

## List of NPTEL Online Courses Available for Registration : Jan. - April 2022

For details please visit <https://swayam.gov.in/NPTEL>

**Complete Course list URL : [https://docs.google.com/spreadsheets/d/e/2PACX-](https://docs.google.com/spreadsheets/d/e/2PACX-1vSfmLJV0dlsmASfu7T177jbxI67HqN6PVdZqGiDQ1ZB59yY7sh4Ydy0g9mben7DmjiNllsy9_NzdceV/pubhtml?urp=gmail_link&gxids=7628)**

**[1vSfmLJV0dlsmASfu7T177jbxI67HqN6PVdZqGiDQ1ZB59yY7sh4Ydy0g9mben7DmjiNllsy9\\_NzdceV/pubhtml?urp=gmail\\_link&gxids=7628](https://docs.google.com/spreadsheets/d/e/2PACX-1vSfmLJV0dlsmASfu7T177jbxI67HqN6PVdZqGiDQ1ZB59yY7sh4Ydy0g9mben7DmjiNllsy9_NzdceV/pubhtml?urp=gmail_link&gxids=7628)**

### Subject : Physics

| Course Name                                    | SME Name                      | Institute    | Duration | Course Start Date | Course End Date   | Exam date      |
|--|-------------------------------|--------------|----------|-------------------|-------------------|----------------|
| Optical Sensors                                | Prof. Sachin Kumar Srivastava | IITR         | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Physics of Biological Systems                  | Prof. Mithun Mitra            | IITB         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Electronic Theory of Solids</b>             | Prof. Arghya Taraphder        | IITKGP       | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Experimental Physics III                       | Prof. Amal Kumar Das          | IITKGP       | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Experimental Physics - II                      | Prof. Amal Kumar Das          | IITKGP       | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Quantum Mechanics I                            | Prof. P. Ramadevi             | IITB         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Group Theory methods in Physics                | Prof. P. Ramadevi             | IITB         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| A brief course on Superconductivity            | Prof. Saurabh Basu            | IITG         | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Advanced Condensed Matter Physics              | Prof. Saurabh Basu            | IITG         | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Introduction to Atmospheric and Space Sciences | Prof. M V Sunil Krishna       | IITR         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Physics through Computational Thinking         | Prof. Auditya Sharma          | IISER Bhopal | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| Advanced Atmospheric Physics                   | Prof. M V Sunil Krishna       | IITR         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |

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|   |                              |                          |          |                   |                |                |
|---|------------------------------|--------------------------|----------|-------------------|----------------|----------------|
| Advanced NMR Techniques in Solution and Solid-State             | Prof. N. Suryaprakash        | IISc                     | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Quantum Technology and Quantum Phenomena in Macroscopic Systems | Prof. Amarendra Kumar Sarma  | IITG                     | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Fluid Dynamics for Astrophysics                                 | Prof. Prasad Subramanian     | IISER Pune               | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Quantum Transport   | Prof. Madhu Thalakulam       | IISER Thiruvananthapuram | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Nuclear Astrophysics  | Prof. Anil Kumar Gourishetty | IITR                     | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| <b>Introduction to Laser</b>                                    | Prof. M R Shenoy             | IITD                     | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Physics of linear and nonlinear optical waveguides              | Prof. Samudra Roy            | IITKGP                   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Thermal physics</b>  | Prof. Debamalya Banerjee     | IITKGP                   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Statistical Mechanics</b>                                    | Prof. Dipanjan Chakraborty   | IISER Mohali             | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |

### Subject : Textile Technology

| Course Name                                  | SME Name          | Institute | Duration | Course Start Date | Course End Date | Exam date      |
|--|-------------------|-----------|----------|-------------------|-----------------|----------------|
| Evaluation of Textiles Materials             | Prof. Apurba Das  | IITD      | 12 Weeks | January 24, 2022  | April 15, 2022  | April 23, 2022 |
| Testing of Functional and Technical Textiles | Prof. Apurba Das  | IITD      | 8 Weeks  | February 21, 2022 | April 15, 2022  | April 23, 2022 |
| Theory of Yarn Structure                     | Prof. Dipayan das | IITD      | 12 Weeks | January 24, 2022  | April 15, 2022  | April 24, 2022 |

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|  |                       |      |          |                  |                |                |
|--|-----------------------|------|----------|------------------|----------------|----------------|
| Advanced Textile Printing Technology   | Prof. Kushal Sen      | IITD | 8 Weeks  | January 24, 2022 | March 18, 2022 | March 27, 2022 |
| Textured Yarn Technology               | Prof. Kushal Sen      | IITD | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| Textile Product Design and Development | Prof. R Chattopadhyay | IITD | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |

### Subject : Chemistry

| Course Name   | SME Name                 | Institute | Duration | Course Start Date | Course End Date   | Exam date      |
|---|--------------------------|-----------|----------|-------------------|-------------------|----------------|
| <b>Organometallic Chemistry</b>                           | Prof. Debabrata Maiti    | IITB      | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| <b>Basics in Inorganic Chemistry</b>                      | Prof. Debabrata Maiti    | IITB      | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Essentials of Biomolecules : Nucleic Acids and Peptides   | Prof. Lal Mohan Kundu    | IITG      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Transition Metal Organometallics in Catalysis and Biology | Prof. P. Ghosh           | IITB      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Advanced Transition Metal Organometallic Chemistry        | Prof. P. Ghosh           | IITB      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Biochemistry  | Prof. Swagata Dasgupta   | IITKGP    | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Approximate Methods in Quantum Chemistry                  | Prof. Sabyashachi Mishra | IITKGP    | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |

