

**List of January 2024 Semester Courses approved by SWAYAM Board**

| <b>Higher Education Courses for January 2024 Semester</b> |                                       |  |
|---|---------------------------------------|--|
| <b>S.N.</b>   | <b>NC Name</b>                        | <b>No. of Courses Approved by SWAYAM Board for January 2024 Semester</b> |
| 1   | CEC (PG + UG Non Engineering)         | 153  |
| 2   | NPTEL (UG & PG Engineering)           | 720  |
| 3   | IGNOU (Certificate & Diploma Courses) | 191  |
| 4   | IIM B (Management)                    | 57   |
| 5   | UGC                                   | 4  |
| 6   | AICTE (Foreign Universities) + ARPIT  | 18   |
| 7   | NITTTR (Teacher Training)             | 40   |
|   | <b>Total</b>                          | <b>1183</b>  |

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

| Sr. No. | Subject / Discipline       | Course Title                                     | Name of the Course Coordinator | Host University/Institute      | Level of the Course | No of Credits |
|---------|----------------------------|--|--------------------------------|--------------------------------|---------------------|---------------|
| 1       | B.Sc. (Honors) Mathematics | Real Analysis                                    | Prof. Surajit Borkotokey       | Dibrugarh University           | UG                  | 5             |
| 2       | B.Sc. Computer Science     | Programming in Python                            | Dr. Rizwan Rehman              | Dibrugarh University           | UG                  | 4             |
| 3       | B Com/M Com/MBA            | Direct Tax Laws and Practice                     | Subhrangshu Sekhar             | Tezpur University              | PG                  | 4             |
| 4       | Common Paper               | English Communication                            | Dr. Kshema Jose                | EFLU Hyderabad                 | UG                  | 2             |
| 5       | BA English                 | Shakespeare to Milton: A Study of British        | Dr. Jai Singh                  | EFLU Hyderabad                 | UG                  | 5             |
| 6       | B.Sc. Home Science         | Diet Management in Health and disease            | Dr Vipparti Vijaya Lakshmi     | EFLU Hyderabad                 | UG                  | 3             |
| 7       | LL.B.                      | Intellectual Property Rights and Competition Law | Prof. (Dr.) G. B. Reddy        | EFLU Hyderabad                 | UG                  | 3             |
| 8       | B.Sc Home science          | Apparel Designing                                | Dr. A. Sarada Devi             | EFLU Hyderabad                 | UG                  | 4             |
| 9       | BA German                  | Proficiency Course in German                     | Dr Nishant K Narayanan         | EFLU Hyderabad                 | UG                  | 5             |
| 10      | B.Sc Home science          | Child Development                                | Mrs V Kavitha Kiran            | EFLU Hyderabad                 | UG                  | 3             |
| 11      | BA Psychology              | Applied Fields of Psychology                     | Dr. P. Swathi                  | EFLU Hyderabad                 | UG                  | 5             |
| 12      | BA English                 | Indian Writing in English-1                      | Dr.V.Rajunayak                 | EFLU Hyderabad                 | UG                  | 4             |
| 13      | BA Psychology              | Basic Psychological Processes                    | Dr NDS NAGA SEEMA              | EFLU Hyderabad                 | UG                  | 4             |
| 14      | Multidisciplinary          | ANIMATIONS                                       | Dr. Abhishek Kumar & Dr.       | Banaras Hindu University,      | PG                  | 4             |
| 15      | MA Psychology              | Counseling Psychology                            | Dr Mamta Sharma                | Punjabi University, Patiala    | PG                  | 4             |
| 16      | Multidisciplinary          | Food Microbiology and Food Safety                | Dr Tejpal Dhewa                | Central University of Haryana, | PG                  | 4             |

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|---------|------------------------------|--|--------------------------------|--|---------------------|---------------|
| 17      | BA Hindi                     | Hindi Sahitya ka Itihaas                             | Prof Subhash Chander           | Kurukshetra University,                | UG                  | 4             |
| 18      | MA Public Administration     | Introduction to Public Administration                | Prof Ajmer Singh Malik         | Chaudhary Devi Lal University,         | PG                  | 4             |
| 19      | MA Performing Arts (Theatre) | Performing Arts & Allied Subjects                    | Prof.(Dr.) Yogesh Gambhir      | Punjabi University, Patiala            | PG                  | 3             |
| 20      | MA Fine Arts                 | Creative Painting                                    | Dr. Alka Chaddha               | Dayalbagh Educational                  | PG                  | 4             |
| 21      | MBA/M.Com                    | Organisation Behaviour                               | Prof.(Dr.) Vishal Kumar        | Panjab University, Chandigarh          | PG                  | 4             |
| 22      | MSc Biotechnology            | Biostatistics and Mathematical Biology               | Prof. Felix Bast               | Central University of Punjab, Bathinda | PG                  | 4             |
| 23      | MBA/M.Com                    | Digital Marketing                                    | Dr Tejinderpal Singh           | Panjab University, Chandigarh          | PG                  | 4             |
| 24      | MSc Environmental Sciences   | Solid and Hazardous Waste Management                 | Prof. Vinod Kumar Garg         | Central University of Punjab, Bathinda | PG                  | 4             |
| 25      | Common Paper                 | Research Methodology                                 | Prof.G.S.Bajpai                | National Law University, Delhi         | PG                  | 4             |
| 26      | BA (Honors) Economics        | Mathematical Methods for Economics-I                 | Prof. Anupama                  | Punjabi University, Patiala            | UG                  | 5             |
| 27      | B.Sc. Biotechnology          | General Microbiology                                 | Dr. Ishwori Laitonjam          | Manipur University                     | UG                  | 4             |
| 28      | BA Political Science         | Human, Rights Law and Criminal Justice               | Dr. N. Pramod Singh            | Manipur University                     | UG                  | 4             |
| 29      | B.Sc. Biotechnology          | Cell Biology   | Dr. K. Sanatombi               | Manipur University                     | UG                  | 4             |
| 30      | BSc. Agriculture             | Diseases of Horticultural Crops and their Management | Dr. Bireswar Sinha             | Manipur University                     | UG                  | 3             |
| 31      | BA Physical Education        | Sports Administration and Management                 | Dr. M. Chourjit                | Manipur University                     | UG                  | 3             |
| 32      | B.Sc. Biochemistry           | Nutritional & Clinical Biochemistry                  | Dr. Senjam Sunil Singh         | Manipur University                     | UG                  | 4             |
| 33      | B.Com                        | Introduction to Marketing Management - 1             | Dr. Nambram Amulkumar          | Manipur University                     | UG                  | 3             |
| 34      | B.Sc. Biotechnology          | Immunology   | Dr. Reena Haobam               | Manipur University                     | UG                  | 4             |
| 35      | BA (Honors) Psychology       | Statistical Methods for Psychological Research       | Dr. Jitendra Kumar Kushwaha    | Manipur University                     | UG                  | 5             |

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|---------|-------------------------------|---|--------------------------------|---------------------------------|---------------------|---------------|
|         |                               | - I   |                                |                                 |                     |               |
| 36      | BA (Honors) Psychology        | Youth, Gender and Identity                                    | Dr. Naziya Hasan               | Manipur University              | UG                  | 4             |
| 37      | BA (Honors) History           | History of India-I( Ancient India )                           | Dr. Bhabananda Singh           | Manipur University              | UG                  | 5             |
| 38      | BA (Honors) History           | Social Formations and Cultural Patterns of the Medieval World | Dr. Shilleima Chanu Naoroibam  | Manipur University              | UG                  | 5             |
| 39      | BA (Honors) Political Science | United Nations and Global Conflicts                           | Dr. Arambam Noni Meetei        | Manipur University              | UG                  | 5             |
| 40      | Management                    | Retail and Channel Management                                 | Dr. Yamini Karmarkar and       | Devi Ahilya Vishwavidyalaya,    | UG                  | 4             |
| 41      | Generic Elective              | Basics of Photography   | Dr. Narayan Patidar            | Devi Ahilya Vishwavidyalaya,    | UG                  | 3             |
| 42      | Cyber Security/Inform         | Information Security and Cyber Forensics                      | Prof. Pratosh Bansal           | Devi Ahilya Vishwavidyalaya,    | UG                  | 4             |
| 43      | B.Com. (Honours)              | Macroeconomics  | Dr. Vishakha Kutumbale         | Devi Ahilya Vishwavidyalaya,    | UG                  | 5             |
| 44      | B.Com. (Honours)              | Financial Accounting  | Dr. Manish Sitlani             | Devi Ahilya Vishwavidyalaya,    | UG                  | 5             |
| 45      | Common Paper                  | Environmental Studies   | Dr. Monica Jain                | Devi Ahilya Vishwavidyalaya,    | UG                  | 2             |
| 46      | B.Com. (Honours)              | Micro economics   | Dr. M. Vasim Khan              | Devi Ahilya Vishwavidyalaya,    | UG                  | 5             |
| 47      | BA (Honors) Political Science | Understanding Political Theory                                | Dr. Ashwini Sharma             | Devi Ahilya Vishwavidyalaya,    | UG                  | 5             |
| 48      | B.Sc.Geology                  | Petrology   | Prof. H. Thomas                | Dr. Harisingh Gour Vishwavidyal | UG                  | 4             |
| 49      | BA Arts                       | Talon ka Soundarya Shastra                                    | Dr. Rahul Swarnkaar            | Dr. Harisingh Gour Vishwavidyal | UG                  | 3             |
| 50      | B.Sc.Geology                  | Photo Geology and Remote Sensing                              | Prof. R.K. Rawat               | Dr. Harisingh Gour Vishwavidyal | UG                  | 2             |
| 51      | BA Hindi                      | Bhasha Proudhyogiki ka Parichay                               | Dr. C. Jaya Sankar Babu        | Pondicherry University          | PG                  | 5             |
| 52      | B.Sc. (Honors) Mathematics    | Algebra   | Dr.T.Asir                      | M.K.University                  | UG                  | 5             |
| 53      | BA (Honors) Sociology         | Sociology of India - 1  | Dr.B.Geetha                    | M.K.University                  | UG                  | 5             |

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|---------|-------------------------|---|--------------------------------|---------------------------|---------------------|---------------|
| 54      | BA English              | Nature of language                      | Dr. Shiva Durga                | M.K.University            | UG                  | 2             |
| 55      | B.Sc. Computer Science  | Problem solving Aspects and Python      | Dr.S.Malliga                   | M.K.University            | UG                  | 4             |
| 56      | B.A Journalism and Mass | Reporting and Editing for Print         | Dr. S. Saleema Rabiya          | M.K.University            | UG                  | 4             |
| 57      | B.Ed                    | Child development                       | Dr.S.Prakash                   | M.K.University            | UG                  | 2             |
| 58      | B.Ed Spl. Education     | Learning, Teaching and Assessment       | Dr. G. Victoria Naomi          | M.K.University            | UG                  | 2             |
| 59      | B.Ed Spl. Education     | Sensory Disabilities                    | Mrs. R.Shanthi                 | M.K.University            | UG                  | 2             |
| 60      | B.Ed Spl. Education     | Orientation and Mobility                | Mrs. R. Nagomi Ruth            | M.K.University            | UG                  | 2             |
| 61      | BA Geography            | Agricultural Geography                  | Dr V Krishna Kumar             | University of Mysore      | UG                  | 4             |
| 62      | BSc. Sericulture        | Applied Entomology                      | Dr. Sannappa B                 | University of Mysore      | UG                  | 4             |
| 63      | BSc. Statistics         | Descriptive Statistics                  | Prof Vidya Raju                | University of Mysore      | UG                  | 4             |
| 64      | BA (Honors) Economics   | Environmental Economics                 | Prof Ravindra Kumar            | University of Mysore      | UG                  | 5             |
| 65      | BA Geography            | Geography of India                      | Prof. A. Balasubramanian       | University of Mysore      | UG                  | 4             |
| 66      | BA Tourism              | Hospitality Industry in Tourism         | Prof. H. Rajashekar            | University of Mysore      | UG                  | 4             |
| 67      | BSC. Biotechnology      | Human Genetics                          | Prof N B Ramachandra           | University of Mysore      | UG                  | 4             |
| 68      | BA (Honors) Economics   | Introductory Microeconomics             | Dr Reshma Chengappa            | University of Mysore      | UG                  | 5             |
| 69      | BA Geography            | Physical Geography - Climatology and    | Dr. Arun Das                   | University of Mysore      | UG                  | 4             |
| 70      | BSc. Statistics         | Probability and Probability             | Prof P Nagesh                  | University of Mysore      | UG                  | 4             |
| 71      | BSc. Sericulture        | Silkworm rearing and reeling technology | Dr Divya                       | University of Mysore      | UG                  | 4             |
| 72      | BSc. Biological Science | Virology                                | Dr. K. R. Maruthi              | University of Mysore      | UG                  | 4             |
| 73      | BSc Zoology             | Wild Life and its                       | Dr S Basavarajappa             | University of             | UG                  | 4             |

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|---------|----------------------------|--|--------------------------------|-----------------------------------|---------------------|---------------|
|         |                            | Conservation   |                                | Mysore                            |                     |               |
| 74      | BSc. Computer Science      | Course in Information Technology                             | Bageshree Deo                  | Savitribai Phule University, Pune | UG                  | 3             |
| 75      | BBA / BCom                 | Fundamentals of Banking and Insurance                        | Dr. Girija Shankar             | Savitribai Phule University, Pune | UG                  | 2             |
| 76      | BBA / BCom                 | Fundamentals of Financial Management                         | Dr. Rupali Sheth               | Savitribai Phule University, Pune | UG                  | 3             |
| 77      | BBA / BCom                 | Management Information System                                | Dr. A. Abhilasha               | Savitribai Phule University, Pune | UG                  | 4             |
| 78      | BA (Honours) Psychology    | Introduction to Psychology                                   | Dr. Megha Deuskar              | Savitribai Phule University, Pune | UG                  | 4             |
| 79      | BA (Honours) Economics     | Introductory Macroeconomics                                  | Dr. Manasi Kurtkoti            | Savitribai Phule University, Pune | UG                  | 5             |
| 80      | B.Com. (Honours)           | Business Law   | Dr. Ravi Ahuja                 | Savitribai Phule University, Pune | UG                  | 5             |
| 81      | MA Education /M.Ed.        | Communication Technologies in Education                      | Dr. Dhaneswar Harichandan      | University of Mumbai              | PG                  | 5             |
| 82      | B.Com. (Honours)           | Corporate Law  | Dr. Heena Basharat             | University of Kashmir             | UG                  | 5             |
| 83      | B. A (Honour's) Psychology | Psychology of Individual Differences                         | Dr Manzoor Ahmad Rather        | University of Kashmir             | UG                  | 4             |
| 84      | BA (Honours) History       | Social Formations and Cultural Patterns of the Ancient World | Dr Abdul Rashid Lone           | University of Kashmir             | UG                  | 5             |
| 85      | BA (Honours) History       | History of India-II  | Dr. Younus Rashid              | University of Kashmir             | UG                  | 5             |
| 86      | B. A (Honour's) Psychology | Psychology for Health and Well-being                         | Dr. Yasir Hamid Bhat           | University of Kashmir             | UG                  | 5             |
| 87      | B.A. (LAW)                 | Administrative Law   | Dr. Aneeda Jan                 | University of Kashmir             | UG                  | 2             |
| 88      | BSc. Environmental         | Complex Ecosystem Dynamics                                   | Dr. Syed Maqbool Geelani       | University of Kashmir             | UG                  | 2             |
| 89      | BSc. Biotech.              | Immunology   | Dr. Manzoor A. Mir             | University of Kashmir             | UG                  | 4             |
| 90      | BSc. Botany                | Embryology of Angiosperms                                    | Dr. Khursheed Ahmad Ganai      | University of Kashmir             | UG                  | 2             |
| 91      | BA (Honours) History       | Environmental Issues   | Dr. Javid A Parray             | University of                     | UG                  | 5             |

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|---------|---------------------------------------|--|---------------------------------|--|---------------------|---------------|
|         |                                       | In India                                       |                                 | Kashmir                                    |                     |               |
| 92      | BA (Honors) Political Science         | POLITICAL THEORY: CONCEPTS & DEBATES           | DR. SIBAJI PRATIM BASU          | ST. XAVIER'S COLLEGE, KOLKATA              | UG                  | 5             |
| 93      | BA (Honors) Sociology                 | Introduction to Sociology I                    | Dr Sarbani Bandyopadhyay        | St. Xavier's College (Autonomous)          | UG                  | 5             |
| 94      | BA (Honors) History                   | Making of Contemporary India                   | Dr. Soumitra Sreemani           | St. Xavier's College (Autonomous)          | UG                  | 5             |
| 95      | BA (Honors) Political Science         | Constitutional Government & Democracy in India | Prof. Amitabha Ray              | St. Xavier's College (Autonomous)          | UG                  | 5             |
| 96      | B.A. (Honors) Sociology               | Sociology of Media                             | Dr. Ipsita Barat                | St. Xavier's College (Autonomous), Kolkata | UG                  | 5             |
| 97      | BA (Honors) Economics                 | Econometrics                                   | Partha Pratim Ghosh             | St. Xavier's College (Autonomous), Kolkata | UG                  | 5             |
| 98      | BA (Honors) Political Science         | Political Process in India                     | Dr. Jhumpa Mukherjee            | St Xavier's College, Kolkata               | UG                  | 5             |
| 99      | BA (Honors) Sociology                 | INTRODUCTION TO SOCIOLOGY-II                   | KASTURI SINHA GHOSH             | St. Xavier's College(Autonomo              | UG                  | 5             |
| 100     | BA Multi Media and Mass Communication | Advertisement and Media                        | Dr. Manali Bhattacharya         | St. Xavier's College (Autonomous), Kolkata | UG                  | 2             |
| 101     | BA History                            | Aspects of European History (1780- 1939)       | Prof. Subhas Ranjan Chakrobarty | St. Xavier's College (Autonomous), Kolkata | UG                  | 3             |
| 102     | MSc. Mathematics                      | Operations Research                            | Prof. Bibhas Chandra Giri       | University of Calcutta, Kolkata            | PG                  | 4             |
| 103     | MSc. Mathematics                      | Partial Differential Equations                 | Alaka Das                       | University of Calcutta                     | PG                  | 4             |
| 104     | MSc. Mathematics                      | Numerical Analysis                             | Dr. Madhumangal Pal             | Calcutta University                        | PG                  | 4             |
| 105     | MSc. Mathematics                      | FUNCTIONAL ANALYSIS                            | DR. MANTU SAHA                  | University of Calcutta                     | PG                  | 4             |
| 106     | LLB                                   | Law and Justice in a Globalising World         | Prof. Srikrishna Deva Rao       | National Law University Orissa             | PG                  | 4             |
| 107     | MSc. Chemistry                        | CHEMISTRY OF NANOMATERIALS                     | Dr. Syamchand. S. S             | University of Calicut                      | PG                  | 4             |
| 108     | BSc. Nanotechnology                   | Introduction to Nanoscience and                | Dr. Swapna S Nair               | University of Calicut                      | UG                  | 4             |
| 109     | BSc Zoology                           | Applied and Economic                           | Dr.Dalie Dominic A              | University of                              | UG                  | 4             |

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|---------|---------------------------|---|----------------------------------|--------------------------------------|---------------------|---------------|
|         |                           | Zoology   |                                  | Calicut                              |                     |               |
| 110     | BSc Zoology               | Animal Biotechnology                            | Dr.Jayasree.S                    | University of Calicut                | UG                  | 4             |
| 111     | BSc. Computer Science     | Art of C Programming                            | Dr.Lajish V L                    | University of Calicut                | UG                  | 4             |
| 112     | B.Ed                      | School Organization: Administration& Management | Dr. Minila K. George             | University of Calicut                | UG                  | 4             |
| 113     | BSc (Honours) Mathematics | Information Security                            | Dr. Reshma P K                   | University of Calicut                | UG                  | 5             |
| 114     | BSc. Biological Sciences  | Genetics and Genomics                           | Dr. Jos T Puthur                 | University of Calicut                | UG                  | 4             |
| 115     | Common Paper              | Communicative English                           | Dr.Salia Rex                     | University of Calicut                | UG                  | 4             |
| 116     | BSc (Honours) Mathematics | Differential Equations                          | Mr. Mohamed Nishad Maniparambath | University of Calicut                | UG                  | 4             |
| 117     | BSc (Honours) Mathematics | Calculus  | Dr. Mansoor P                    | University of Calicut                | UG                  | 4             |
| 118     | BA (Honours) Economics    | ECONOMIC HISTORY OF INDIA FROM 1857 TO 1947     | Dr. Linda George                 | University of Calicut                | UG                  | 5             |
| 119     | B Com/M Com/MBA           | Entrepreneurship Development                    | Nilam Panchal                    | Gujarat University                   | UG                  | 4             |
| 120     | MLISc                     | Digital Library                                 | Dr. Jagdish Arora                | Central University of Himachal       | PG                  | 5             |
| 121     | MBA / BBA                 | HRM For Non-HR Managers                         | Dr. Margie Parikh                |                                      | PG                  | 4             |
| 122     | B Com/M Com/MBA           | Management Accounting                           | Dr. Deepak Raste                 | Gujarat University                   | UG                  | 4             |
| 123     | LLM                       | Access to Justice                               | Dr. Bharti Yadav                 | National Law University, Delhi       | PG                  | 4             |
| 124     | LLM                       | Advanced Constitutional Law                     | Prof. (Dr.) Anupama Goel         | National Law University Delhi        | PG                  | 4             |
| 125     | MSc. Biological Science   | Biomolecules : Structure, Function In           | Ashok Sharma                     | All India Institute of Medical       | PG                  | 4             |
| 126     | M.Arc                     | City & Metropolitan Planning                    | Prof. Dr. Sanjukta Bhaduri       | School of Planning and Architecture, | PG                  | 4             |
| 127     | LLM                       | Criminal Justice Administration                 | Dr. Neeraj Tiwari                | National Law University Delhi        | PG                  | 4             |



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|---------|------------------------------------|--|--------------------------------|-----------------------------------|---------------------|---------------|
| 128     | MA Hindi                           | Hindi Bhasha ka Udbhav aur Vikas           | Dr. Ganga Sahay Meena          | Jawaharlal Nehru University       | PG                  | 4             |
| 129     | MA Hindi                           | Hindi Gadya Sahitya Katha Sahitya          | Professor Deo Sahankar Navin   | Jawaharlal Nehru University       | PG                  | 4             |
| 130     | MA Hindi                           | Indian Culture & History                   | Prof. Shiv Shankar Mishra      | Shri Lal Bahadur Shastri National | PG                  | 4             |
| 131     | BSc. Chemistry                     | Organic Chemistry 1 UG                     | B. S. Balaji                   | Jawaharlal Nehru University       | UG                  | 4             |
| 132     | Multidisciplinary                  | Society and Media                          | Dr. Durgesh Tripathi           | Guru Gobind Singh Indraprastha    | PG                  | 4             |
| 133     | Multidisciplinary                  | Media Content Production on Multiple       | Dr. Krishna Sankar Kusuma      | Jamia Millia Islamia, New Delhi   | PG                  | 4             |
| 134     | LLM                                | Intellectual Property                      | Dr Yogesh Pai                  | National Law University           | PG                  | 4             |
| 135     | MA Sanskrit                        | Indian Vastushastra                        | Dr. Pravesh Vyas               | Sri Lal Bahadur Shastri Rashtriya | PG                  | 4             |
| 136     | MA Sanskrit                        | Introductory Sanskrit: Grammar             | Prof. Jaikant Singh Sharma     | Sri Lal Bahadur Shastri Rashtriya | PG                  | 4             |
| 137     | Multidisciplinary                  | Introduction to Film Studies               | Juhee Prasad                   | Doon University                   | UG                  | 4             |
| 138     | BSc. Chemistry                     | Coordination Chemistry, states of          | Dr. R. N. Jadeja               | The Maharaja Sayajirao            | UG                  | 4             |
| 139     | Multidisciplinary (Research)       | Academic Writing                           | Dr Ajay Semalty                | H.N.B. Garhwal University, (A     | PG                  | 4             |
| 140     | MA Hindi                           | हिंदी भाषा एव संपन्न (Ability Enhancement) | Dr. Kshama Pandey              | MJP Rohilkhand University         | UG                  | 4             |
| 141     | BA (Honours) Public Administration | Public Policy and Governance               | Dr. A. Sridhar Raj             | Osmania University                | UG                  | 5             |
| 142     | BA (Honours) Public                | Administrative Theory                      | Dr.Lakshman                    | Osmania University                | UG                  | 5             |
| 143     | Earth Sciences & Geography         | Water Resources and Watershed Management   | Dr. Harish Gupta               | Osmania University                | PG                  | 4             |
| 144     | BA (Honours) Sociology             | Rethinking Development                     | Prof. Satyapriya Rout          | Univeristy of Hyderabad           | UG                  | 5             |
| 145     | BA (Honours) Public Administration | Introduction to Public Administration      | Prof.Y Pardha Saradhi          | Osmania University                | UG                  | 5             |
| 146     | BSc. Computer Science              | Data Structures                            | Dr.J.Indumathi                 | Anna University                   | UG                  | 4             |

