

SWAYAM-NPTEL Local Chapter, IEHE, Bhopal

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SWAYAM-NPTEL Online Courses Available for Registration (July-Nov. 2019)

Subject : Agriculture and Food Engineering

Discipline	Course Name	SME Name	Institute	Duration
Agriculture and Food Engineering	Farm Machinery	Prof. VK Tewari	IITKGP	12 Weeks
Agriculture and Food Engineering	Fundamentals of Food Process Engineering	Prof. Jayeeta Mitra	IITKGP	12 Weeks
Agriculture and Food Engineering	Irrigation and Drainage	Prof. Damodhara Rao Mailapalli	IITKGP	12 Weeks
Agriculture and Food Engineering	Organic Farming for Sustainable Agricultural Production	Prof. Dilip Kumar Swain	IITKGP	8 weeks
Agriculture and Food Engineering	Dairy and Food process and products technology	Prof. Tridib Kumar Goswami	IITKGP	12 Weeks
Agriculture and Food Engineering	Thermal Operations in Food Process Engineering: Theory and Applications	Prof. Tridib Kumar Goswami	IITKGP	12 Weeks
Agriculture and Food Engineering	Thermal Processing of Foods	Prof. R. Anandalakshmi	IITG	12 Weeks

Subject : Biotechnology & Bioengineering

Discipline	Course Name	SME Name	Institute	Duration
Biotechnology & Bioengineering	Genetic Engineering: Theory and Application	Prof. Vishal Trivedi	IITG	12 weeks
Biotechnology & Bioengineering	Bioenergy	Prof. Mainak Das	IITK	8 weeks
Biotechnology & Bioengineering	Plant Developmental Biology	Prof. Shri Ram Yadav	IITR	4 weeks
Biotechnology & Bioengineering	Plant Cell Bioprocessing	Prof. Smita Srivastava	IITM	8 weeks
Biotechnology & Bioengineering	Introduction to Biostatistics	Prof. Shamik Sen	IITB	8 weeks
Biotechnology & Bioengineering	Industrial Biotechnology	Prof. Debabrata Das	IITKGP	12 Weeks
Biotechnology & Bioengineering	Nanotechnology in Agriculture	Prof. Mainak Das	IITK	8 weeks
Biotechnology & Bioengineering	Computer Aided Drug Design	Prof. Mukesh Doble	IITM	8 weeks
Biotechnology & Bioengineering	Drug Delivery: Principles and Engineering	Rachit Agarwal	IISc	12 Weeks
Biotechnology & Bioengineering	Functional Genomics	Prof. S. Ganesh	IITK	4 weeks
Biotechnology & Bioengineering	Introduction To Proteomics	Prof. Sanjeeva Srivastava	IITB	8 weeks
Biotechnology & Bioengineering	Introduction to Proteogenomics	Prof. Sanjeeva Srivastava	IITB	12 weeks
Biotechnology & Bioengineering	Biomicrofluidics	Prof. Tapas Kumar Maiti & Prof. Suman Chakraborty	IITKGP	4 Weeks

Biotechnology & Bioengineering	Biomedical nanotechnology	Prof. P. Gopinath	IITR	4 weeks
Biotechnology & Bioengineering	Fundamentals of micro and nanofabrication	Prof Sushobhan Avasti Prof. Shankar Selvaraja	IISc	12 Weeks
Biotechnology & Bioengineering	Introduction to Mechanobiology	Prof. Shamik Sen	IITB	8 weeks
Biotechnology & Bioengineering	Principles Of Downstream Techniques In Bioprocess	Prof. Mukesh Doble	IITM	12 Weeks
Biotechnology & Bioengineering	WildLife Conservation	Prof. Ankur Awadhiya	IITK	8 weeks
Biotechnology & Bioengineering	Tissue engineering	Prof. Vignesh Muthuvijayan	IITM	8 weeks

