



SWAYAM - NPTEL

JAN – APR 2020 Course List

To Enroll : <https://swayam.gov.in/NPTELonlinecourses.nptel.ac.in/>



support@nptel.iitm.ac.in



044-2257 5905



044-2257 5908

STATISTICS

FROM MAR 2014 - JUL 2019



▲ EXAM REGISTRATIONS

TIMELINE	4 Weeks (SET 1)	8 Weeks (SET 1)	12 Weeks	4 Weeks (SET 2)	8 Weeks(SET 2)
Start of Course	27-Jan-20	27-Jan-20	27-Jan-20	24-Feb-20	24-Feb-20
End of Course	21-Feb-20	20-Mar-20	17-Apr-20	20-Mar-20	17-Apr-20
Exam Dates - 1	29 March 2020 - 2 Sessions on each date : 9am- 12 noon; 2pm-5pm			25 April 2020 and 26 April 2020 - 2 Sessions on each date : 9am- 12 noon; 2pm-5pm	
Open enrollment to the Course	Nov, 18 2019				
Close enrollment to the Course	3-Feb-20			24-Feb-2020	
Open exam registration form	16-Dec-19				
Close exam registration form	Feb 17, 2020/Feb 21, 2020 10:00 AM			Mar 16, 2020/Mar 20, 2020 10:00 AM	

ELECTRICAL AND ELECTRONICS ENGINEERING



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Principles of Digital Communication	Prof. Abhishek Dixit	IITD	January 27, 2020	April 25, 2020
2	Statistical Signal Processing	Prof. Prabin Kumar Bora	IITG	January 27, 2020	April 25, 2020
3	Multirate DSP	Prof. R. David Koilpillai	IITM	January 27, 2020	April 25, 2020
4	Integrated Circuits, MOSFETs, OP-Amps and their Applications	Prof. Hardik Jeetendra Pandya	IISc	January 27, 2020	April 25, 2020
5	Analog Circuits	Prof. Nagendra Krishnapura	IITM	January 27, 2020	April 25, 2020
6	Analog Circuits and Systems through SPICE Simulation	Prof. Mrigank Sharad	IIT KGP	January 27, 2020	April 25, 2020
7	Digital Electronic Circuits	Prof. Goutam Saha	IIT KGP	January 27, 2020	April 25, 2020
8	High Power Multilevel Converters- Analysis, design and operational issues	Prof. Anandarup Das	IITD	January 27, 2020	April 25, 2020
9	Antennas	Prof. Girish Kumar	IITB	January 27, 2020	April 25, 2020
10	Architectural Design of Digital Integrated Circuits	Prof. Indranil Hatai	IIT KGP	January 27, 2020	April 25, 2020
11	Microprocessors And Microcontrollers	Prof. Santanu Chattopadhyay	IIT KGP	January 27, 2020	April 25, 2020
12	Electrical Machines - II	Prof. Tapas Kumar Bhattacharya	IIT KGP	January 27, 2020	April 25, 2020
13	DC Power Transmission Systems	Prof. Krishna S	IITM	January 27, 2020	April 25, 2020
14	Power System Engineering	Prof. Debapriya Das	IIT KGP	January 27, 2020	April 25, 2020
15	Control engineering	Prof. Ramkrishna Pasumathy	IITM	January 27, 2020	April 25, 2020
16	Introduction to Photonics	Prof. Balaji Srinivasan	IITM	January 27, 2020	April 25, 2020
17	Biomedical Signal Processing	Prof. Sudipta Mukhopadhyay	IIT KGP	January 27, 2020	April 25, 2020
18	Fuzzy Sets, Logic and Systems & Applications	Prof. Nishchal Kumar Verma	IITK	January 27, 2020	April 25, 2020
19	Principles of Signals and Systems	Prof. Aditya K. Jagannatham	IITK	January 27, 2020	April 26, 2020
20	Signals and Systems	Prof. Kushal K. Shah	IISER Bhopal	January 27, 2020	April 26, 2020
21	Principles of Communication Systems - I	Prof. Aditya K. Jagannatham	IITK	January 27, 2020	April 26, 2020
22	Mathematical Methods and Techniques in Signal Processing	Prof. Shayan Srinivasa Garani	IISc	January 27, 2020	April 26, 2020
23	Spread Spectrum Communications and Jamming	Prof. Debarati Sen	IIT KGP	January 27, 2020	April 26, 2020
24	Network Analysis	Prof. Tapas Kumar Bhattacharya	IIT KGP	January 27, 2020	April 26, 2020
25	Analog Electronic Circuits	Prof. Pradip Mandal	IIT KGP	January 27, 2020	April 26, 2020
26	Transmission lines and electromagnetic waves	Prof. Ananth Krishnan	IITM	January 27, 2020	April 26, 2020
27	Fundamentals of semiconductor devices	Prof. Digbijoy N. Nath	IISc	January 27, 2020	April 26, 2020
28	Analog IC Design	Prof. Aniruddhan S	IITM	January 27, 2020	April 26, 2020
29	Digital IC Design	Prof. Janakiraman	IITM	January 27, 2020	April 26, 2020
30	Microprocessors and Interfacing	Prof. Shaik Rafi Ahamed	IITG	January 27, 2020	April 26, 2020
31	Power Management Integrated Circuits	Prof. Qadeer Ahmad Khan	IITM	January 27, 2020	April 26, 2020
32	Nonlinear System Analysis	Prof. Ramkrishna Pasumathy Prof. Arunkumar D Mahindrakar	IITM	January 27, 2020	April 26, 2020

ELECTRICAL AND ELECTRONICS ENGINEERING



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
33	Optical Engineering	Prof. Shanti Bhattacharya	IITM	January 27, 2020	April 26, 2020
34	Electronic Systems for Cancer Diagnosis	Prof. Hardik Jeetendra Pandya	IISc	January 27, 2020	April 26, 2020
35	Discrete Time Signal Processing	Prof. Mrityunjoy Chakraborty	IIT KGP	January 27, 2020	March 29, 2020
36	Fundamentals of MIMO Wireless Communication	Prof. Suvra Sekhar Das	IIT KGP	January 27, 2020	March 29, 2020
37	Analog Circuits	Prof. Jayanta Mukherjee	IITB	January 27, 2020	March 29, 2020
38	Electronics equipment integration and Prototype building	Prof. N.V.Chalapathi Rao	IISc	January 27, 2020	March 29, 2020
39	Advance power electronics and Control	Prof. Avik Bhattacharya	IITR	January 27, 2020	March 29, 2020
40	Basic Building Blocks of Microwave Engineering & Design Principles of RF and Microwave Filters and Amplifiers	Prof. Amitabha Bhattacharya	IIT KGP	January 27, 2020	March 29, 2020
41	Microwave Integrated Circuits	Prof. Jayanta Mukherjee	IITB	January 27, 2020	March 29, 2020
42	CMOS Digital VLSI Design	Prof. Sudeb Dasgupta	IITR	January 27, 2020	March 29, 2020
43	Power Quality Improvement Technique	Prof. Avik Bhattacharya	IITR	January 27, 2020	March 29, 2020
44	Linear Dynamical Systems	Prof. Tushar Jain	IIT Mandi	January 27, 2020	March 29, 2020
45	Evolution of Air Interface towards 5G	Prof. Suvra Sekhar Das	IIT KGP	February 24, 2020	April 25, 2020
46	VLSI Signal Processing	Prof. Mrityunjoy Chakraborty	IIT KGP	February 24, 2020	April 26, 2020
47	Recent Advances in Transmission Insulator	Prof. Subba Reddy	IISc	January 27, 2020	March 29, 2020
48	Design and Simulation of Power conversion using open source tools	Prof. L Umanand	IISc	January 27, 2020	March 29, 2020
49	Nonlinear Adaptive Control	Prof. Shubhendu Bhasin	IITD	January 27, 2020	March 29, 2020
50	A brief introduction of Micro - Sensors	Prof. Santanu Talukder	IISER Bhopal	January 27, 2020	March 29, 2020
51	Medical Image Analysis	Prof. Debdoot Sheet	IIT KGP	February 24, 2020	April 25, 2020
52	Electric Vehicles - Part 1	Prof. Amit Jain	IITD	February 24, 2020	April 26, 2020