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|---------|-----------------------|--|--------------------------------|------------------------------|---------------------|---------------|
| 147     | BSc. Computer Science | Data Base Management Systems           | Dr. E. Shanmugapriya           | Anna University              | UG                  | 4             |
| 148     | BSc. Electronics      | Digital Electronics and Microprocessor | Dr.V.Jeyalakshmi, Professor    | Anna UNIVERSITY              | UG                  | 2             |
| 149     | Commerce              | Statistics for Business Decisions      | Prof. Karunesh Saxena          | J N Vyas University, Jodhpur | UG                  | 4             |
| 150     | Geology               | Earth System Science                   | M S Sisodia                    | JNV University               | UG                  | 4             |
| 151     | Commerce              | CORPORATE ACCOUNTING                   | AMITA BISSA                    | JNVU                         | UG                  | 5             |
| 152     | Biopsychology         | Biopsychology                          | Dr. Hemlata Joshi              | JNVU                         | UG                  | 5             |
| 153     | Commerce              | Business Communication                 | Dr. Meeta Nihalani             | JNVU Jodhpur                 | UG                  | 4             |

### List of January 2024 Semester Course – NPTEL

| Sr. No. | Subject / Discipline    | Course Title  | Name of the Course Coordinator                   | Host University/Institute | No of Credits | Level of the Course |
|---------|-------------------------|---|--|---------------------------|---------------|---------------------|
| 1       | Aerospace Engineering   | Gasdynamics: Fundamentals and Applications  | Prof. Srisha Rao M V                             | IISc                      | 3             | UG/PG               |
| 2       | Aerospace Engineering   | Aircraft Design   | Prof. A.K.Ghosh                                  | IITK                      | 3             | UG/PG               |
| 3       | Aerospace Engineering   | Computational Science in Engineering  | Prof. Ashok De                                   | IITK                      | 2             | UG/PG               |
| 4       | Aerospace Engineering   | Fundamentals of Theoretical and Experimental Aerodynamics                         | Prof. Arnab Roy                                  | IITKGP                    | 3             | UG/PG               |
| 5       | Aerospace Engineering   | Introduction to Aircraft Control System   | Prof. Dipak Kumar Giri                           | IITK                      | 3             | UG/PG               |
| 6       | Aerospace Engineering   | Introduction to Experiments in Flight   | Prof. A.K.Ghosh                                  | IITK                      | 1             | UG                  |
| 7       | Aerospace Engineering   | Lighter than Air Systems  | Prof. Rajkumar S. Pant                           | IITB                      | 3             | UG/PG               |
| 8       | Aerospace Engineering   | Rocket Propulsion   | Prof. K. Ramamurthi<br>Prof. V. Nagabhushana Rao | IITM                      | 3             | UG/PG               |
| 9       | Aerospace Engineering   | Combustion of Solid Fuels and Propellants   | Prof. Srinibas Karmakar                          | IITKGP                    | 2             | UG/PG               |
| 10      | Aerospace Engineering   | Introduction to Ancient Indian Technology   | Prof. D.P. Mishra                                | IITK                      | 2             | UG                  |
| 11      | Aerospace Engineering   | Aerospace Structural Analysis   | Prof. Mira Mitra                                 | IITKGP                    | 2             | UG                  |
| 12      | Aerospace Engineering   | Fundamentals of Supersonic and Hypersonic Flow                                    | Prof. Arnab Roy                                  | IITKGP                    | 3             | UG/PG               |
| 13      | Agriculture Engineering | Cooling Technology: Why and How utilized in Food Processing and allied Industries | Prof. Tridib Kumar Goswami                       | IITKGP                    | 3             | UG/PG               |
| 14      | Agriculture Engineering | Machine Learning For Soil And Crop Management                                     | Prof. Somsubhra Chakraborty                      | IITKGP                    | 3             | UG                  |
| 15      | Agriculture Engineering | Novel Technologies For Food Processing And Shelf Life Extension                   | Prof. Hari Niwas Mishra                          | IITKGP                    | 3             | UG                  |
| 16      | Agriculture Engineering | Traction Engineering  | Prof. Hifjur Raheman                             | IITKGP                    | 2             | UG/PG               |
| 17      | Agriculture Engineering | Watershed Hydrology   | Prof. Rajendra Singh                             | IITKGP                    | 3             | UG/PG               |
| 18      | Agriculture Engineering | Water Quality Management Practices  | Prof. Gourav Dhar Bhowmick                       | IITKGP                    | 3             | UG/PG               |

| Sr. No. | Subject / Discipline             | Course Title  | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------------------|---|--------------------------------|---------------------------|---------------|---------------------|
| 19      | Agriculture Engineering          | Modern Food Packaging Technologies: Regulatory Aspects and Global Trends          | Prof. Prem Prakash Srivastav   | IITKGP                    | 3             | UG/PG               |
| 20      | Agriculture Engineering          | Basics of Crop Breeding and Plant Biotechnology                                   | Prof. Joydeep Banerjee         | IITKGP                    | 3             | UG/PG               |
| 21      | Architecture and Planning        | Engineering/Architectural Graphics - part I - Orthographic projection             | Prof. Avlokita Agrawal         | IITR                      | 2             | UG                  |
| 22      | Architecture and Planning        | Engineering/Architectural Graphics – part II – Isometric and Axonometric Drawings | Prof. Avlokita Agrawal         | IITR                      | 1             | UG                  |
| 23      | Architecture and Planning        | Environmental Impact Assessment   | Prof. Harshit Sosan Lakra      | IITR                      | 3             | UG/PG               |
| 24      | Architecture and Planning        | Structure, Form, and Architecture: The Synergy                                    | Prof. Shubhajit Sadhukhan      | IITR                      | 2             | PG                  |
| 25      | Architecture and Planning        | User Interface Design   | Prof. Saptarshi Kolay          | IITR                      | 1             | UG/PG               |
| 26      | Architecture and Planning        | Introduction to History of Architecture in India                                  | Prof. Pushkar Sohoni           | IISER Pune                | 1             | UG                  |
| 27      | Architecture and Planning        | Research Methodology for Planning and Architectural Studies                       | Prof. Shubhajit Sadhukhan      | IITR                      | 3             | UG/PG               |
| 28      | Architecture and Planning        | Urban Services Planning   | Prof. Debapratim Pandit        | IITKGP                    | 3             | UG/PG               |
| 29      | Biotechnology and Bioengineering | Maternal Infant Young Child Nutrition   | Prof. Rupal Dalal              | IITB                      | 3             | UG/PG               |
| 30      | Biotechnology and Bioengineering | Maternal Infant Young Child Nutrition (Hindi)                                     | Prof. Rupal Dalal              | IITB                      | 3             | UG/PG               |
| 31      | Biotechnology and Bioengineering | Computational Genomics  | Prof. Vineet Kumar Sharma      | IISER Bhopal              | 3             | PG                  |
| 32      | Biotechnology and Bioengineering | RNA Biology   | Prof. Rajesh Ramachandran      | IISER Mohali              | 3             | PG                  |
| 33      | Biotechnology and Bioengineering | Human Physiology  | Prof. Nishikant Subhedar       | IISER Pune                | 3             | PG                  |
| 34      | Biotechnology and Bioengineering | Biomechanics  | Prof. Varadhan                 | IITM                      | 3             | UG/PG               |
| 35      | Biotechnology and Bioengineering | Molecular Biology   | Prof. Vishal Trivedi           | IITG                      | 3             | UG                  |
| 36      | Biotechnology and Bioengineering | Pharmacognosy & Metabolic Engineering   | Prof. Adinpunya Mitra          | IITKGP                    | 3             | PG                  |

| Sr. No. | Subject / Discipline             | Course Title  | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------------------|---|--------------------------------|---------------------------|---------------|---------------------|
| 37      | Biotechnology and Bioengineering | Plant Developmental Biology                                 | Prof. Shri Ram Yadav           | IITR                      | 1             | UG/PG               |
| 38      | Biotechnology and Bioengineering | Structural Biology  | Prof. Saugata Hazra            | IITR                      | 3             | UG/PG               |
| 39      | Biotechnology and Bioengineering | Data Analysis For Biologists                                | Prof. Biplab Bose              | IITG                      | 2             | UG/PG               |
| 40      | Biotechnology and Bioengineering | Biochemistry - IITM   | Prof. Subramaniam K            | IITM                      | 3             | UG                  |
| 41      | Biotechnology and Bioengineering | Bioelectrochemistry   | Prof. Mainak Das               | IITK                      | 1             | UG/PG               |
| 42      | Biotechnology and Bioengineering | Bioengineering: An Interface with Biology and Medicine      | Prof. Sanjeeva Srivastava      | IITB                      | 2             | UG                  |
| 43      | Biotechnology and Bioengineering | BioInformatics: Algorithms and Applications                 | Prof. Michael Gromiha          | IITM                      | 3             | UG/PG               |
| 44      | Biotechnology and Bioengineering | Biointerface Engineering                                    | Prof. Lalit M. Pandey          | IITG                      | 2             | UG/PG               |
| 45      | Biotechnology and Bioengineering | Bioreactor Design and Analysis                              | Prof. Smita Srivastava         | IITM                      | 2             | UG/PG               |
| 46      | Biotechnology and Bioengineering | Cell Biology: Cellular organization, division and processes | Prof. Shikha Laloraya          | IISc                      | 2             | UG/PG               |
| 47      | Biotechnology and Bioengineering | Computational Systems Biology                               | Prof. Karthik Raman            | IITM                      | 3             | UG/PG               |
| 48      | Biotechnology and Bioengineering | Conservation Economics                                      | Prof. Ankur Awadhiya           | IITK                      | 3             | UG/PG               |
| 49      | Biotechnology and Bioengineering | Demystifying The Brain                                      | Prof. Srinivas Chakravarthy    | IITM                      | 1             | UG/PG               |
| 50      | Biotechnology and Bioengineering | Enzyme Sciences and Technology                              | Prof. Vishal Trivedi           | IITG                      | 3             | UG                  |
| 51      | Biotechnology and Bioengineering | Forests and their Management                                | Prof. Ankur Awadhiya           | IITK                      | 3             | UG                  |
| 52      | Biotechnology and Bioengineering | Host-Pathogen Interaction (Immunology)                      | Prof. Himanshu Kumar           | IISER Bhopal              | 3             | PG                  |
| 53      | Biotechnology and Bioengineering | Interactomics : Basics & Applications                       | Prof. Sanjeeva Srivastava      | IITB                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline             | Course Title   | Name of the Course Coordinator   | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------------------|--|--|---------------------------|---------------|---------------------|
| 54      | Biotechnology and Bioengineering | Introductory Mathematical Methods for Biologists   | Prof. Ranjit Padinhateeri  | IITB                      | 2             | UG/PG               |
| 55      | Biotechnology and Bioengineering | Material and Energy Balances   | Prof. Vignesh Muthuvijayan   | IITM                      | 3             | UG                  |
| 56      | Biotechnology and Bioengineering | Medical Biomaterials   | Prof. Mukesh Doble   | IITM                      | 2             | UG/PG               |
| 57      | Biotechnology and Bioengineering | Metabolic Engineering  | Prof. Pinaki Sar<br>Prof. Amit Ghosh   | IITKGP                    | 2             | UG                  |
| 58      | Biotechnology and Bioengineering | Nanotechnology In Agriculture  | Prof. Mainak Das   | IITK                      | 2             | UG/PG               |
| 59      | Biotechnology and Bioengineering | Thermodynamics for Biological Systems :<br>Classical and Statistical Aspect                          | Prof. G. K. Suraishkumar<br>Prof. Sanjib Senapati  | IITM                      | 3             | UG                  |
| 60      | Biotechnology and Bioengineering | Optical Spectroscopy and Microscopy :<br>Fundamentals of optical measurements and<br>instrumentation | Prof. Balaji Jayaprakash   | IISc                      | 3             | PG                  |
| 61      | Biotechnology and Bioengineering | Biostatistics and Design of experiments  | Prof. Mukesh Doble   | IITM                      | 2             | UG/PG               |
| 62      | Biotechnology and Bioengineering | Introduction To Professional Scientific<br>Communication   | Prof. S. Ganesh  | IITK                      | 1             | PG                  |
| 63      | Biotechnology and Bioengineering | I Think Biology  | Prof. Kaustubh Rau<br>Prof. Sravanti Uppaluri<br>Prof. Divya Uma<br>Prof. Jayanti Ray<br>Prof. Mukherjee<br>Prof. Sriram | Azim Premji University    | 3             | UG                  |
| 64      | Biotechnology and Bioengineering | Microsensors, Implantable Devices and Rodent<br>Surgeries for Biomedical Applications                | Prof. Shabari Girishan K V<br>Prof. Hardik J. Pandya   | RUAS IISc                 | 3             | UG/PG               |
| 65      | Biotechnology and Bioengineering | Classics in Neuroscience   | Prof. Varadhan SKM   | IITM                      | 2             | PG                  |
| 66      | Civil Engineering                | Advanced Foundation Engineering  | Prof. Kousik Deb   | IITKGP                    | 3             | UG/PG               |
| 67      | Civil Engineering                | Advanced Soil Mechanics  | Prof. Sreedeeep S  | IITG                      | 3             | UG/PG               |
| 68      | Civil Engineering                | Air pollution and Control  | Prof. Bhola Ram Gurjar   | IITR                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline | Course Title   | Name of the Course Coordinator                       | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------|--|--|---------------------------|---------------|---------------------|
| 69      | Civil Engineering    | Applied Environmental Microbiology                         | Prof. Gargi Singh                                    | IITR                      | 3             | PG                  |
| 70      | Civil Engineering    | Applied Seismology for Engineers                           | Prof. Abhishek Kumar                                 | IITG                      | 3             | UG/PG               |
| 71      | Civil Engineering    | Basic construction materials                               | Prof. Manu Santhanam<br>Prof. Radhakrishna G. Pillai | IITM                      | 3             | UG                  |
| 72      | Civil Engineering    | Construction Methods And Equipment Management              | Prof. Indu Siva Ranjani Gandhi                       | IITG                      | 2             | PG                  |
| 73      | Civil Engineering    | Development and Applications of Special Concretes          | Prof. Sudhir Misra                                   | IITK                      | 2             | PG                  |
| 74      | Civil Engineering    | Earthquake Resistant Design of Foundations                 | Prof. B. K. Maheshwari                               | IITR                      | 2             | UG/PG               |
| 75      | Civil Engineering    | Engineering Hydrology                                      | Prof. Sreeja Pekkat                                  | IITG                      | 3             | UG                  |
| 76      | Civil Engineering    | Environmental Remediation of Contaminated Sites            | Prof. Bhanu Prakash Vellanki                         | IITR                      | 3             | UG/PG               |
| 77      | Civil Engineering    | Expansive Soil   | Prof. Anil Kumar Mishra                              | IITG                      | 2             | UG/PG               |
| 78      | Civil Engineering    | Finite Element Method                                      | Prof. Biswanath Banerjee<br>Prof. Amit Shaw          | IITKGP                    | 3             | UG/PG               |
| 79      | Civil Engineering    | Geographic Information Systems                             | Prof. Arun K. Saraf                                  | IITR                      | 3             | UG/PG               |
| 80      | Civil Engineering    | Geology and Soil Mechanics                                 | Prof. Priyanka Ghosh                                 | IITK                      | 3             | UG/PG               |
| 81      | Civil Engineering    | Geomorphology  | Prof. Pitambar Pati                                  | IITR                      | 3             | PG                  |
| 82      | Civil Engineering    | Geosynthetics And Reinforced Soil Structures               | Prof. K.Rajagopal                                    | IITM                      | 3             | PG                  |
| 83      | Civil Engineering    | Geotechnical Engineering - 1                               | Prof. D. N. Singh                                    | IITB                      | 3             | UG                  |
| 84      | Civil Engineering    | Geotechnical Engineering II Foundation Engineering         | Prof. Dilip Kumar Baidya                             | IITKGP                    | 3             | UG                  |
| 85      | Civil Engineering    | Hydraulic Engineering                                      | Prof. Mohammad Saud Afzal                            | IITKGP                    | 3             | UG                  |
| 86      | Civil Engineering    | Introduction to Accounting and Finance for Civil Engineers | Prof. K. N. Jha<br>Prof. Sudhir Misra                | IITK                      | 2             | UG/PG               |
| 87      | Civil Engineering    | Maintenance and Repair of Concrete Structures              | Prof. Radhakrishna G. Pillai                         | IITM                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline | Course Title  | Name of the Course Coordinator   | Host University/Institute  | No of Credits | Level of the Course |
|---------|----------------------|---|--|--|---------------|---------------------|
| 88      | Civil Engineering    | Mechanical Characterization of Bituminous Materials     | Prof. M. R. Nivitha (MRN)<br>Prof. Neethu Roy(NR)<br>Prof. A. Padmarekha(APR)<br>Prof. J. Murali Krishnan(JMK) | PSG Tech., Coimbatore<br>MBCET, Trivandrum<br>SRM IST,<br>Kattankulathur<br>IIT Madras | 3             | PG                  |
| 89      | Civil Engineering    | Microwave Remote Sensing in Hydrology                   | Prof. J. Indu  | IITB   | 3             | PG                  |
| 90      | Civil Engineering    | Plastic Waste Management                                | Prof. Brajesh Kumar Dubey  | IITKGP   | 2             | PG                  |
| 91      | Civil Engineering    | Remote Sensing Essentials                               | Prof. Arun K. Saraf  | IITR   | 3             | UG/PG               |
| 92      | Civil Engineering    | Retrofitting and Rehabilitation of Civil Infrastructure | Prof. Swati Maitra<br>Prof. Sriman Bhattacharya  | IITKGP   | 3             | PG                  |
| 93      | Civil Engineering    | Rock Engineering  | Prof. Priti Maheshwari   | IITR   | 3             | UG                  |
| 94      | Civil Engineering    | Soil Dynamics   | Prof. Paramita Bhattacharya  | IITKGP   | 3             | UG/PG               |
| 95      | Civil Engineering    | Soil Structure Interaction                              | Prof. Kousik Deb   | IITKGP   | 3             | UG/PG               |
| 96      | Civil Engineering    | Structural Analysis-I                                   | Prof. Amit Shaw  | IITKGP   | 3             | UG                  |
| 97      | Civil Engineering    | Structural Dynamics                                     | Prof. Ramancharala Pradeep Kumar   | IITH   | 3             | UG                  |
| 98      | Civil Engineering    | Structural Vibration                                    | Prof. Arunasis Chakarborty   | IITG   | 3             | UG/PG               |
| 99      | Civil Engineering    | Surface Water Hydrology                                 | Prof. Rajib Maity  | IITKGP   | 3             | UG                  |
| 100     | Civil Engineering    | Traffic Engineering                                     | Prof. Bhargab Maitra   | IITKGP   | 3             | PG                  |
| 101     | Civil Engineering    | Unsaturated Soil Mechanics                              | Prof. Tadikonda Venkata Bharat   | IITG   | 3             | UG/PG               |
| 102     | Civil Engineering    | Urban Transportation Systems Planning                   | Prof. Bhargab Maitra   | IITKGP   | 3             | PG                  |
| 103     | Civil Engineering    | Vibration of Continuous Systems                         | Prof. Sudip Talukdar   | IITG   | 3             | PG                  |
| 104     | Civil Engineering    | Water and waste water treatment                         | Prof. Bhanu Prakash Vellanki   | IITR   | 3             | UG                  |
| 105     | Civil Engineering    | Water Supply Engineering                                | Prof. Manoj Kumar Tiwari   | IITKGP   | 3             | UG/PG               |



| Sr. No. | Subject / Discipline | Course Title   | Name of the Course Coordinator   | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------|--|--|---------------------------|---------------|---------------------|
| 106     | Civil Engineering    | निर्माण प्रबंधन (Construction Management) के सिद्धांत[Nirman prabandhan (Construction Management) ke Siddhant] | Prof. Sudhir Misra   | IITK                      | 2             | UG                  |
| 107     | Civil Engineering    | Analysis and Design of Bituminous Pavements  | M. R. Nivitha (MRN) Neethu Roy (NR) A. Padmarekha (APR) J. Murali Krishnan (JMK) | IITM                      | 3             | PG                  |
| 108     | Civil Engineering    | Introduction to Lean Construction (Module 1 - Lean Basics)   | Prof. Koshy Varghese<br>Prof. N Raghavan   | IITM                      | 1             | UG/PG               |
| 109     | Civil Engineering    | Modern Construction Materials  | Prof. Ravindra Gettu<br>Prof. Piyush Chaunsali                                   | IITM                      | 3             | UG/PG               |
| 110     | Civil Engineering    | Introduction to Civil Engineering Profession   | Prof. Ravindra Gettu<br>Prof. Subhadeep Banerjee                                 | IITM                      | 2             | UG                  |
| 111     | Civil Engineering    | Concrete Technology  | Prof. B. Bhattacharjee   | IITD                      | 3             | UG                  |
| 112     | Civil Engineering    | Energy Efficiency, Acoustics and Daylighting in Building   | Prof. B. Bhattacharjee   | IITD                      | 3             | PG                  |
| 113     | Earth Sciences       | Remote Sensing and GIS for rural development   | Prof. Pennan Chinnasamy  | IITB                      | 3             | UG                  |
| 114     | Earth Sciences       | The evolution of the Earth and life  | Prof. Devapriya<br>Chattopadhyay   | IISER Pune                | 3             | UG                  |
| 115     | Earth Sciences       | Geomorphic Processes: Landforms And Landscapes   | Prof. Javed N. Malik   | IITK                      | 2             | UG                  |
| 116     | Earth Sciences       | Natural Hazards  | Prof. Javed N. Malik<br>Prof. Santiswarup Sahoo                                  | IITK                      | 2             | PG                  |
| 117     | Civil Engineering    | Laboratory Practices in Earth Sciences: Landscape Mapping  | Prof. Javed N Malik  | IITK                      | 2             | UG/PG               |
| 118     | Civil Engineering    | Industrial Wastewater Treatment  | Prof Alok Sinha Prof S K Gupta   | IIT-ISM Dhanbad           | 3             | UG/PG               |
| 119     | Civil Engineering    | Advanced Topics in Science and Technology of Concrete  | Prof. Manu Santhanam<br>Prof. Ravindra Gettu                                     | IITM                      | 1             | PG                  |
| 120     | Chemical Engineering | Electrochemical Technology in Pollution Control  | Prof. J. R. Mudakavi   | IISc                      | 2             | UG/PG               |

| Sr. No. | Subject / Discipline | Course Title   | Name of the Course Coordinator                        | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------|--|---|---------------------------|---------------|---------------------|
| 121     | Chemical Engineering | Advanced Thermodynamics and Molecular Simulations              | Prof. Prateek Kumar Jha                               | IITR                      | 3             | UG/PG               |
| 122     | Chemical Engineering | Applied Time-Series Analysis                                   | Prof. Arun K Tangirala                                | IITM                      | 3             | PG                  |
| 123     | Chemical Engineering | Aspen Plus® Simulation Software - A Basic Course For Beginners | Prof. Prabirkumar Saha                                | IITG                      | 3             | UG/PG               |
| 124     | Chemical Engineering | Basic Principles And Calculations In Chemical Engineering      | Prof. Subrata Kumar Majumdar                          | IITG                      | 3             | UG                  |
| 125     | Chemical Engineering | Biological process design for wastewater treatment             | Prof. Vimal Chandra Srivastava                        | IITR                      | 2             | UG/PG               |
| 126     | Chemical Engineering | Biomass Conversion And Biorefinery                             | Prof. Kaustubha Mohanty                               | IITG                      | 3             | UG/PG               |
| 127     | Chemical Engineering | Chemical Engineering Fluid Dynamics and Heat Transfer          | Prof. Rabibrata Mukherjee<br>Prof. Arnab Atta         | IITKGP                    | 3             | UG                  |
| 128     | Chemical Engineering | Chemical Process Technology                                    | Prof. Tamal Banerjee                                  | IITG                      | 3             | UG                  |
| 129     | Chemical Engineering | Chemical Process Utilities                                     | Prof. Shishir Sinha                                   | IITR                      | 3             | UG/PG               |
| 130     | Chemical Engineering | Chemical Reaction Engineering II                               | Prof. Ganesh Vishwanathan                             | IITB                      | 3             | UG                  |
| 131     | Chemical Engineering | Computational Fluid Dynamics                                   | Prof. Sreenivas Jayanti                               | IITM                      | 3             | UG/PG               |
| 132     | Chemical Engineering | Computational process design                                   | Prof. Hariprasad Kodamana<br>Prof. Manojkumar Ramteke | IITD                      | 2             | UG                  |
| 133     | Chemical Engineering | Computer Aided Applied Single Objective Optimization           | Prof. Prakash Kotecha                                 | IITG                      | 3             | UG/PG               |
| 134     | Chemical Engineering | Environmental Quality Monitoring & Analysis                    | Prof. Ravi Krishna R                                  | IITM                      | 3             | UG/PG               |
| 135     | Chemical Engineering | Fluid Flow Operations  | Prof. Subrata Kumar Majumdar                          | IITG                      | 3             | UG                  |
| 136     | Chemical Engineering | Heat Transfer  | Prof. Ganesh Viswanathan                              | IITB                      | 3             | UG                  |
| 137     | Chemical Engineering | Membrane Technology  | Prof. Kaustubha Mohanty                               | IITG                      | 3             | UG/PG               |
| 138     | Chemical Engineering | Momentum Transfer in Fluids                                    | Prof. Somenath Ganguly /<br>Prof. Sunando DasGupta    | IITKGP                    | 3             | UG                  |