Subject : Chemistry and Biochemistry

Discipline	Course Name	SME Name	Institute	Duration
Chemistry and Biochemistry	Analytical Chemistry	Prof. Debashis Ray	IITKGP	12 Weeks
Chemistry and Biochemistry	Coordination Chemistry	Prof. Debashis Ray	IITKGP	12 Weeks
Chemistry and Biochemistry	Introductory Organic Chemistry I	Prof. Neeraja Dashaputre Prof. Harinath Chakrapani	IISER Pune	8 weeks
Chemistry and Biochemistry	Mechanisms in Organic Chemistry	Prof. Nandita Madhavan	IITB	8 weeks
Chemistry and Biochemistry	Organic Chemistry in Biology and Drug Development.	Prof. Amit Basak	IITKGP	12 Weeks
Chemistry and Biochemistry	Principles Of Organic Synthesis	Prof. T Punniyamurthy	IITG	12 Weeks
Chemistry and Biochemistry	Reagents In Organic Synthesis	Prof. Bhisma Kumar Patel	IITG	12 Weeks
Chemistry and Biochemistry	Stereochemistry	Prof. Amit Basak	IITKGP	8 weeks
Chemistry and Biochemistry	Bioinorganic Chemistry	Prof. S. P. Rath	IITK	4 Weeks
Chemistry and Biochemistry	Metals In Biology	Prof. D. Maiti	IITB	8 Weeks
Chemistry and Biochemistry	Ultrafast Optics and Spectroscopy	Prof. Atanu Bhattacharya	IISc	12 Weeks
Chemistry and Biochemistry	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Prof. Shashank Deep	IITD	12 Weeks
Chemistry and Biochemistry	NMR spectroscopy for Chemists and Biologists	Prof. Ashutosh Kumar and Prof. R. V Hosur	IITB	12 weeks

Chemistry and Biochemistry	Quantum Computing	Prof. Debabrata Goswami	IITK	12 Weeks
Chemistry and Biochemistry	Thermodynamics: classical to statistical	Prof. Sandip Paul	IITG	12 weeks
Chemistry and Biochemistry	Introductory Non-Linear Dynamics	Prof. Ramakrishna Ramaswamy	IITD	4 weeks
Chemistry and Biochemistry	Biophysical chemistry	Prof. Pramit Kumar Chowdhury	IITD	12 weeks
Chemistry and Biochemistry	Chemical Crystallography	Prof. Angshuman Roy Choudhury	IISER Mohali	12 weeks

Subject : Computer Science and Engineering

Discipline	Course Name	SME Name	Institute	Duration
Computer Science and Engineering	Programming in C++	Prof. Partha Pratim Das	IITKGP	8 weeks
Computer Science and Engineering	An Introduction To Programming Through C++	Prof. Abhiram Ranade	IITB	12 Weeks
Computer Science and Engineering	Programming, Data Structures And Algorithms Using Python	Prof. Madhavan Mukund	CMI	8 weeks
Computer Science and Engineering	The Joy of Computing using Python	Prof. Sudarshan Iyengar	IITRopar	12 Weeks
Computer Science and Engineering	Introduction to Programming in C	Prof. Satyadev Nandakumar	IITK	8 weeks
Computer Science and Engineering	Problem Solving through Programming in C	Prof. Anupam Basu	IITKGP	12 Weeks
Computer Science and Engineering	C Programming and Assembly Language	Prof. Janakiraman Viraraghavan	IITM	4 Weeks
Computer Science and Engineering	Introduction to parallel Programming in Open MP	Prof. Yogish Sabharwal	IITD	4 Weeks
Computer Science and Engineering	Data Base Management System	Prof. Partha Pratim Das	IITKGP	8 weeks
Computer Science and Engineering	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	8 weeks
Computer Science and Engineering	Object oriented analysis and design	Prof. Partha Pratim Das	IITKGP	8 weeks
Computer Science and Engineering	Discrete Mathematics	Prof. Sajith Gopalan, Prof. Benny George K	IITG	12 Weeks
Computer Science and Engineering	Introduction to Operating Systems	Prof. Chester Rebeiro	IITM	8 weeks