COMPUTER SCIENCE AND ENGINEERING



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Problem solving through Programming In C	Prof. Anupam Basu	IIT KGP	January 27, 2020	April 25, 2020
2	The Joy of Computing using Python	Prof. Sudarshan Iyengar Prof. Yayati Gupta	IIT Ropar	January 27, 2020	April 25, 2020
3	Introduction to algorithms and analysis	Prof. Sourav Mukhopadhyay	IIT KGP	January 27, 2020	April 25, 2020
4	Randomized Algorithms	Prof. Benny George K	IITG	January 27, 2020	April 25, 2020
5	Discrete Mathematics	Prof. Sudarshan Iyengar Prof. Rishi Ranjan Singh	IIT Ropar & IIT Bhilai	January 27, 2020	April 25, 2020
6	Foundations to Computer Systems Design	Prof. Kamakoti Veezhinathan	IITM	January 27, 2020	April 25, 2020

COMPUTER SCIENCE AND ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
7	Operating System	Prof. Sorav Bansal	IITD	January 27, 2020	April 25, 2020
8	Computational Geometry	Prof. Amit Kumar	IITD	January 27, 2020	April 25, 2020
9	Data Analytics with Python	Prof. A. Ramesh	IITR	January 27, 2020	April 25, 2020
10	Artificial Intelligence : Knowledge Representation And Reasoning	Prof. Deepak Khemani	IITM	January 27, 2020	April 25, 2020
11	Deep Learning (IITKGP)	Prof. Prabir Kumar Biswas	IIT KGP	January 27, 2020	April 25, 2020
12	Compiler Design	Prof. Santanu Chattopadhyay	IIT KGP	January 27, 2020	April 25, 2020
13	Introduction to internet of things	Prof. Sudip Misra	IIT KGP	January 27, 2020	April 25, 2020
14	Computer Networks and Internet Protocol	Prof. Soumya Kanti Ghosh Prof. Sandip Chakraborty	IIT KGP	January 27, 2020	April 25, 2020
15	Reinforcement Learning	Prof. Balaraman Ravindran	IITM	January 27, 2020	April 25, 2020
16	Model Checking	Prof. Srivathsan B	CMI	January 27, 2020	April 25, 2020
17	Arithmetic Circuit Complexity	Prof. Nitin Saxena	IITK	January 27, 2020	April 25, 2020
18	Foundations of Cryptography	Prof. Ashish Choudhury	IIIT Bangalore	January 27, 2020	April 25, 2020
19	Cryptography and Network Security	Prof. Sourav Mukhopadhyay	IIT KGP	January 27, 2020	April 25, 2020
20	Modern Application Development	Prof. Aamod Sane Prof. Abhijat Vichare Prof. Madhavan Mukund	Persistent Computing Systems, CMI	January 27, 2020	April 25, 2020
21	Programming in Java	Prof. Debasis Samanta	IIT KGP	January 27, 2020	April 26, 2020
22	Introduction to Database Systems	Prof. Sreenivasa Kumar	IITM	January 27, 2020	April 26, 2020
23	Introduction to Machine Learning	Prof. Balaraman Ravindran	IITM	January 27, 2020	April 26, 2020
24	An Introduction to Artificial Intelligence	Prof. Mausam	IITD	January 27, 2020	April 26, 2020
25	Computer Architecture	Prof. Smruti Ranjan Sarangi	IITD	January 27, 2020	April 26, 2020
26	Embedded Systems Design	Prof. Anupam Basu	IIT KGP	January 27, 2020	April 26, 2020
27	VLSI Physical Design	Prof. Indranil Sengupta	IIT KGP	January 27, 2020	April 26, 2020
28	Introduction to Industry 4.0 and Industrial Internet of Things	Prof. Sudip Misra	IIT KGP	January 27, 2020	April 26, 2020
29	Social Networks	Prof. Poonam Saini Prof. Sudarshan Iyengar	Punjab Engineering College & IIT Ropar	January 27, 2020	April 26, 2020
30	Deep Learning - Part 1(IIT Ropar)	Prof. Sudarshan Iyengar Prof. Padmavati	IIT Ropar	January 27, 2020	April 26, 2020
31	GPU Architectures and Programming	Prof. Soumyajit Dey	IIT KGP	January 27, 2020	April 26, 2020
32	Programming in C++	Prof. Partha Pratim Das	IIT KGP	January 27, 2020	March 29, 2020
33	Programming, Data Structures And Algorithms Using Python	Prof. Madhavan Mukund	CMI	January 27, 2020	March 29, 2020
34	Data Base Management System	Prof. Partha Pratim Das	IIT KGP	January 27, 2020	March 29, 2020

COMPUTER SCIENCE AND ENGINEERING



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
35	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	January 27, 2020	March 29, 2020
36	Data Science for Engineers	Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan	IITM	January 27, 2020	March 29, 2020
37	Practical Machine Learning with Tensorflow	Prof. Ashish Tendulkar Prof. Balaraman Ravindran	IITM & Google	January 27, 2020	March 29, 2020
38	Embedded System Design with ARM	Prof. Indranil Sengupta Prof. Kamalika Dutta	IIT KGP	January 27, 2020	March 29, 2020
39	Introduction To Soft Computing	Prof. Debasis Samanta	IIT KGP	January 27, 2020	March 29, 2020
40	Cloud Computing and Distributed Systems	Prof. Rajiv Misra	IITP	January 27, 2020	March 29, 2020
41	Information Security - 5 - Secure Systems Engineering	Prof. Chester Rebeiro	IITM	January 27, 2020	March 29, 2020
42	User-centric Computing for Human-Computer Interaction	Prof. Samit Bhattacharya	IITG	January 27, 2020	March 29, 2020
43	Data Mining	Prof. Pabitra Mitra	IIT KGP	February 24, 2020	April 25, 2020
44	Multi-Core Computer Architecture - Storage and Interconnects	Prof. John Jose	IITG	February 24, 2020	April 25, 2020
45	Introduction to Blockchain Technology and Applications	Prof. Sandeep Shukla	IITK	February 24, 2020	April 25, 2020
46	Machine Learning, ML	Prof. Carl Gustaf Jansson	KTH, The Royal Institute of Technology	February 24, 2020	April 26, 2020
47	Cloud computing	Prof. Soumya Kanti Ghosh	IIT KGP	February 24, 2020	April 26, 2020
48	Privacy and Security in Online Social Media	Prof. Ponnuram Kumaraguru	IITD	February 24, 2020	April 26, 2020
49	Python for Data Science	Prof. Ragunathan Rengasamy	IITM	January 27, 2020	March 29, 2020
50	Software Testing	Prof. Rajib Mall	IIT KGP	January 27, 2020	March 29, 2020
51	Real Time Operating System	Prof. Rajib Mall	IIT KGP	February 24, 2020	April 25, 2020