| Sr. No. | Subject / Discipline             | Course Title   | Name of the Course Coordinator                    | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------------------|--|---|---------------------------|---------------|---------------------|
| 139     | Chemical Engineering             | Multiphase Flows   | Prof. Rajesh Kumar Upadhyay                       | IIT(BHU) Varanasi         | 2             | UG/PG               |
| 140     | Chemical Engineering             | Multiphase Microfluidics   | Prof. Raghvendra Gupta                            | IITG                      | 2             | PG                  |
| 141     | Chemical Engineering             | Physical And Electrochemical Characterizations In Chemical Engineering | Prof. Tamal Banerjee                              | IITG                      | 2             | UG/PG               |
| 142     | Chemical Engineering             | Physico-chemical processes for wastewater treatment                    | Prof. Vimal Chandra Srivastava                    | IITR                      | 3             | UG/PG               |
| 143     | Chemical Engineering             | Polymer Reaction Engineering   | Prof. Shishir Sinha                               | IITR                      | 3             | UG/PG               |
| 144     | Chemical Engineering             | Process Equipment Design   | Prof. Shabina Khanam                              | IITR                      | 3             | UG                  |
| 145     | Chemical Engineering             | Renewable Energy Engineering: Solar, Wind And Biomass Energy Systems   | Prof. Vaibhav Vasant Goud, Prof. R. Anandalakshmi | IITG                      | 3             | UG/PG               |
| 146     | Chemical Engineering             | Thermodynamics Of Fluid Phase Equilibria                               | Prof. Jayant K. Singh                             | IITK                      | 2             | UG/PG               |
| 147     | Chemical Engineering             | Unit operations of particulate matter                                  | Prof. Shabina Khanam                              | IITR                      | 1             | UG                  |
| 148     | Chemical Engineering             | Waste to Energy Conversion   | Prof. P. Mondal                                   | IITR                      | 2             | UG                  |
| 149     | Chemical Engineering             | Advanced Thermodynamics  | Prof. Nanda Kishore                               | IITG                      | 3             | PG                  |
| 150     | Chemical Engineering             | Chemical Engineering Thermodynamics                                    | Prof. Sasidhar Gumma                              | IIT Tirupati              | 3             | UG                  |
| 151     | Chemical Engineering             | Modeling Stochastic phenomena for Engineering applications: Part-1     | Prof. Yelia Shankaranarayana Mayya                | IITB                      | 3             | UG/PG               |
| 152     | Chemical Engineering             | Inorganic Chemical Technology  | Prof. Nanda Kishore                               | IITG                      | 3             | UG                  |
| 153     | Chemical Engineering             | Applied Statistical Thermodynamics                                     | Prof. Tamal Banerjee                              | IITG                      | 3             | PG                  |
| 154     | Chemical Engineering             | Characterization of Polymers, Elastomers and Composites                | Prof. Santanu Chattopadhyay                       | IITKGP                    | 3             | UG/PG               |
| 155     | Chemical Engineering             | Matlab Programming for Numerical Computation                           | Prof. Niket Kaisare                               | IITM                      | 3             | UG/PG               |
| 156     | Computer Science and Engineering | Foundations of Cryptography  | Prof. Ashish Choudhury                            | IIIT Bangalore            | 3             | UG/PG               |
| 157     | Computer Science and Engineering | Introduction to programming in C                                       | Prof. Satyadev Nandakumar                         | IITK                      | 2             | UG/PG               |
| 158     | Computer Science and Engineering | Linear programming and its applications to computer science            | Prof. Rajat Mittal                                | IITK                      | 2             | UG/PG               |

| Sr. No. | Subject / Discipline             | Course Title  | Name of the Course Coordinator                       | Host University/Institute      | No of Credits | Level of the Course |
|---------|----------------------------------|---|--|--------------------------------|---------------|---------------------|
| 159     | Computer Science and Engineering | Privacy and Security in Online Social Media                     | Prof. Ponnurangam Kumaraguru                         | IITH                           | 3             | UG/PG               |
| 160     | Computer Science and Engineering | Basics of Computational Complexity                              | Prof. Nitin Saxena                                   | IITK                           | 3             | UG/PG               |
| 161     | Computer Science and Engineering | Advanced Computer Architecture                                  | Prof. Smruti Ranjan Sarangi                          | IITD                           | 3             | PG                  |
| 162     | Computer Science and Engineering | Secure Computation: Part I                                      | Prof. Ashish Choudhury                               | IIT Bangalore                  | 3             | UG/PG               |
| 163     | Computer Science and Engineering | An Introduction to Artificial Intelligence                      | Prof. Mausam   | IITD                           | 3             | UG                  |
| 164     | Computer Science and Engineering | Cloud Computing and Distributed Systems                         | Prof. Rajiv Misra                                    | IITK                           | 2             | UG/PG               |
| 165     | Computer Science and Engineering | Switching Circuits and Logic Design                             | Prof. Indranil Sengupta                              | IITKGP                         | 3             | UG                  |
| 166     | Computer Science and Engineering | Advanced Computer Networks                                      | Prof. Neminath Hubballi<br>Prof. Sameer Kulkarni     | IIT Indore<br>IIT Gandhi nagar | 3             | UG/PG               |
| 167     | Computer Science and Engineering | Affective Computing   | Prof. Jainendra Shukla<br>Prof. Abhinav Dhall        | IITD                           | 3             | UG/PG               |
| 168     | Computer Science and Engineering | AI:Constraint Satisfaction                                      | Prof. Deepak Khemani                                 | IITM                           | 2             | UG/PG               |
| 169     | Computer Science and Engineering | Artificial Intelligence: Knowledge Representation And Reasoning | Prof. Deepak Khemani                                 | IITM                           | 3             | UG/PG               |
| 170     | Computer Science and Engineering | Blockchain and its Applications                                 | Prof. Sandip Chakraborty<br>Prof. Shamik Sural       | IITKGP                         | 3             | UG/PG               |
| 171     | Computer Science and Engineering | Circuit Complexity Theory                                       | Prof. Raghunath Tewari                               | IITK                           | 3             | UG/PG               |
| 172     | Computer Science and Engineering | Cloud Computing   | Prof. Soumya Kanti Ghosh                             | IITKGP                         | 3             | UG                  |
| 173     | Computer Science and Engineering | Compiler Design   | Prof. Santanu Chattopadhyay                          | IITKGP                         | 3             | UG                  |
| 174     | Computer Science and Engineering | Computer Networks And Internet Protocol                         | Prof. Soumya Kanti Ghosh<br>Prof. Sandip Chakraborty | IITKGP                         | 3             | UG/PG               |

| Sr. No. | Subject / Discipline             | Course Title   | Name of the Course Coordinator                         | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------------------|--|--|---------------------------|---------------|---------------------|
| 175     | Computer Science and Engineering | Data Analytics with Python                                     | Prof. A Ramesh   | IITR                      | 3             | UG/PG               |
| 176     | Computer Science and Engineering | Data Base Management System                                    | Prof. Partha Pratim Das<br>Prof. Samiran Chattopadhyay | IITKGP                    | 2             | UG/PG               |
| 177     | Computer Science and Engineering | Data Mining  | Prof. Pabitra Mitra                                    | IITKGP                    | 2             | UG                  |
| 178     | Computer Science and Engineering | Design and analysis of algorithms                              | Prof. Madhavan Mukund                                  | CMI                       | 2             | UG                  |
| 179     | Computer Science and Engineering | Embedded System Design with ARM                                | Prof. Indranil Sengupta<br>Prof. Kamalika Datta        | IITKGP                    | 2             | UG                  |
| 180     | Computer Science and Engineering | Embedded Systems Design  | Prof. Anupam Basu                                      | IITKGP                    | 3             | UG                  |
| 181     | Computer Science and Engineering | Foundation of Cloud IoT Edge ML                                | Prof. Rajiv Misra                                      | IITP                      | 2             | UG/PG               |
| 182     | Computer Science and Engineering | Foundations of Cyber Physical Systems                          | Prof. Soumyajit Dey                                    | IITKGP                    | 3             | UG/PG               |
| 183     | Computer Science and Engineering | Fundamental Algorithms: Design And Analysis                    | Prof. Sourav Mukhopadhyay                              | IITKGP                    | 1             | UG/PG               |
| 184     | Computer Science and Engineering | Getting Started with Competitive Programming                   | Prof. Neeldhara Misra                                  | IIT Gandhinagar           | 3             | UG                  |
| 185     | Computer Science and Engineering | GPU Architectures And Programming                              | Prof. Soumyajit Dey                                    | IITKGP                    | 3             | UG/PG               |
| 186     | Computer Science and Engineering | Information Security - 5 - Secure Systems Engineering          | Prof. Chester Robeiro                                  | IITM                      | 2             | UG/PG               |
| 187     | Computer Science and Engineering | Introduction to Automata, Languages and Computation            | Prof. Sourav Mukhopadhyay                              | IITKGP                    | 3             | UG/PG               |
| 188     | Computer Science and Engineering | Introduction to Embedded System Design                         | Prof. Dhananjay V. Gadre<br>Prof. Badri N Subudhi      | IITD                      | 3             | UG/PG               |
| 189     | Computer Science and Engineering | Introduction To Industry 4.0 And Industrial Internet Of Things | Prof. Sudip Misra                                      | IITKGP                    | 3             | PG                  |
| 190     | Computer Science and Engineering | Introduction To Internet Of Things                             | Prof. Sudip Misra                                      | IITKGP                    | 3             | UG                  |

| Sr. No. | Subject / Discipline             | Course Title   | Name of the Course Coordinator              | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------------------|--|---|---------------------------|---------------|---------------------|
| 191     | Computer Science and Engineering | Introduction to Machine Learning (Tamil)                             | Prof. Arun Rajkumar                         | IITM                      | 2             | UG/PG               |
| 192     | Computer Science and Engineering | Introduction To Soft Computing                                       | Prof. Debasis Samanta                       | IITKGP                    | 2             | UG/PG               |
| 193     | Computer Science and Engineering | Machine Learning for Engineering and science applications            | Prof. Balaji Srinivasan and Prof. Ganapathy | IITM                      | 3             | UG/PG               |
| 194     | Computer Science and Engineering | Natural Language Processing  | Prof. Pawan Goyal                           | IITKGP                    | 3             | UG/PG               |
| 195     | Computer Science and Engineering | Object Oriented System Development Using UML, Java And Patterns      | Prof. Rajib Mall                            | IITKGP                    | 3             | PG                  |
| 196     | Computer Science and Engineering | Optimisation for Machine Learning: Theory and Implementation (Hindi) | Prof. Pravesh Biyani                        | IIITD                     | 2             | UG/PG               |
| 197     | Computer Science and Engineering | Problem Solving Through Programming In C                             | Prof. Anupam Basu                           | IITKGP                    | 3             | UG/PG               |
| 198     | Computer Science and Engineering | Programming In Java  | Prof. Debasis Samanta                       | IITKGP                    | 3             | UG                  |
| 199     | Computer Science and Engineering | Programming in Modern C++  | Prof. Partha Pratim Das                     | IITKGP                    | 3             | UG/PG               |
| 200     | Computer Science and Engineering | Programming, Data Structures And Algorithms Using Python             | Prof. Madhavan Mukund                       | CMI                       | 2             | UG                  |
| 201     | Computer Science and Engineering | Selected Topics in Algorithms  | Prof. Palash Dey                            | IITKGP                    | 3             | PG                  |
| 202     | Computer Science and Engineering | Software Testing   | Prof. Rajib Mall                            | IITKGP                    | 1             | UG/PG               |
| 203     | Computer Science and Engineering | Systems and Usable Security  | Prof. Neminath Hubballi                     | IIT Indore                | 1             | UG/PG               |
| 204     | Computer Science and Engineering | Theory of Computation  | Prof. Subrahmanyam Kalyanasundaram          | IIT Hyderabad             | 3             | UG                  |
| 205     | Computer Science and Engineering | User-centric Computing For Human-Computer Interaction                | Prof. Samit Bhattacharya                    | IITG                      | 2             | UG/PG               |
| 206     | Computer Science and Engineering | Introduction to Machine Learning                                     | Prof. Balaraman Ravindran                   | IITM                      | 3             | UG/PG               |
| 207     | Computer Science and Engineering | Reinforcement Learning   | Prof. Balaraman Ravindran                   | IITM                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline             | Course Title                      | Name of the Course Coordinator                          | Host University/Institute                 | No of Credits | Level of the Course |
|---------|----------------------------------|-----------------------------------|---|---|---------------|---------------------|
| 208     | Computer Science and Engineering | Data Science for Engineers        | Prof. Rangunathan Rengasamy<br>Prof. Shankar Narasimhan | IITM                                      | 2             | UG/PG               |
| 209     | Computer Science and Engineering | Python for Data Science           | Prof. Rangunathan Rengasamy                             | IITM                                      | 1             | UG                  |
| 210     | Computer Science and Engineering | Introduction to Database Systems  | Prof. Sreenivasa Kumar                                  | IITM                                      | 3             | UG                  |
| 211     | Computer Science and Engineering | Social Networks                   | Prof. Sudarshan Iyengar<br>Prof. Yayati Gupta           | IIT Ropar                                 | 3             | UG                  |
| 212     | Computer Science and Engineering | The Joy of Computing using Python | Prof. Sudarshan Iyengar                                 | IIT Ropar                                 | 3             | UG/PG               |
| 213     | Computer Science and Engineering | Discrete Mathematics              | Prof. Sudarshan Iyengar<br>Prof. Prabuchandran K.J      | IIT Ropar                                 | 3             | UG                  |
| 214     | Computer Science and Engineering | Deep Learning - IIT Ropar         | Prof. Sudarshan Iyengar<br>Prof. Sanatan Sukhija        | IIT Ropar                                 | 3             | UG/PG               |
| 215     | Computer Science and Engineering | Machine Learning, ML              | Prof. Carl Gustaf Jansson                               | KTH Royal Institute of Technology, Sweden | 2             | PG                  |
| 216     | Computer Science and Engineering | Digital Design with Verilog       | Prof. Chandan Karfa,<br>Prof. Aryabartta Sahu           | IITG                                      | 3             | UG                  |
| 217     | Computer Science and Engineering | Probability for Computer Science  | Prof. Nitin Saxena                                      | IITK                                      | 2             | UG/PG               |
| 218     | Computer Science and Engineering | Parallel Computer Architecture    | Prof. Hemangee K. Kapoor                                | IITG                                      | 3             | UG/PG               |
| 219     | Computer Science and Engineering | Games and Information             | Prof. Ankur A. Kulkarni                                 | IITB                                      | 3             | PG                  |
| 220     | Computer Science and Engineering | Business Intelligence & Analytics | Prof. Saji K Mathew                                     | IITM                                      | 3             | PG                  |
| 221     | Computer Science and Engineering | Edge Computing                    | Prof. Rajiv Misra                                       | IITP                                      | 2             | UG/PG               |

| Sr. No. | Subject / Discipline | Course Title   | Name of the Course Coordinator            | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------|--|---|---------------------------|---------------|---------------------|
| 222     | Chemistry            | Metallocene and Metal-carbene based Organometallic Compounds as Industrially Important Advanced Polyolefin Catalysts | Prof. Sanjib K. Patra                     | IITKGP                    | 2             | UG/PG               |
| 223     | Chemistry            | Advanced Chemical Thermodynamics and Kinetics  | Prof. Arijit Kumar De                     | IISER Mohali              | 3             | UG/PG               |
| 224     | Chemistry            | Advanced Transition Metal Organometallic Chemistry   | Prof. P. Ghosh                            | IITB                      | 3             | UG/PG               |
| 225     | Chemistry            | Basic thermodynamics: Classical and Statistical Approaches   | Prof. Arnab Mukherjee                     | IISER Pune                | 3             | UG                  |
| 226     | Chemistry            | Basics in Inorganic Chemistry  | Prof. D. Maiti                            | IITB                      | 1             | UG                  |
| 227     | Chemistry            | Biochemistry   | Prof. Swagata Dasgupta                    | IITKGP                    | 3             | UG/PG               |
| 228     | Chemistry            | Chemistry Of Main Group Elements   | Prof. M.S. Balakrishna                    | IITB                      | 3             | UG/PG               |
| 229     | Chemistry            | Co-Ordination Chemistry (Chemistry Of Transition Elements)   | Prof. Debashis Ray                        | IITKGP                    | 3             | UG                  |
| 230     | Chemistry            | Electrochemical impedance Spectroscopy   | Prof. S. Ramanathan                       | IITM                      | 3             | PG                  |
| 231     | Chemistry            | Elementary Electrochemistry  | Prof. Angshuman Roy Choudhury             | IISER Mohali              | 2             | UG/PG               |
| 232     | Chemistry            | Essentials Of Biomolecules : Nucleic Acids And Peptides  | Prof. Lal Mohan Kundu                     | IITG                      | 3             | PG                  |
| 233     | Chemistry            | Essentials of Oxidation, Reduction and C-C Bond Formation. Application in Organic Synthesis                          | Prof. Yashwant D Vankar                   | IITB                      | 3             | PG                  |
| 234     | Chemistry            | Experimental Biochemistry  | Prof. Swagata Dasgupta<br>Prof. Soumya De | IITKGP                    | 3             | UG                  |
| 235     | Chemistry            | Fundamentals of Spectroscopy   | Prof. Sayan Bagchi<br>Prof. Anirban Hazra | NCL Pune,<br>IISER Pune   | 3             | UG                  |
| 236     | Chemistry            | Industrial Inorganic Chemistry   | Prof. Debashis Ray                        | IITKGP                    | 3             | UG/PG               |
| 237     | Chemistry            | Interpretative molecular spectroscopy  | Prof. M. S. Balakrishna                   | IITB                      | 3             | UG/PG               |
| 238     | Chemistry            | Medicinal Chemistry  | Prof. Harinath Chakrapani                 | IISER Pune                | 3             | UG/PG               |
| 239     | Chemistry            | Molecular Spectroscopy: A Physical Chemist's perspective   | Prof. Anindya Datta                       | IITB                      | 3             | UG/PG               |



| Sr. No. | Subject / Discipline           | Course Title   | Name of the Course Coordinator                 | Host University/Institute      | No of Credits | Level of the Course |
|---------|--------------------------------|--|--|--------------------------------|---------------|---------------------|
| 240     | Chemistry                      | Nuclear and Radiochemistry   | Prof. B.S.Tomar<br>Prof. P.K.Mohapatra         | Homi Bhabha National Institute | 3             | PG                  |
| 241     | Chemistry                      | One and Two dimensional NMR Spectroscopy: Concepts and Spectral Analysis | Prof. N. Suryaprakash                          | IISc                           | 3             | UG/PG               |
| 242     | Chemistry                      | Organic Chemistry I (Tamil)  | Prof. Srinivasan Venkataraman                  | IISER PUNE                     | 1             | UG                  |
| 243     | Chemistry                      | Organometallic Chemistry   | Prof. D. Maiti                                 | IITB                           | 1             | UG                  |
| 244     | Chemistry                      | Pericyclic Reactions and Organic Photochemistry                          | Prof. Sankararaman                             | IITM                           | 2             | PG                  |
| 245     | Chemistry                      | Symmetry and Group Theory  | Prof. Jeetender Chugh                          | IISER PUNE                     | 3             | PG                  |
| 246     | Chemistry                      | Symmetry, Stereochemistry and Applications                               | Prof. Angshuman Roy Choudhury                  | IISER Mohali                   | 3             | UG                  |
| 247     | Chemistry                      | Transition Metal Organometallics in Catalysis and Biology                | Prof. P. Ghosh                                 | IITB                           | 3             | UG/PG               |
| 248     | Chemistry                      | Ultrafast laser spectroscopy   | Prof. Anindya Datta                            | IITB                           | 3             | PG                  |
| 249     | Chemistry                      | Bioinorganic Chemistry   | Prof. S. P. Rath                               | IITK                           | 1             | UG/PG               |
| 250     | Chemistry                      | Supramolecular Chemistry-I   | Prof. Parimal Kanti Bharadwaj                  | IITK                           | 2             | PG                  |
| 251     | Chemistry                      | Elementary Thermodynamics for All  | Prof. Srabani Taraphder                        | IITKGP                         | 3             | UG                  |
| 252     | Chemistry                      | Thermodynamics: Classical To Statistical                                 | Prof. Sandip Paul                              | IITG                           | 3             | UG/PG               |
| 253     | Chemistry                      | Time Dependent Quantum Chemistry   | Prof. Atanu Bhattacharya                       | IISc                           | 3             | PG                  |
| 254     | Chemistry                      | Many body methods in quantum chemistry                                   | Prof. Sourav Pal<br>Prof. Achintya Kumar Dutta | IITB                           | 3             | UG/PG               |
| 255     | Architecture, Civil and Design | Strategies for Sustainable Design  | Prof. Shiva Ji                                 | IIT Hyderabad                  | 3             | UG/PG               |
| 256     | Design Engineering             | Fundamentals of Automotive Systems                                       | Prof. C. S. Shankar Ram                        | IITM                           | 3             | UG/PG               |
| 257     | Design Engineering             | Understanding Design   | Prof. Nina Sabnani                             | IITB                           | 1             | UG                  |
| 258     | Design Engineering             | Understanding Ethnography  | Prof. Nina Sabnani                             | IITB                           | 2             | UG/PG               |
| 259     | Design Engineering             | Understanding Incubation and Entrepreneurship                            | Prof. B. K. Chakravarthy                       | IITB                           | 3             | UG                  |

| Sr. No. | Subject / Discipline                   | Course Title   | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|--|--|--------------------------------|---------------------------|---------------|---------------------|
| 260     | Design Engineering                     | Usability Engineering  | Prof. Debayan Dhar             | IITG                      | 3             | UG/PG               |
| 261     | Design Engineering                     | Design, Technology and Innovation                            | Prof. B. K. Chakravarthy       | IITB                      | 2             | UG                  |
| 262     | Design Engineering                     | Innovation by Design   | Prof. B. K. Chakravarthy       | IITB                      | 1             | UG                  |
| 263     | Economic Sciences                      | Foundations of Accounting & Finance                          | Prof. Arun Kumar Gopalswamy    | IITM                      | 3             | UG/PG               |
| 264     | Economic Sciences                      | Applied Econometrics   | Prof. Sabuj Kumar Mandal       | IITM                      | 3             | PG                  |
| 265     | Economic Sciences                      | Applied Statistics and Econometrics                          | Prof. Deep Mukherjee           | IITK                      | 3             | UG/PG               |
| 266     | Economic Sciences                      | Indian Economy: Some Contemporary Perspectives               | Prof. Wasim Ahmad              | IITK                      | 2             | UG                  |
| 267     | Economic Sciences                      | Microfoundations Of Macroeconomics                           | Prof. Wasim Ahmad              | IITK                      | 2             | UG/PG               |
| 268     | Economic Sciences                      | Introduction to Econometrics                                 | Prof. Sabuj Kumar Mandal       | IITM                      | 3             | UG                  |
| 269     | Economic Sciences                      | Health Economics   | Prof. Pratap C. Mohanty        | IITR                      | 3             | PG                  |
| 270     | Economic Sciences                      | Predictive Analytics - Regression and Classification         | Prof. Sourish Das              | CMI                       | 3             | PG                  |
| 271     | Multidisciplinary                      | Neural Science for Engineers                                 | Prof. Vikas V                  | IISc & Nimhans            | 3             | PG                  |
| 272     | Electrical and Electronics Engineering | Fundamentals of semiconductor devices                        | Prof. Digbijoy N. Nath         | IISc                      | 3             | UG                  |
| 273     | Electrical and Electronics Engineering | Photonic integrated circuit                                  | Prof. Shankar Kumar Selvaraja  | IISc                      | 3             | PG                  |
| 274     | Electrical and Electronics Engineering | Deep Learning  | Prof. Prabir Kumar Biswas      | IITKGP                    | 3             | UG/PG               |
| 275     | Electrical and Electronics Engineering | Electronics Enclosures Thermal issues                        | Prof. N.V Chalapathi Rao       | IISc                      | 2             | UG/PG               |
| 276     | Electrical and Electronics Engineering | Electronics equipment integration and Prototype building     | Prof. N.V Chalapathi Rao       | IISc                      | 2             | UG/PG               |
| 277     | Electrical and Electronics Engineering | Fundamental of Power Electronics                             | Prof. L.Umanand                | IISc                      | 3             | UG/PG               |
| 278     | Electrical and Electronics Engineering | Integrated Circuits, Mosfets, OP-Amps and their Applications | Prof. Hardik Jeetendra Pandya  | IISc                      | 3             | UG/PG               |
| 279     | Electrical and Electronics Engineering | A brief introduction of Micro - Sensors                      | Prof. Santanu Talukder         | IISER Bhopal              | 1             | PG                  |