Computer Science and Engineering	Operating System Fundamentals	Prof. Santanu Chattopadhyay	IITKGP	12 Weeks
Computer Science and Engineering	Introduction to Machine Learning	Prof. Sudeshna Sarkar	IITKGP	8 weeks
Computer Science and Engineering	Introduction to Machine Learning	Prof. Balaraman Ravindran	IIT Madras	12 Weeks
Computer Science and Engineering	Deep Learning	Prof. Prabir Kumar Biswas	IITKGP	12 Weeks
Computer Science and Engineering	Reinforcement Learning	Prof. Balaraman Ravindran	IIT Madras	12 Weeks
Computer Science and Engineering	Natural Language Processing	Prof. Pawan Goyal	IITKGP	12 Weeks
Computer Science and Engineering	Applied Natural Language Processing	Prof. Ramaseshan R	CMI	12 Weeks
Computer Science and Engineering	Computer Vision	Prof. Jayanta Mukhopadhyay	IITKGP	12 Weeks
Computer Science and Engineering	Python for Data Science	Prof. Raghunathan Rengasamy	IIT Madras	4 Weeks
Computer Science and Engineering	Data Science for Engineers	Prof. Ragunathan Rengasamy and Prof. Shankar Narasimhan	IIT Madras	8 Weeks
Computer Science and Engineering	Scalable Data Science	Prof. Anirban Dasgupta and Prof. S. Bhattacharya	IITKGP	8 weeks
Computer Science and Engineering	Advanced Computer Architecture	Prof. John Jose	IITG	8 weeks
Computer Science and Engineering	Blockchain Architecture Design and Use Cases	Prof. Sandip Chakraborty & Prof. Praveen Jayachandran	IITKGP	12 Weeks
Computer Science and Engineering	Cloud Computing	Prof. Soumya Kanti Ghosh	IITKGP	8 weeks

Computer Science and Engineering	Introduction to Internet of Things	Prof. Sudip Misra	IITKGP	12 Weeks
Computer Science and Engineering	Social Networks	Prof. Poonam Saini Prof. Sudarshan Iyengar	Punjab Engineering College & IIT Ropar	12 weeks
Computer Science and Engineering	Discrete Mathematics	Prof. Sudarshan Iyengar	IITRopar	12 Weeks
Computer Science and Engineering	Ethical Hacking	Prof. Indranil Sengupta Prof. S. K Ghosh	IITKGP	12 Weeks
Computer Science and Engineering	Software Engineering	Prof. Rajib Mall	IITKGP	12 Weeks
Computer Science and Engineering	Software Project Management	Prof. Rajib Mall and Prof. Durga Prasad Mohapatra	IITKGP	12 Weeks
Computer Science and Engineering	Software testing	Prof. Meenakshi D'souza	IITB	12 Weeks
Computer Science and Engineering	Hardware modeling using verilog	Prof. Indranil Sengupta	IITKGP	8 Weeks
Computer Science and Engineering	Synthesis of Digital Systems	Prof. Preeti Ranjan Panda	IITD	12 Weeks
Computer Science and Engineering	Switching Circuits and Logic Design	Prof. Indranil Sengupta	IITKGP	12 Weeks
Computer Science and Engineering	Demystifying networking	Prof. Sridhar Iyer	IITB	4 Weeks
Computer Science and Engineering	Spatial Informatics	Prof. Soumya K Ghosh	IITKGP	8 weeks
Computer Science and Engineering	Fuzzy Systems and Applications	Prof. Nishchal K Verma	IITK	12 weeks
Computer Science and Engineering	Modern Algebra	Prof. Manindra Agrawal	IITK	8 weeks

Computer Science and Engineering	Theory of Computation	Prof. Raghunath Tewari	IITK	8 weeks
Computer Science and Engineering	Introduction To Haskell Programming	Prof. Madhavan Mukund Prof. S. P Suresh	CMI	8 weeks
Computer Science and Engineering	Practical Machine Learning with Tensorflow	Prof. Ashish Tendulkar Prof. B. Ravindran	IITM & Google	8 weeks
Computer Science and Engineering	Machine Learning for Engineering and Science Applications	Prof. Balaji Srinivasan and Prof. Ganapathy	IITM	12 weeks
Computer Science and Engineering	Artificial Intelligence Search Methods For Problem Solving	Prof. Deepak Khemani	IITM	12 weeks
Computer Science and Engineering	Programming In Java	Prof. Debasis Samanta	IIT Kharagpur	12 weeks
Computer Science and Engineering	Deep Learning – Part 1	Prof. Mitesh M. Khapra Prof. Sudarshan Iyengar	IITM	12 weeks
Computer Science & Engineering	Human Computer Interactions	Prof. K.Ponnurangam	IITD	8 weeks