HUMANITIES AND SOCIAL SCIENCES



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Feminism : Concepts and Theories	Prof. Mathangi Krishnamurthy	IITM	January 27, 2020	April 26, 2020
2	Microeconomics : Theory & Applications	Prof. Deep Mukerjee	IITK	January 27, 2020	April 25, 2020
3	Energy Resources, Economics and Environment	Prof. Rangan Banerjee	IITB	January 27, 2020	April 25, 2020
4	Twentieth Century Fiction	Prof. Avishek Parui	IITM	January 27, 2020	April 25, 2020
5	The Nineteenth - Century English Novel	Prof. A. Divya	IITM	January 27, 2020	April 25, 2020
6	Introduction to World Literature	Prof. Merin Simi Raj	IITM	January 27, 2020	April 25, 2020
7	Modern Indian Writing in Translation	Prof. A. Divya	IITM	January 27, 2020	April 25, 2020

HUMANITIES AND SOCIAL SCIENCES


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
● 8	Introduction to Modern Indian Political Thought	Prof. Mithilesh Kumar Jha	IITG	January 27, 2020	April 25, 2020
9	Introduction to Political Theory	Prof. Mithilesh Kumar Jha	IITG	January 27, 2020	April 25, 2020
● 10	Introduction to Political Ideologies : Contexts, Ideas, and Practices	Prof. Arvind Sivaramakrishnan	IITM	January 27, 2020	April 25, 2020
● 11	English Language for Competitive Exams	Prof. Aysha Iqbal	IITM	January 27, 2020	April 25, 2020
● 12	Patent Law for Engineers and Scientists	Prof. Feroz Ali	IITM	January 27, 2020	April 25, 2020
● 13	German - II	Prof. Milind Brahme	IITM	January 27, 2020	April 25, 2020
● 14	Introduction to Environmental Economics	Prof. Diptimayee Nayak Prof. S. P. Singh	IITR	January 27, 2020	April 26, 2020
● 15	Literary Criticism (From Plato to Leavis)	Prof. Merin Simi Raj	IITM	January 27, 2020	April 26, 2020
● 16	Literature, Culture and Media	Prof. Rashmi Gaur	IITR	January 27, 2020	April 26, 2020
● 17	Introduction to Cultural Studies	Prof. Avishek Parui	IITM	January 27, 2020	April 26, 2020
● 18	Intellectual Property	Prof. Feroz Ali	IITM	January 27, 2020	April 26, 2020
● 19	Introduction to Cognitive Psychology	Prof. Naveen Kashyap	IITG	January 27, 2020	April 26, 2020
● 20	German - I	Prof. Milind Brahme	IITM	January 27, 2020	April 26, 2020
● 21	Strategic Trade and protectionism - Theories and Empirics	Prof. Pratap C. Mohanty	IITR	January 27, 2020	March 29, 2020
● 22	Economic Growth & Development	Prof. Rajshree Bedamatta	IITG	January 27, 2020	March 29, 2020
● 23	Literature for competitive exams	Prof. Aysha Iqbal	IITM	January 27, 2020	March 29, 2020
24	Language and Mind	Prof. Rajesh Kumar	IITM	January 27, 2020	March 29, 2020
● 25	English Literature of the Romantic Period, 1798 - 1832	Prof. Pramod K. Nayar	University of Hyderabad	January 27, 2020	March 29, 2020
● 26	Soft Skill Development	Prof. Priyadarshi Patnaik Prof. V. N. Giri Prof. D. Suar	IIT KGP	January 27, 2020	March 29, 2020
● 27	Emotional Intelligence	Prof. Rabindra Kumar Pradhan	IIT KGP	January 27, 2020	March 29, 2020
28	Speaking Effectively	Prof. Anjali Gera Roy	IIT KGP	January 27, 2020	March 29, 2020
29	Employment Communication A Lab based course	Prof. Seema Singh	IIT KGP	January 27, 2020	March 29, 2020
30	Human Behaviour	Prof. Naveen Kashyap	IITG	January 27, 2020	March 29, 2020
● 31	Indian Business History	Prof. Vipul Dutta	IITG	January 27, 2020	March 29, 2020
● 32	Introduction to Modern Indian Drama	Prof. Kiran Keshavamurthy	IITG	February 24, 2020	April 25, 2020
● 33	Enhancing Soft Skills and Personality	Prof. T. Ravichandran	IITK	February 24, 2020	April 25, 2020
● 34	Strategic Performance Management	Prof. KBL Srivastava	IIT KGP	February 24, 2020	April 25, 2020
● 35	Introduction to Brain & Behaviour	Prof. Ark Verma	IITK	February 24, 2020	April 26, 2020
● 36	Effective Writing	Prof. Binod Mishra	IITR	January 27, 2020	March 29, 2020
● 37	Patent Drafting for Beginners	Prof. Feroz Ali	IITM	January 27, 2020	March 29, 2020

HUMANITIES AND SOCIAL SCIENCES

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
38	Understanding Design Thinking & People Centred Design	Prof. Jhumkee Iyengar	IITK	February 24, 2020	April 25, 2020
39	Introduction to Indian Art - An appreciation	Prof. Soumik Nandi Majumdar	Visva Bharati University, Santiniketan	February 24, 2020	April 25, 2020
40	Introduction to Basic Spoken Sanskrit	Prof. Anuradha Choudry	IIT KGP	February 24, 2020	April 26, 2020