| Sr. No. | Subject / Discipline                   | Course Title  | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|--|---|--------------------------------|---------------------------|---------------|---------------------|
| 280     | Electrical and Electronics Engineering | Advanced topics in Wireless Communication (Hindi)               | Prof. Vivek Ashok Bohara       | IIT Delhi                 | 2             | UG/PG               |
| 281     | Electrical and Electronics Engineering | Analog Circuits   | Prof. Jayanta Mukherjee        | IITB                      | 2             | UG                  |
| 282     | Electrical and Electronics Engineering | Analog Electronic Circuits - IITM                               | Prof. Shanthi Pavan            | IITM                      | 3             | UG                  |
| 283     | Electrical and Electronics Engineering | Analog Ic Design  | Prof. Aniruddhan.S             | IITM                      | 3             | UG/PG               |
| 284     | Electrical and Electronics Engineering | Circuit Analysis for Analog Designers                           | Prof. Shanthi Pavan            | IITM                      | 3             | PG                  |
| 285     | Electrical and Electronics Engineering | Control engineering   | Prof. Ramkrishna Pasumarthy    | IITM                      | 3             | UG/PG               |
| 286     | Electrical and Electronics Engineering | Digital Signal Processing and its Applications                  | Prof. V. M. Gadre              | IITB                      | 3             | UG/PG               |
| 287     | Electrical and Electronics Engineering | Digital System Design   | Prof. Neeraj Goel              | IIT Ropar                 | 3             | UG                  |
| 288     | Electrical and Electronics Engineering | Foundations of Wavelets and Multirate Digital Signal Processing | Prof. V. M. Gadre              | IITB                      | 1             | UG/PG               |
| 289     | Electrical and Electronics Engineering | Linear Dynamical Systems  | Prof. Tushar Jain              | IIT Mandi                 | 2             | PG                  |
| 290     | Electrical and Electronics Engineering | Microwave Integrated Circuits                                   | Prof. Jayanta Mukherjee        | IITB                      | 2             | UG/PG               |
| 291     | Electrical and Electronics Engineering | Modern Computer Vision  | Prof. A. N. Rajagopalan        | IITM                      | 3             | UG/PG               |
| 292     | Electrical and Electronics Engineering | Multirate DSP   | Prof. R. David Koilpillai      | IITM                      | 3             | UG/PG               |
| 293     | Electrical and Electronics Engineering | Optical Fiber Sensors   | Prof Balaji Srinivasan         | IITM                      | 3             | UG/PG               |
| 294     | Electrical and Electronics Engineering | Power Management Integrated Circuits                            | Prof. Qadeer Ahmad Khan        | IITM                      | 3             | UG/PG               |
| 295     | Electrical and Electronics Engineering | Principles of Digital Communication                             | Prof. Abhishek Dixit           | IITD                      | 3             | UG                  |
| 296     | Electrical and Electronics Engineering | RF and Microwave Networks                                       | Prof. Bratin Ghosh             | IITKGP                    | 3             | UG/PG               |

| Sr. No. | Subject / Discipline                   | Course Title   | Name of the Course Coordinator                | Host University/Institute | No of Credits | Level of the Course |
|---------|--|--|---|---------------------------|---------------|---------------------|
| 297     | Electrical and Electronics Engineering | Semiconductor device modeling and Simulation                         | Prof. Vivek Dixit                             | IITKGP                    | 3             | UG/PG               |
| 298     | Electrical and Electronics Engineering | Signals and Systems  | Prof. Hitesh Shrimali<br>Prof. Kushal K. Shah | IIT Mandi                 | 3             | UG                  |
| 299     | Electrical and Electronics Engineering | CMOS Digital VLSI Design   | Prof. Sudeb Dasgupta                          | IITR                      | 2             | UG/PG               |
| 300     | Electrical and Electronics Engineering | EV - Vehicle Dynamics and Electric Motor Drives                      | Prof. Amit Jain<br>Prof. Avanish Tripathi     | IITD                      | 2             | UG/PG               |
| 301     | Electrical and Electronics Engineering | Electromagnetic Waves in Guided and Wireless Media                   | Prof. Pradeep Kumar K                         | IITK                      | 2             | UG/PG               |
| 302     | Electrical and Electronics Engineering | Fuzzy Sets, Logic and Systems & Applications                         | Prof. Nishchal Kumar Verma                    | IITK                      | 3             | UG/PG               |
| 303     | Electrical and Electronics Engineering | Optimal control  | Prof. Barjeev Tyagi                           | IITR                      | 2             | PG                  |
| 304     | Electrical and Electronics Engineering | Power Quality Improvement Technique                                  | Prof. Avik Bhattacharya                       | IITR                      | 2             | PG                  |
| 305     | Electrical and Electronics Engineering | Principles of Communication Systems - I                              | Prof. Aditya K. Jagannatham                   | IITK                      | 3             | UG                  |
| 306     | Electrical and Electronics Engineering | Principles of Signals and Systems                                    | Prof. Aditya K. Jagannatham                   | IITK                      | 3             | UG                  |
| 307     | Electrical and Electronics Engineering | Smart Grid: Basics to Advanced Technologies                          | Prof. N. P. Padhy, Prof. Premalata Jena       | IITR                      | 3             | UG/PG               |
| 308     | Electrical and Electronics Engineering | Computer Vision And Image Processing - Fundamentals And Applications | Prof. M. K. Bhuyan                            | IITG                      | 3             | UG/PG               |
| 309     | Electrical and Electronics Engineering | Design Of Power Electronic Converters                                | Prof. Shabari Nath                            | IITG                      | 2             | UG/PG               |
| 310     | Electrical and Electronics Engineering | Microprocessors And Interfacing                                      | Prof. Shaik Rafi Ahamed                       | IITG                      | 3             | UG                  |
| 311     | Electrical and Electronics Engineering | Operation And Planning Of Power Distribution Systems                 | Prof. Sanjib Ganguly                          | IITG                      | 3             | PG                  |
| 312     | Electrical and Electronics Engineering | Transmission lines and electromagnetic waves                         | Prof. Ananth Krishnan                         | IITM                      | 3             | PG                  |
| 313     | Electrical and Electronics Engineering | Digital IC Design  | Prof. Janakiraman                             | IITM                      | 3             | UG                  |

| Sr. No. | Subject / Discipline                   | Course Title   | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|--|--|--------------------------------|---------------------------|---------------|---------------------|
| 314     | Electrical and Electronics Engineering | Design and Analysis of VLSI Subsystems                         | Prof. Madhav Rao               | IIT Bangalore             | 3             | UG/PG               |
| 315     | Electrical and Electronics Engineering | Sensors and Actuators  | Prof. Hardik Jeetendra Pandya  | IISc                      | 3             | UG/PG               |
| 316     | Electrical and Electronics Engineering | Microprocessors and Microcontrollers                           | Prof. Santanu Chattopadhyay    | IITKGP                    | 3             | UG                  |
| 317     | Electrical and Electronics Engineering | An Introduction to Information Theory                          | Prof. Adrish Banerjee          | IITK                      | 2             | UG/PG               |
| 318     | Electrical and Electronics Engineering | Applied Linear Algebra   | Prof. Dwaipayan Mukherjee      | IITB                      | 3             | PG                  |
| 319     | Electrical and Electronics Engineering | Biomedical Signal Processing                                   | Prof. Sudipta Mukhopadhyay     | IITKGP                    | 3             | UG/PG               |
| 320     | Electrical and Electronics Engineering | Computer-Aided Design of Electrical Machines                   | Prof. Bhim Singh               | IITD                      | 3             | PG                  |
| 321     | Electrical and Electronics Engineering | Digital Communication using GNU Radio                          | Prof. Kumar Appaiah            | IITB                      | 3             | UG                  |
| 322     | Electrical and Electronics Engineering | Digital Electronic Circuits                                    | Prof. Goutam Saha              | IITKGP                    | 3             | UG                  |
| 323     | Electrical and Electronics Engineering | Electrical Machines - II                                       | Prof. Tapas Kumar Bhattacharya | IITKGP                    | 3             | UG                  |
| 324     | Electrical and Electronics Engineering | Evolution Of Air Interface Towards 5G                          | Prof. Suvra Sekhar Das         | IITKGP                    | 2             | UG/PG               |
| 325     | Electrical and Electronics Engineering | Facts Devices  | Prof. Avik Bhattacharya        | IITR                      | 2             | PG                  |
| 326     | Electrical and Electronics Engineering | Industrial Automation And Control                              | Prof. Alokanti Deb             | IITKGP                    | 3             | UG/PG               |
| 327     | Electrical and Electronics Engineering | Medical Image Analysis   | Prof. Debdoot Sheet            | IITKGP                    | 1             | UG/PG               |
| 328     | Electrical and Electronics Engineering | Network Analysis   | Prof. Tapas Kumar Bhattacharya | IITKGP                    | 3             | UG                  |
| 329     | Electrical and Electronics Engineering | Optical Wireless Communications for Beyond 5G Networks and IoT | Prof. Anand Srivastava         | IIITD                     | 3             | UG/PG               |
| 330     | Electrical and Electronics Engineering | Power Quality  | Prof. Bhim Singh               | IITD                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline                   | Course Title   | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|--|--|--------------------------------|---------------------------|---------------|---------------------|
| 331     | Electrical and Electronics Engineering | Power System Engineering   | Prof. Debapriya Das            | IITKGP                    | 3             | UG                  |
| 332     | Electrical and Electronics Engineering | State space Approach to Control System Analysis and Design             | Prof A P Tiwari                | IIT Mandi                 | 3             | PG                  |
| 333     | Electrical and Electronics Engineering | VLSI Signal Processing   | Prof. Mrityunjoy Chakraborty   | IITKGP                    | 2             | UG/PG               |
| 334     | Electrical and Electronics Engineering | Digital Protection of Power System                                     | Prof. Bhaveshkumar R. Bhalja   | IITR                      | 2             | PG                  |
| 335     | Electrical and Electronics Engineering | Control System Design  | Prof G R Jayanth               | IISc                      | 3             | UG/PG               |
| 336     | Electrical and Electronics Engineering | Nonlinear and Adaptive Control   | Prof. Shubhendu Bhasin         | IITD                      | 1             | PG                  |
| 337     | Electrical and Electronics Engineering | EMI /EMC and Signal Integrity: Principles, Techniques and Applications | Prof. Amitabha Bhattacharya    | IITKGP                    | 3             | UG/PG               |
| 338     | Electrical and Electronics Engineering | Embedded Sensing, Actuation and Interfacing Systems                    | Prof. Banibrata Mukherjee      | IITKGP                    | 3             | PG                  |
| 339     | Electrical and Electronics Engineering | Basics of Semiconductor Microwave Devices                              | Prof Digbijoy N Nath           | IISc                      | 3             | UG/PG               |
| 340     | Electrical and Electronics Engineering | Physics of Nanoscale Devices   | Prof. Vishvendra Singh Poonia  | IITR                      | 3             | UG/PG               |
| 341     | Electrical and Electronics Engineering | Communication Networks   | Prof. Gautam Das               | IITKGP                    | 3             | PG                  |
| 342     | Electrical and Electronics Engineering | Fundamentals Of MIMO Wireless Communication                            | Prof. Suvra Sekhar Das         | IITKGP                    | 2             | UG/PG               |
| 343     | Electrical and Electronics Engineering | Integrated Circuits and Applications                                   | Prof. Shaik Rafi Ahamed        | IITG                      | 3             | UG                  |
| 344     | Electrical and Electronics Engineering | Millimeter Wave Technology   | Prof. Mrinal Kanti Mandal      | IITKGP                    | 2             | PG                  |
| 345     | Electrical and Electronics Engineering | RF Transceiver Design  | Prof. Darshak Bhatt            | IITR                      | 3             | UG/PG               |
| 346     | Electrical and Electronics Engineering | Signal Processing Techniques and its Applications                      | Prof. Shyamal Das Mandal       | IITKGP                    | 3             | UG/PG               |
| 347     | Electrical and Electronics Engineering | VLSI Physical Design with Timing Analysis                              | Prof. Bishnu Prasad Das        | IITR                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline | Course Title   | Name of the Course Coordinator   | Host University/Institute   | No of Credits | Level of the Course |
|---------|----------------------|--|--|---|---------------|---------------------|
| 348     | Multidisciplinary    | Multi-Criteria Decision Making and Applications                                | Prof. Raghu Nandan Sengupta  | IITK  | 3             | UG/PG               |
| 349     | Multidisciplinary    | An Introduction to Urban Ecological Heritage: Theories and Applications        | Prof. Jenia Mukherjee  | IITKGP  | 1             | UG/PG               |
| 350     | Multidisciplinary    | Vulnerability Studies: An Introduction   | Prof. Pramod K Nayar   | University of Hyderabad   | 2             | UG/PG               |
| 351     | Multidisciplinary    | Pulmonary Function tests - Interpretation and application in clinical practice | Multifaculty   | Chettinad Hospital and Research Institute                                     | 1             | UG/PG               |
| 352     | Multidisciplinary    | Basic Certificate in Palliative Care   | Prof. Geeta Joshi<br>Prof. Piyush Gupta  | INTERNATIONAL INSTITUTE OF DISTANCE LEARNING AN INITIATIVE OF NAPCAIM         | 3             | UG/PG               |
| 353     | Multidisciplinary    | Fundamental Of Fluid Mechanics For Chemical And Biomedical Engineers           | Prof. Raghvendra Gupta   | IITG  | 3             | UG                  |
| 354     | Multidisciplinary    | NBA Accreditation and Teaching and learning in Engineering (NATE)              | Prof. N J Rao<br>Prof. K Rajanikanth   | IISc  | 3             | PG                  |
| 355     | Multidisciplinary    | Teaching And Learning in Engineering (TALE)                                    | Prof. N J Rao  | IISc  | 1             | PG                  |
| 356     | Multidisciplinary    | Basic Course in Ornithology  | Prof. Mousumi Ghosh<br>Prof. Manjari Jain<br>Prof. R Jayapal<br>Prof. Anand Krishnan<br>Prof. Suhel Quader<br>Prof. V.V. Robin<br>Prof. Umesh Srinivasan | NCF<br>IISER Mohali<br>SACON<br>IISER Bhopal<br>NCF<br>IISER Tirupati<br>IISc | 3             | UG/PG               |
| 357     | Multidisciplinary    | Basics of Mental Health & Clinical Psychiatry                                  | Prof. Arijita Banerjee<br>Prof. Sumit Kumar  | IITKGP  | 2             | UG                  |

| Sr. No. | Subject / Discipline | Course Title  | Name of the Course Coordinator  | Host University/Institute  | No of Credits | Level of the Course |
|---------|----------------------|---|---|--|---------------|---------------------|
| 358     | Multidisciplinary    | Biophotonics  | Prof. Basudev Lahiri  | IITKGP   | 3             | PG                  |
| 359     | Multidisciplinary    | Designing Learner-Centric MOOCs   | Prof. Sahana Murthy<br>Prof. Jayakrishnan M.<br>Prof. Sameer Sahasrabudhe | IITB   | 2             | PG                  |
| 360     | Multidisciplinary    | Effective Engineering Teaching In Practice  | Prof. G. K. Suraishkumar<br>Prof. Edamana Prasad<br>Prof. Richa Verma     | IITM   | 1             | PG                  |
| 361     | Multidisciplinary    | Engineering Statistics  | Prof. Manjesh Hanawal   | IITB   | 3             | UG/PG               |
| 362     | Multidisciplinary    | Entrepreneurship Essentials   | Prof. Manoj Kumar Mondal  | IITKGP   | 3             | UG/PG               |
| 363     | Multidisciplinary    | Foundation Certificate In Palliative Care   | Prof. Geeta Joshi<br>Prof. Piyush Gupta                                   | INTERNATIONAL<br>INSTITUTE OF<br>DISTANCE<br>LEARNING AN<br>INITIATIVE OF<br>NAPCAIM | 3             | UG                  |
| 364     | Multidisciplinary    | Fuzzy Logic And Neural Networks   | Prof. Dilip Kumar Pratihar  | IITKGP   | 2             | UG/PG               |
| 365     | Multidisciplinary    | Groundwater hydrology and management  | Prof. Pennan Chinnasamy   | IITB   | 3             | UG                  |
| 366     | Multidisciplinary    | Introduction To Environmental Engineering And Science - Fundamental And Sustainability Concepts | Prof. Brajesh K Dubey   | IITKGP   | 3             | UG                  |
| 367     | Multidisciplinary    | Introduction to Reliability Engineering   | Prof. Neeraj Kumar Goyal  | IITKGP   | 2             | UG                  |
| 368     | Multidisciplinary    | Research Methodology  | Prof. Edamana Prasad<br>Prof. Prathap Haridoss                            | IITM   | 2             | PG                  |



| Sr. No. | Subject / Discipline | Course Title  | Name of the Course Coordinator                     | Host University/Institute  | No of Credits | Level of the Course |
|---------|----------------------|---|--|--|---------------|---------------------|
| 369     | Multidisciplinary    | Management of Medical Emergencies in Dental Practice                    | Multifaculty                                       | Sree Balaji Dental College & Hospital and Tagore Dental College & Hospital | 2             | UG/PG               |
| 370     | Multidisciplinary    | Nanobio Technology Enabled Point-of-Care Devices                        | Prof. Gorachand Dutta                              | IITKGP   | 2             | UG/PG               |
| 371     | Multidisciplinary    | Non-conventional energy Resources                                       | Prof. Prathap Haridoss                             | IITM   | 3             | UG/PG               |
| 372     | Multidisciplinary    | One Health  | Multi Faculty                                      | ICMR - Regional Medical Research Centre, Bhubaneswar                       | 3             | PG                  |
| 373     | Multidisciplinary    | Oral Biology  | Prof.Ramya and Team                                | Saveetha Dental College & IITM   | 2             | UG                  |
| 374     | Multidisciplinary    | Outcome Based Pedagogic Principles For Effective Teaching               | Prof. Shyamal Kumar Das Mandal                     | IITKGP   | 1             | UG                  |
| 375     | Multidisciplinary    | Research Methodology in Natural Sciences                                | Prof. Soumitro Banerjee                            | IISER Kolkata  | 3             | PG                  |
| 376     | Multidisciplinary    | Roadmap for patent creation   | Prof. Gouri Gargate                                | IITKGP   | 2             | UG/PG               |
| 377     | Multidisciplinary    | Rural Water Resources Management  | Prof. Pennan Chinnasamy                            | IITB   | 3             | UG                  |
| 378     | Multidisciplinary    | Experimental Robotics   | Prof. Dilip Kumar Pratihar                         | IITKGP   | 1             | UG/PG               |
| 379     | Multidisciplinary    | Conservation & Project Management of Baoli Water Systems                | Multifaculty                                       | IITD   | 3             | UG/PG               |
| 380     | Multidisciplinary    | Medical Law   | Prof. Chaitanya Mittal<br>Prof. Narendran Thiruthy | IITKGP   | 2             | UG/PG               |
| 381     | Multidisciplinary    | An Overview on Maternal Health Antenatal, Intranatal and Postnatal Care | Prof. Barnali Ghosh                                | IITKGP   | 3             | UG/PG               |
| 382     | Multidisciplinary    | Recommender Systems   | Prof. Mamata Jenamani                              | IITKGP   | 2             | UG/PG               |

| Sr. No. | Subject / Discipline           | Course Title   | Name of the Course Coordinator                                 | Host University/Institute | No of Credits | Level of the Course |
|---------|--------------------------------|--|--|---------------------------|---------------|---------------------|
| 383     | Multidisciplinary              | Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis                  | Prof. Aritri Bir<br>Prof. Arindam Ghosh                        | IITKGP                    | 3             | UG/PG               |
| 384     | Humanities and Social Sciences | Science Communication: Research Productivity and Data Analytics using Open Source Software | Prof. Nabi Hasan<br>Prof. Mohit Garg                           | IITD                      | 3             | PG                  |
| 385     | Humanities and Social Sciences | Petroleum Economics and Management   | Prof. Anwesha Aditya   | IITKGP                    | 3             | UG/PG               |
| 386     | Humanities and Social Sciences | Advanced Level of Spoken Sanskrit  | Prof. Anuradha Choudry   | IITKGP                    | 2             | PG                  |
| 387     | Humanities and Social Sciences | Education for Sustainable Development  | Prof. Atasi Mohanty  | IITKGP                    | 3             | UG/PG               |
| 388     | Humanities and Social Sciences | Elements of Literature and Creative Communication  | Prof. H S Komalesha  | IITKGP                    | 3             | UG                  |
| 389     | Humanities and Social Sciences | Emotional Intelligence   | Prof. Rabindra Kumar Pradhan                                   | IITKGP                    | 2             | UG/PG               |
| 390     | Humanities and Social Sciences | Introduction On Intellectual Property To Engineers And Technologists                       | Prof. Tapas Kumar Bandyopadhyay                                | IITKGP                    | 2             | UG/PG               |
| 391     | Humanities and Social Sciences | Legal Compliance For Incorporating Startup   | Prof. Indrajit Dube  | IITKGP                    | 1             | UG/PG               |
| 392     | Humanities and Social Sciences | Speaking Effectively   | Prof. Anjali Gera Roy  | IITKGP                    | 2             | UG                  |
| 393     | Humanities and Social Sciences | Strategic Performance Management   | Prof. Kbl Srivastava   | IITKGP                    | 2             | PG                  |
| 394     | Humanities and Social Sciences | Technology Transfer Through Joint Venture  | Prof. Indrajit Dube  | IITKGP                    | 1             | UG/PG               |
| 395     | Humanities and Social Sciences | Training and Development   | Prof. Susmita Mukhopadhyay<br>Prof. S. Srinivasan              | IITKGP                    | 3             | UG/PG               |
| 396     | Humanities and Social Sciences | Development of Sociology in India  | Prof. Ashish Saxena  | IITK                      | 1             | PG                  |
| 397     | Humanities and Social Sciences | Great Experiments In Psychology  | Prof. Rajlakshmi Guha  | IITKGP                    | 1             | PG                  |
| 398     | Humanities and Social Sciences | Soft Skill Development   | Prof. Priyadarshi Patnaik<br>Prof. V. N. Giri<br>Prof. D. Suar | IITKGP                    | 2             | UG/PG               |
| 399     | Humanities and Social Sciences | The Science of Happiness and Wellbeing   | Prof. Priyadarshi Patnaik<br>Prof. Manas K Mandal              | IITKGP                    | 2             | UG/PG               |
| 400     | Humanities and Social Sciences | An Introduction to Microeconomics  | Prof. Vimal Kumar  | IITK                      | 3             | PG                  |