Subject : Earth Sciences AND Electrical Engineering

Discipline	Course Name	SME Name	Institute	Duration
Earth Sciences	Global Navigation Satellite Systems And Applications	Prof. Arun K. Saraf	IITR	4 weeks
Earth Sciences	Geomorphic Processes: Landforms and Landscapes	Prof. Javed N. Malik	IITK	8 weeks
Earth Sciences	Structural Geology	Prof. Santanu Misra	IITK	12 weeks
Electrical Engineering	Mapping Signal Processing Algorithms to DSP Architectures	Prof. Nitin Chandrachoodan	IITM	12 weeks
Electrical Engineering	Introduction to Computer Vision	Prof. Brejesh Lall	IITD	12 weeks
Electrical Engineering	Fundamentals of Electrical Engineering	Prof. Debapriya Das	IITKGP	12 Weeks
Electrical Engineering	Basic Electric Circuits	Prof. Ankush Sharma	IITK	12 weeks
Electrical Engineering	Power Electronics	Prof. G.Bhuvaneshwari	IITD	12 weeks
Electrical Engineering	Analog Electronic Circuit	Prof. Shouribrata chatterjee	IITD	12 weeks
Electrical Engineering	Op-Amp Practical Applications: Design, Simulation and Implementation	Prof. Hardik J Pandya Prof Chandramani Kishore Singh	IISc	12 Weeks
Electrical Engineering	Fabrication Techniques for MEMS-based sensors: clinical Perspective	Prof. Hardik J Pandya Prof Chandramani Kishore Singh	IISc	12 Weeks
Electrical Engineering	Sensors and Actuators	Prof. Hardik J Pandya	IISc	12 Weeks
Electrical Engineering	Control engineering	Prof.Ramkrishna Pasumarthy	IIT Madras	12 Weeks

Electrical Engineering	Linear System Theory	Prof. Ramakrishna Pasumarthi	IITM	12 weeks
Electrical Engineering	Electrical Measurement and Electronic Instruments	Prof. Avishek Chatterjee	IITKGP	12 Weeks
Electrical Engineering	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	Prof. Yogesh Vijay Hote	IITR	8 weeks
Electrical Engineering	Analog Communication	Prof. Goutam Das	IITKGP	12 Weeks
Electrical Engineering	Principles of Communication Systems - Part II	Prof. Aditya K. Jagannatham	IITK	8 weeks
Electrical Engineering	Introduction to Wireless and Cellular Communications	Prof. David Koilpillai	IITM	12 Weeks
Electrical Engineering	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications	Prof. Aditya K. Jagannatham	IITK	8 weeks
Electrical Engineering	Digital Signal Processing	Prof. C.S.Ramalingam	IITM	12 weeks
Electrical Engineering	Digital Circuits	Prof. Santanu Chattopadhyay	IITKGP	12 Weeks
Electrical Engineering	Digital Switching - I	Prof. Y.N.Singh	IITK	8 weeks
Electrical Engineering	Neural Networks for Signal Processing – I	Prof. Shayan Srinivasa Garani	IISc	12 Weeks
Electrical Engineering	Microelectronics: Devices To Circuits	Prof. Sudeb Dasgupta	IITR	12 Weeks
Electrical Engineering	Digital Image Processing	Prof. Prabir Kumar Biswas	IITKGP	12 Weeks
Electrical Engineering	Pattern Recognition and Application	Prof. Prabir Kumar Biswas	IITKGP	12 Weeks
Electrical Engineering	Microwave Theory and Techniques	Prof. Girish Kumar	IITB	12 Weeks