MANAGEMENT

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Introduction to Stochastic Processes	Prof. Manjesh hanawal	IITB	January 27, 2020	April 25, 2020
2	Production and Operation Management	Prof. Rajat Agrawal	IITR	January 27, 2020	April 25, 2020
3	Managerial Skills for Interpersonal Dynamics	Prof. Santosh Rangnekar	IITR	January 27, 2020	April 25, 2020
4	Engineering Econometrics	Prof. Rudra P Pradhan	IIT KGP	January 27, 2020	April 25, 2020
5	Financial Institutions and Markets	Prof. Jitendra Mahakud	IIT KGP	January 27, 2020	April 25, 2020
6	Financial Statement Analysis and Reporting	Prof. Anil K. Sharma	IITR	January 27, 2020	April 25, 2020
7	Business Statistics	Prof. Mukesh Kumar Barua	IITR	January 27, 2020	April 25, 2020
8	Infrastructure Planning and Managements	Prof. Ashwin Mahalingam	IITM	January 27, 2020	April 26, 2020
9	Marketing Research and Analysis - II	Prof. J. K. Nayak	IITR	January 27, 2020	April 26, 2020
10	Management of Inventory Systems	Prof. Pradip Kumar Ray	IIT KGP	January 27, 2020	April 26, 2020
11	Quality Design And Control	Prof. Pradip Kumar Ray	IIT KGP	January 27, 2020	April 26, 2020
12	Six Sigma	Prof. Jitesh J Thakkar	IIT KGP	January 27, 2020	April 26, 2020
13	Modelling and Analytics for Supply Chain Management	Prof. Kunal Kanti Ghosh Prof. Anupam Ghosh	IIT KGP	January 27, 2020	April 26, 2020
14	Business Analytics For Management Decision	Prof. Rudra P Pradhan	IIT KGP	January 27, 2020	April 26, 2020
15	Business analytics and data mining Modeling using R	Prof. Gaurav Dixit	IITR	January 27, 2020	April 26, 2020
16	Marketing Analytics	Prof. Swagato Chatterjee	IIT KGP	January 27, 2020	April 26, 2020
17	Financial Management For Managers	Prof. Anil K. Sharma	IITR	January 27, 2020	April 26, 2020
18	Management of Commercial Banking	Prof. Jitendra Mahakud	IIT KGP	January 27, 2020	April 26, 2020
19	Introduction to System Dynamics Modeling	Prof. Jayendran Venkateswaran	IITB	January 27, 2020	March 29, 2020
20	Integrated Marketing Management	Prof. R. Srinivasan	IISc	January 27, 2020	March 29, 2020
21	Supply Chain Analytics	Prof. Rajat Agrawal	IITR	January 27, 2020	March 29, 2020
22	Consumer Behaviour	Prof. Srabanti Mukherjee	IIT KGP	January 27, 2020	March 29, 2020
23	Principles of Human Resource Management	Prof. Aradhna Malik	IIT KGP	January 27, 2020	March 29, 2020

MANAGEMENT



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
24	Managing change in organizations	Prof. KBL Srivastava	IIT KGP	January 27, 2020	March 29, 2020
25	Foundation Course in Managerial Economics	Prof. Barnali Nag	IIT KGP	January 27, 2020	March 29, 2020
26	Behavioral and Personal Finance	Prof. Abhijeet Chandra	IIT KGP	January 27, 2020	March 29, 2020
27	Simulation of Business Systems: An Applied Approach	Prof. Deepu Philip	IITK	January 27, 2020	March 29, 2020
28	Total Quality Management - I	Prof. Raghu Nandan Sengupta	IITK	January 27, 2020	March 29, 2020
29	Services Marketing : Integrating People, Technology, Strategy	Prof. Zillur Rahman	IITR	February 24, 2020	April 25, 2020
30	Global Marketing Management	Prof. Zillur Rahman	IITR	February 24, 2020	April 26, 2020
31	Sales and Distribution Management	Prof. Sangeeta Sahney	IIT KGP	February 24, 2020	April 26, 2020
32	Introduction to Operations Research	Prof. G. Srinivasan	IITM	February 24, 2020	April 26, 2020
33	Services Marketing : A Practical Approach	Prof. Biplab Datta	IIT KGP	January 27, 2020	March 29, 2020
34	Management of New Products and Services	Prof. Jayanta Chatterjee	IITK	January 27, 2020	March 29, 2020
35	Design Thinking - A Primer	Prof. Ashwin Mahalingam Prof. Bala Ramadurai	IITM	February 24, 2020	April 25, 2020

MULTIDISCIPLINARY

1

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Qualitative Research Methods and Research Writing	Prof. Aradhna Malik	IIT KGP	January 27, 2020	April 25, 2020
2	Entrepreneurship Essentials	Prof. Manoj Kumar Mondal	IIT KGP	January 27, 2020	April 25, 2020
3	Non-Conventional Energy Resources	Prof. Prathap Haridoss	IITM	January 27, 2020	April 26, 2020
4	NBA Accreditation and Teaching - Learning in Engineering (NATE)	Prof. N J Rao Prof. K. Rajanikanth	IISc & MSRIT	January 27, 2020	April 26, 2020
5	Thermodynamics	Prof. Anand T. N. C	IITM	January 27, 2020	April 26, 2020
6	Health Research Fundamentals	Prof. P. Manickam & Team	NIE	January 27, 2020	March 29, 2020
7	Current regulatory requirements for conducting clinical trials in India for investigational new drugs/new drug (Version 2.0)	Prof. Arun B. Ramteke & Team	CDSA, THSTI	January 27, 2020	March 29, 2020
8	Matlab Programming for Numerical Computation	Prof. Niket Kaisare	IITM	January 27, 2020	March 29, 2020
9	Roadmap for patent creation	Prof. Gouri Gargate	IIT KGP	January 27, 2020	March 29, 2020
10	Ethics in Engineering Practice	Prof. Susmita Mukhopadhyay	IIT KGP	February 24, 2020	April 26, 2020
11	Introduction to Research	Prof. Prathap Haridoss	IITM	February 24, 2020	April 26, 2020
12	Fuzzy Logic and Neural Networks	Prof. Dilip Kumar Pratihari	IIT KGP	February 24, 2020	April 26, 2020
13	Manage TB	Prof. Mohan Natrajan Prof. V V Banu Rekha	NIRT	February 24, 2020	April 26, 2020
14	Regulatory requirements for medical devices including in vitro diagnostics in India (Version 2.0)	Prof. Arun B. Ramteke & Team	CDSA, THSTI	January 27, 2020	March 29, 2020
15	Effective Engineering Teaching In Practice	Prof. G. K. Suraishkumar Prof. Edamana Prasad Prof. Richa Verma	IITM	January 27, 2020	March 29, 2020
16	Designing Learner - Centric MOOCs	Prof. Sridhar Iyer & Team	IITB	January 27, 2020	March 29, 2020

DESIGN ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Geographic Information System	Prof. Bharath H Aithal	IIT KGP	January 27, 2020	April 25, 2020
2	Fundamentals of Automotive Systems	Prof. C. S. Shankar Ram	IITM	January 27, 2020	April 25, 2020
3	Design, Technology and Innovation	Prof. B. K. Chakravarthy	IITB	February 24, 2020	April 25, 2020
4	Product Design and Innovation	Prof. Supradip Das Prof. Swati Pal Prof. Debayan Dhar	IITG	January 27, 2020	March 29, 2020
5	Understanding Design	Prof. Nina Sabnani	IITB	February 24, 2020	April 25, 2020
6	Innovation by Design	Prof. B. K. Chakravarthy	IITB	February 24, 2020	April 26, 2020