| Sr. No. | Subject / Discipline           | Course Title   | Name of the Course Coordinator                  | Host University/Institute | No of Credits | Level of the Course |
|---------|--------------------------------|--|---|---------------------------|---------------|---------------------|
| 401     | Humanities and Social Sciences | Appreciating Hindustani Music                              | Prof. Lakshmi Sreeram<br>Prof. Srijan Deshpande | IITM                      | 2             | UG                  |
| 402     | Humanities and Social Sciences | Basics of language Science                                 | Prof. Rajesh Kumar                              | IITM                      | 3             | UG/PG               |
| 403     | Humanities and Social Sciences | Bilingualism: A cognitive and psycholinguistic perspective | Prof. Bidisha Som                               | IITG                      | 2             | UG/PG               |
| 404     | Humanities and Social Sciences | Contextualizing Gender                                     | Prof. Rashmi Gaur                               | IITR                      | 3             | UG/PG               |
| 405     | Humanities and Social Sciences | Economic Growth And Development                            | Prof. Rajshree Bedamatta                        | IITG                      | 2             | UG/PG               |
| 406     | Humanities and Social Sciences | Effective Writing  | Prof. Binod Mishra                              | IITR                      | 1             | UG/PG               |
| 407     | Humanities and Social Sciences | Energy Resources, Economics and Environment                | Prof. Rangan Banerjee                           | IITD                      | 3             | UG/PG               |
| 408     | Humanities and Social Sciences | English Literature of the Romantic Period 1798-1832        | Prof. Pramod K Nayar                            | University of Hyderabad   | 2             | UG/PG               |
| 409     | Humanities and Social Sciences | Enhancing Soft Skills and Personality                      | Prof. T. Ravichandran                           | IITK                      | 2             | UG/PG               |
| 410     | Humanities and Social Sciences | Exploring Survey Data on Health Care                       | Prof. Pratap C. Mohanty                         | IITR                      | 2             | UG/PG               |
| 411     | Humanities and Social Sciences | Feminism : Concepts and Theories                           | Prof. Mathangi<br>Krishnamurthy                 | IITM                      | 3             | UG                  |
| 412     | Humanities and Social Sciences | German - I   | Prof. Milind Brahme                             | IITM                      | 3             | UG                  |
| 413     | Humanities and Social Sciences | German - II  | Prof. Milind Brahme                             | IITM                      | 3             | UG                  |
| 414     | Humanities and Social Sciences | German - III   | Prof. Milind Brahme                             | IITM                      | 3             | UG/PG               |
| 415     | Humanities and Social Sciences | Globalization: Theoretical Perspectives                    | Prof. R. Santhosh                               | IITM                      | 3             | PG                  |
| 416     | Humanities and Social Sciences | Group Dynamics   | Prof. Pooja Garg                                | IITR                      | 2             | UG                  |
| 417     | Humanities and Social Sciences | Health Research Fundamentals                               | Prof. P. Manickam                               | NIE                       | 2             | UG                  |
| 418     | Humanities and Social Sciences | Human Behaviour  | Prof. Naveen Kashyap                            | IITG                      | 2             | PG                  |
| 419     | Humanities and Social Sciences | Indian Feminisms: Concepts and Issues                      | Prof. Anandita Pan                              | IISER Bhopal              | 1             | UG/PG               |
| 420     | Humanities and Social Sciences | Indian Poetry in English                                   | Prof. Binod Mishra                              | IITR                      | 2             | UG/PG               |
| 421     | Humanities and Social Sciences | Intellectual Property                                      | Prof. Feroz Ali                                 | IITM                      | 3             | UG/PG               |
| 422     | Humanities and Social Sciences | Introduction To Cognitive Psychology                       | Prof. Naveen Kashyap                            | IITG                      | 3             | UG/PG               |
| 423     | Humanities and Social Sciences | Introduction to Cultural Studies                           | Prof. Avishek Parui                             | IITM                      | 3             | PG                  |
| 424     | Humanities and Social Sciences | Introduction to Environmental Economics                    | Prof. Diptimayee Nayak &<br>Prof. S. P. Singh   | IITR                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline           | Course Title  | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|--------------------------------|---|--------------------------------|---------------------------|---------------|---------------------|
| 425     | Humanities and Social Sciences | Introduction To Modern Indian Drama                     | Prof. Kiran Keshavamurthy      | IITG                      | 2             | PG                  |
| 426     | Humanities and Social Sciences | Introduction To Modern Indian Political Thought         | Prof. Mithilesh Kumar Jha      | IITG                      | 3             | UG/PG               |
| 427     | Humanities and Social Sciences | Introduction to Pāṇinian grammar                        | Prof. Malhar Kulkarni          | IITB                      | 3             | UG                  |
| 428     | Humanities and Social Sciences | Introduction To Political Theory                        | Prof. Mithilesh Kumar Jha      | IITG                      | 3             | UG                  |
| 429     | Humanities and Social Sciences | Introduction to Psychology                              | Prof. Braj Bhushan             | IITK                      | 2             | UG                  |
| 430     | Humanities and Social Sciences | Introduction to World Literature                        | Prof. Merin Simi Raj           | IITM                      | 3             | PG                  |
| 431     | Humanities and Social Sciences | Japani Bhasha - Saral swaroop                           | Prof. Vatsala Misra            | IITK                      | 3             | UG/PG               |
| 432     | Humanities and Social Sciences | Language and Mind                                       | Prof. Rajesh Kumar             | IITM                      | 2             | UG                  |
| 433     | Humanities and Social Sciences | Language, Culture And Cognition: An Introduction        | Prof. Bidisha Som              | IITG                      | 2             | UG/PG               |
| 434     | Humanities and Social Sciences | Literary Criticism (From Plato to Leavis)               | Prof. Merin Simi Raj           | IITM                      | 3             | PG                  |
| 435     | Humanities and Social Sciences | Literature and Coping Skills                            | Prof. Ajit K Mishra            | IIT(BHU) Varanasi         | 2             | UG/PG               |
| 436     | Humanities and Social Sciences | Literature and Life                                     | Prof. S P Dhanavel             | IITM                      | 3             | UG                  |
| 437     | Humanities and Social Sciences | Modern Indian Writing in Translation                    | Prof. Divya A                  | IITM                      | 3             | UG/PG               |
| 438     | Humanities and Social Sciences | Narrative Mode and Fiction                              | Prof. Sarbani Banerjee         | IITR                      | 3             | UG/PG               |
| 439     | Humanities and Social Sciences | Online Communication in the Digital Age                 | Prof. Rashmi Gaur              | IITR                      | 3             | UG/PG               |
| 440     | Humanities and Social Sciences | Patent Drafting for Beginners                           | Prof. Feroz Ali                | IITM                      | 1             | UG/PG               |
| 441     | Humanities and Social Sciences | Patent Law for Engineers and Scientists                 | Prof. Feroz Ali                | IITM                      | 3             | UG/PG               |
| 442     | Humanities and Social Sciences | Philosophical Foundations Of Social Research            | Prof. Sambit Mallick           | IITG                      | 2             | UG/PG               |
| 443     | Humanities and Social Sciences | Phonetics And Phonology: A Broad Overview               | Prof. Shakuntala Mahanta       | IITG                      | 2             | UG                  |
| 444     | Humanities and Social Sciences | Psychiatry - An Overview and How the Brain Creates Mind | Prof. Alok Bajpai              | IITK                      | 2             | UG/PG               |
| 445     | Humanities and Social Sciences | Psychology of Emotion: Theory and Applications          | Prof. Dilwar Hussain           | IITG                      | 3             | UG/PG               |
| 446     | Humanities and Social Sciences | Psychology Of Stress, Health And Well-Being             | Prof. Dilwar Hussain           | IITG                      | 3             | UG/PG               |
| 447     | Humanities and Social Sciences | Sociological Perspectives On Modernity                  | Prof. Sambit Mallick           | IITG                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline           | Course Title  | Name of the Course Coordinator   | Host University/Institute | No of Credits | Level of the Course |
|---------|--------------------------------|---|--|---------------------------|---------------|---------------------|
| 448     | Humanities and Social Sciences | The Nineteenth - Century English Novel                  | Prof. Divya A  | IITM                      | 3             | PG                  |
| 449     | Humanities and Social Sciences | Trauma and Literature                                   | Prof. Avishek Parui  | IITM                      | 3             | PG                  |
| 450     | Humanities and Social Sciences | Twentieth Century Fiction                               | Prof. Avishek Parui  | IITM                      | 3             | UG/PG               |
| 451     | Humanities and Social Sciences | United Nations Sustainable Development Goals (UN SDGs)  | Prof. Shiva Ji   | IITH                      | 3             | UG/PG               |
| 452     | Humanities and Social Sciences | समास samāsa in Pāṇinian grammar- I                      | Prof. Malhar Kulkarni  | IITB                      | 3             | UG                  |
| 453     | Humanities and Social Sciences | Literary Theory and Literary Criticism                  | Prof. Aysha Iqbal  | IITM                      | 2             | PG                  |
| 454     | Humanities and Social Sciences | English Language for Competitive Exams                  | Prof. Aysha Iqbal  | IITM                      | 3             | UG/PG               |
| 455     | Humanities and Social Sciences | Learning English in Hindi                               | Prof. Rajesh Kumar   | IITM                      | 2             | UG/PG               |
| 456     | Humanities and Social Sciences | Philosophy and Critical Thinking                        | Prof. Gyan Prakash   | IIT-ISM Dhanbad           | 3             | UG/PG               |
| 457     | Humanities and Social Sciences | Energy Resources, Economics, and Sustainability         | Prof. Pratham Arora  | IITR                      | 2             | UG/PG               |
| 458     | Humanities and Social Sciences | Psychology Of Bilingualism And Multilingualism          | Prof. Ark Verma  | IITK                      | 2             | PG                  |
| 459     | Humanities and Social Sciences | Cognitive Ergonomics                                    | Prof. M. K. Asthana  | IITR                      | 1             | UG/PG               |
| 460     | Humanities and Social Sciences | Sociology and Sanitation: An Introduction               | Prof. Ashish Saxena  | University of Allahabad   | 1             | UG/PG               |
| 461     | Humanities and Social Sciences | Human Movement Science                                  | Prof. Shruti Bhandurge<br>Prof. Subham Badhyal                                 | IITM                      | 2             | UG                  |
| 462     | Humanities and Social Sciences | Sports and Performance Nutrition                        | Prof. Geetha Ghaliyavar  | IITM                      | 2             | UG                  |
| 463     | Humanities and Social Sciences | Sports Psychology                                       | Prof. Chaitanya Sridhar<br>Prof. Nivedita Rajan<br>Prof. Priyanka Prabhakar    | IITM                      | 2             | UG                  |
| 464     | Humanities and Social Sciences | Strength & Conditioning for the Indian Population       | Prof. Deckline Leitao<br>Prof. Varun Suresh Kumar                              | IITM                      | 3             | UG                  |
| 465     | Humanities and Social Sciences | Essentials of Sports Injury Prevention & Rehabilitation | Col (Dr) Anup Krishnan (Retd)<br>Wg Cdr (Dr) CS<br>GuruLt Col (Dr) Atul Sharma | IITM                      | 2             | UG/PG               |

| Sr. No. | Subject / Discipline           | Course Title  | Name of the Course Coordinator  | Host University/Institute                   | No of Credits | Level of the Course |
|---------|--------------------------------|---|---|---|---------------|---------------------|
| 466     | Humanities and Social Sciences | Introduction to Exercise Physiology & Sports Performance      | Col (Dr) Anup Krishnan (Retd)<br>Wg Cdr (Dr) CS Guru<br>Prof. Pralay Majumdar   | IITM  | 2             | UG/PG               |
| 467     | Humanities and Social Sciences | Fundamentals of Sports Training, Load Management and recovery | Col (Dr) Anup Krishnan (Retd)<br>Wg Cdr (Dr) CS Guru<br>Prof. Kaustubh Shedjale | IITM  | 2             | UG/PG               |
| 468     | Humanities and Social Sciences | Forensic Linguistics  | Prof. Deepak Mashru   | National Forensic Sciences Universtiy (INI) | 1             | UG/PG               |
| 469     | Law                            | Advanced Contracts, Tendering and Public Procurement          | Prof. Sairam Bhat   | NLSIU                                       | 3             | UG/PG               |
| 470     | Law                            | IP Management & Technology Transfer                           | Prof. Gouri Gargate   | IITKGP                                      | 2             | UG/PG               |
| 471     | Law                            | International Trade Law                                       | Prof. Raju KD   | IITKGP                                      | 2             | UG/PG               |
| 472     | Law                            | Centre-State Relations in India                               | Prof. Uday Shankar  | IITKGP                                      | 2             | UG/PG               |
| 473     | Law                            | Constitution Law and Public Administration in India           | Prof. Sairam Bhat   | IITM  | 3             | UG/PG               |
| 474     | Mathematics                    | Advanced Computational Techniques                             | Prof. Somnath Bhattacharyya   | IITKGP                                      | 1             | UG/PG               |
| 475     | Mathematics                    | Advanced Course on Partial Differential Equations - II        | Prof. A K Nandakumaran<br>Prof. P.S. Datti                                      | IISc  | 2             | PG                  |
| 476     | Mathematics                    | Advanced Engineering Mathematics                              | Prof. H S Mahato  | IITKGP                                      | 3             | UG                  |
| 477     | Mathematics                    | Advanced Linear Algebra                                       | Prof. Premananda Bera   | IITR  | 3             | PG                  |
| 478     | Mathematics                    | Advanced Probability Theory                                   | Prof. Niladri Chatterjee  | IITD  | 3             | UG/PG               |
| 479     | Mathematics                    | Algebra - II  | Prof. Sankaran Viswanath<br>Prof. Amritanshu Prasad                             | IMSc  | 3             | PG                  |
| 480     | Mathematics                    | Algebraic Combinatorics                                       | Prof. Amritanshu Prasad<br>Prof. Sankaran Viswanath                             | IMSc  | 3             | UG/PG               |
| 481     | Mathematics                    | An Introduction to Hyperbolic Geometry                        | Prof. Abhijit Pal   | IITK  | 3             | PG                  |

| Sr. No. | Subject / Discipline | Course Title   | Name of the Course Coordinator                | Host University/Institute                | No of Credits | Level of the Course |
|---------|----------------------|--|---|--|---------------|---------------------|
| 482     | Mathematics          | An introduction to Point-Set-Topology Part-I   | Prof. Anant R Shastri                         | IITB                                     | 3             | UG                  |
| 483     | Mathematics          | An invitation to Topology  | Prof. Indrava Roy                             | IMSc                                     | 3             | UG                  |
| 484     | Mathematics          | Applied Linear Algebra in AI and ML  | Prof. Swanand Khare                           | IITKGP                                   | 3             | UG/PG               |
| 485     | Mathematics          | Basic Calculus - 1   | Prof. Arindama Singh                          | IITM                                     | 3             | UG                  |
| 486     | Mathematics          | Basic Linear Algebra   | Prof. I.K.Rana                                | IITB                                     | 2             | UG                  |
| 487     | Mathematics          | Basic Real Analysis  | Prof. I. K. Rana                              | IITB                                     | 3             | UG                  |
| 488     | Mathematics          | Computational Mathematics with SageMath  | Prof. Ajit Kumar                              | Institute of Chemical Technology, Mumbai | 3             | UG/PG               |
| 489     | Mathematics          | Dynamical System and Control   | Prof. N. Sukavanam, Prof. D. N Pandey         | IITR                                     | 3             | UG/PG               |
| 490     | Mathematics          | Engineering Mathematics II   | Prof. Jitendra Kumar                          | IITKGP                                   | 3             | UG                  |
| 491     | Mathematics          | Essentials Of Data Science With R Software - 1: Probability And Statistical Inference          | Prof. Shalabh                                 | IITK                                     | 3             | UG/PG               |
| 492     | Mathematics          | Essentials Of Data Science With R Software - 2: Sampling Theory And Linear Regression Analysis | Prof. Shalabh                                 | IITK                                     | 3             | UG/PG               |
| 493     | Mathematics          | First Course on Partial Differential Equations - I   | Prof. A. K. Nandakumaran<br>Prof. P. S. Datti | IISc                                     | 2             | PG                  |
| 494     | Mathematics          | Fourier Analysis and its applications  | Prof. G. K Srinivasan                         | IITB                                     | 3             | PG                  |
| 495     | Mathematics          | Functional Analysis  | Prof. Kesavan                                 | IMSc                                     | 3             | PG                  |
| 496     | Mathematics          | Graph Theory   | Prof. Soumen Maity                            | IISER PUNE                               | 2             | UG/PG               |
| 497     | Mathematics          | Introduction to Algebraic Geometry and Commutative Algebra                                     | Prof. Dilip P. Patil                          | IISc                                     | 3             | UG/PG               |
| 498     | Mathematics          | Introduction to Galois Theory  | Prof. Krishna Hanumanthu                      | CMI                                      | 2             | UG/PG               |
| 499     | Mathematics          | Introduction to Group Theory   | Prof. R. Venkatesh                            | IISc                                     | 3             | UG                  |
| 500     | Mathematics          | Introduction to Lie algebras   | Prof. R. Venkatesh                            | IISc                                     | 3             | PG                  |
| 501     | Mathematics          | Introduction To Queueing Theory  | Prof. N. Selvaraju                            | IITG                                     | 3             | UG/PG               |

| Sr. No. | Subject / Discipline   | Course Title   | Name of the Course Coordinator              | Host University/Institute    | No of Credits | Level of the Course |
|---------|------------------------|--|---|------------------------------|---------------|---------------------|
| 502     | Mathematics            | Introduction To Rings And Fields                             | Prof. Krishna Hanumanthu                    | CMI                          | 2             | PG                  |
| 503     | Mathematics            | Introduction to Statistics                                   | Prof. Sameen Naqvi                          | IIT Hyderabad                | 3             | PG                  |
| 504     | Mathematics            | Linear Algebra   | Prof. Pranav Haridas                        | Kerala School of Mathematics | 3             | UG                  |
| 505     | Mathematics            | Mathematical Modelling: Analysis and Applications            | Prof. Ameeya Kumar Nayak                    | IITR                         | 1             | UG/PG               |
| 506     | Mathematics            | Multivariable Calculus                                       | Prof. S. K. Gupta & Prof. Sanjeev Kumar     | IITR                         | 2             | UG                  |
| 507     | Mathematics            | Numerical Analysis   | Prof. S. Baskar                             | IITB                         | 3             | UG/PG               |
| 508     | Mathematics            | Numerical Linear Algebra                                     | Prof. P.N. Agrawal, Prof. D. N Pandey       | IITR                         | 3             | UG/PG               |
| 509     | Mathematics            | Numerical Methods: Finite difference approach                | Prof. Ameeya Kumar Nayak                    | IITR                         | 1             | PG                  |
| 510     | Mathematics            | Ordinary and Partial Differential Equations and Applications | Prof. P.N. Agrawal, Prof. D. N Pandey       | IITR                         | 3             | UG                  |
| 511     | Mathematics            | Probabilistic Methods in PDE                                 | Prof. Anindya Goswami                       | IISER Pune                   | 3             | PG                  |
| 512     | Mathematics            | Probability And Statistics                                   | Prof. Somesh Kumar                          | IITKGP                       | 3             | UG/PG               |
| 513     | Mathematics            | Probability –I with Examples Using R                         | Prof. Siva Athreya                          | ISI Bangalore                | 3             | UG                  |
| 514     | Mathematics            | Scientific Computing using Matlab                            | Prof. Mani Mehra<br>Prof. Vivek K. Aggarwal | IITD                         | 3             | UG/PG               |
| 515     | Mathematics            | Set Theory and Mathematical Logic                            | Prof. Amit Kuber                            | IITK                         | 3             | UG                  |
| 516     | Mathematics            | Statistical Inference  | Prof. Niladri Chatterjee                    | IITD                         | 2             | UG/PG               |
| 517     | Mathematics            | Numerical Linear Algebra and Application                     | Prof. Srinivasa Rao Pentyla                 | IIT-ISM Dhanbad              | 3             | UG/PG               |
| 518     | Mechanical Engineering | Engineering Thermodynamics in Hindi                          | Prof. Jayant K. Singh                       | IITK                         | 3             | UG                  |
| 519     | Applied Mechanics      | Engineering Mechanics - Statics and Dynamics                 | Prof. Anubhab Roy                           | IITM                         | 2             | UG                  |
| 520     | Mechanical Engineering | Applied Thermodynamics                                       | Prof. V. Raghavan                           | IITM                         | 3             | UG                  |
| 521     | Mechanical Engineering | Experimental Stress Analysis                                 | Prof. K. Ramesh                             | IITM                         | 3             | UG/PG               |
| 522     | Mechanical Engineering | Acoustic Materials And Metamaterials                         | Prof. Sneha Singh                           | IITR                         | 2             | PG                  |



| Sr. No. | Subject / Discipline   | Course Title  | Name of the Course Coordinator             | Host University/Institute | No of Credits | Level of the Course |
|---------|------------------------|---|--|---------------------------|---------------|---------------------|
| 523     | Mechanical Engineering | Automatic Control                                     | Prof. Anil Kumar                           | IITR                      | 2             | UG/PG               |
| 524     | Mechanical Engineering | Convective Heat Transfer                              | Prof. Arup Kumar Das                       | IITR                      | 1             | UG                  |
| 525     | Mechanical Engineering | Failure Analysis And Prevention                       | Prof. D. K. Dwivedi                        | IITR                      | 2             | UG/PG               |
| 526     | Mechanical Engineering | Financial Mathematics                                 | Prof. P. K. Jha                            | IITR                      | 3             | UG/PG               |
| 527     | Mechanical Engineering | Inspection And Quality Control In Manufacturing       | Prof. Kaushik Pal                          | IITR                      | 1             | UG/PG               |
| 528     | Mechanical Engineering | Manufacturing Guidelines For Product Design           | Prof. Inderdeep Singh                      | IITR                      | 2             | UG/PG               |
| 529     | Mechanical Engineering | Mechanical Measurement Systems                        | Prof. Ravi Kumar                           | IITR                      | 2             | UG/PG               |
| 530     | Mechanical Engineering | Mechatronics  | Prof. Pushparaj Mani Pathak                | IITR                      | 2             | UG/PG               |
| 531     | Mechanical Engineering | Modelling And Simulation Of Dynamic Systems           | Prof. Pushparaj Mani Pathak                | IITR                      | 2             | UG/PG               |
| 532     | Mechanical Engineering | Operations Management                                 | Prof. Inderdeep Singh                      | IITR                      | 3             | UG/PG               |
| 533     | Mechanical Engineering | Principles Of Casting Technology                      | Prof. P. K. Jha                            | IITR                      | 2             | UG/PG               |
| 534     | Mechanical Engineering | Principles Of Industrial Engineering                  | Prof. D. K. Dwivedi                        | IITR                      | 3             | UG                  |
| 535     | Mechanical Engineering | Robotics and Control : Theory and Practice            | Prof. N. Sukavanam, Prof. M. Felix Orlando | IITR                      | 2             | UG/PG               |
| 536     | Mechanical Engineering | Steam And Gas Power Systems                           | Prof. Ravi Kumar                           | IITR                      | 2             | UG/PG               |
| 537     | Mechanical Engineering | Surface Engineering Of Nanomaterials                  | Prof. Kaushik Pal                          | IITR                      | 2             | UG/PG               |
| 538     | Mechanical Engineering | Two Phase Flow And Heat Transfer                      | Prof. Arup Kumar Das                       | IITR                      | 1             | UG/PG               |
| 539     | Mechanical Engineering | Introduction to Soft Matter                           | Prof. Alope Kumar                          | IISc                      | 2             | UG/PG               |
| 540     | Mechanical Engineering | Robotics: Basics and Selected Advanced Concepts       | Prof. Ashitava Ghosal                      | IISc                      | 3             | UG/PG               |
| 541     | Mechanical Engineering | Advanced Robotics                                     | Prof. Ashish Dutta                         | IITK                      | 3             | UG/PG               |
| 542     | Mechanical Engineering | Basics of Finite Element Analysis - II                | Prof. Nachiketa Tiwari                     | IITK                      | 2             | UG/PG               |
| 543     | Mechanical Engineering | Computational Fluid Dynamics For Incompressible Flows | Prof. Amaresh Dalal                        | IITG                      | 3             | UG/PG               |
| 544     | Mechanical Engineering | Computer Integrated Manufacturing                     | Prof. J. Ramkumar<br>Prof. Amandeep Singh  | IITK                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline   | Course Title   | Name of the Course Coordinator                       | Host University/Institute | No of Credits | Level of the Course |
|---------|------------------------|--|--|---------------------------|---------------|---------------------|
| 545     | Mechanical Engineering | Design Practice  | Prof. Shantanu Bhattacharya                          | IITK                      | 2             | UG/PG               |
| 546     | Mechanical Engineering | Dynamics and Control of Mechanical Systems                           | Prof. Ashitava Ghosal                                | IISc                      | 3             | UG/PG               |
| 547     | Mechanical Engineering | Evolutionary Computation For Single And Multi-Objective Optimization | Prof. Deepak Sharma                                  | IITG                      | 2             | PG                  |
| 548     | Mechanical Engineering | Explosions and Safety  | Prof. K. Ramamurthi<br>Prof. Prasad Patnaik BSV      | IITM                      | 3             | UG/PG               |
| 549     | Mechanical Engineering | Finite Element Modeling Of Welding Processes                         | Prof. Swarup Bag                                     | IITG                      | 3             | UG/PG               |
| 550     | Mechanical Engineering | Fundamental Of Welding Science And Technology                        | Prof. Pankaj Biswas                                  | IITG                      | 2             | UG/PG               |
| 551     | Mechanical Engineering | Fundamentals of Combustion   | Prof. V. Raghavan                                    | IITM                      | 3             | UG/PG               |
| 552     | Mechanical Engineering | Fundamentals of combustion for propulsion                            | Prof. S.Varunkumar<br>Prof. H.S.Mukunda              | IITM<br>IISc Bangalore    | 2             | PG                  |
| 553     | Mechanical Engineering | Fundamentals Of Compressible Flow                                    | Prof. Niranjana Sahoo                                | IITG                      | 3             | UG/PG               |
| 554     | Mechanical Engineering | Heat Transfer and Combustion in Multiphase Systems                   | Prof. Saptarshi Basu                                 | IISc                      | 2             | UG/PG               |
| 555     | Mechanical Engineering | IC Engines And Gas Turbines  | Prof. Pranab K. Mondal,<br>Prof. Vinayak N. Kulkarni | IITG                      | 3             | UG/PG               |
| 556     | Mechanical Engineering | Introduction to Abrasive Machining and Finishing Processes           | Prof. Mamilla Ravi Sankar                            | IIT Tirupati              | 2             | UG/PG               |
| 557     | Mechanical Engineering | Introduction To Fluid Mechanics                                      | Prof. Suman Chakraborty                              | IITKGP                    | 3             | UG                  |
| 558     | Mechanical Engineering | Introduction to Machining and Machining Fluids                       | Prof. Mamilla Ravi Sankar                            | IIT Tirupati              | 2             | UG/PG               |
| 559     | Mechanical Engineering | Introduction To Mechanical Micro Machining                           | Prof. Ajay M Sidpara                                 | IITKGP                    | 3             | UG/PG               |
| 560     | Mechanical Engineering | Introduction To Uncertainty Analysis And Experimentation             | Prof. S.R. Kale                                      | IITD                      | 2             | UG/PG               |
| 561     | Mechanical Engineering | Kinematics Of Mechanisms And Machines                                | Prof. Anirvan Dasgupta                               | IITKGP                    | 2             | UG/PG               |
| 562     | Mechanical Engineering | Machinery Fault Diagnosis And Signal Processing                      | Prof. Amiya Ranjan Mohanty                           | IITKGP                    | 3             | PG                  |