Electrical Engineering	Principles and Techniques of Modern Radar Systems	Prof. Amitabha Bhattacharya	IITKGP	12 Weeks
Electrical Engineering	Computational Electromagnetics	Prof. Uday Khankhoje	IITM	12 weeks
Electrical Engineering	Electrical Machines - I	Prof. Tapas Kumar Bhattacharya	IITKGP	12 weeks
Electrical Engineering	Electrical Distribution System Analysis	Prof. G. B. Kumbhar	IITR	8 weeks
Electrical Engineering	Power System Analysis	Prof. Debapriya Das	IITKGP	12 Weeks
Electrical Engineering	Dc Microgrid	Prof. Avik Bhattacharya	IITR	8 weeks
Electrical Engineering	Introduction to Smart Grid	Prof. N.P. Padhy & Prof. Premalata Jena	IITR	8 weeks
Electrical Engineering	Fundamentals of Electric Drives	Prof. Shyama Prasad Das	IITK	8 weeks
Electrical Engineering	Infrared Spectroscopy for Pollution Monitoring	Prof. J R Mudakavi	IISc	4 Weeks
Electrical Engineering	Fiber-Optic Communication Systems and Techniques	Prof. K. Pradeep Kumar	IITK	12 weeks
Electrical Engineering	Microwave Engineering	Prof. Ratnajit Bhattacharjee	IITG	12 weeks
Electrical Engineering	Electrical Machines	Prof. G. Bhuvaneshwari	IITD	12 weeks
Metallurgical & Materials Engineering	Nanotechnology, Science and Applications	Prof. Prathap Haridoss	IITM	8 weeks

Subject : Humanities and Social Sciences

Discipline	Course Name	SME Name	Institute	Duration
Humanities and Social Sciences	Technical english for engineers	Prof. Aysha Iqbal	IITM	8 weeks
Humanities and Social Sciences	Developing Soft Skills and Personality	Prof. T Ravichandran	IITK	8 weeks
Humanities and Social Sciences	Soft skills	Prof. Binod Mishra	IITR	12 weeks
Humanities and Social Sciences	Body language: Key to professional Success	Prof. Rashmi Gaur	IITR	4 Weeks
Humanities and Social Sciences	Ethics in Engineering Practice	Prof. Susmita Mukhopadhyay	IITKGP	8 weeks
Humanities and Social Sciences	Interpersonal Skills	Prof. Smita Jha	IITR	4 Weeks
Humanities and Social Sciences	Appreciating Linguistics: A typological approach	Prof. Anindita	IIT Madras	12 weeks
Humanities and Social Sciences	Artistic Exploration in Scientific Research And Technology	Prof. Bitasta Das	IISc	4 Weeks
Humanities and Social Sciences	Population Studies	Prof. A. K. Sharma	IITK	4 weeks
Humanities and Social Sciences	Inclusion and Technology Design	Prof. Bidisha and Prof.Amit Prakash	IITM	4 Weeks
Humanities and Social Sciences	Water, Society and Sustainability	Prof. Jenia Mukherjee	IITKGP	4 Weeks
Humanities and Social Sciences	Energy Economics And Policy	Prof. Shyamasree Dasgupta	IIT Mandi	8 weeks
Humanities and Social Sciences	The Psychology Of Language	Prof. Naveen Kashyap	IITG	8 weeks