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|  |                               |              |          |                  |                   |                |
|--|-------------------------------|--------------|----------|------------------|-------------------|----------------|
| Structure, Stereochemistry and Reactivity of Organic Compounds and Intermediates: A Problem-solving Approach | Prof. Amit Basak              | IITKGP       | 8 Weeks  | January 24, 2022 | March 18, 2022    | March 27, 2022 |
| Ultrafast laser spectroscopy   | Prof. Anindya Datta           | IITB         | 12 Weeks | January 24, 2022 | April 15, 2022    | April 23, 2022 |
| Molecular Spectroscopy: A Physical Chemist's perspective   | Prof. Anindya Datta           | IITB         | 12 Weeks | January 24, 2022 | April 15, 2022    | April 24, 2022 |
| <b>Chemistry of Main Group Elements</b>  | Prof. M.S. Balakrishna        | IITB         | 12 Weeks | January 24, 2022 | April 15, 2022    | April 23, 2022 |
| Bioinorganic Chemistry   | Prof. S. P. Rath              | IITK         | 4 Weeks  | January 24, 2022 | February 18, 2022 | March 27, 2022 |
| Industrial Inorganic Chemistry   | Prof. Debashis Ray            | IITKGP       | 12 Weeks | January 24, 2022 | April 15, 2022    | April 23, 2022 |
| Advanced Chemical Thermodynamics and Kinetics  | Prof. Arijit Kumar De         | IISER Mohali | 12 Weeks | January 24, 2022 | April 15, 2022    | April 23, 2022 |
| Electrochemical impedance Spectroscopy   | Prof. S. Ramanathan           | IITM         | 12 Weeks | January 24, 2022 | April 15, 2022    | April 23, 2022 |
| <b>Symmetry, Stereochemistry and Applications</b>  | Prof. Angshuman Roy Choudhury | IISER Mohali | 12 Weeks | January 24, 2022 | April 15, 2022    | April 24, 2022 |
| <b>Symmetry and Group Theory</b>   | Prof. Jeetender Chugh         | IISER PUNE   | 12 Weeks | January 24, 2022 | April 15, 2022    | April 23, 2022 |
| <b>Co-Ordination Chemistry (Chemistry Of Transition Elements)</b>  | Prof. Debashis Ray            | IITKGP       | 12 Weeks | January 24, 2022 | April 15, 2022    | April 24, 2022 |

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|---|---|-------------------------|----------|-------------------|----------------|----------------|
| <b>Basic thermodynamics: Classical and Statistical Approaches</b>                           | Prof. Arnab Mukherjee                     | IISER Pune              | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Fundamentals of Spectroscopy</b>   | Prof. Sayan Bagchi<br>Prof. Anirban Hazra | NCL Pune,<br>IISER Pune | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Medicinal Chemistry</b>  | Prof. Harinath Chakrapani                 | IISER Pune              | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Pericyclic Reactions and Organic Photochemistry</b>                                      | Prof. Sankararaman                        | IITM                    | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| Essentials of Oxidation, Reduction and C-C Bond Formation. Application in Organic Synthesis | Prof. Yashwant D Vankar                   | IITB                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Chemical Applications Of Symmetry And Group Theory</b>                                   | Prof. Manabendra Chandra                  | IITK                    | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Basics Of Fluorescence Spectroscopy   | Prof. Pratik Sen                          | IITK                    | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| A Study Guide in Organic Retrosynthesis: Problem Solving Approach                           | Prof. Samik Nanda                         | IITKGP                  | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Introduction To Molecular Thermodynamics  | Prof. Srabani Taraphder                   | IITKGP                  | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| Experimental Biochemistry   | Prof. Swagata Dasgupta<br>Prof. Soumya De | IITKGP                  | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Time dependent Quantum chemistry</b>   | Prof. Atanu Bhattacharya                  | IISc                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |

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|---|----------------------------|--------|----------|------------------|----------------------|----------------|
| Reactive Intermediates<br>Carbene and Nitrene               | Prof. Rajarshi<br>Samanta  | IITKGP | 4 Weeks  | January 24, 2022 | February 18,<br>2022 | March 27, 2022 |
| <b>Chemistry: Atomic Structure<br/>and Chemical Bonding</b> | Prof. K. Mangala<br>Sundar | IITM   | 12 Weeks | January 24, 2022 | April 15, 2022       | April 23, 2022 |

