Sciences	Philosophy and Critical Thinking	Gyan Prakash	IIT-ISM Dhanbad	12 Weeks	3	UG/PG
700	Electrical Engineering	Nonlinear and Adaptive Control	Prof. Shubhendu Bhasin	IITD	4 Weeks	1	PG
701	Civil Engineering and Architecture	Concrete Technology	Prof. B. Bhattacharjee	IITD	12 Weeks	3	UG
702	Civil Engineering and Architecture	Energy Efficiency, Acoustics and Daylighting in Building	Prof. B. Bhattacharjee	IITD	12 Weeks	3	PG
703	Humanities and Social Sciences	Towards an Ethical Digital Society: From Theory to Practice	Prof. Amit Prakash	IIIT Bangalore	4 Weeks	1	PG
704	Mechanical Engineering	Ideal fluid flows using complex analysis	Prof. Amit Gupta	IITD	4 Weeks	1	PG
705	Metallurgical and Materials Engineering	Crystals, Symmetry and Tensors	Prof. Rajesh Prasad	IITD	12 Weeks	3	UG/PG
706	Management, Social Sciences (Psychology, Sociology)	Multivariate Procedures with R	Prof. Narendra K Sharma	IITK	12 Weeks	3	PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
707	Industrial Engineering Management Sciences Operations Research/Optimization All fields of engineering Economics Mathematics/Statistics	Multi-Criteria Decision Making and Applications	Prof. Raghu Nandan Sengupta	IITK	12 Weeks	3	UG/PG
708	Chemistry	Supramolecular Chemistry-I	Prof. Parimal Kanti Bharadwaj	IITK	8 Weeks	2	PG
709	Mechanical Engineering	Advanced Machining Processes	Prof. Shantanu Bhattacharya	IITK	12 Weeks	3	UG
710	Management (Finance):	Advanced Financial Instruments for Sustainable Business and Decentralized Markets	Prof. Abhinava Tripathi	IITK	12 Weeks	3	UG/PG
711	Physics	Tapestry of Field theory: Classical & Quantum, Equilibrium & Nonequilibrium Perspectives	Prof. Mahendra K. Verma	IITK	12 Weeks	3	PG
712	Computer Science & Engineering	Edge Computing	Prof. Rajiv Misra	IITP	8 Weeks	2	UG/PG

S.N.	Subject/Discipline	Course Title	Name of the Course Coordinator	Host University	Duration	No. of credits	Course level
713	Sociology (Social Sciences)	Sociology and Sanitation: An Introduction	Prof. Ashish Saxena	University of Allahabad	4 Weeks	1	UG/PG
714	Design Engineering	Design for Industry 4.0 and Industrial Internet of Things	Prof. Amar Kumar Behera	IITK	12 Weeks	3	PG
715	Multidisciplinary	Basic Certificate in Palliative Care	Dr. Geeta Joshi / Dr. Piyush Gupta	INTERNATIONAL INSTITUTE OF DISTANCE LEARNING AN INITIATIVE OF NAPCAIM	12 Weeks	3	UG/PG
716	Mechanical Engineering	Introduction to Refrigeration and Air Conditioning in Hindi	Prof. Sameer Khandekar	IITK	8 Weeks	2	UG/PG

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717	Aerospace Engineering	Aerospace Structural Analysis	Prof. Mira Mitra	IITKGP	8 Weeks	2	UG/PG
718	Agriculture Engineering	Basics of Crop Breeding and Plant Biotechnology	Prof. Joydeep Banerjee	IITKGP	12 Weeks	3	UG/PG
719	Electrical Engineering	Embedded Sensing, Actuation and Interfacing Systems	Dr. Banibrata Mukherjee	IITKGP	12 Weeks	3	PG
720	Multidisciplinary	Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis	Dr. Aritri Bir & Dr. Arindam Ghosh	IITKGP	12 Weeks	3	UG/PG
721	Aerospace Engineering	Fundamentals of Supersonic and Hypersonic Flow	Prof. Arnab Roy	IITKGP	12 Weeks	3	UG/PG
722	Multidisciplinary	Recommender Systems	Prof. Mamata Jenamani	IITKGP	8 Weeks	2	UG/PG
723	Chemistry	Elementary Thermodynamics for All	Prof. Srabani Taraphder	IITKGP	12 Weeks	3	UG
724	Law	Centre-State Relations in India	Dr. Uday Shankar	IITKGP	8 Weeks	2	UG/PG
725	Electrical Engineering	EMI /EMC and Signal Integrity: Principles, Techniques and Applications	Prof. Amitabha Bhattacharya	IITKGP	12 Weeks	3	UG/PG

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726	Environmental Engineering	Industrial Wastewater Treatment	Prof Alok Sinha Prof S K Gupta	IIT-ISM Dhanbad	12 Weeks	3	UG/PG
727	Chemical Engineering	Interfacial Engineering	Prof. Manigandan	IIT Ropar	12 Weeks	3	UG/PG
728	Mechanical Engineering	Design of Mechanical Transmission Systems	Prof. Ramkumar	IITM	12 Weeks	3	UG/PG
729	Chemistry, Biology	Enzyme biochemistry	Prof. Siddhesh Kamat	IISER Pune	8 Weeks	2	UG/PG
730	Traffic Engineering	Traffic flow theory	Prof. Mallikarjuna C.	IITG	12 Weeks	3	PG
731	Civil Engineering	Quality and Safety Management in Construction	Dr. Sparsh Johari	IITG	12 Weeks	3	UG/PG
732	Electronics and Electrical Engineering	Photonic Crystals: Fundamentals & Applications	Dr. Debabrata Sikdar	IITG	12 Weeks	3	UG/PG
733	Multi-disciplinary primarily for Mechanical, Electrical, Aerospace and Chemical engineering streams	Intelligent Feedback and Control	Prof. Leena Vachhani	IITB	12 Weeks	3	UG/PG
734	Chemical Engineering	Modeling Stochastic phenomena for Engineering applications: Part-1	Prof. Yelia Shankaranarayana Mayya	IITB	12 Weeks	3	UG/PG