Humanities and Social Sciences	Applied Linguistics	Prof. Rajesh Kumar	IITM	12 Weeks
Humanities and Social Sciences	History of English Language and Literature	Prof. Merin Simi Raj	IITM	12 Weeks
Humanities and Social Sciences	Indian Fiction in English	Prof. Merin Simi Raj	IITM	12 Weeks
Humanities and Social Sciences	Short Fiction in Indian Literature	Prof. Divya A	IITM	12 Weeks
Humanities and Social Sciences	The Victorian Gothic Short Story	Prof. Divya A	IITM	4 Weeks
Humanities and Social Sciences	German-II	Prof. Milind Brahme	IITM	12 weeks
Humanities and Social Sciences	German-I	Prof. Milind Brahme	IITM	12 weeks
Humanities and Social Sciences	Introduction to Japanese Language and Culture	Mrs.Vatsala Misra	IITK	12 weeks
Humanities and Social Sciences	Intermediate Level of Spoken Sanskrit	Prof. Anuradha Choudry	IITKGP	8 weeks
Humanities and Social Sciences	Text, Textuality and Digital Media	Prof. Arjun Ghosh	IITD	12 weeks
Humanities and Social Sciences	Cognition, Transformation and Lives	Prof. Alok Bajpai	IITK	4 weeks
Humanities and Social Sciences	Psychology of Everyday	Prof. Braj Bhushan & Dr. Alok Bajpai	IITK	4 Weeks
Humanities and Social Sciences	Gender Justice and Workplace Security	Prof. Dipa Dube	IITKGP	4 Weeks
Humanities and Social Sciences	Disability Studies: an introduction	Prof. Hemachandran Karah	IITM	8 weeks
Humanities and Social Sciences	Development Research Methods	Prof. Rajshree Bedamatta	IITG	8 weeks

Humanities and Social Sciences	Introduction to Film studies	Prof. Aysha Iqbal	IITM	12 weeks
Humanities and Social Sciences	Folk And Minor Art In India	Prof. Shatarupa Thakruta Roy	IITK	8 weeks
Humanities and Social Sciences	Visual Perception and Art: A Survey Across the Cultures	Prof. Soumik Nandy Majumdar	IITK	4 weeks
Humanities and Social Sciences	Positive Psychology	Prof. Kamlesh Singh	IITD	8 weeks
Humanities and Social Sciences	Consumer Psychology	Prof. Naveen Kashyap	IITG	8 weeks
Humanities and Social Sciences	Patent Law For Engineers And Scientists	Prof. Feroze Ali	IITM	12 weeks
Humanities and Social Sciences	Patent Drafting For Beginners	Prof. Feroze Ali	IITM	4 weeks

Subject : Management

Discipline	Course Name	SME Name	Institute	Duration
Management	Project Management	Prof. Raghu Nandan Sengupta	IITK	8 weeks
Management	Project management for managers	Prof. Mukesh Kumar Barua	IITR	12 weeks
Management	Training Of Trainers	Prof. Santosh Rangnekar	IITR	12 Weeks
Management	Knowledge Management	Prof. K B L Srivastava	IITKGP	8 weeks
Management	Leadership	Prof. Kalyan Chakravarti and Prof. Tuheena Mukherjee	IITKGP	4 Weeks
Management	Educational Leadership	Prof. Atasi Mohanty	IITKGP	8 weeks
Management	Management Accounting	Prof. Anil K. Sharma	IITR	12 Weeks
Management	Financial Accounting	Prof. Varadraj Bapat	IITB	8 weeks
Management	Cost Accounting	Prof. Varadraj Bapat	IITB	4 Weeks
Management	Financial Derivatives & Risk Management	Prof. J. P. Singh	IITR	12 Weeks
Management	Working Capital Management	Prof. Anil K. Sharma	IITR	12 Weeks
Management	Practitioners Course In Descriptive, Predictive And Prescriptive Analytics	Prof. Deepu Philip / Prof. Amandeep Singh / Mr. Sanjeev Newar	IITK	8 weeks
Management	Decision-Making Under Uncertainty	Prof. N. Gautam	Texas A&M Univ.	4 Weeks
Management	Decision making using financial accounting	Prof. G Arun Kumar	IITM	8 weeks
Management	Data Analysis & Decision Making - III	Prof. Raghu Nandan Sengupta	IITK	12 Weeks