### Subject : Mathematics

| Course Name  | SME Name                                 | Institute  | Duration | Course Start Date | Course End Date | Exam date      |
|--|--|------------|----------|-------------------|-----------------|----------------|
| Numerical Linear Algebra   | Prof. P. N. Agrawal<br>Prof. D.N. Pandey | IITR       | 12 Weeks | January 24, 2022  | April 15, 2022  | April 24, 2022 |
| Ordinary and Partial<br>Differential Equations and<br>Applications | Prof. P. N. Agrawal<br>Prof. D.N. Pandey | IITR       | 12 Weeks | January 24, 2022  | April 15, 2022  | April 23, 2022 |
| <b>Integral and Vector Calculus</b>                                | Prof. Hari Shankar<br>Mahato             | IITKGP     | 12 Weeks | January 24, 2022  | April 15, 2022  | April 23, 2022 |
| <b>Basic Linear Algebra</b>  | Prof. I. K. Rana                         | IITB       | 8 Weeks  | February 21, 2022 | April 15, 2022  | April 24, 2022 |
| <b>Basic Real Analysis</b>   | Prof. I. K. Rana                         | IITB       | 12 Weeks | January 24, 2022  | April 15, 2022  | April 24, 2022 |
| Introduction to Algebraic<br>Geometry and Commutative<br>Algebra   | Prof. Dilip P. Patil                     | IISc       | 12 Weeks | January 24, 2022  | April 15, 2022  | April 24, 2022 |
| Multivariable calculus   | Prof. S. K. Gupta<br>Prof. Sanjeev Kumar | IITR       | 8 Weeks  | January 24, 2022  | March 18, 2022  | March 27, 2022 |
| Engineering Mathematics II   | Prof. Jitendra Kumar                     | IITKGP     | 12 Weeks | January 24, 2022  | April 15, 2022  | April 24, 2022 |
| Applied Multivariate Statistical<br>Modeling                       | Prof. Jhareswar Maiti                    | IITKGP     | 12 Weeks | January 24, 2022  | April 15, 2022  | April 24, 2022 |
| <b>Graph Theory</b>  | Prof. Soumen Maity                       | IISER PUNE | 8 Weeks  | January 24, 2022  | March 18, 2022  | March 27, 2022 |
| Introduction To Rings And<br>Fields                                | Prof. Krishna<br>Hanumanthu              | CMI        | 8 Weeks  | January 24, 2022  | March 18, 2022  | March 27, 2022 |

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|---|---|--|------------------------|-------------------|-------------------|----------------|
| Introduction to Galois Theory   | Prof. Krishna Hanumanthu                            | CMI                                      | 8 Weeks                | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Basic Calculus - 1</b>   | Prof. Arindama Singh                                | IITM                                     | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Linear Algebra</b>   | Prof. Pranav Haridas                                | Kerala School of Mathematics             | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Probabilistic Methods in PDE  | Prof. Anindya Goswami                               | IISER Pune                               | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Discrete-time Markov Chains and Poisson Processes                             | Prof. Ayon Ganguly<br>Prof. Subhamay Saha           | IITG                                     | 8 Weeks                | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Introduction to Queueing Theory   | Prof. N. Selvaraju                                  | IITG                                     | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Algebraic Combinatorics   | Prof. Amritanshu Prasad<br>Prof. Sankaran Viswanath | IMSc                                     | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Algebra - II</b>   | Prof. Sankaran Viswanath<br>Prof. Amritanshu Prasad | IMSc                                     | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Mathematical Modelling: Analysis and Applications                             | Prof. Ameeya Kumar Nayak                            | IITR                                     | 4 Weeks                | February 21, 2022 | March 18, 2022    | April 23, 2022 |
| Numerical Methods: Finite difference approach                                 | Prof. Ameeya Kumar Nayak                            | IITR                                     | 4 Weeks                | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Functional Analysis   | Prof. Kesavan                                       | IMSc                                     | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Variational Calculus and its applications in Control Theory and Nanomechanics | Prof. Sarthok Sircar                                | IITD                                     | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Computational Mathematics with SageMath                                       | Prof. Ajit Kumar                                    | Institute of Chemical Technology, Mumbai | 8 Weeks + 4 Weeks(New) | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| An introduction to Point-Set-Topology Part-I                                  | Prof. Anant R Shastri                               | IITB                                     | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Probability –I with Examples Using R  | Prof. Siva Athreya                                  | ISI Bangalore                            | 12 Weeks               | January 24, 2022  | April 15, 2022    | April 24, 2022 |

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|--|--|--------------|----------|-------------------|----------------|----------------|
| First Course on Partial Differential Equations - I   | Prof. A. K. Nandakumaran<br>Prof. P. S. Datti  | IISc         | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Statistical Inference  | Prof. Niladri Chatterjee                       | IITD         | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Advanced Probability Theory  | Prof. Niladri Chatterjee                       | IITD         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Scientific Computing using Matlab  | Prof. Mani Mehra<br>Prof. Vivek Kumar Aggarwal | IITD         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Transform Calculus and Its Applications In Differential Equations                              | Prof. Adrijit Goswami                          | IITKGP       | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Statistical Inference - IIT KGP  | Prof. Somesh Kumar                             | IITKGP       | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Essentials Of Data Science With R Software - 1: Probability And Statistical Inference          | Prof. Shalabh                                  | IITK         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Essentials Of Data Science With R Software - 2: Sampling Theory And Linear Regression Analysis | Prof. Shalabh                                  | IITK         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| An invitation to Topology  | Prof. Indrava Roy                              | IMSc         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Mathematical Methods in Physics 1  | Prof. Auditya Sharma                           | IISER Bhopal | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| Probability and Stochastics for Finance  | Prof. Joydeep Dutta                            | IITK         | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |



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**Subject : Computer Science**

| Course Name  | SME Name                    | Institute      | Duration | Course Start Date | Course End Date   | Exam date      |
|--|-----------------------------|----------------|----------|-------------------|-------------------|----------------|
| <b>Fundamental Algorithms: Design and Analysis</b>                     | Prof. Sourav Mukhopadhyay   | IITKGP         | 4 Weeks  | February 21, 2022 | March 18, 2022    | April 24, 2022 |
| <b>Artificial Intelligence: Knowledge Representation And Reasoning</b> | Prof. Deepak Khemani        | IITM           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Foundations of Cryptography  | Prof. Ashish Choudhury      | IIIT Bangalore | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Discrete Mathematics - IIITB   | Prof. Ashish Choudhury      | IIIT Bangalore | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| AI:Constraint Satisfaction   | Prof. Deepak Khemani        | IITM           | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Data Analytics with Python</b>                                      | Prof. A. Ramesh             | IITR           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| GPU Architectures and Programming                                      | Prof. Soumyajit Dey         | IITKGP         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Advanced Computer Architecture</b>                                  | Prof. John Jose             | IITG           | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| <b>Data Mining</b>   | Prof. Pabitra Mitra         | IITKGP         | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| <b>Software Testing</b>  | Prof. Rajib Mall            | IITKGP         | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| <b>Ethical Hacking</b>   | Prof. Indranil Sengupta     | IITKGP         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Compiler Design  | Prof. Santanu Chattopadhyay | IITKGP         | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |