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|---------|------------------------|---|---|---------------------------|---------------|---------------------|
| 563     | Mechanical Engineering | Machining Science   | Prof. Sounak Kumar Choudhury              | IITK                      | 1             | PG                  |
| 564     | Mechanical Engineering | Manufacturing Automation  | Prof. Sounak Kumar Choudhury              | IITK                      | 1             | UG                  |
| 565     | Mechanical Engineering | Manufacturing Process Technology I & II                                 | Prof. Shantanu Bhattacharya               | IITK                      | 3             | UG/PG               |
| 566     | Mechanical Engineering | Mechanics Of Fiber Reinforced Polymer Composite Structures              | Prof. Debabrata Chakraborty               | IITG                      | 3             | UG/PG               |
| 567     | Mechanical Engineering | Mechanics Of Machining  | Prof. Uday S. Dixit                       | IITG                      | 2             | UG/PG               |
| 568     | Mechanical Engineering | Mechanics of Sheet Metal Forming  | Prof. R Ganesh Narayanan                  | IITG                      | 2             | UG/PG               |
| 569     | Mechanical Engineering | Nature and Properties of Materials                                      | Prof. Bishakh Bhattacharya                | IITK                      | 2             | UG                  |
| 570     | Mechanical Engineering | Noise Management & Control  | Prof. Nachiketa Tiwari                    | IITK                      | 3             | PG                  |
| 571     | Mechanical Engineering | Nonlinear Vibration   | Prof. S. K. Dwivedy                       | IITG                      | 3             | UG/PG               |
| 572     | Mechanical Engineering | Oil Hydraulics and Pneumatics   | Prof. Somashekhar S                       | IITM                      | 3             | UG/PG               |
| 573     | Mechanical Engineering | Optimization from fundamentals  | Prof. Ankur A. Kulkarni                   | IITB                      | 3             | PG                  |
| 574     | Mechanical Engineering | Power Plant System Engineering  | Prof. Niranjana Sahoo                     | IITG                      | 3             | UG                  |
| 575     | Mechanical Engineering | Product Design and Manufacturing  | Prof. J. Ramkumar<br>Prof. Amandeep Singh | IITK                      | 3             | UG/PG               |
| 576     | Mechanical Engineering | Product Engineering and Design Thinking                                 | Prof. Pranab K Dan<br>Prof. Prabir Sarkar | IITKGP                    | 2             | UG/PG               |
| 577     | Mechanical Engineering | Theory Of Composite Shells  | Prof. Poonam Kumari                       | IITG                      | 2             | PG                  |
| 578     | Mechanical Engineering | Theory of Rectangular Plates-Part I                                     | Prof. Poonam Kumari                       | IITG                      | 1             | PG                  |
| 579     | Mechanical Engineering | Thermal Engineering: Basic and Applied                                  | Prof. Pranab K. Mondal                    | IITG                      | 3             | UG/PG               |
| 580     | Mechanical Engineering | Thermodynamics  | Prof. S.R. Kale                           | IITD                      | 3             | UG/PG               |
| 581     | Mechanical Engineering | Turbulent Combustion: Theory and Modelling                              | Prof. Ashok De                            | IITK                      | 3             | UG/PG               |
| 582     | Mechanical Engineering | Two-Phase Flow With Phase Change In Conventional And Miniature Channels | Prof. Manmohan Pandey                     | IITG                      | 1             | UG                  |
| 583     | Mechanical Engineering | Viscous Fluid Flow  | Prof. Amaresh Dalal                       | IITG                      | 3             | UG/PG               |

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|---------|------------------------|--|--|---------------------------|---------------|---------------------|
| 584     | Mechanical Engineering | Wheeled Mobile Robots  | Prof. Asokan Thondiyath<br>Prof. Santhakumar Mohan | IITM<br>IIT Palakkad      | 2             | UG/PG               |
| 585     | Mechanical Engineering | Cryogenic Hydrogen Technology  | Prof. Indranil Ghosh                               | IITKGP                    | 2             | UG/PG               |
| 586     | Mechanical Engineering | Industrial Hydraulics and Automation   | Prof. Niranjana Kumar<br>Prof. Ajit Kumar          | IIT-ISM Dhanbad           | 3             | UG/PG               |
| 587     | Mechanical Engineering | Ideal fluid flows using complex analysis                                     | Prof. Amit Gupta                                   | IITD                      | 1             | PG                  |
| 588     | Mechanical Engineering | Design of Mechanical Transmission Systems                                    | Prof. Ramkumar                                     | IITM                      | 3             | UG/PG               |
| 589     | Mechanical Engineering | Advanced Machining Processes   | Prof. Shantanu Bhattacharya                        | IITK                      | 3             | UG                  |
| 590     | Mechanical Engineering | Introduction to Solidification Processing                                    | Prof. Swarup Bag                                   | IITG                      | 2             | PG                  |
| 591     | Mechanical Engineering | Data-Enabled Tribological Engineering: From Experiments to Predictive Models | Prof. (HAG) Harish Hirani                          | IITD                      | 3             | UG/PG               |
| 592     | Mechanical Engineering | Nonlinear Control Design   | Prof. Srikant Sukumar                              | IITB                      | 3             | PG                  |
| 593     | Mechanical Engineering | Introduction to Refrigeration and Air Conditioning                           | Prof. Sameer Khandekar                             | IITK                      | 2             | UG/PG               |
| 594     | Mechanical Engineering | Strength Of Materials - IITM   | Prof. K.Ramesh                                     | IITM                      | 3             | UG                  |
| 595     | Management             | Project Management   | Prof. Ramesh Anbanandam                            | IITR                      | 2             | UG                  |
| 596     | Management             | Infrastructure Economics   | Prof. Nalin Bharti                                 | IIT Patna                 | 2             | UG/PG               |
| 597     | Management             | Systems Engineering: Theory & Practice                                       | Prof. Deepu Philip                                 | IITK                      | 2             | UG/PG               |
| 598     | Management             | Advances in Strategic Human Resource Management (HRM)                        | Prof. Ashish Pandey                                | IITB                      | 1             | UG/PG               |
| 599     | Management             | AI in Marketing  | Prof. Zillur Rahman                                | IITR                      | 3             | PG                  |
| 600     | Management             | Artificial Intelligence (AI) for Investments                                 | Prof. Abhinava Tripathi                            | IITK                      | 3             | UG/PG               |
| 601     | Management             | Behavioral And Personal Finance  | Prof. Abhijeet Chandra                             | IITKGP                    | 2             | UG/PG               |
| 602     | Management             | Business analytics and data mining Modeling using R                          | Prof. Gaurav Dixit                                 | IITR                      | 3             | UG/PG               |
| 603     | Management             | Business Analytics For Management Decision                                   | Prof. Rudra P Pradhan                              | IITKGP                    | 3             | UG/PG               |
| 604     | Management             | Business Development: From Start to Scale                                    | Prof. C Bhaktavatsala Rao                          | IITM                      | 3             | UG/PG               |

| Sr. No. | Subject / Discipline | Course Title  | Name of the Course Coordinator                  | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------|---|---|---------------------------|---------------|---------------------|
| 605     | Management           | Business Law for Managers                           | Prof. S Srinivasan<br>Prof. Kaushik Mukherjee   | IITKGP                    | 2             | UG/PG               |
| 606     | Management           | Business Statistics                                 | Prof. Mukesh Kumar Barua                        | IITR                      | 3             | UG/PG               |
| 607     | Management           | Consumer Behaviour                                  | Prof. Srabanti Mukherjee                        | IITKGP                    | 2             | UG/PG               |
| 608     | Management           | Data Analysis and Decision Making - I               | Prof. Raghu Nandan Sengupta                     | IITK                      | 3             | PG                  |
| 609     | Management           | Design Thinking - A Primer                          | Prof. Ashwin Mahalingam<br>Prof. Bala Ramadurai | IITM                      | 1             | UG/PG               |
| 610     | Management           | E-Business  | Prof. Mamata Jenamani                           | IITKGP                    | 3             | UG                  |
| 611     | Management           | Ethics In Engineering Practice                      | Prof. Susmita Mukhopadhyay                      | IITKGP                    | 2             | UG/PG               |
| 612     | Management           | Financial accounting - IITMandi                     | Prof. Puran Singh                               | IIT Mandi                 | 3             | UG/PG               |
| 613     | Management           | Financial Derivatives & Risk Management             | Prof. J. P. Singh                               | IITR                      | 3             | PG                  |
| 614     | Management           | Financial Institutions And Markets                  | Prof. Jitendra Mahakud                          | IITKGP                    | 3             | UG/PG               |
| 615     | Management           | Financial Management For Managers                   | Prof. Anil K. Sharma                            | IITR                      | 3             | UG/PG               |
| 616     | Management           | Financial Statement Analysis and Reporting          | Prof. Anil K. Sharma                            | IITR                      | 3             | UG/PG               |
| 617     | Management           | Foundation Course In Managerial Economics           | Prof. Barnali Nag                               | IITKGP                    | 2             | UG/PG               |
| 618     | Management           | Global Marketing Management                         | Prof. Zillur Rahman                             | IITR                      | 3             | UG/PG               |
| 619     | Management           | Innovation in Marketing and Marketing of Innovation | Prof. Vinay Sharma                              | IITR                      | 3             | UG/PG               |
| 620     | Management           | Integrated Marketing Communication                  | Prof. Vinay Sharma                              | IITR                      | 3             | UG/PG               |
| 621     | Management           | Integrated Marketing Management                     | Prof. R. Srinivasan                             | IISc                      | 2             | PG                  |
| 622     | Management           | International Business                              | Prof. Jogendra Kumar Nayak                      | IITR                      | 3             | UG/PG               |
| 623     | Management           | International Marketing                             | Prof. Biswarup Ghosh                            | IITKGP                    | 2             | PG                  |
| 624     | Management           | Introduction to Operations Research                 | Prof. G. Srinivasan                             | IITM                      | 2             | UG/PG               |
| 625     | Management           | Introduction to probability and Statistics          | Prof. G. Srinivasan                             | IITM                      | 1             | UG/PG               |
| 626     | Management           | Introduction to Stochastic Processes                | Prof. Manjesh Hanawal                           | IITB                      | 3             | PG                  |

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|---------|----------------------|---|--|---------------------------|---------------|---------------------|
| 627     | Management           | Introduction to System Dynamics Modeling                      | Prof. Jayendran Venkateswaran  | IITB                      | 2             | UG/PG               |
| 628     | Management           | Investment Management   | Prof. Abhijeet Chandra   | IITKGP                    | 2             | UG/PG               |
| 629     | Management           | Leadership and Team Effectiveness                             | Prof. Santosh Rangnekar  | IITR                      | 3             | UG/PG               |
| 630     | Management           | Leadership for India Inc: Practical Concepts and Constructs   | Prof. C Bhaktavatsala Rao  | IITM                      | 3             | PG                  |
| 631     | Management           | Management of Field Sales                                     | Prof. Jayanta Chatterjee   | IITK                      | 1             | UG/PG               |
| 632     | Management           | Managing Change In Organizations                              | Prof. Kbl Srivastava   | IITKGP                    | 2             | UG/PG               |
| 633     | Management           | Mergers, Acquisitions and Corporate Restructuring             | Prof. Chandra Sekhar Mishra  | IITKGP                    | 2             | PG                  |
| 634     | Management           | Marketing Analytics   | Prof. Swagato Chatterjee   | IITKGP                    | 3             | PG                  |
| 635     | Management           | Marketing Management - II                                     | Prof. Jayanta Chatterjee & Prof. Shashi Shekhar Mishra                     | IITK                      | 2             | UG/PG               |
| 636     | Management           | Marketing Research and Analysis-II                            | Prof. Jogendra Kumar Nayak   | IITR                      | 3             | UG/PG               |
| 637     | Management           | MCDM Techniques Using R                                       | Prof. Gaurav Dixit   | IITR                      | 1             | UG/PG               |
| 638     | Management           | Modelling And Analytics For Supply Chain Management           | Prof. Kunal Kanti Ghosh<br>Prof. Anupam Ghosh                              | IITKGP                    | 3             | PG                  |
| 639     | Management           | Organizational Behaviour: Individual Dynamics in Organization | Prof. Abraham Cyril Issac  | IITG                      | 3             | PG                  |
| 640     | Management           | Organizational Design Change and Transformation               | Prof. Susmita Mukhopadhyay<br>Prof. Sangeeta Sahney<br>Prof. S. Srinivasan | IITKGP                    | 3             | UG/PG               |
| 641     | Management           | Principles of Management                                      | Prof. Usha Lenka   | IITR                      | 3             | UG/PG               |
| 642     | Management           | Production and Operation Management                           | Prof. Rajat Agrawal  | IITR                      | 3             | PG                  |
| 643     | Management           | Quality Control and Improvement with MINITAB                  | Prof. Indrajit Mukherjee   | IITB                      | 2             | PG                  |
| 644     | Management           | Quality Design And Control                                    | Prof. Pradip Kumar Ray   | IITKGP                    | 3             | UG/PG               |
| 645     | Management           | Retail Management   | Prof. Swagato Chatterjee   | IITKGP                    | 2             | PG                  |
| 646     | Management           | Safety and Risk Analytics                                     | Prof. Jhareswar Maiti  | IITKGP                    | 3             | UG/PG               |

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|---------|----------------------|---|--|---|---------------|---------------------|
| 647     | Management           | Sales And Distribution Management   | Prof. Sangeeta Sahney  | IITKGP  | 2             | UG/PG               |
| 648     | Management           | Simulation of Business Systems: An Applied Approach                               | Prof. Deepu Philip   | IITK  | 2             | UG/PG               |
| 649     | Management           | Six Sigma   | Prof. Jitesh J Thakkar   | IITKGP  | 3             | UG/PG               |
| 650     | Management           | Strategic Services Marketing  | Prof. Kalpak Kulkarni  | IITR  | 3             | UG/PG               |
| 651     | Management           | Strategic Sourcing  | Prof. Arshinder Kaur   | IITM  | 3             | PG                  |
| 652     | Management           | Supply Chain Analytics  | Prof. Rajat Agrawal  | IITR  | 2             | UG/PG               |
| 653     | Management           | Supply Chain Digitization   | Prof. Priyanka Verma<br>Prof. Sushmita Narayana<br>Prof. Debabrata Das | National Institute of Industrial Engineering (NITIE), Mumbai      | 3             | PG                  |
| 654     | Management           | Talent Acquisition and Management   | Prof. Santosh Rangnekar  | IITR  | 3             | UG/PG               |
| 655     | Management           | Technology Forecasting for strategic decision making - An Introduction            | Prof. Dmitry Kucharavy<br>Prof. Bala Ramadurai                         | EM Strasbourg Business School (University of Strasbourg) and IITM | 1             | PG                  |
| 656     | Management           | Management of New Products and Services   | Prof. Jayanta Chatterjee   | IITK  | 1             | PG                  |
| 657     | Management           | Yoga and Positive Psychology for Managing Career and Life                         | Prof. Ashish Pandey  | IITB  | 2             | UG/PG               |
| 658     | Management           | Management of Inventory Systems   | Prof. P K Ray  | IITKGP  | 3             | UG/PG               |
| 659     | Management           | Advanced Financial Instruments for Sustainable Business and Decentralized Markets | Prof. Abhinava Tripathi  | IITK  | 3             | UG/PG               |
| 660     | Management           | Business Forecasting  | Prof. Pankaj Dutta   | IITB  | 2             | UG/PG               |
| 661     | Management           | Business Fundamentals for Entrepreneurs (Part 2: External Operation)              | Prof. Devdip Purkayastha   | IITB  | 1             | UG/PG               |
| 662     | Management           | Multivariate Procedures with R  | Prof. Narendra K Sharma  | IITK  | 3             | PG                  |

| Sr. No. | Subject / Discipline                    | Course Title  | Name of the Course Coordinator            | Host University/Institute | No of Credits | Level of the Course |
|---------|---|---|---|---------------------------|---------------|---------------------|
| 663     | Metallurgical and Materials Engineering | Corrosion Protection Methods  | Prof. Kallol Mondal                       | IITK                      | 2             | UG                  |
| 664     | Metallurgical and Materials Engineering | Transport Phenomena in Materials                                      | Prof. G. Phanikumar                       | IITM                      | 3             | PG                  |
| 665     | Metallurgical and Materials Engineering | Introduction To Crystal Elasticity And Crystal Plasticity             | Prof. Swarup Bag                          | IITG                      | 2             | UG/PG               |
| 666     | Metallurgical and Materials Engineering | Defects in Crystalline Solids (Part-II)                               | Prof. Shashank Shekhar                    | IITK                      | 1             | UG                  |
| 667     | Metallurgical and Materials Engineering | Solar Photovoltaics: Principles, Technologies & Materials             | Prof. Ashish Garg                         | IITK                      | 2             | UG/PG               |
| 668     | Metallurgical and Materials Engineering | Aqueous Corrosion and Its Control                                     | Prof. V.S. Raja                           | IITB                      | 3             | UG/PG               |
| 669     | Metallurgical and Materials Engineering | Carbon Materials and Manufacturing                                    | Prof. Swati Sharma                        | IIT Mandi                 | 3             | PG                  |
| 670     | Metallurgical and Materials Engineering | Cathodic Protection Engineering                                       | Prof. V.S. Raja                           | IITB                      | 1             | UG/PG               |
| 671     | Metallurgical and Materials Engineering | Dealing with materials data : collection, analysis and interpretation | Prof. M P Gururajan<br>Prof. Hina Gokhale | IITB                      | 3             | PG                  |
| 672     | Metallurgical and Materials Engineering | Fundamentals Of Electronic Materials And Devices                      | Prof. Parasuraman Swaminathan             | IITM                      | 2             | UG/PG               |
| 673     | Metallurgical and Materials Engineering | Material Characterization   | Prof.S. Sankaran                          | IITM                      | 3             | UG/PG               |
| 674     | Metallurgical and Materials Engineering | Materials Science and Engineering                                     | Prof. Vivek Pancholi                      | IITR                      | 2             | UG                  |
| 675     | Metallurgical and Materials Engineering | Steel Quality: Role of Secondary Refining & Continuous Casting        | Prof. Santanu Kr. Ray                     | IITM                      | 3             | UG/PG               |
| 676     | Metallurgical and Materials Engineering | Theory and Practice of Non Destructive Testing                        | Prof. Ranjit Bauri                        | IITM                      | 2             | UG/PG               |
| 677     | Metallurgical and Materials Engineering | Welding Processes   | Prof. Murugaiyan Amirthalingam            | IITM                      | 3             | UG/PG               |
| 678     | Metallurgical and Materials Engineering | Fundamentals of Material Processing - Part 2                          | Prof. Shashank Shekhar & Prof. Anshu Gaur | IITK                      | 2             | UG                  |
| 679     | Metallurgical and Materials Engineering | Diffusion in Multicomponent Solids                                    | Prof. Kaustubh Kulkarni                   | IITK                      | 3             | UG/PG               |



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|---------|---|---|--|---------------------------|---------------|---------------------|
| 680     | Metallurgical and Materials Engineering | Properties of Materials (Nature and Properties of Materials : III)              | Prof. Ashish Garg                                      | IITK                      | 2             | UG                  |
| 681     | Metallurgical and Materials Engineering | Principles of Extractive Metallurgy   | Prof. Tarun Kumar Kundu                                | IITKGP                    | 3             | UG                  |
| 682     | Metallurgical and Materials Engineering | Mechanical Behaviour of Materials (Part – I)                                    | Prof. Shashank Shekhar / Prof. Sudhanshu Shekhar Singh | IITK                      | 3             | UG                  |
| 683     | Metallurgical and Materials Engineering | Surface Engineering For Corrosion And Wear Resistance Application               | Prof. Indranil Manna<br>Prof. Jyotsna Dutta Majumdar   | IITKGP                    | 3             | UG/PG               |
| 684     | Mining Engineering                      | Drilling And Blasting Technology  | Prof. Kaushik Dey                                      | IITKGP                    | 3             | UG/PG               |
| 685     | Metallurgical and Materials Engineering | Mine Automation and Data Analytics  | Prof. Radhakanta Koner                                 | IIT-ISM Dhanbad           | 3             | UG                  |
| 686     | Metallurgical and Materials Engineering | Crystals, Symmetry and Tensors  | Prof. Rajesh Prasad                                    | IITD                      | 3             | UG/PG               |
| 687     | Ocean Engineering                       | Advanced design of steel structures   | Prof. Srinivasan Chandrasekaran                        | IITM                      | 3             | PG                  |
| 688     | Ocean Engineering                       | Offshore Structures Under Special Environmental Loads Including Fire Resistance | Prof. Srinivasan Chandrasekaran                        | IITM                      | 3             | PG                  |
| 689     | Ocean Engineering                       | Surface Facilities for Oil and Gas Handling                                     | Prof. Abdus Samad                                      | IITM                      | 3             | UG/PG               |
| 690     | Physics                                 | Mathematical Methods in Physics 1   | Prof. Auditya Sharma                                   | IISER Bhopal              | 2             | UG                  |
| 691     | Physics                                 | A Brief Course On Superconductivity   | Prof. Saurabh Basu                                     | IITG                      | 1             | UG/PG               |
| 692     | Physics                                 | Advanced Condensed Matter Physics   | Prof. Saurabh Basu                                     | IITG                      | 2             | UG/PG               |
| 693     | Physics                                 | Atomic And Molecular Physics  | Prof. Amal Kumar Das                                   | IITKGP                    | 3             | UG                  |
| 694     | Physics                                 | Electronic Theory Of Solids   | Prof. Arghya Taraphder                                 | IITKGP                    | 3             | UG/PG               |
| 695     | Physics                                 | Experimental Physics - II   | Prof. Amal Kumar Das                                   | IITKGP                    | 3             | UG                  |
| 696     | Physics                                 | Fluid Dynamics for Astrophysics   | Prof. Prasad Subramanian                               | IISER Pune                | 3             | PG                  |
| 697     | Physics                                 | Group Theory methods in Physics   | Prof. P. Ramadevi                                      | IITB                      | 3             | UG                  |
| 698     | Physics                                 | Introduction to Atmospheric and Space Sciences                                  | Prof. M V Sunil Krishna                                | IITR                      | 3             | UG/PG               |
| 699     | Physics                                 | Introduction To Statistical Mechanics   | Prof. Girish S. Setlur                                 | IITG                      | 2             | PG                  |

| Sr. No. | Subject / Discipline | Course Title   | Name of the Course Coordinator | Host University/Institute | No of Credits | Level of the Course |
|---------|----------------------|--|--------------------------------|---------------------------|---------------|---------------------|
| 700     | Physics              | Nuclear Astrophysics   | Prof. Anil Kumar Gourishetty   | IITR                      | 2             | UG/PG               |
| 701     | Physics              | Physics of Biological Systems  | Prof. Mithun Mitra             | IITB                      | 3             | UG/PG               |
| 702     | Physics              | Physics through Computational Thinking   | Prof. Auditya Sharma           | IISER Bhopal              | 2             | UG                  |
| 703     | Physics              | Quantum Entanglement: Fundamentals, measures and applications                            | Prof. Amarendra Kumar Sarma    | IITG                      | 1             | UG/PG               |
| 704     | Physics              | Quantum Mechanics I  | Prof. P. Ramadevi              | IITB                      | 3             | UG                  |
| 705     | Physics              | Quantum Transport  | Prof. Madhu Thalakulam         | IISER Thiruvananthapuram  | 3             | PG                  |
| 706     | Physics              | Thermal Physics  | Prof. Debamalya Banerjee       | IITKGP                    | 3             | UG                  |
| 707     | Physics              | Topology and Condensed Matter Physics  | Prof. Saurabh Basu             | IITG                      | 2             | PG                  |
| 708     | Physics              | Tapestry of Field theory: Classical & Quantum, Equilibrium & Nonequilibrium Perspectives | Prof. Mahendra K. Verma        | IITK                      | 3             | PG                  |
| 709     | Physics              | Plasma Physics and Applications  | Prof. M.V. Sunil Krishna       | IITR                      | 3             | UG/PG               |
| 710     | Physics              | Coherence and Quantum Entanglement   | Prof. Anand Kumar Jha          | IITK                      | 3             | UG/PG               |
| 711     | Physics              | Advanced NMR Techniques in Solution and Solid-State                                      | Prof. N. Suryaprakash          | IISc                      | 3             | PG                  |
| 712     | Physics              | Introduction to Quantum Field Theory (Theory of Scalar Fields) - Part 2                  | Prof. Anurag Tripathi          | IITH                      | 3             | PG                  |
| 713     | Physics              | Fundamentals of Attosecond Science and Technology (FAST)                                 | Prof. Sivarama Krishnan        | IITM                      | 3             | UG/PG               |
| 714     | Textile Engineering  | Advanced Textile Printing Technology   | Prof. Kushal Sen               | IITD                      | 2             | UG/PG               |
| 715     | Textile Engineering  | Evaluation of Textiles Materials   | Prof. Apurba Das               | IITD                      | 3             | UG                  |
| 716     | Textile Engineering  | Testing of Functional and Technical Textiles   | Prof. Apurba Das               | IITD                      | 2             | UG/PG               |
| 717     | Textile Engineering  | Textile Product Design and Development   | Prof. R Chattopadhyay          | IITD                      | 3             | UG/PG               |
| 718     | Textile Engineering  | Textured Yarn Technology   | Prof. Kushal Sen               | IITD                      | 3             | UG/PG               |
| 719     | Textile Engineering  | Theory of Yarn Structure   | Prof. Dipayan Das              | IITD                      | 3             | UG                  |
| 720     | Textile Engineering  | New Spinning Technologies  | Prof. R Chattopadhyay          | IITD                      | 3             | UG/PG               |