OCEAN ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Offshore Structures Under Special Environmental Loads Including Fire Resistance	Prof. Srinivasan Chandrasekaran	IITM	January 27, 2020	April 25, 2020

CIVIL ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Modern Construction Materials	Prof. Ravindra Gettu	IITM	January 27, 2020	April 25, 2020
2	Mechanical Characterization of Bituminous Materials	Prof. M. R. Nivitha Prof. Neethu Roy Prof. A. Padmarekha Prof. J. Murali Krishnan	PSG Tech., Coimbatore MBCET, Trivandrum SRM IST, Kattankulathur IIT Madras	January 27, 2020	April 25, 2020
3	Maintenance and Repair of Concrete Structures	Prof. Radhakrishna G. Pillai	IITM	January 27, 2020	April 25, 2020
4	Geosynthetics and Reinforced Soil Structures	Prof. K.Rajagopal	IITM	January 27, 2020	April 25, 2020
5	Fire Protection, Services and Maintenance Management of Building	Prof. B Bhattacharjee	IITD	January 27, 2020	April 25, 2020
6	Applied Environmental Microbiology	Prof. Gargi Singh	IITR	January 27, 2020	April 25, 2020
7	Hydraulic Engineering	Prof. Mohammad Saud Afzal	IIT KGP	January 27, 2020	April 25, 2020
8	Earthquake Geology: A tool for Seismic Hazard Assessment	Prof. Javed N. Malik	IITK	January 27, 2020	April 25, 2020
9	Characterization of Construction Materials	Prof. Manu Santhanam Prof. Piyush Chaunsali	IITM	January 27, 2020	April 26, 2020

CIVIL ENGINEERING



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
10	Geotechnical Engineering - 1	Prof. D. N. Singh	IITB	January 27, 2020	April 26, 2020
11	Geotechnical Engineering II Foundation Engineering	Prof. Dilip Kumar Baidya	IIT KGP	January 27, 2020	April 26, 2020
12	Environmental Geomechanics	Prof. D. N. Singh	IITB	January 27, 2020	April 26, 2020
13	Structural Dynamics	Prof. Ramacharala Pradeep Kumar	IIITH	January 27, 2020	April 26, 2020
14	Soil Structure Interaction	Prof. Koushik Deb	IIT KGP	January 27, 2020	April 26, 2020
15	Energy Efficiency, Acoustics and Daylighting in Building	Prof. B Bhattacharjee	IITD	January 27, 2020	April 26, 2020
16	Higher Surveying	Prof. Ajay Dashora	IITG	January 27, 2020	April 26, 2020
17	Geomorphology	Prof. Pitambar Pati	IITR	January 27, 2020	April 26, 2020
18	Remote Sensing Essentials	Prof. Arun K. Saraf	IITR	January 27, 2020	April 26, 2020
19	Water Supply Engineering	Prof. Manoj Kumar Tiwari	IIT KGP	January 27, 2020	April 26, 2020
20	Environmental Remediation of Contaminated Sites	Prof. Bhanu Prakash Vellanki	IITR	January 27, 2020	April 26, 2020
21	Introduction to Civil Engineering Profession	Prof. Ravindra Gettu Prof. Subhadeep Banerjee	IITM	January 27, 2020	March 29, 2020
22	Natural Hazards	Prof. Javed N. Malik	IITK	January 27, 2020	March 29, 2020
23	Plastic Waste Management	Prof. Brajesh Kumar Dubey	IIT KGP	January 27, 2020	March 29, 2020
24	Introduction to Accounting and Finance for Civil Engineers	Prof. Sudhir Misra Prof. K.N. Jha	IITK	January 27, 2020	March 29, 2020
25	Landscape Architecture and Site Planning - Basic Fundamentals	Prof. Uttam Kumar Banerjee	IIT KGP	February 24, 2020	April 25, 2020
26	Digital Land Surveying And Mapping (DLS&M)	Prof. J. K. Ghosh	IITR	February 24, 2020	April 25, 2020
27	Architectural Conservation And Historic Preservation	Prof. Sanghamitra Basu	IIT KGP	February 24, 2020	April 26, 2020
28	Advanced Topics in the Science and Technology of Concrete	Prof. Ravindra Gettu Prof. Manu Santhanam	IITM	January 27, 2020	March 29, 2020
29	Electronic Waste Management - Issues And Challenges	Prof. Brajesh Kumar Dubey	IIT KGP	January 27, 2020	March 29, 2020
30	Introduction to Geographic Information Systems	Prof. Arun K. Saraf	IITR	January 27, 2020	March 29, 2020
31	Geo Spatial Analysis in Urban Planning	Prof. Saikat Kumar Paul	IIT KGP	January 27, 2020	March 29, 2020

ARCHITECTURE AND PLANNING



S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Sustainable Architecture	Prof. Avlokita Agrawal	IITR	January 27, 2020	April 25, 2020
2	Structure, Form and Architecture : The Synergy	Prof. Shubhajit Sadhukhan	IITR	January 27, 2020	March 29, 2020
3	Introduction to History of Architecture in India	Prof. Pushkar Sohoni	IISER Pune	January 27, 2020	March 29, 2020

MECHANICAL ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Conduction and Convection Heat Transfer	Prof. Suman Chakraborty Prof. Sankar Kumar Som	IIT KGP	January 27, 2020	April 25, 2020
2	Industrial Automation And Control	Prof. Siddhartha Mukhopadhyay	IIT KGP	January 27, 2020	April 25, 2020
3	Computational Fluid Dynamics for Incompressible Flows	Prof. Amaresh Dalal	IITG	January 27, 2020	April 25, 2020
4	Applied Ergonomics	Prof. Shantanu Bhattacharya Prof. Ankur Gupta	IITK	January 27, 2020	April 25, 2020
5	Fundamentals of Nuclear Power Generation	Prof. Dipankar N. Basu	IITG	January 27, 2020	April 26, 2020
6	IC Engines and Gas Turbines	Prof. Pranab K. Mondal Prof. Vinayak N. Kulkarni	IITG	January 27, 2020	April 26, 2020
7	Introduction To Fluid Mechanics	Prof. Suman Chakraborty	IIT KGP	January 27, 2020	April 26, 2020
8	Manufacturing Process Technology I & II	Prof. Shantanu Bhattacharya	IITK	January 27, 2020	April 26, 2020
9	Computer Integrated Manufacturing	Prof. J. Ramkumar Prof. Amandeep Singh	IITK	January 27, 2020	April 26, 2020
10	Introduction To Mechanical Micro Machining	Prof. Ajay M Sidpara	IIT KGP	January 27, 2020	April 26, 2020
11	Product Design and Manufacturing	Prof. J. Ramkumar Prof. Amandeep Singh	IITK	January 27, 2020	April 26, 2020
12	Operations Management	Prof. Inderdeep Singh	IITR	January 27, 2020	April 26, 2020
13	Experimental Methods in Fluid Mechanics	Prof. Pranab K. Mondal	IITG	January 27, 2020	April 26, 2020
14	Foundations of Computational Materials Modelling	Prof. Narasimhan Swaminathan	IITM	January 27, 2020	April 26, 2020
15	Financial Mathematics	Prof. Pradeep Kumar Jha	IITR	January 27, 2020	April 26, 2020
16	Principles of Industrial Engineering	Prof. D K Dwivedi	IITR	January 27, 2020	April 26, 2020
17	Experimental Stress Analysis	Prof. K. Ramesh	IITM	January 27, 2020	April 26, 2020
18	Power Plant Engineering	Prof. Ravi Kumar	IITR	January 27, 2020	March 29, 2020
19	Fundamentals of combustion for propulsion	Prof. S Varunkumar Prof. H S Mukunda	IITM IISc Bangalore	January 27, 2020	March 29, 2020
20	Mechanics of Machining	Prof. Uday S. Dixit	IITG	January 27, 2020	March 29, 2020
21	Introduction to Abrasive Machining and Finishing Processes	Prof. Mamilla Ravi Sankar	IITG	January 27, 2020	March 29, 2020
22	Fundamental of Welding Science and Technology	Prof. Pankaj Biswas	IITG	January 27, 2020	March 29, 2020
23	Principles of Casting Technology	Prof. Pradeep Kumar Jha	IITR	January 27, 2020	March 29, 2020
24	Automatic Control	Prof. Anil Kumar	IITR	January 27, 2020	March 29, 2020
25	Robotics and Control : Theory and Practice	Prof. N. Sukavanam Prof. M. Felix Orlando	IITR	January 27, 2020	March 29, 2020
26	Processing of Polymers and Polymer Composites	Prof. Inderdeep Singh	IITR	January 27, 2020	March 29, 2020
27	Acoustic Materials and Metamaterials	Prof. Sneha Singh	IITR	January 27, 2020	March 29, 2020
28	Kinematics of Mechanisms and Machines	Prof. Anirvan DasGupta	IIT KGP	January 27, 2020	March 29, 2020