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|---|---|---|------------------------|-------------------|----------------|----------------|
| Computer Architecture   | Prof. Smruti R.Sarangi  | IITD                                      | 12 Weeks               | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| User-centric Computing for Human-Computer Interaction           | Prof. Samit Bhattacharya  | IITG                                      | 8 Weeks                | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Advanced Graph Theory   | Prof. Rajiv Misra   | IIT Patna                                 | 8 Weeks                | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| <b>Cloud Computing and Distributed Systems</b>                  | Prof. Rajiv Misra   | IIT Patna                                 | 8 Weeks                | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| <b>Computer Networks and Internet Protocol</b>                  | Prof. Soumya Kanti Ghosh<br>Prof. Sandip Chakraborty                        | IITKGP                                    | 12 Weeks               | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Cloud computing</b>  | Prof. Soumya Kanti Ghosh  | IITKGP                                    | 8 Weeks + 4 Weeks(New) | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Introduction to parallel programming with OpenMP and MPI        | Prof. Yogish Sabharwal  | IITD                                      | 4 Weeks + 4 Weeks(New) | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| <b>Deep Learning</b>  | Prof. Prabir Kumar Biswas   | IITKGP                                    | 12 Weeks               | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Information Security - 5 - Secure Systems Engineering</b>    | Prof. Chester Robeiro   | IITM                                      | 8 Weeks                | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| <b>Machine Learning, ML</b>                                     | Prof. Carl Gustaf Jansson<br>Prof. Henrik Boström<br>Prof. Fredrik Kilander | KTH Royal Institute of Technology, Sweden | 8 Weeks                | February 21, 2022 | April 15, 2022 | April 24, 2022 |
| Model Checking  | Prof. Srivathsan.B  | CMI                                       | 12 Weeks               | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Programming, Data Structures And Algorithms Using Python</b> | Prof. Madhavan Mukund   | CMI                                       | 8 Weeks                | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| <b>Design and analysis of algorithms</b>                        | Prof. Madhavan Mukund   | CMI                                       | 8 Weeks                | January 24, 2022  | March 18, 2022 | March 27, 2022 |

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| <b>Data Science for Engineers</b>          | Prof. Ragunathan Rengasamy<br>Prof. Shankar Narasimhan            | IITM       | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Introduction to Machine Learning</b>    | Prof. Balaraman Ravindran   | IITM       | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Social Networks                            | Prof. Sudarshan Iyengar<br>Prof. Yayati Gupta                     | IIT Ropar  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| The Joy of Computing using Python          | Prof. Sudarshan Iyengar   | IIT Ropar  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Python for Data Science</b>             | Prof. Ragunathan Rengasamy  | IITM       | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Discrete Mathematics                       | Prof. Sudarshan Iyengar<br>Prof. Prabuchandran K.J                | IIT Ropar  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Reinforcement Learning                     | Prof. Balaraman Ravindran   | IITM       | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Deep Learning - IIT Ropar</b>           | Prof. Sudarshan Iyengar<br>Prof. Sanatan Sukhija                  | IIT Ropar  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Systems and Usable Security                | Prof. Neminath Hubballi   | IIT Indore | 4 Weeks  | February 21, 2022 | March 18, 2022    | April 23, 2022 |
| <b>Online Privacy</b>                      | Prof. Ponnurangam Kumaraguru                                      | IITM       | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Design and Engineering of Computer Systems | Prof. Mythili Vutukuru  | IITB       | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Software Conceptual Design                 | Prof. Sridhar Iyer<br>Prof. Prajish Prasad<br>Prof. T. G. Lakshmi | IITB       | 4 Weeks  | February 21, 2022 | March 18, 2022    | April 24, 2022 |
| <b>Introduction To Programming In C</b>    | Prof. Satyadev Nandakumar   | IITK       | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |

## List of NPTEL Online Courses Available for Registration : Jan. - April 2022

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|  |  |        |          |                  |                |                |
|--|--|--------|----------|------------------|----------------|----------------|
| Computational Geometry   | Prof. Amit Kumar                                       | IITD   | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| <b>An Introduction to Programming Through C++</b>              | Prof. Abhiram Ranade                                   | IITB   | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| Programming in Modern C++                                      | Prof. Partha Pratim Das                                | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| <b>Blockchain and its Applications</b>                         | Prof. Sandip Chakraborty<br>Prof. Shamik Sural         | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| Problem Solving Through Programming In C                       | Prof. Anupam Basu                                      | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| Embedded Systems Design  | Prof. Anupam Basu                                      | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| <b>Programming In Java</b>                                     | Prof. Debasis Samanta                                  | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| Hardware Security  | Prof. Debdeep Mukhopadhyay                             | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| Discrete Structures  | Prof. Dipanwita Roychowdhury                           | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| VLSI Physical Design   | Prof. Indranil Sengupta                                | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| <b>Data Base Management System</b>                             | Prof. Partha Pratim Das<br>Prof. Samiran Chattopadhyay | IITKGP | 8 Weeks  | January 24, 2022 | March 18, 2022 | March 27, 2022 |
| Introduction To Industry 4.0 And Industrial Internet Of Things | Prof. Sudip Misra                                      | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| <b>Introduction To Internet Of Things</b>                      | Prof. Sudip Misra                                      | IITKGP | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| <b>Introduction To Soft Computing</b>                          | Prof. Debasis Samanta                                  | IITKGP | 8 Weeks  | January 24, 2022 | March 18, 2022 | March 27, 2022 |