Management	Business Analytics & Data Mining Modeling Using R Part II	Prof. Gaurav Dixit	IITR	4 Weeks
Management	Business Analytics & Text Mining Modeling Using Python	Prof. Gaurav Dixit	IITR	8 weeks
Management	Marketing Management-I	Prof. Jayanta Chatterjee / Prof. Shashi Shekhar Mishra	IITK	8 weeks
Management	Marketing research and analysis	Prof. J.K.Nayak	IITR	8 weeks
Management	Economics of Health and Health Care	Prof. Angan Sengupta	IITK	8 weeks
Management	Human Resource Development	Prof. KBL Srivastava	IITKGP	12 Weeks
Management	Performance and Reward Management	Prof. Sushmita Mukhopadhyay	IITKGP	12 Weeks
Management	Corporate Social Responsibility	Prof. Aradhna Malik	IITKGP	8 weeks
Management	E-Business	Prof. Mamata Jenamani	IITKGP	12 Weeks
Management	Innovation, Business Models and Entrepreneurship	Prof. Rajat Agarwal, Prof. Vinay Sharma	IITR	8 weeks
Management	The Ethical Corporation	Prof. Chhanda Chakraborty	IITKGP	8 weeks
Management	Toyota Production System	Prof. Rajat Agarwal	IITR	8 weeks
Management	Intellectual Property Rights and Competition Law	Prof. KD Raju & Prof. Niharika Sahoo Bhattacharya	IITKGP	8 weeks
Management	Patent Search for Engineers and Lawyers	Prof. M Padmavati & Prof. Shreya Matilal	IITKGP	8 weeks
Management	Design Thinking - A Primer	Prof. Ashwin Mahalingam Prof. Bala Ramadurai	IITM	4 weeks

Subject : Mathematics

Discipline	Course Name	SME Name	Institute	Duration
Mathematics	Calculus of One Real Variable	Prof. Joydeep Dutta	IITK	8 weeks
Mathematics	Calculus of Several Real Variables	Prof. Joydeep Dutta	IITK	8 weeks
Mathematics	Integral Transforms And Their Applications	Prof. Sarthok Sircar	IITD	12 weeks
Mathematics	Numerical methods	Prof. Ameeya Kumar Nayak and Prof. Sanjeev Kumar	IITR	8 weeks
Mathematics	Higher Engineering Mathematics	Prof. P. N. Agarwal	IITR	12 Weeks
Mathematics	Introduction to Abstract and Linear Algebra	Prof. Sourav Mukhopadhyay	IITKGP	8 weeks
Mathematics	Introduction to Abstract Group Theory	Prof. Krishna Hanumanthu	CMI	8 weeks
Mathematics	Introduction To Rings And Fields	Prof. Krishna Hanumantha	CMI	8 Weeks
Mathematics	Mathematical Finance	Prof. N. Selvaraju, Prof. Siddhartha Pratim Chakrabarty	IITG	12 Weeks
Mathematics	Mathematical Methods for Boundary Value Problems	Prof. Somnath Bhattacharya	IITKGP	4 Weeks
Mathematics	Matrix Analysis with Applications	Prof. S.K.Gupta, Prof. Sanjeev Kumar	IITR	8 weeks
Mathematics	Operations Research	Prof. Kusumdeep	IITR	8 Weeks
Mathematics	Stochastic Processes	Prof. S Dharmaraja	IITD	12 Weeks

Mathematics	Introduction to Fuzzy Set Theory, Arithmetic and Logic	Prof. Niladri Chaterjee	IITD	12 Weeks
Mathematics	Regression analysis	Prof. Soumen Maity	IISER PUNE	12 Weeks
Mathematics	Introduction to R Software	Prof. Shalabh	IITK	8 Weeks
Mathematics	Introduction to Methods of Applied Mathematics	Prof. Mani Mehra, Prof. Vivek Kumar Aggarwal	IITD	12 Weeks