MECHANICAL ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
29	Modelling and Simulation of Dynamic Systems	Prof. Pushparaj Mani Pathak	IITR	January 27, 2020	March 29, 2020
30	Engineering Mechanics - Statics and Dynamics	Prof. Anubhab Roy	IITM	January 27, 2020	March 29, 2020
31	Gear And Gear Unit Design : Theory And Practice	Prof. Rathindranath Maiti	IIT KGP	February 24, 2020	April 25, 2020
32	Introduction to Soft Matter	Prof. Aloke Kumar	IISc	February 24, 2020	April 25, 2020
33	Steam and Gas Power Systems	Prof. Ravi Kumar	IITR	February 24, 2020	April 26, 2020
34	Failure analysis and Prevention	Prof. D. K. Dwivedi	IITR	February 24, 2020	April 26, 2020
35	Nature and Properties of Materials	Prof. Bisakh Bhattacharya	IITK	February 24, 2020	April 26, 2020
36	Laws of Thermodynamics	Prof. Sankar Kumar Som Prof. Suman Chakraborty	IIT KGP	January 27, 2020	March 29, 2020
37	Two phase flow and heat transfer	Prof. Arup Kumar Das	IITR	January 27, 2020	March 29, 2020
38	Machining Science	Prof. Sounak Kumar Choudhury	IITK	January 27, 2020	March 29, 2020
39	Non Traditional Abrasive Machining Processes Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining	Prof. Asimava Roy Choudhury	IIT KGP	January 27, 2020	March 29, 2020
40	Metal Cutting And Machine Tools	Prof. Asimava Roy Choudhury	IIT KGP	February 24, 2020	April 25, 2020
41	Inspection and Quality Control in Manufacturing	Prof. Kaushik Pal	IITR	February 24, 2020	April 25, 2020
42	Convective Heat Transfer	Prof. Arup Kumar Das	IITR	February 24, 2020	April 26, 2020

AEROSPACE ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Rocket Propulsion	Prof. K. Ramamurthi Prof. S. Varunkumar	IITM	January 27, 2020	April 25, 2020
2	Introduction to Airplane Performance	Prof. A. K. Ghosh	IITK	January 27, 2020	March 29, 2020
3	Aircraft Maintenance	Prof. A. K. Ghosh Prof. Vipul Mathur	IITK	January 27, 2020	March 29, 2020

METALLURGICAL AND MATERIALS ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Welding Processes	Prof. Murugaiyan Amirthalingam	IITM	January 27, 2020	April 25, 2020
2	Material Characterization	Prof. Sankaran.S	IITM	January 27, 2020	April 25, 2020
3	Introduction to Materials Science and Engineering	Prof. Rajesh Prasad	IITD	January 27, 2020	April 26, 2020
4	Dealing with materials data : collection, analysis and interpretation	Prof. M P Gururajan	IITB	January 27, 2020	April 26, 2020
5	Steel Quality : Role of Secondary Refining & Continuous Casting	Prof. Santanu Kr. Ray	IITM	January 27, 2020	April 25, 2020
6	Diffusion in Multicomponent Solids	Prof. Kaustubh Kulkarni	IITK	January 27, 2020	April 26, 2020

METALLURGICAL AND MATERIALS ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
7	Materials Science and Engineering	Prof. Vivek Pancholi	IITR	January 27, 2020	March 29, 2020
8	Fundamentals Of Electronic Materials And Devices	Prof. Parasuraman Swaminathan	IITM	January 27, 2020	March 29, 2020
9	Corrosion - Part I	Prof. Kallol Mondal	IITK	January 27, 2020	March 29, 2020
10	Theory and Practice of Non Destructive Testing	Prof. Ranjit Bauri	IITM	January 27, 2020	March 29, 2020
11	Friction and Wear of materials : Principle and case studies	Prof. B. V. Manoj Kumar Prof. Bikramjit Basu	IITR & IISc	January 27, 2020	March 29, 2020
12	Surface Engineering of Nanomaterials	Prof. Kaushik Pal	IITR	January 27, 2020	March 29, 2020
13	Solar Photovoltaics : Principles, Technologies & Materials	Prof. Ashish Garg	IITK	January 27, 2020	March 29, 2020
14	Modeling of tundish steelmaking process in continuous casting	Prof. Pradeep Kumar Jha	IITR	January 27, 2020	March 29, 2020
15	Properties of Materials (Nature and Properties of Materials : III)	Prof. Ashish Garg	IITK	February 24, 2020	April 26, 2020