### List of January 2024 Semester Course – IGNOU

| Sr. No. | Subject / Discipline           | Course Title  | Name of the Course Coordinator                      | Host University /Institute | Level of the Course | No of Credits |
|---------|--------------------------------|---|---|----------------------------|---------------------|---------------|
| 1       | Multidisciplinary              | TS-1: Foundation Course In Tourism                              | Dr. Sonia Sharma and Dr. Tangjakhombi Akoijam       | IGNOU                      | UG                  | 8             |
| 2       | Multidisciplinary              | TS-2: Tourism Development Products, Operations And Case Studies | Dr. Arvind Kumar Dubey and Dr. Paramita Suklabaidya | IGNOU                      | UG                  | 8             |
| 3       | Multidisciplinary              | TS-3: Management in Tourism                                     | Dr. Sonia Sharma                                    | IGNOU                      | UG                  | 8             |
| 4       | Multidisciplinary              | TS-6: Tourism Marketing   | Dr. Tangjakhombi Akoijam                            | IGNOU                      | UG                  | 8             |
| 5       | Humanities and Social Sciences | ORUL-002- Basics of Russian:Communication Skills-II             | Dr. Shivaji Bhaskar                                 | IGNOU                      | Diploma             | 8             |
| 6       | Language                       | MHD-02: आधुनिक हिन्दी काव्य                                     | Dr. Narendra Mishra                                 | IGNOU                      | PG                  | 8             |
| 7       | Language                       | MHD-03: उपन्यास एवं कहानी                                       | Prof. Jitendra Kr. Srivastava                       | IGNOU                      | PG                  | 8             |
| 8       | Language                       | MHD-04: नाटक और अन्य गद्य विधाएँ                                | डॉ. रीता सिन्हा                                     | IGNOU                      | PG                  | 8             |
| 9       | Language                       | MHD-06 : हिंदी भाषा और साहित्य का इतिहास                        | प्रो. स्मिता चतुर्वेदी                              | IGNOU                      | PG                  | 8             |

| Sr. No. | Subject / Discipline             | Course Title                                       | Name of the Course Coordinator                | Host University /Institute | Level of the Course | No of Credits |
|---------|----------------------------------|--|---|----------------------------|---------------------|---------------|
| 10      | Library and Information Sciences | BLI-011: Libraries: An introduction                | Prof. Archana Shukla<br>Prof. Zuchamo Yanthan | IGNOU                      | Diploma             | 4             |
| 11      | Library and Information Sciences | BLII-012: Document Processing and Organisation     | Porf. Jaideep Sharma                          | IGNOU                      | PG                  | 4             |
| 12      | Library and Information Sciences | BLII-013: Information Sources and Library Services | Prof. Archana Shukla                          | IGNOU                      | Diploma             | 4             |
| 13      | Library and Information Sciences | BLII-014: ICT in Libraries                         | Prof. Uma Kanjilal                            | IGNOU                      | Diploma             | 4             |
| 14      | Library and Information Sciences | BLI-221: Library Infromation and Society           | Porf. Jaideep Sharma                          | IGNOU                      | PG                  | 4             |
| 15      | Library and Information Sciences | BLI-222: Information Sources and Services          | Prof. Archana Shukla                          | IGNOU                      | PG                  | 4             |
| 16      | Library and Information Sciences | BLI-223: Organising and Managing Information       | Porf. Jaideep Sharma                          | IGNOU                      | PG                  | 4             |
| 17      | Humanities and Social Sciences   | BSW-41: Understanding Tribals                      | Dr. N. Ramya                                  | IGNOU                      | Diploma             | 4             |
| 18      | Humanities and Social Sciences   | BSW-42: Tribal Society                             | Dr. Saumya and Dr. Sayantani Guin             | IGNOU                      | UG                  | 4             |

| Sr. No. | Subject / Discipline              | Course Title   | Name of the Course Coordinator | Host University /Institute | Level of the Course  | No of Credits |
|---------|-----------------------------------|--|--------------------------------|----------------------------|----------------------|---------------|
| 19      | Humanities and Social Sciences    | BSW-43:Tribals of South and Central India  | Dr. G. Mahesh                  | IGNOU                      | Diploma              | 4             |
| 20      | Humanities and Social Sciences    | BSW-44:Tribals in North and Northeast Region of India  | Prof. Rose Nembiakkim          | IGNOU                      | Diploma              | 4             |
| 21      | Agricultural and Food Engineering | MNR-1: Indian Agricultural Development   | Dr. Praveen Kumar Jain         | IGNOU                      | Continuing Education | 4             |
| 22      | Agricultural and Food Engineering | MNR 002:Agricultural Policy: Formulation, Components, Process, Implementation and Comparative Analysis | Dr. Praveen Kumar Jain         | IGNOU                      | PG                   | 4             |
| 23      | Agricultural and Food Engineering | MNRE 015: Cooperatives and Farmers' Organizations  | Dr. Praveen Kumar Jain         | IGNOU                      | PG                   | 4             |
| 24      | Agricultural and Food Engineering | MNRE 016:Project Analysis  | Dr. Praveen Kumar Jain         | IGNOU                      | PG                   | 4             |
| 25      | Multidisciplinary                 | BHC-013: Event Coordination and Control  | Dr. Meenu Verma                | IGNOU                      | UG                   | 4             |
| 26      | Agricultural and Food Engineering | Introduction to Poultry Farming  | Dr. P. Vijayakumar             | IGNOU                      | Continuing Education | 2             |

| Sr. No. | Subject / Discipline                                 | Course Title                                      | Name of the Course Coordinator         | Host University /Institute | Level of the Course | No of Credits |
|---------|--|---|--|----------------------------|---------------------|---------------|
| 27      | Biological Sciences & Bioengineering                 | Sustainable Management of Biodiversity            | Prof. Shachi Shah                      | IGNOU                      | Diploma             | 4             |
| 28      | Teacher Education                                    | Design and Facilitation of E-Learning Courses     | Dr. G. Mythili                         | IGNOU                      | Diploma             | 4             |
| 29      | Library and Information Sciences                     | Database and Content Organisation                 | Prof. V. V. Subrahmanyam               | IGNOU                      | Diploma             | 4             |
| 30      | Multidisciplinary                                    | MSD-011: Sustainability Science                   | Dr. Y.S.C. Khuman                      | IGNOU                      | PG                  | 4             |
| 31      | Multidisciplinary                                    | MSD-016: Strategies and Models for Sustainability | Dr. Y.S.C. Khuman and Dr. Rita Chauhan | IGNOU                      | PG                  | 4             |
| 32      | Multidisciplinary                                    | MSD-017: Challenges to Sustainable Development    | Dr. Deeksha Dave and Dr. Y.S.C. Khuman | IGNOU                      | PG                  | 4             |
| 33      | Metallurgy and Material science & Mining Engineering | Material Science                                  | Dr. Shashank Shrivastava               | IGNOU                      | UG                  | 3             |
| 34      | Multidisciplinary                                    | MJM-024: Media, Information and Empowerment       | Prof. K. S. Arul Selvan                | IGNOU                      | PG                  | 4             |
| 35      | Multidisciplinary                                    | MJM028: Digital Media                             | Prof. K. S. Arul Selvan                | IGNOU                      | PG                  | 4             |

| Sr. No. | Subject / Discipline           | Course Title   | Name of the Course Coordinator | Host University /Institute | Level of the Course | No of Credits |
|---------|--------------------------------|--|--------------------------------|----------------------------|---------------------|---------------|
| 36      | Multidisciplinary              | MJM029: Advertising and Public Relations                 | Ms. Padmini Jain               | IGNOU                      | PG                  | 4             |
| 37      | Management Studies             | MS-21: Social Processes and Behaviour Issues             | Dr. Nayantara Padhi            | IGNOU                      | PG                  | 6             |
| 38      | Teacher Education              | MDE-518: Educational Communication Technologies          | Dr. G. Mythili                 | IGNOU                      | PG                  | 8             |
| 39      | Mechanical Engineering         | BME-025: Condition Monitoring and Maintenance Management | Prof. N. Venkateshwarlu        | IGNOU                      | UG                  | 2             |
| 40      | Multidisciplinary              | OEY-002: Renewable Energy Technology and Their Uses      | Prof. Sanjay Agarwal           | IGNOU                      | Certificate         | 4             |
| 41      | Humanities and Social Sciences | MHD-01: आदिकालीन एवं मध्यकालीन हिन्दी काव्य              | Dr. Rita Sinha                 | IGNOU                      | PG                  | 4             |
| 42      | Humanities and Social Sciences | MHD-07: भाषा विज्ञान और हिन्दी भाषा                      | प्रो. नरेंद्र मिश्र            | IGNOU                      | PG                  | 4             |
| 43      | Multidisciplinary              | TS-4: Indian Culture: Perspective for Tourism            | Dr. Arvind Kumar Dubey         | IGNOU                      | UG                  | 8             |
| 44      | Multidisciplinary              | TS-5: Ecology, Environment and Tourism                   | Dr. Paramita Suklabaidya       | IGNOU                      | UG                  | 8             |

| Sr. No. | Subject / Discipline             | Course Title   | Name of the Course Coordinator                 | Host University /Institute | Level of the Course | No of Credits |
|---------|----------------------------------|--|--|----------------------------|---------------------|---------------|
| 45      | Library and Information Sciences | BLIE-226 Management of Library and Information Centre            | Prof. Archana Shukla                           | IGNOU                      | PG                  | 4             |
| 46      | Library and Information Sciences | BLIE-227 Document Processing Practice                            | Prof. Uma Kanjilal                             | IGNOU                      | PG                  | 4             |
| 47      | Library and Information Sciences | BLIE-228 Information Products and Services                       | Prof. Archana Shukla and Dr. Pawan Kumar Saini | IGNOU                      | PG                  | 4             |
| 48      | Library and Information Sciences | BLIE-229 ICT in Libraries  | Prof. Uma Kanjilal                             | IGNOU                      | UG                  | 4             |
| 49      | Teacher Education                | Selection and Integration of Technology in Educational Processes | Dr. Ajit Kumar C.                              | IGNOU                      | Diploma             | 6             |
| 50      | Multidisciplinary                | Ethics: Theories and Applications                                | Prof. Nandini Sinha Kapur                      | IGNOU                      | Certificate         | 4             |
| 51      | Multidisciplinary                | Introduction to Climate Change                                   | Dr. V. Venkat Raman                            | IGNOU                      | PG                  | 4             |
| 52      | Multidisciplinary                | Communication and Extension for Sustainable Development          | Prof. Heena K. Bijli                           | IGNOU                      | PG                  | 4             |
| 53      | Humanities and Social Sciences   | Indian Poetics   | Prof. Ami Upadhyay                             | BAOU, Ahmedabad, Gujrat    | Certificate         | 4             |
| 54      | Language                         | BMYLA-135 : Modern Indian Language: Malayalam                    | Dr. Malathy A                                  | IGNOU                      | Certificate         | 6             |



| Sr. No. | Subject / Discipline           | Course Title   | Name of the Course Coordinator | Host University /Institute | Level of the Course | No of Credits |
|---------|--------------------------------|--|--------------------------------|----------------------------|---------------------|---------------|
| 55      | Humanities and Social Sciences | MSO-003: Sociology of Development                    | Dr. Deepak Paliwal             | IGNOU                      | PG                  | 8             |
| 56      | Humanities and Social Sciences | MSO-004: Sociology in India                          | Dr. Deepak Paliwal             | IGNOU                      | PG                  | 8             |
| 57      | Humanities and Social Sciences | MHD-14 Hindi Upanyas-1 (Premchand Vishesh)           | प्रो. नरेंद्र मिश्र            | IGNOU                      | PG                  | 4             |
| 58      | Humanities and Social Sciences | MHD-15 Hindi Upanyas-2                               | डॉ. रीता सिन्हा                | IGNOU                      | PG                  | 4             |
| 59      | Multidisciplinary              | TS-7: Human Resource Development                     | Dr. Jatashankar Tewari         | IGNOU                      | PG                  | 8             |
| 60      | Education                      | MDE-412: Instructional Design                        | Dr. Anita Priyadarshini        | IGNOU                      | PG                  | 6             |
| 61      | Multidisciplinary              | Skill Development of the youths and their Livelihood | Dr. Ritimoni Bordoloi          | KKHSOU, Guwahati           | Certificate         | 4             |
| 62      | Language                       | OUL - 003 History of Urdu Language & Literature      | Dr. Ahmad Ali Jauher           | IGNOU                      | Diploma             | 8             |
| 63      | Language                       | OULE - 001 Contemporary Urdu Poetry                  | Dr. Liaqat Ali                 | IGNOU                      | Diploma             | 4             |
| 64      | Language                       | OULE - 002 Contemporary Urdu Fiction                 | Dr. Dharmveer Singh            | IGNOU                      | Diploma             | 4             |
| 65      | Continuing Education           | Satat Vikas ke Liye Sampreshan evam Vistar           | Dr. Suman Singh                | IGNOU                      | PG                  | 4             |

| Sr. No. | Subject / Discipline  | Course Title   | Name of the Course Coordinator    | Host University /Institute | Level of the Course | No of Credits |
|---------|-----------------------|--|-----------------------------------|----------------------------|---------------------|---------------|
| 66      | Teacher Education     | BES-143: Pedagogy of Mathematics                       | Dr. Anjali Suhane                 | IGNOU                      | UG                  | 4             |
| 67      | Language              | BSKC-102: Sanskrit Sahitya ka Allochanatmak Vishleshan | Prof. Kaushalya                   | IGNOU                      | Diploma             | 6             |
| 68      | Multidisciplinary     | Development of Online Courses for SWAYAM               | Dr. Jeetendra Pande               | UOU,<br>Haldawani          | UG                  | 0             |
| 69      | Multidisciplinary     | MSD 019: Global Strategies to Sustainable Development  | Dr. Y. S. C. Khuman               | IGNOU                      | PG                  | 4             |
| 70      | Journalism            | Media and Information Literacy for Techers             | Prof. K. S. Arul Selvan           | IGNOU                      | UG                  | 4             |
| 71      | Humanities (Language) | Assamese Poetry: From Ancient to Modern Period         | Prof. Pranjit Bora                | KKHSOU,<br>Guwahati        | UG                  | 4             |
| 72      | Multidisciplinary     | MJM024: Media, Information and Empowerment (Tamil)     | Prof. K S Arul Selvan             | IGNOU                      | PG                  | 4             |
| 73      | Multidisciplinary     | MJM024: Media, Information and Empowerment (Hindi)     | Dr. Ramesh Yadav & Dr. Amit Kumar | IGNOU                      | PG                  | 4             |
| 74      | Language              | MEG-07: Indian English Literature                      | Dr. Anamika Shukla                | IGNOU                      |                     | 8             |
| 75      | Multidisciplinary     | Domestic Equipment Maintenance                         | Dr. Antara Mahanta Barua          | KKHSOU,<br>Guwahati        | Diploma             | 4             |

| Sr. No. | Subject / Discipline                                 | Course Title                                      | Name of the Course Coordinator                   | Host University /Institute | Level of the Course | No of Credits |
|---------|--|---|--|----------------------------|---------------------|---------------|
| 76      | Sociology  | Sociology of Health and Illness                   | Dr Gargi Gayan                                   | KKHSOU, Guwahati           | Certificate         | 4             |
| 77      | Humanities and Social Sciences                       | Essentials of Indian Philosophy                   | Dr. Bhaskar Bhattacharyya, Dr. Tejasha Kalita    | KKHSOU, Guwahati           | UG                  | 4             |
| 78      | Education/Teacher Education                          | Reading and Reflecting on Text                    | Dr. Papiya Upadhyay                              | NSOU, Kolkata              | UG                  | 2             |
| 79      | Energy and Environmental Engg. Department            | Emerging Technologies in Renewable Energy Sources | Dr Sanjay Agrawal, Dr. Manoj Verma               | CSVТУ, Bhillai             | Diploma             | 4             |
| 80      | Energy and Environmental Engg. Department            | Power Generation Technologies                     | Dr Sanjay Agrawal; Dr Harish Ku Ghrilahre        | CSVТУ, BHILAI              | Diploma             | 4             |
| 81      | Department of Mining Engineering                     | Elements of Underground and Opencast Mining       | Dr P.K.Ghosh; Govinda Gahine; Himanshu Sahu      | CSVТУ, BHILAI              | Diploma             | 4             |
| 82      | Biomedical and Bioinformatics Department             | Fundamentals of Computational Biology             | Dr Tanushree Chatterjee; Dr R G Brajesh          | CSVТУ, BHILAI              | Diploma             | 4             |
| 83      | Biomedical Engineering and Bioinformatics Department | Genetic Engineering and Its Recent Advancements   | Dr Tanushree Chatterjee; Dr. Sharmistha Banerjee | CSVТУ, BHILAI              | Diploma             | 4             |

| Sr. No. | Subject / Discipline                                 | Course Title  | Name of the Course Coordinator         | Host University /Institute | Level of the Course | No of Credits |
|---------|--|---|--|----------------------------|---------------------|---------------|
| 84      | Biomedical Engineering and Bioinformatics Department | Computational Protein Modeling and Analysis                 | Prof. Dr. M. K. Verma; Dr Ashish Patel | CSVTU, BHILAI              | Diploma             | 4             |
| 85      | Humanities and Social Sciences                       | ORU-001- Basics of Russian: Communication Skills-I          | Dr. Shivaji Bhaskar                    | IGNOU                      | Diploma             | 8             |
| 86      | Language   | BAL-001: Basics Of Arabic                                   | Dr. Mohammad Saleem                    | IGNOU                      | Diploma             | 8             |
| 87      | Language   | BAL-002: Communication Skills (Arabic)                      | Dr. Mohammad Saleem                    | IGNOU                      | Diploma             | 8             |
| 88      | Computer Science and Engineering                     | CIT-001: Fundamentals of Computer Systems                   | Dr. Mangala Prasad Mishra              | IGNOU                      | UG                  | 4             |
| 89      | Computer Science and Engineering                     | CIT-002: Introduction to Information Technology             | Shri. Akshay Kumar                     | IGNOU                      | UG                  | 4             |
| 90      | Computer Science and Engineering                     | CIT-003: Web Based Technologies and Multimedia Applications | Prof. P. Venkata Suresh                | IGNOU                      | UG                  | 4             |
| 91      | Library and Information Sciences                     | BLI-224: ICT Fundamentals                                   | Prof. Uma Kanjilal                     | IGNOU                      | PG                  | 4             |

| Sr. No. | Subject / Discipline              | Course Title  | Name of the Course Coordinator | Host University /Institute | Level of the Course | No of Credits |
|---------|-----------------------------------|---|--------------------------------|----------------------------|---------------------|---------------|
| 92      | Library and Information Sciences  | BLI-225: Communication Skills (Library Information Science) | Prof. Zuchamo Yanthan          | IGNOU                      | PG                  | 4             |
| 93      | Multidisciplinary                 | BHC-011: Basics of Event Management                         | Prof. Heena K Bijli            | IGNOU                      | UG                  | 4             |
| 94      | Multidisciplinary                 | BHC-012: Event Planning                                     | Prof. Heena K Bijli            | IGNOU                      | UG                  | 4             |
| 95      | Agricultural and Food Engineering | Food laws and standards                                     | Dr. Mitasinhmahapatra          | IGNOU                      | Diploma             | 4             |
| 96      | Agricultural and Food Engineering | Certificate course in Environmental Sustainability          | Dr. M. Rajesh                  | IGNOU                      | Diploma             | 4             |
| 97      | Agricultural and Food Engineering | Awareness Programme on Solar Water Pumping System           | Dr. Mukesh Kumar               | IGNOU                      | UG                  | 0             |
| 98      | Agricultural and Food Engineering | Commercial Fruit Production: Pomegranate & Guava            | Dr. Madhuri Shrikant Sonawane  | YCMOU, Nashik, Maharashtra | Diploma             | 1             |
| 99      | Commerce                          | Introduction to GST   | Dr. Anirban Ghosh              | NSOU, Kolkata              | Diploma             | 4             |
| 100     | Computer Science and Engineering  | Introduction to Cyber Security                              | Dr. Jeetendra Pande            | UOU, Haldawani             | UG                  | 4             |
| 101     | Library and Information Sciences  | Library Automation and Digitisation                         | Prof. Uma Kanjilal             | IGNOU                      | Diploma             | 4             |
| 102     | Teacher Education                 | BES 123: Teaching and Learning                              | Dr. Anjali Suhane              | IGNOU                      | UG                  | 4             |

| Sr. No. | Subject / Discipline                                   | Course Title                                    | Name of the Course Coordinator            | Host University /Institute | Level of the Course | No of Credits |
|---------|--|---|---|----------------------------|---------------------|---------------|
| 103     | Teacher Education                                      | BES 141: Pedagogy of Science                    | Dr. Anjali Suhane                         | IGNOU                      | UG                  | 4             |
| 104     | Teacher Education                                      | BES-125: Understanding Disciplines and Subjects | Dr. Niradhar Dey                          | IGNOU                      | UG/PG               | 2             |
| 105     | Multidisciplinary                                      | MSD-012: Ecosystem and Natural Resources        | Dr. Y.S.C. Khuman and Dr. Jagdamba Prasad | IGNOU                      | PG                  | 4             |
| 106     | Mechanical Engineering                                 | Thermodynamics & its Application                | Dr. Shweta Tripathi                       | IGNOU                      | UG                  | 2             |
| 107     | Electrical, Electronics and Communications Engineering | Electricity & Safety Measures                   | Prof. Rakhi Sharma                        | IGNOU                      | Diploma             | 4             |
| 108     | Mechanical Engineering                                 | Energy Resources and conversion processes       | Dr. Shweta Tripathi                       | IGNOU                      | Diploma             | 4             |
| 109     | Electrical, Electronics and Communications Engineering | Principle of Electrical Sciences                | Prof. Sanjay Agrawal                      | IGNOU                      | UG                  | 4             |
| 110     | Mechanical Engineering                                 | Quality Engineering & Management                | Prof. N.Venkateshwarlu                    | IGNOU                      | UG                  | 4             |
| 111     | Civil Engineering                                      | Pollutants and Water Supply                     | Dr. Anuj Kumar Purwar                     | IGNOU                      | UG                  | 4             |
| 112     | Civil Engineering                                      | Concrete Technology                             | Dr. Munish Bharadwaj                      | IGNOU                      | Diploma             | 2             |

| Sr. No. | Subject / Discipline           | Course Title   | Name of the Course Coordinator                | Host University /Institute | Level of the Course | No of Credits |
|---------|--------------------------------|--|---|----------------------------|---------------------|---------------|
| 113     | Mechanical Engineering         | CAD/CAM<br>Computer Aided Design / Computer Aided Manufacturing    | Prof. K.T. Mannan                             | IGNOU                      | Diploma             | 2             |
| 114     | Commerce                       | BCOC-131- Financial Accounting                                     | Dr. N. Rajendra Prasad                        | IGNOU                      | UG                  | 6             |
| 115     | Commerce                       | MCO-05-Accounting for Managerial Decisions                         | Dr. N. Rajendra Prasad                        | IGNOU                      | PG                  | 6             |
| 116     | Humanities and Social Sciences | BMS001: Introduction to NGO Management                             | Prof. Neeti Agrawal and Prof. Nayantara Padhi | IGNOU                      | Diploma             | 4             |
| 117     | Management Studies             | MS 2: Management of Human Resources                                | Prof. Nayantara Padhi                         | IGNOU                      | PG                  | 6             |
| 118     | Environmental Sciences         | MEV-002: Environmental Occupational Hazards                        | Dr. Sushmitha Baskar and Prof. Boyina Rupini  | IGNOU                      | Certificate         | 4             |
| 119     | Environmental Sciences         | MEVE-001: Environmental Impact Assessment for Environmental Health | Prof. Boyina Rupini and Dr. Sushmitha Baskar  | IGNOU                      | Certificate         | 4             |
| 120     | Commerce                       | BCOE-141: Principles of Marketing                                  | Dr. Anupriya Pandey                           | IGNOU                      | UG                  | 6             |