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|   |                               |                 |          |                  |                |                |
|---|-------------------------------|-----------------|----------|------------------|----------------|----------------|
| Object Oriented System Development Using UML, Java And Patterns | Prof. Rajib Mall              | IITKGP          | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| <b>An Introduction to Artificial Intelligence</b>               | Prof. Mausam                  | IITD            | 12 Weeks | January 24, 2022 | April 15, 2022 | April 24, 2022 |
| <b>Introduction to Database Systems</b>                         | Prof. Sreenivasa Kumar        | IITM            | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| Getting Started with Competitive Programming                    | Prof. Neeldhara Misra & Arjun | IIT Gandhinagar | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |
| Arithmetic Circuit Complexity                                   | Prof. Nitin Saxena            | IITK            | 12 Weeks | January 24, 2022 | April 15, 2022 | April 23, 2022 |

### Subject : Humanities and Social Sciences

| Course Name   | SME Name                    | Institute                | Duration | Course Start Date | Course End Date   | Exam date      |
|---|-----------------------------|--------------------------|----------|-------------------|-------------------|----------------|
| Geomorphic Processes: Landforms And Landscapes            | Prof. Javed N. Malik        | IITK                     | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Modern Indian Art From The Colonial Period To The Present | Prof. Soumik Nandy Majumdar | Visva-Bharati University | 4 Weeks  | February 21, 2022 | March 18, 2022    | April 24, 2022 |
| Visual Perception And Art: A Survey Across The Cultures   | Prof. Soumik Nandy Majumdar | Visva-Bharati University | 4 Weeks  | February 21, 2022 | March 18, 2022    | April 23, 2022 |
| Health Research Fundamentals                              | Multifaculty                | NIE                      | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Patent Drafting for Beginners                             | Prof. Feroz Ali             | IITM                     | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| <b>Effective Writing</b>                                  | Prof. Binod Mishra          | IITR                     | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| The Nineteenth - Century English Novel                    | Prof. Divya A               | IITM                     | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |

## List of NPTEL Online Courses Available for Registration : Jan. - April 2022

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|  |   |        |          |                   |                   |                |
|--|---|--------|----------|-------------------|-------------------|----------------|
| <b>Soft Skill Development</b>                                  | Prof. Priyadarshi Patnaik<br>Prof. V.N. Giri<br>Prof. D. Suar | IITKGP | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Enhancing Soft Skills and Personality</b>                   | Prof. T. Ravichandran   | IITK   | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| Literature, Culture and Media                                  | Prof. Rashmi Gaur   | IITR   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Development of Sociology in India</b>                       | Prof. Ashish Saxena   | IITK   | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Emotional Intelligence   | Prof. Rabindra Kumar Pradhan                                  | IITKGP | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Introduction to Modern Indian Drama                            | Prof. Kiran Keshavamurthy                                     | IITG   | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| <b>Speaking Effectively</b>                                    | Prof. Anjali Gera Roy   | IITKGP | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Introduction to Political Theory</b>                        | Prof. Mithilesh Kumar Jha                                     | IITG   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Introduction to Modern Indian Political Thought</b>         | Prof. Mithilesh Kumar Jha                                     | IITG   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Economic Growth and Development</b>                         | Prof. Rajshree Bedamatta                                      | IITG   | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Postcolonial Literature</b>                                 | Prof. Sayan Chattopadhyay                                     | IITK   | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| <b>Human Behaviour</b>   | Prof. Naveen Kashyap  | IITG   | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| <b>Introduction to Cognitive Psychology</b>                    | Prof. Naveen Kashyap  | IITG   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Introduction to Psychology</b>                              | Prof. Braj Bhushan  | IITK   | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Introduction to Environmental Economics</b>                 | Prof. Diptimayee Nayak<br>Prof. S. P. Singh                   | IITR   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Psychiatry - An Overview and How the Brain Creates Mind</b> | Prof. Alok Bajpai   | IITK   | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |

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|  |                               |                         |          |                   |                |                |
|--|-------------------------------|-------------------------|----------|-------------------|----------------|----------------|
| <b>Sociological Perspectives on Modernity</b>                                | Prof. Sambit Mallick          | IITG                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Basics of language Science   | Prof. Rajesh Kumar            | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>English Literature of the Romantic Period, 1798-1832</b>                  | Prof. Pramod K Nayar          | University of Hyderabad | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| <b>Feminism : Concepts and Theories</b>                                      | Prof. Mathangi Krishnamurthy  | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Introduction to Political Ideologies : Contexts, Ideas, and Practices</b> | Prof. Arvind Sivaramakrishnan | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Language and Mind  | Prof. Rajesh Kumar            | IITM                    | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Patent Law for Engineers and Scientists                                      | Prof. Feroz Ali               | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>German - I</b>  | Prof. Milind Brahme           | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>German - II</b>   | Prof. Milind Brahme           | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>An Introduction to Microeconomics</b>                                     | Prof. Vimal Kumar             | IITK                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>English Literature for competitive exams</b>                              | Prof. Aysha Iqbal             | IITM                    | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Technical English for Engineers  | Prof. Aysha Iqbal             | IITM                    | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| Introduction to Pāṇinian grammar   | Prof. Malhar Kulkarni         | IITB                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Literature and Life  | Prof. S P Dhanavel            | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Literature and Coping Skills</b>  | Prof. Ajit K Mishra           | IIT(BHU) Varanasi       | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| Globalization: Theoretical Perspectives                                      | Prof. R. Santhosh             | IITM                    | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Indian Poetry in English</b>  | Prof. Binod Mishra            | IITR                    | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 24, 2022 |