CHEMICAL ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Chemical Reaction Engineering II	Prof. Ganesh Viswanathan	IITB	January 27, 2020	April 25, 2020
2	Environmental Quality Monitoring & Analysis	Prof. Ravi Krishna R	IITM	January 27, 2020	April 25, 2020
3	Membrane Technology	Prof. Kaustubha Mohanty	IITG	January 27, 2020	April 25, 2020
4	Optimization in Chemical Engineering	Prof. Debasis Sarkar	IIT KGP	January 27, 2020	April 25, 2020
5	Computational Fluid Dynamics	Prof. Sreenivas Jayanti	IITM	January 27, 2020	April 26, 2020
6	Transport processes I - Heat and Mass Transfer	Prof. Kumaran V	IISc	January 27, 2020	April 26, 2020
7	Process Control - Design, Analysis and Assessment	Prof. Ragunathan Rengasamy	IITM	January 27, 2020	April 26, 2020
8	Heat Transfer	Prof. Ganesh Viswanathan	IITB	January 27, 2020	April 26, 2020
9	Mass Transfer Operations - I	Prof. Bishnupada Mandal	IITG	January 27, 2020	April 26, 2020
10	Basic Principles and Calculations in Chemical Engineering	Prof. Subrata Kumar Majumdar	IITG	January 27, 2020	April 26, 2020
11	Transport phenomena	Prof. Sunando DasGupta	IIT KGP	January 27, 2020	April 26, 2020
12	Advanced Thermodynamics	Prof. Nanda Kishore	IITG	January 27, 2020	April 26, 2020
13	Waste to Energy Conversion	Prof. P. Mondal	IITR	January 27, 2020	March 29, 2020
14	Electrochemical Technology in Pollution Control	Prof. J. R. Mudakavi	IISc	January 27, 2020	March 29, 2020
15	Soft Nano Technology	Prof. Rabibrata Mukherjee	IIT KGP	January 27, 2020	March 29, 2020

CHEMICAL ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
16	Multiphase Flows	Prof. Rajesh Kumar Upadhyay	IITG	January 27, 2020	March 29, 2020
17	Computer Aided Applied Single Objective Optimization	Prof. Prakash Kotecha	IITG	January 27, 2020	March 29, 2020
18	Equipment Design : Mechanical Aspects	Prof. Shabina Khanam	IITR	January 27, 2020	March 29, 2020
19	An Introduction to Cardiovascular Fluid Mechanics	Prof. Raghvendra Gupta	IITG	January 27, 2020	March 29, 2020
20	Introduction To Process Modeling In The Membrane Separation Process	Prof. Sirshendu De	IIT KGP	February 24, 2020	April 25, 2020

TEXTILE ENGINEERING


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Evaluation of Textiles Materials	Prof. Apurba Das	IITD	January 27, 2020	April 25, 2020
2	Textured Yarn Technology	Prof. Kushal Sen	IITD	January 27, 2020	April 26, 2020
3	Theory of Yarn Structure	Prof. Dipayan Das	IITD	January 27, 2020	April 26, 2020
4	Advanced Textile Printing Technology	Prof. Kushal Sen	IITD	January 27, 2020	March 29, 2020

PHYSICS


S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Physics of Biological Systems	Prof. Mithun Mitra	IITB	January 27, 2020	April 25, 2020
2	Electronic Theory of Solids	Prof. Arghya Taraphder	IIT KGP	January 27, 2020	April 25, 2020
3	Introduction to Atmospheric and Space Sciences	Prof. M V Sunil Krishna	IITR	January 27, 2020	April 25, 2020
4	Group Theory methods in Physics	Prof. P. Ramadevi	IITB	January 27, 2020	April 26, 2020
5	Experimental Physics - II	Prof. Amal Kumar Das	IIT KGP	January 27, 2020	April 26, 2020
6	Quantum Mechanics I	Prof. P. Ramadevi	IITB	January 27, 2020	April 26, 2020
7	Electromagnetism	Prof. Nirmal Ganguli	IISER Bhopal	January 27, 2020	April 26, 2020
8	Experimental Physics III	Prof. Amal Kumar Das	IIT KGP	January 27, 2020	April 26, 2020
9	Fiber Optics	Prof. Vipul Rastogi	IITR	January 27, 2020	March 29, 2020
10	Physics through Computational Thinking	Prof. Auditya Sharma Prof. Ambar Jain	IISER Bhopal	February 24, 2020	April 25, 2020
11	A brief course on Superconductivity	Prof. Saurabh Basu	IITG	January 27, 2020	March 29, 2020
12	Optical Sensors	Prof. Sachin Kumar Srivastava	IITR	January 27, 2020	March 29, 2020

MATHEMATICS

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Linear Algebra	Prof. Pranav Haridas	Kerala School of Mathematics	January 27, 2020	April 25, 2020
2	Ordinary and Partial Differential Equations and Applications	Prof. P. N. Agrawal Prof. D. N. Pandey	IITR	January 27, 2020	April 25, 2020
3	Mathematical Methods and its Applications	Prof. P. N. Agrawal Prof. S. K. Gupta	IITR	January 27, 2020	April 25, 2020
4	An introduction to smooth manifolds	Prof. Harish Seshadri	IISc	January 27, 2020	April 25, 2020
5	Measure Theory	Prof. E. K. Narayanan	IISc	January 27, 2020	April 25, 2020
6	Integral and Vector Calculus	Prof. Hari Shankar Mahato	IIT KGP	January 27, 2020	April 25, 2020
7	Chaotic Dynamical System	Prof. Anima Nagar	IITD	January 27, 2020	April 25, 2020
8	Basic Real Analysis	Prof. I. K. Rana	IITB	January 27, 2020	April 26, 2020
9	Numerical Linear Algebra	Prof. P. N. Agrawal Prof. D. N. Pandey	IITR	January 27, 2020	April 26, 2020
10	Advanced Engineering Mathematics	Prof. P. N. Agrawal	IITR	January 27, 2020	April 26, 2020
11	Engineering Mathematics II	Prof. Jitendra Kumar	IIT KGP	January 27, 2020	April 26, 2020
12	Introduction to Algebraic Geometry and Commutative Algebra	Prof. Dilip P. Patil	IISc	January 27, 2020	April 26, 2020
13	Probabilistic Methods in PDE	Prof. Anindya Goswami	IISER Pune	January 27, 2020	April 26, 2020
14	Transform Calculus and its applications in Differential Equations	Prof. Adrijit Goswami	IIT KGP	January 27, 2020	April 26, 2020
15	Advanced Probability Theory	Prof. Niladri Chatterjee	IITD	January 27, 2020	April 26, 2020
16	Introduction To Rings And Fields	Prof. Krishna Hanumanthu	CMI	January 27, 2020	March 29, 2020
17	Graph Theory	Prof. Soumen Maity	IISER Pune	January 27, 2020	March 29, 2020
18	Multivariable calculus	Prof. S. K. Gupta Prof. Sanjeev Kumar	IITR	January 27, 2020	March 29, 2020
19	Statistical Inference	Prof. Niladri Chatterjee	IITD	January 27, 2020	March 29, 2020
20	Basic Linear Algebra	Prof. I. K. Rana	IITB	February 24, 2020	April 26, 2020
21	Numerical Methods : Finite difference approach	Prof. Ameet Kumar Nayak	IITR	January 27, 2020	March 29, 2020
22	Introduction to probability and Statistics	Prof. G. Srinivasan	IITM	January 27, 2020	March 29, 2020

CHEMISTRY

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
1	Medicinal Chemistry	Prof. Harinath Chakrapani	IISER Pune	January 27, 2020	April 25, 2020
2	Advanced Chemical Thermodynamics and Kinetics	Prof. Arijit Kumar De	IISER Mohali	January 27, 2020	April 25, 2020
3	Ultrafast laser spectroscopy	Prof. Anindya Datta	IITB	January 27, 2020	April 25, 2020
4	Transition Metal Organometallics in Catalysis and Biology	Prof. P. Ghosh	IITB	January 27, 2020	April 25, 2020