Subject : Multidisciplinary

Discipline	Course Name	SME Name	Institute	Duration
Multidisciplinary	Teaching And Learning in General Programs: TALG	Prof. N J Rao	IISc	4 Weeks
Multidisciplinary	TALE 2: Course Design and Instruction of Engineering Course	Prof. N J Rao and Prof K Rajani Kanth	IISc	8 weeks
Multidisciplinary	Accreditation and Outcome based Learning	Prof. AK Ray (Retd.) and Prof. SK Das Mandal	IITKGP	8 weeks
Multidisciplinary	Designing Learner-Centric MOOCs	Prof.Sridhar Iyer Prof. Sahana Murthy Dr. Jayakrishnan M Dr. Sameer Sahasrabudhe	IITB	4 Weeks
Multidisciplinary	Introduction To Learning Analytics	Prof. Ramkumar Rajendran	IITB	4 Weeks
Multidisciplinary	Introduction to Research	Prof. Prathap Haridoss	IITM	8 weeks
Multidisciplinary	Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts	Prof. Brajesh Kumar Dubey	IITKGP	12 Weeks
Multidisciplinary	Ecology and Environment	Prof. Abhijit Deshpande & Prof. R. Ravi Krishna	IITM	8 weeks
Multidisciplinary	Health Research Fundamentals	Prof. Sanjay Mehendale,Dr. Manoj V Murhekar,Dr. R Ramakrishnan,Dr. Tarun Bhatnagar,Dr. Prabhdeep Kaur,Dr. P. Manickam,Dr. P GaneshKumar	NIE	8 weeks
Multidisciplinary	Manage TB	Prof. Mohan Natrajan & Dr. V V Banu Rekha	NIRT	8 weeks
Multidisciplinary	Stress Management	Prof. Rajlakshmi Guha	IITKGP	4 Weeks

Multidisciplinary	Designing learner-centric e-learning in STEM disciplines	Prof. Sahana Murthy	IITB	4 Weeks
Multidisciplinary	Neuroscience of Human Movements	Prof. Varadhan	IITM	12 weeks
Multidisciplinary	Sustainable and Affordable Sanitation Solutions For Small Towns: Policy, Planning and Practice	Prof. N.C Narayanan	IITB	4 weeks
Multidisciplinary	Numerical Methods for Engineers	Prof. Niket Kaisare	IITM	12 weeks
Multidisciplinary	Biology for engineers and other non-biologists	Prof. Suraiskumar & Prof. Madhulika Dixit	IITM	4 weeks
Multidisciplinary	Game Theory	Prof. K.S. Mallikarjuna Rao	IITB	8 weeks

Subject : Physics

Discipline	Course Name	SME Name	Institute	Duration
Physics	Introduction to Electromagnetic Theory	Prof. Manoj Harbola	IITK	8 weeks
Physics	Experimental Physics - II	Prof. Amal Kumar Das	IITKGP	12 Weeks
Physics	Introduction To Statistical Mechanics	Prof. Girish S. Setlur	IITG	8 weeks
Physics	Numerical Methods And Simulation Techniques For Scientists And Engineers	Prof. Saurabh Basu	IITG	8 weeks
Physics	Physics of Turbulence	Prof. Mahendra K. Verma	IITK	12 weeks
Physics	Solar Photovoltaics Fundamentals, Technology And Applications	Prof. Soumitra SataPathi	IITR	8 weeks
Physics	Solid State Physics	Prof. Amal Kumar Das	IITKGP	12 Weeks
Physics	Theoretical Mechanics	Prof. Charudatt Kadolkar	IITG	8 weeks
Physics	Computational Physics	Prof. Apratim Chatterji Prof. Prasenjit Ghosh	IISER Pune	12 Weeks
Physics	Path Integral and functional methods in quantum field theory	Prof. Yajnik	IITB	8 Weeks
Physics	Waves and Oscillations	Prof. M. S. Santhanam	IISER Pune	12 Weeks

Subject : Textile Technology

Discipline	Course Name	SME Name	Institute	Duration
Textile Technology	Textile Finishing	Prof. Kushal Sen	IITD	12 Weeks
Textile Technology	Principles of Combing, Roving preparation & Ring spinning	Prof. R Chattopadhyay	IITD	12 Weeks
Textile Technology	Science of Clothing Comfort	Prof. Apurba Das	IITD	12 Weeks
Textile Technology	Yarn manufacture I : Principle of Carding and Drawing	Prof. R Chattopadhyay	IITD	8 weeks
Textile Technology	Science and Technology of Weft and Warp Knitting	Prof. Bipin Kumar	IITD	12 Weeks