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|  |                                 |                |          |                   |                   |                |
|--|---------------------------------|----------------|----------|-------------------|-------------------|----------------|
| Exploring Survey Data on Health Care                                 | Prof. Pratap C. Mohanty         | IITR           | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| Language, Culture and Cognition: An Introduction                     | Prof. Bidisha Som               | IITG           | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| <b>German - III</b>  | Prof. Milind Brahme             | IITM           | 12 weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Energy Resources, Economics and Environment</b>                   | Prof. Rangan Banerjee           | IITB           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Phonetics and Phonology: A broad overview                            | Prof. Shakuntala Mahanta        | IITG           | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Philosophical Foundations of Social Research                         | Prof. Sambit Mallick            | IITG           | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Psychology of Stress, Health and Well-being</b>                   | Prof. Dilwar Hussain            | IITG           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Introduction To Brain & Behaviour                                    | Prof. Ark Verma                 | IITK           | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| Introduction To The Psychology Of Language                           | Prof. Ark Verma                 | IITK           | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| Introduction On Intellectual Property To Engineers And Technologists | Prof. Tapas Kumar Bandyopadhyay | IITKGP         | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| Towards an Ethical Digital Society: From Theory to Practice          | Prof. Bidisha Chaudhuri         | IIIT Bangalore | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Contextualizing Gender   | Prof. Rashmi Gaur               | IITR           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Modern Indian Writing in Translation</b>                          | Prof. Divya A                   | IITM           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Twentieth Century Fiction</b>                                     | Prof. Avishek Parui             | IITM           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Introduction to Cultural Studies                                     | Prof. Avishek Parui             | IITM           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Introduction to World Literature</b>                              | Prof. Merin Simi Raj            | IITM           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Literary Criticism (From Plato to Leavis)</b>                     | Prof. Merin Simi Raj            | IITM           | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |



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|   |   |                |          |                   |                |                |
|---|---|----------------|----------|-------------------|----------------|----------------|
| Appreciating Hindustani Music                                   | Prof. Lakshmi Sreeram<br>Prof. Srijan Deshpande | IITM           | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 24, 2022 |
| Handling Large-Scale Unit Level Data Using STATA                | Prof. Pratap C. Mohanty                         | IITR           | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 24, 2022 |
| <b>Intellectual Property</b>                                    | Prof. Feroz Ali                                 | IITM           | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Advanced Level of Spoken Sanskrit</b>                        | Prof. Anuradha Choudry                          | IITKGP         | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Education for Sustainable Development                           | Prof. Atasi Mohanty                             | IITKGP         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Elements of Literature and Creative Communication</b>        | Prof. H.S. Komalesha                            | IITKGP         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Training and Development  | Prof. Susmita Mukhopadyay<br>Prof. S.Srinivasan | IITKGP         | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Infrastructure Economics  | Prof. Nalin Bharti                              | IIT Patna      | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| The World of Apu  | Prof. Ashoke Viswanathan<br>Prof. Joy Sen       | IITKGP & SRFTI | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Japani Bhasha - Saral Swaroop (Japanese course taught in hindi) | Prof. Vatsala Misra                             | IITK           | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Indian Economy: Some Contemporary Perspectives                  | Prof. Wasim Ahmad                               | IITK           | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |

### Subject : Commerce & Management

| Course Name                         | SME Name                 | Institute | Duration | Course Start Date | Course End Date | Exam date      |
|-------------------------------------|--------------------------|-----------|----------|-------------------|-----------------|----------------|
| <b>Introduction to Econometrics</b> | Prof. Sabuj Kumar Mandal | IITM      | 12 Weeks | January 24, 2022  | April 15, 2022  | April 23, 2022 |
| Microfoundations of Macroeconomics  | Prof. Wasim Ahmad        | IITK      | 8 Weeks  | January 24, 2022  | March 18, 2022  | March 27, 2022 |

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|  |   |   |          |                   |                   |                |
|--|---|---|----------|-------------------|-------------------|----------------|
| Technology Forecasting for strategic decision making - An Introduction | Prof. Dmitry Kucharavy<br>Prof. Bala Ramadurai          | EM Strasbourg Business School (University of Strasbourg) and IITM | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Data Analysis and Decision Making - I                                  | Prof. Raghu Nandan Sengupta                             | IITK  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Data Analysis & Decision Making - II                                   | Prof. Raghu Nandan Sengupta                             | IITK  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Management of Field Sales  | Prof. Jayanta Chatterjee                                | IITK  | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| <b>Marketing Management - II</b>                                       | Prof. Jayanta Chatterjee<br>Prof. Shashi Shekhar Mishra | IITK  | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| Managing change in organizations                                       | Prof. KBL Srivastava                                    | IITKGP  | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Financial Statement Analysis and Reporting                             | Prof. Anil K. Sharma                                    | IITR  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Financial Management For Managers</b>                               | Prof. Anil K. Sharma                                    | IITR  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Business analytics and data mining Modeling using R                    | Prof. Gaurav Dixit                                      | IITR  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| MCDM Techniques Using R  | Prof. Gaurav Dixit                                      | IITR  | 4 Weeks  | February 21, 2022 | March 18, 2022    | April 23, 2022 |
| Business Analytics For Management Decision                             | Prof. Rudra P Pradhan                                   | IITKGP  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Engineering Econometrics   | Prof. Rudra P Pradhan                                   | IITKGP  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Microeconomics: Theory &amp; Applications</b>                       | Prof. Deep Mukherjee                                    | IITK  | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Supply Chain Analytics</b>  | Prof. Rajat Agrawal                                     | IITR  | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |

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|   |   |        |          |                   |                |                |
|---|---|--------|----------|-------------------|----------------|----------------|
| Production and Operation Management                 | Prof. Rajat Agrawal                           | IITR   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Quality Design And Control                          | Prof. Pradip Kumar Ray                        | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Management of Inventory Systems                     | Prof. Pradip Kumar Ray                        | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Simulation of Business Systems: An Applied Approach | Prof. Deepu Philip                            | IITK   | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Systems Engineering: Theory & Practice              | Prof. Deepu Philip                            | IITK   | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Behavioral and Personal Finance                     | Prof. Abhijeet Chandra                        | IITKGP | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| Introduction to Stochastic Processes                | Prof. Manjesh hanawal                         | IITB   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Marketing Research and Analysis-II                  | Prof. J. K. Nayak                             | IITR   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Financial Institutions and Markets</b>           | Prof. Jitendra Mahakud                        | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Management of Commercial Banking</b>             | Prof. Jitendra Mahakud                        | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Business Statistics</b>                          | Prof. Mukesh Kumar Barua                      | IITR   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Marketing Analytics                                 | Prof. Swagato Chatterjee                      | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Modelling and Analytics for Supply Chain Management | Prof. Kunal Kanti Ghosh<br>Prof. Anupam Ghosh | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Global Marketing Management                         | Prof. Zillur Rahman                           | IITR   | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 24, 2022 |
| Integrated Marketing Management                     | Prof. R. Srinivasan                           | IISc   | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |

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|   |   |           |          |                   |                   |                |
|---|---|-----------|----------|-------------------|-------------------|----------------|
| Introduction to Operations Research                         | Prof. G. Srinivasan                             | IITM      | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| Introduction to probability and Statistics                  | Prof. G. Srinivasan                             | IITM      | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Design Thinking - A Primer                                  | Prof. Ashwin Mahalingam<br>Prof. Bala Ramadurai | IITM      | 4 Weeks  | February 21, 2022 | March 18, 2022    | April 23, 2022 |
| <b>Financial accounting - IITMandi</b>                      | Prof. Puran Singh                               | IIT Mandi | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Decision making with spreadsheet                            | Prof. Ramesh Anbanandam                         | IITR      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Strategy and Technology: A Practical Primer                 | Prof. C Bhaktavatsala Rao                       | IITM      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Leadership for India Inc: Practical Concepts and Constructs | Prof. C Bhaktavatsala Rao                       | IITM      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Integrated Marketing Communication                          | Prof. Vinay Sharma                              | IITR      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Leadership and Team Effectiveness                           | Prof. Santosh Rangnekar                         | IITR      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Quality Control and Improvement with MINITAB                | Prof. Indrajit Mukherjee                        | IITB      | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| Organization Theory/Structure and Design                    | Prof. Zillur Rahman                             | IITR      | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Principles of Management                                    | Prof. Usha Lenka                                | IITR      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Foundation Course in Managerial Economics                   | Prof. Barnali Nag                               | IITKGP    | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Services Marketing: A Practical Approach                    | Prof. Biplab Datta                              | IITKGP    | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| <b>E-Business</b>   | Prof. Mamata Jenamani                           | IITKGP    | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Sales And Distribution Management                           | Prof. Sangeeta Sahney                           | IITKGP    | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| <b>Consumer Behaviour</b>                                   | Prof. Srabanti Mukherjee                        | IITKGP    | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |

## List of NPTEL Online Courses Available for Registration : Jan. - April 2022

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|                                   |   |        |          |                   |                   |                |
|-----------------------------------|---|--------|----------|-------------------|-------------------|----------------|
| <b>Six Sigma</b>                  | Prof. Jitesh J Thakkar                              | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Talent Acquisition and Management | Prof. Santosh Rangnekar                             | IITR   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>International Marketing</b>    | Prof. Biswarup Ghosh                                | IITKGP | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| <b>Retail Management</b>          | Prof. Swagato Chatterjee                            | IITKGP | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Business Law for Managers</b>  | Prof. S. Srinivasan<br>Prof. Kaushik Mukherjee      | IITKGP | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Strategic Performance Management  | Prof. Kbl Srivastava                                | IITKGP | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| Safety and Risk Analytics         | Prof. Jhareswar Maiti                               | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Leadership                        | Prof. Tuheena Mukherjee<br>Prof. Kalyan Chakravarti | IITKGP | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |

### Subject : Biotechnology

| Course Name  | SME Name                   | Institute | Duration | Course Start Date | Course End Date   | Exam date      |
|--|----------------------------|-----------|----------|-------------------|-------------------|----------------|
| Maternal Infant Young Child Nutrition  | Prof. Rupal Dalal          | IITB      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Computational Systems Biology  | Prof. Karthik Raman        | IITM      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Material and Energy Balances   | Prof. Vignesh Muthuvijayan | IITM      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Optical Spectroscopy and Microscopy : Fundamentals of optical measurements and instrumentation | Prof. Balaji Jayaprakash   | IISc      | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Introduction to Professional Scientific Communication  | Prof. S. Ganesh            | IITK      | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |

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|  |   |        |          |                   |                   |                |
|--|---|--------|----------|-------------------|-------------------|----------------|
| <b>Human Molecular Genetics</b>  | Prof. S. Ganesh                                   | IITK   | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Introductory Mathematical Methods for Biologists                         | Prof. Ranjit Padinhateeri                         | IITB   | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 24, 2022 |
| Aspects Of Biochemical Engineering                                       | Prof. Debabrata Das                               | IITKGP | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| Bioengineering: An Interface with Biology and Medicine                   | Prof. Sanjeeva Srivastava                         | IITB   | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Interactomics : Basics & Applications                                    | Prof. Sanjeeva Srivastava                         | IITB   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Bioinformatics: Algorithms and Applications</b>                       | Prof. Michael Gromiha                             | IITM   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| <b>Biostatistics and Design of experiments</b>                           | Prof. Mukesh Doble                                | IITM   | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| <b>Demystifying The Brain</b>  | Prof. Srinivas Chakravarthy                       | IITM   | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Medical Biomaterials   | Prof. Mukesh Doble                                | IITM   | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |
| Thermodynamics for Biological Systems : Classical and Statistical Aspect | Prof. G. K. Suraishkumar<br>Prof. Sanjib Senapati | IITM   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 24, 2022 |
| Basics of Biology  | Prof. Vishal Trivedi                              | IITG   | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |
| <b>Cell Biology: Cellular organization, division and processes</b>       | Prof. Shikha Laloraya                             | IISc   | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Bioreactor Design and Analysis   | Prof. Smita Srivastava                            | IITM   | 8 Weeks  | January 24, 2022  | March 18, 2022    | March 27, 2022 |
| Data Analysis for Biologists   | Prof. Biplab Bose                                 | IITG   | 8 Weeks  | February 21, 2022 | April 15, 2022    | April 23, 2022 |

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|                                      |                                      |        |          |                   |                |                |
|--------------------------------------|--------------------------------------|--------|----------|-------------------|----------------|----------------|
| Biointerface Engineering             | Prof. Lalit M. Pandey                | IITG   | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |
| <b>Biochemistry - IITM</b>           | Prof. Subramaniam K                  | IITM   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Forests And Their Management</b>  | Prof. Ankur Awadhiya                 | IITK   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| <b>Nanotechnology In Agriculture</b> | Prof. Mainak Das                     | IITK   | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 24, 2022 |
| Bioelectrochemistry                  | Prof. Mainak Das                     | IITK   | 4 Weeks  | February 21, 2022 | March 18, 2022 | April 23, 2022 |
| <b>Plant Developmental Biology</b>   | Prof. Shri RamYadav                  | IITR   | 4 Weeks  | February 21, 2022 | March 18, 2022 | April 24, 2022 |
| <b>Structural Biology</b>            | Prof. Saugata Hazra                  | IITR   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Metabolic Engineering                | Prof. Pinaki Sar<br>Prof. Amit Ghosh | IITKGP | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 24, 2022 |
| <b>Conservation Economics</b>        | Prof. Ankur Awadhiya                 | IITK   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |

### Subject : Multidisciplinary

| Course Name                            | SME Name  | Institute | Duration | Course Start Date | Course End Date   | Exam date      |
|--|---|-----------|----------|-------------------|-------------------|----------------|
| <b>Designing Learner-Centric MOOCs</b> | Prof. Gargi Banerjee<br>Prof. Sahana Murthy<br>Prof. Jayakrishnan M.<br>Prof. Sameer Sahasrabudhe | IITB      | 4 Weeks  | January 24, 2022  | February 18, 2022 | March 27, 2022 |
| Entrepreneurship Essentials            | Prof. Manoj Kumar Mondal  | IITKGP    | 12 Weeks | January 24, 2022  | April 15, 2022    | April 23, 2022 |

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|   |  |   |          |                   |                |                |
|---|--|---|----------|-------------------|----------------|----------------|
| Fuzzy Logic and Neural Networks   | Prof. Dilip Kumar Pratihara  | IITKGP  | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 24, 2022 |
| Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts | Prof. Brajesh Kumar Dubey  | IITKGP  | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| <b>Research Methodology</b>   | Prof. Soumitro Banerjee  | IISER Kolkata   | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Basic Course in Ornithology   | Dr. Mousumi Ghosh<br>Dr. Manjari Jain<br>Dr. R Jayapal<br>Dr. Anand Krishnan<br>Dr. Suhel Quader<br>Dr. V.V. Robin<br>Dr. Umesh Srinivasan | NCF<br>IISER Mohali<br>SACON<br>IISER Pune<br>NCF<br>IISER Tirupati<br>IISc | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers                            | Prof. Raghvendra Gupta   | IITG  | 12 Weeks | January 24, 2022  | April 15, 2022 | April 23, 2022 |
| Environmental Chemistry and Microbiology  | Prof. Anjali Pal<br>Prof. Sudha Goel   | IITKGP  | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Outcome Based Pedagogic Principles for Effective Teaching                                       | Prof. Shyamal Kumar Das Mandal   | IITKGP  | 4 Weeks  | February 21, 2022 | March 18, 2022 | April 24, 2022 |
| Non-conventional energy Resources   | Prof. Prathap Haridoss   | IITM  | 12 Weeks | January 24, 2022  | April 15, 2022 | April 24, 2022 |
| Introduction to Research  | Prof. Edamana Prasad<br>Prof. Prathap Haridoss   | IITM  | 8 Weeks  | February 21, 2022 | April 15, 2022 | April 23, 2022 |
| Oral Biology  | Prof. Ramya and Team   | Saveetha Dental College & IITM  | 8 Weeks  | January 24, 2022  | March 18, 2022 | March 27, 2022 |