CHEMISTRY

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
● 5	Biochemistry	Prof. Swagata Dasgupta	IIT KGP	January 27, 2020	April 26, 2020
6	Basic thermodynamics : Classical and Statistical Approaches	Prof. Arnab Mukherjee	IISER Pune	January 27, 2020	April 26, 2020
● 7	Quantitative Methods in Chemistry	Prof. Aasheesh Srivastava Prof. Bharathwaj Sathyamoorthy	IISER Bhopal	January 27, 2020	April 26, 2020
● 8	Essentials of Biomolecules : Nucleic Acids and Peptides	Prof. Lal Mohan Kundu	IITG	January 27, 2020	April 26, 2020
9	Fundamentals of Spectroscopy	Prof. Sayan Bagchi Prof. Anirban Hazra	NCL Pune, IISER Pune	January 27, 2020	April 26, 2020
● 10	Chemical Applications of Symmetry and Group Theory	Prof. Manabendra Chandra	IITK	January 27, 2020	March 29, 2020
● 11	Pericyclic Reactions and Organic Photochemistry	Prof. Sankararaman	IITM	February 24, 2020	April 25, 2020
12	Organometallic Chemistry	Prof. D. Maiti	IITB	January 27, 2020	March 29, 2020
13	Basics in Inorganic Chemistry	Prof. D. Maiti	IITB	January 27, 2020	March 29, 2020
14	Reactive Intermediates Carbene and Nitrene	Prof. Rajarshi Samanta	IIT KGP	February 24, 2020	April 26, 2020

BIOTECHNOLOGY & BIOENGINEERING

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date
● 1	Forests and their management	Prof. Ankur Awadhiya	IITK	January 27, 2020	April 25, 2020
● 2	Interactomics : Basics & Applications	Prof. Sanjeeva Srivastava	IITB	January 27, 2020	April 25, 2020
3	Material and Energy Balances	Prof. Vignesh Muthuvijayan	IITM	January 27, 2020	April 25, 2020
● 4	Computational Systems Biology	Prof. Karthik Raman	IITM	January 27, 2020	April 25, 2020
● 5	Optical Spectroscopy and Microscopy : Fundamentals of optical measurements and instrumentation	Prof. Balaji Jayaprakash	IISc	January 27, 2020	April 25, 2020
● 6	Bio-Informatics : Algorithms and Applications	Prof. Michael Gromiha	IITM	January 27, 2020	April 26, 2020
7	Thermodynamics for Biological Systems : Classical and Statistical Aspect	Prof. Suraishkumar G K Prof. Sanjib Senapati	IITM	January 27, 2020	April 26, 2020
● 8	Forest Biometry	Prof. Ankur Awadhiya	IITK	January 27, 2020	March 29, 2020
9	Bioengineering : An Interface with Biology and Medicine	Prof. Sanjeeva Srivastava	IITB	January 27, 2020	March 29, 2020
● 10	Biostatistics and Design of experiments	Prof. Mukesh Doble	IITM	January 27, 2020	March 29, 2020
● 11	Principles and Applications of NMR Spectroscopy	Prof. H. S. Atreya	IISc	January 27, 2020	March 29, 2020
● 12	Medical Biomaterials	Prof. Mukesh Doble	IITM	February 24, 2020	April 25, 2020
● 13	Cell Culture Technologies	Prof. Mainak Das	IITK	February 24, 2020	April 25, 2020
● 14	Introductory Mathematical Methods for Biologists	Prof. Ranjit Padinhateeri	IITB	February 24, 2020	April 26, 2020
● 15	Introduction to Professional Scientific Communication	Prof. S. Ganesh	IITK	January 27, 2020	March 29, 2020
● 16	Human Molecular Genetics	Prof. S. Ganesh	IITK	January 27, 2020	March 29, 2020
● 17	Demystifying the Brain	Prof. Srinivas Chakravarthy	IITM	January 27, 2020	March 29, 2020
● 18	Bioenergetics of Life Processes	Prof. Mainak Das	IITK	February 24, 2020	April 26, 2020

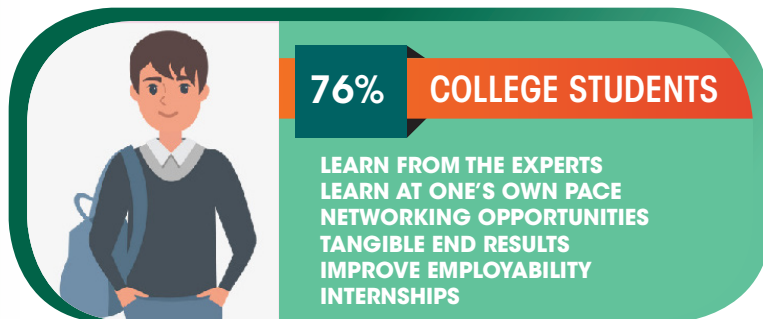
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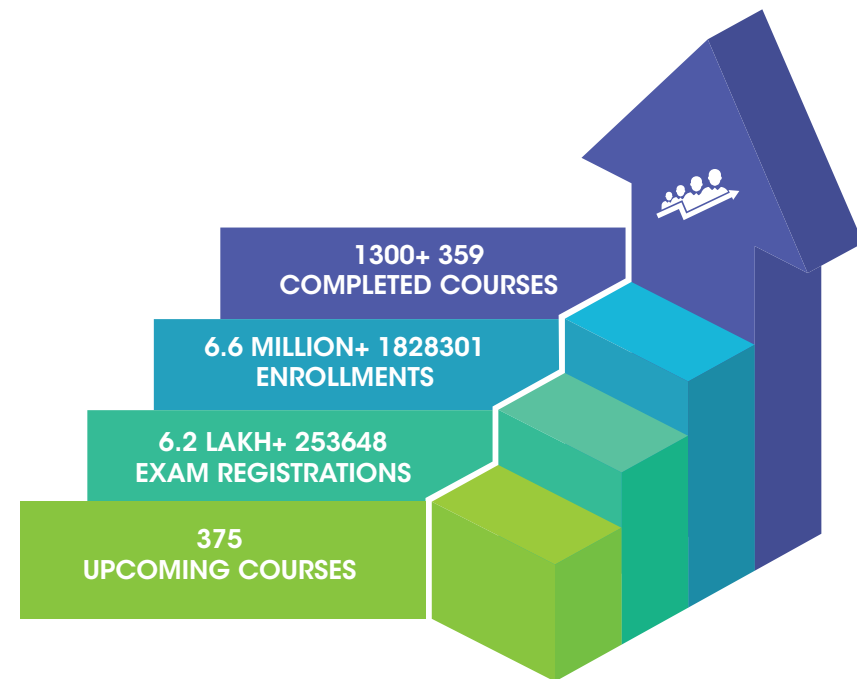
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