| Sr. No. | Subject / Discipline           | Course Title  | Name of the Course Coordinator                | Host University /Institute | Level of the Course | No of Credits |
|---------|--------------------------------|---|---|----------------------------|---------------------|---------------|
| 121     | Commerce                       | BCOS-183: Computer Application in Business                  | Prof. Subodh Kesharwani                       | IGNOU                      | UG                  | 4             |
| 122     | Commerce                       | MCO-03: Research Methodology and Statistical Analysis       | Prof. Subodh Kesharwani                       | IGNOU                      | PG                  | 6             |
| 123     | Management Studies             | BMS-002: Management Functions                               | Prof. Neeti Agrawal and Prof. Nayantara Padhi | IGNOU                      | Certificate         | 4             |
| 124     | Management Studies             | BCOC-132: Business Organisation and Management              | Prof. Nawal Kishor                            | IGNOU                      | UG/PG               | 6             |
| 125     | Humanities and Social Sciences | BEDS-001: Overview and Perspectives of Values               | Dr. Grace Don Nemching                        | IGNOU                      | Certificate         | 4             |
| 126     | Humanities and Social Sciences | BGSE-001: Gender Sensitisation: Society, Culture and Change | Prof. Nilima Srivastav and Dr. G. Uma         | IGNOU                      | Diploma             | 8             |
| 127     | Humanities and Social Sciences | BFLI 001: PARLER DE SOI / Talking About Oneself (French)    | Dr. Deepanwita Srivastava                     | IGNOU                      | Diploma             | 3             |
| 128     | Civil Engineering              | ET-523 C: Repair and Maintenance of Buildings               | Dr. M.K. Bhardwaj                             | IGNOU                      | UG/PG               | 3             |
| 129     | Humanities and Social Sciences | BEDS-002: Socio-Psychological Basis                         | Dr. Grace Don Nemching                        | IGNOU                      | Certificate         | 4             |



| Sr. No. | Subject / Discipline           | Course Title  | Name of the Course Coordinator | Host University /Institute | Level of the Course | No of Credits |
|---------|--------------------------------|---|--------------------------------|----------------------------|---------------------|---------------|
| 130     | Humanities and Social Sciences | BFLI-002: FRENCH Échanger / Interactions (French)                 | Dr. Deepanwita Srivastava      | IGNOU                      | Diploma             | 3             |
| 131     | Teacher Education              | BES-127:Assessment for Learning                                   | Dr. Niradhar Dey               | IGNOU                      | UG                  | 4             |
| 132     | Language                       | Mandarin (Chinese) for beginners                                  | Dr. Deepanvita Srivastava      | IGNOU                      | Diploma             | 4             |
| 133     | Multidisciplinary              | Cyber Security, Tools, Techniques and Counter Measures            | Prof. Dr. Nilesh K Modi        | BAOU, Ahmedabad, Gujrat    | Certificate         | 4             |
| 134     | Multidisciplinary              | Android Mobile Application Development                            | Dr. Himanshu N. Patel          | BAOU, Ahmedabad, Gujrat    | Certificate         | 4             |
| 135     | Commerce                       | BCOS-184 E-Commerce   | Prof. Subodh Kesharwani        | IGNOU                      | PG                  | 4             |
| 136     | Civil Engineering              | ET 581 B -Inventory and Store Management in Construction Industry | Prof. Ashish Agrwal            | IGNOU                      | Certificate         | 2             |
| 137     | Education                      | BESC-132: Structure and Management of Education                   | Dr. Ajay Kumar Singh           | IGNOU                      | UG                  | 6             |
| 138     | Education                      | BES-121: Childhood and Growing Up                                 | Dr. Elizabeth Kurruvilla       | IGNOU                      | UG                  | 4             |
| 139     | Computer Science               | Digital Forensics   | Dr. Jeetendra Pandey           | UOU, Haldawani             | PG                  | 4             |

| Sr. No. | Subject / Discipline | Course Title                                      | Name of the Course Coordinator                                   | Host University /Institute    | Level of the Course | No of Credits |
|---------|----------------------|---|--|-------------------------------|---------------------|---------------|
| 140     | Interdisciplinary    | BGS-011: Understanding Gender and Law             | Dr. Smita M. Patil and Dr. Gurmeet Kaur                          | IGNOU                         | Certificate         | 4             |
| 141     | Multidisciplinary    | BFDI-072: Basics of Pattern Making and Sewing     | Prof. A. K. Gaba assisted by Dr. Divya Ojha (Academic Associate) | IGNOU                         | Certificate         | 4             |
| 142     | Law                  | CPI-101: Consumer Protection Legislation          | Dr. Gurmeet Kaur   | IGNOU                         | Certificate         | 4             |
| 143     | Commerce             | BCOC-134 Business Mathematics and Statistics      | Dr. Anupriya Pandey  | IGNOU                         | UG                  | 6             |
| 144     | Commerce             | BCOC-136 Income Tax Law and Practice              | Dr. Madhulika P. Sarkar  | IGNOU                         | UG                  | 6             |
| 145     | Commerce             | BCOLA-138 Business Communication                  | Dr. Rashmi Bansal  | IGNOU                         | UG                  | 6             |
| 146     | Language             | BSL-001: Basics of Spanish Language and Culture-I | Vikash Kumar Singh   | IGNOU                         | UG                  | 8             |
| 147     | Multidisciplinary    | Research Ethics and Plagiarism                    | Dr. Gaurav Singh   | Central University of Haryana | PG                  | 2             |
| 148     | Health Sciences      | CFN-1 You and Your Food                           | Prof. Deeksha Kapur  | IGNOU                         | Certificate         | 6             |
| 149     | Health Sciences      | CFN-2 Your Food and Its Utilization               | Prof. Deeksha Kapur  | IGNOU                         | Certificate         | 6             |
| 150     | Health Sciences      | CFN-3 Economics of Food                           | Prof. Deeksha Kapur  | IGNOU                         | Certificate         | 4             |

| Sr. No. | Subject / Discipline | Course Title  | Name of the Course Coordinator                | Host University /Institute | Level of the Course | No of Credits |
|---------|----------------------|---|---|----------------------------|---------------------|---------------|
| 151     | Language             | BSL-002 Basics of Spanish Language and Culture-II     | Dr. Vikash Kumar Singh                        | IGNOU                      | Certificate         | 8             |
| 152     | Education            | BESC-131: Education: Concept, Nature and Perspectives | Dr. Niradhar Dey                              | IGNOU                      | UG                  | 6             |
| 153     | Multidisciplinary    | Enhancing Study Skills                                | Dr. P. Lakshmi; Dr. G. Mythili                | IGNOU                      | UG                  | 2             |
| 154     | Language             | DCE- 01: General Principles of Writing                | Dr. Anamika Shukla and Dr. Rajesh Kumar       | IGNOU                      | Diploma             | 4             |
| 155     | Language             | DCE- 02: Feature Writing                              | Dr. Rajesh Kumar; Dr. Anamika Shukla          | IGNOU                      | Diploma             | 4             |
| 156     | Language             | DCE- 03: Short Story                                  | Dr. Rajesh Kumar; Dr. Anamika Shukla          | IGNOU                      | Diploma             | 4             |
| 157     | Language             | DCE- 04: Writing for Media: Radio and Television      | Dr. Rajesh Kumar; Dr. Anamika Shukla          | IGNOU                      | Diploma             | 4             |
| 158     | Language             | DCE- 05: Writing Poetry                               | Dr. Anamika Shukla and Dr. Rajesh Kumar       | IGNOU                      | Diploma             | 4             |
| 159     | Language             | BSKLA-135: Sanskrit Bhasha aur Sahitya                | Dr. Soniya                                    | IGNOU                      | UG                  | 6             |
| 160     | Psychology           | BPCE-145: Counselling Psychology                      | Prof. Swati Patra and Dr. Ashwini Kumar       | IGNOU                      | UG                  | 6             |
| 161     | Psychology           | Statistics in Psychology                              | Dr. Ashwini Kumar and Prof. Suhas Shetgovekar | IGNOU                      | UG                  | 4             |

| Sr. No. | Subject / Discipline                     | Course Title   | Name of the Course Coordinator             | Host University /Institute                  | Level of the Course | No of Credits |
|---------|--|--|--|---|---------------------|---------------|
| 162     | Commerce                                 | BCOC-133: Business Law                               | Dr. N. Rajendra Prasad                     | IGNOU                                       | UG                  | 6             |
| 163     | Education                                | Foundations of Heutagogy                             | Dr. Papiya Upadhyay                        | NSOU, Kolkata                               | UG                  | 0             |
| 164     | Multidisciplinary                        | Introduction to Online Learning in Higher Education  | Dr. Ashish Kumar Awadhiya                  | IGNOU                                       | UG                  | 0             |
| 165     | Multidisciplinary                        | Research and Publication Ethics (RPE)                | Prof. Anirban Ghosh                        | NSOU, Kolkata                               | PG                  | 2             |
| 166     | Education                                | Guidance and Counselling in Schools                  | Dr. Pranab Saikia                          | KKHSOU, Guwahati                            | UG                  | 4             |
| 167     | Management Studies                       | BCOE-144 Office Management and Secretarial Practices | Prof. Subodh Kesharwani                    | IGNOU                                       | UG                  | 6             |
| 168     | Teacher Education                        | BES-122: Contemporary India and Education            | Dr. Niradhar Dey and Dr. Neel Kamal Sharan | IGNOU                                       | UG                  | 4             |
| 169     | Certificate                              | Introduction to Virtual Reality                      | Dr R C Sharma                              | Dr B R Ambedkar University Delhi, New Delhi | UG                  | 4             |
| 170     | Multidisciplinary                        | Introduction to Functional English                   | Dr. Prasenjit Das                          | KKHSOU, Guwahati                            | UG                  | 4             |
| 171     | Education                                | School Management and Leadership                     | DR. Pranab Saikia, Dr. Arunima Borah       | KKHSOU, Guwahati                            | UG                  | 4             |
| 172     | Biomedical and Bioinformatics Department | Biomedical Instrumentation & Sensors                 | Dr. Piyush Loti & Thaneshwar Ku Sahu       | CSVТУ, Bhilai                               | Diploma             | 4             |

| Sr. No. | Subject / Discipline                         | Course Title   | Name of the Course Coordinator       | Host University /Institute | Level of the Course | No of Credits |
|---------|--|--|--------------------------------------|----------------------------|---------------------|---------------|
| 173     | Computer Science and Engineering             | Data Structure using C Programming                   | Dr Dipti Verma, Mr Aditya Tiwari     | CSVТУ, Bhilai              | Diploma             | 4             |
| 174     | Computer Science and Engineering             | Artificial Intelligence using Prolog Programming     | Mr Ankit Arora, Dr.Madhuri Gupta     | CSVТУ, Bhilai              | Diploma             | 4             |
| 175     | Computer Science and Engineering             | Image Processing Using Python                        | Dr Dipti Verma, Mrs. Bharati Patel   | CSVТУ, Bhilai              | Diploma             | 4             |
| 176     | Industrial Safety and Fire Safety Department | Safety In Construction Industry                      | Dr P.K.Ghosh; Mr. Kundan Chandrakar  | CSVТУ, BHILAI              | Diploma             | 4             |
| 177     | Industrial Safety and Fire Safety Department | Industrial Safety And Fire Safety Management         | Dr P.K.Ghosh; Mrs. Annapurna Adiley  | CSVТУ, BHILAI              | Diploma             | 4             |
| 178     | Microelectronics and VLSI                    | Digital electronic and System design                 | Dr Saji Chako, Dr Amit Singh Rajput  | CSVТУ, BHILAI              | Diploma             | 4             |
| 179     | Microelectronics and VLSI                    | Fundamental of Electronic Engineering                | Mr. Abhijeet Lal, Dr. Onika Parmar   | CSVТУ, BHILAI              | Diploma             | 4             |
| 180     | Energy and Environmental Engg. Department    | Basic Principles of Energy Management & Energy Audit | Dr. R N Patel, Akhilesh Kumar Tiwari | CSVТУ, BHILAI              | Diploma             | 4             |
| 181     | Computer Science and Engineering             | Web Technology                                       | Dr. Ashutosh Kumar Bhatt             | UOU, Haldwani              | UG                  | 4             |
| 182     | Language                                     | MEG-03: British Novel                                | Dr. Malathy A                        | IGNOU                      | PG                  | 8             |

| <b>Sr. No.</b> | <b>Subject / Discipline</b>    | <b>Course Title</b>                            | <b>Name of the Course Coordinator</b> | <b>Host University /Institute</b> | <b>Level of the Course</b> | <b>No of Credits</b> |
|----------------|--------------------------------|--|---------------------------------------|-----------------------------------|----------------------------|----------------------|
| 183            | Language                       | MEG-05: Literary Criticism & Theory            | Dr. Rajesh Kumar                      | IGNOU                             | PG                         | 8                    |
| 184            | Language                       | MEG-10: English Studies in India               | Prof Parmod Kumar                     | IGNOU                             | PG                         | 8                    |
| 185            | Language                       | MEG-06: American Literature                    | Dr. Mridula Rashmi Kindo              | IGNOU                             | PG                         | 8                    |
| 186            | Language                       | MEG-13: Writings from the Margins              | Dr. Mridula Rashmi Kindo              | IGNOU                             | PG                         | 4                    |
| 187            | Commerce                       | Micro Economics for Business                   | Dr. Sumit Prasad                      | UOU, Haldwani                     | UG                         | 4                    |
| 188            | Multidisciplinary              | Digital Media Literacy                         | Prof. K. S. Arulsevan                 | IGNOU                             | PG                         | 4                    |
| 189            | Education                      | BESE-141- ICT in Education                     | Dr. Ajith Kumar C                     | IGNOU                             | UG                         | 4                    |
| 190            | Humanities and Social Sciences | Population and Society                         | Dr. Dola Borkataki                    | KKHSOU,<br>Guwahati               | UG                         | 4                    |
| 191            | Multidisciplinary              | Introduction to Distance and Digital Education | Dr. Ritimoni Bordoloi                 | KKHSOU,<br>Guwahati               | PG                         | 4                    |

### List of January 2024 Semester Course – IIMB

| Sr. No. | Subject    | Course Title   | Name of the Course Coordinator                       | Host University/Institute | Level UG/PG | No of credit of the course |
|---------|------------|--|--|---------------------------|-------------|----------------------------|
| 1       | Management | Platform Business Models                                     | Srinivasan R   | IIMB                      | PG          | 3                          |
| 2       | Management | Advanced Corporate Strategy                                  | Srinivasan R   | IIMB                      | PG          | 3                          |
| 3       | Management | Arts and Culture: Towards a New Management Paradigm          | A Damodaran  | IIMB                      | PG          | 3                          |
| 4       | Management | Banking and Financial Markets: A Risk Management Perspective | P C Narayan  | IIMB                      | PG          | 3                          |
| 5       | Management | Customer Relationship Management                             | Shainesh G   | IIMB                      | PG          | 3                          |
| 6       | Management | Economic foundations of Pricing                              | Sreelata Jonnalagedda                                | IIMB                      | PG          | 3                          |
| 7       | Management | Effective Business Communication                             | Bringi Dev; and Rakesh Godhwani                      | IIMB                      | PG          | 3                          |
| 8       | Management | Financial Accounting and Analysis                            | Padmini Srinivasan                                   | IIMB                      | PG          | 3                          |
| 9       | Management | Introduction to Banking and Financial Markets                | P C Narayan  | IIMB                      | PG          | 3                          |
| 10      | Management | Introduction to Managerial Economics                         | Subhashish Gupta                                     | IIMB                      | PG          | 3                          |
| 11      | Management | Managing Innovation  | Rishikesha Krishnan; and Vinay Dabholkar             | IIMB                      | PG          | 3                          |
| 12      | Management | New Product Development                                      | Ganesh Prabhu  | IIMB                      | PG          | 3                          |
| 13      | Management | Operation Management   | B Mahadevan  | IIMB                      | PG          | 3                          |
| 14      | Management | Predictive Analytics   | Dinesh Kumar   | IIMB                      | PG          | 3                          |
| 15      | Management | Quantitative Marketing Research                              | Prithwiraj Mukherji                                  | IIMB                      | PG          | 3                          |
| 16      | Management | Services Marketing: Concepts & Applications                  | Shainesh G   | IIMB                      | PG          | 3                          |
| 17      | Management | Strategic Management   | PD Jose; Rejie George; and Sai Yayavaram             | IIMB                      | PG          | 3                          |
| 18      | Management | Valuation and Creating Sustainable value                     | Padmini Srinivasan                                   | IIMB                      | PG          | 3                          |
| 19      | Management | Brand Management   | Preeti Krishnan Lyndem                               | IIMB                      | PG          | 3                          |
| 20      | Management | Concepts and Applications in Engineering                     | Venkata Raghavan,Dr. Vinayak Rajat Bhat,B. Mahadevan | IIMB                      | PG          | 4                          |
| 21      | Management | Concepts and Applications in Science                         | Venkata Raghavan,Dr. Vinayak Rajat Bhat,B. Mahadevan | IIMB                      | PG          | 4                          |

| Sr. No. | Subject    | Course Title   | Name of the Course Coordinator                       | Host University/Institute | Level UG/PG | No of credit of the course |
|---------|------------|--|--|---------------------------|-------------|----------------------------|
| 22      | Management | Humanities and Social Sciences.                        | Venkata Raghavan,Dr. Vinayak Rajat Bhat,B. Mahadevan | IIMB                      | PG          | 4                          |
| 23      | Management | People Management for Entrepreneurs                    | Vasanthi Srinivasan                                  | IIMB                      | PG          | 3                          |
| 24      | Management | Foreign Exchange market                                | P C Narayan  | IIMB                      | PG          | 3                          |
| 25      | Management | Organizational Design                                  | Sourav Mukherji                                      | IIMB                      | PG          | 3                          |
| 26      | Management | Equity Stock Market                                    | P C Narayan  | IIMB                      | PG          | 3                          |
| 27      | Management | Marketing Management                                   | Ashis Mishra   | IIMB                      | PG          | 3                          |
| 28      | Management | Macroeconomics   | Rupa   | IIMB                      | PG          | 3                          |
| 29      | Management | Family Business  | Prof Kumar & Prof Dalhia                             | IIMB                      | PG          | 0                          |
| 30      | Management | Foundations of Digital Business                        | Prof Rahul De and Others                             | IIMB                      | PG          | 3                          |
| 31      | Management | Foundation of Data Science                             | Dinesh Kumar   | IIMB                      | PG          | 3                          |
| 32      | Management | Innovation and Start up policy                         | Rahul Mishra   | IIMB                      | PG          | 3                          |
| 33      | Management | Business Environment                                   | Chhavi Jain  | IIMB                      | PG          | 4                          |
| 34      | Management | Consumer Buyer Behaviour                               | Ashish Hathi   | IIMB                      | PG          | 3                          |
| 35      | Management | Continuous Quality Improvement: Tools and Techniques   | Sanjeev Singh  | IIMB                      | PG          | 4                          |
| 36      | Management | Total Productive Maintenance                           | Anil Kumar Srivastava                                | IIMB                      | PG          | 4                          |
| 37      | Management | Design Thinking  | Rajeshwari Patil                                     | IIMB                      | PG          | 0                          |
| 38      | Management | Foundations of Marketing Essentials                    | Bharti Singh   | IIMB                      | PG          | 4                          |
| 39      | Management | Quantitative and Mixed Methods Research for Management | R N Subuddhi & Prof Sumita Mishra                    | IIMB                      | PG          | 3                          |
| 40      | Management | Health care Communication                              | Deepthi  | IIMB                      | PG          | 3                          |
| 41      | Management | Prescriptive Analytics                                 | Rajluxmi   | IIMB                      | PG          | 3                          |
| 42      | Management | Evolution of Business and Market                       | Pratikraj  | IIMB                      | PG          | 3                          |
| 43      | Management | Digital Marketing                                      | Shainesh   | IIMB                      | PG          | 3                          |
| 44      | Management | Infrastructure   | Raghuram   | IIMB                      | PG          | 3                          |
| 45      | Management | Advanced Product Quality Planning(APQP)                | Shishir Bharadwaj                                    | IIMB                      | PG          | 3                          |
| 46      | Management | Production Part Approval Process (PPAP)                | Shishir Bharadwaj                                    | IIMB                      | PG          | 4                          |
| 47      | Management | Understanding Organizational Behaviour                 | Sanjay Singh   | IIMB                      | PG          | 3                          |



| Sr. No. | Subject    | Course Title                                | Name of the Course Coordinator   | Host University/Institute | Level UG/PG | No of credit of the course |
|---------|------------|---|--|---------------------------|-------------|----------------------------|
| 48      | Management | Advanced Topics in Organizational Behaviour | Sanjay Singh   | IIMB                      | PG          | 3                          |
| 49      | Management | Behavioural Finance                         | Shikta Singh   | IIMB                      | PG          | 3                          |
| 50      | Management | Banking and Insurance                       | Ruchi Jain   | IIMB                      | PG          | 4                          |
| 51      | Management | Money, Banking & Financial Markets          | Dr. Sujata Kar   | IIMB                      | PG          | 3                          |
| 52      | Management | B2B Marketing                               | Dr. Binod Kumar Sinha, Prof. Dhananjay Kulkarni and Prof. Rajkiran Pund. | IIMB                      | PG          | 0                          |
| 53      | Management | Business Negotiations                       | Dr. Ginni Chawla   | IIMB                      | PG          | 3                          |
| 54      | Management | Business Communication                      | Preetham K   | IIMB                      | PG          | 4                          |
| 55      | Management | Gamification as a Business Strategy         | Dr manish Kumar Srivastava, Dr Vedha Bala Ji, Dr Nishant Kumar           | IIMB                      | PG          | 3                          |
| 56      | Management | HR Analytics Using Excel                    | Dr. Subbulakshmi Somu  | IIMB                      | PG          | 3                          |
| 57      | Management | New Age Business Models                     | K. Ganesh  | IIMB                      | PG          | 3                          |

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

| S.N. | Subject          | Course Title                      | Name of the Course Coordinator  | Host University/Institute   | Level UG/PG       | No of credit of the course |
|------|------------------|-----------------------------------|---|---|-------------------|----------------------------|
| 1    | Buddhist Studies | <b>History of Indian Buddhism</b> | Prof. K.T.S. Sarao,<br>Former Professor,<br>Department of Buddhist Studies,<br>University of Delhi, Delhi                   | Central Institute of Higher Tibetan Studies (CIHTS),<br>Sarnath, Varanasi | UG and PG<br>Both | 4                          |
| 2    | Buddhist Studies | <b>Abhidhamma (Pali)</b>          | Prof. Bimalendra Kumar,<br>Professor, Department of Pāli and Buddhist Studies,<br>Banaras Hindu University,<br>Varanasi     | Central Institute of Higher Tibetan Studies (CIHTS),<br>Sarnath, Varanasi | UG and PG<br>Both | 4                          |
| 3    | Buddhist Studies | <b>Buddhist Philosophy</b>        | Prof. Pradeep Prabhakar Gokhale,<br>Former Professor,<br>Department of Philosophy,<br>Savtribai Phule Pune University, Pune | Central Institute of Higher Tibetan Studies (CIHTS),<br>Sarnath, Varanasi | UG and PG<br>Both | 4                          |

| S.N. | Subject          | Course Title            | Name of the Course Coordinator  | Host University/Institute  | Level UG/PG    | No of credit of the course |
|------|------------------|-------------------------|---|--|----------------|----------------------------|
| 4    | Buddhist Studies | <b>Buddhist Tourism</b> | Dr. Shrikant Ganvir Assistant Professor, Department of Ancient Indian History, Culture and Archaeology, Deccan College Post-Graduate and Research Institute, (Deemed to be University), Pune) | Central Institute of Higher Tibetan Studies (CIHTS), Sarnath, Varanasi | UG and PG Both | 4                          |

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

| S.N. | Subject / Discipline | Course Title                                   | Name of the Course Coordinator | Host University/Institute                             | Level UG/PG | No of credit of the course |
|------|----------------------|--|--------------------------------|---|-------------|----------------------------|
| 1    | Multidisciplinary    | Yoga for Ego Management                        | Dr Divya B R                   | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 2    | Multidisciplinary    | Yoga for IQ Development                        | Dr Jincy Sundaran              | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 3    | Multidisciplinary    | Yoga for Eye Sight Improvement                 | Dr Soubhagyalaxmi              | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 4    | Multidisciplinary    | Yoga for Anger Management                      | Dr Arundhati Goley             | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 5    | Multidisciplinary    | Yoga for Concentration                         | Dr Apar Saoji                  | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 6    | Multidisciplinary    | Yoga for Memory Development                    | Dr Deepeshwar Singh            | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 7    | Multidisciplinary    | Yoga for Physical Stamina                      | Dr Vikas Rawat                 | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 8    | Multidisciplinary    | Yoga for Voice Culture                         | Dr Arundhati Goley             | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 9    | Multidisciplinary    | Yoga for Creativity                            | Dr Ganga K V                   | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 10   | Multidisciplinary    | Yoga for Stress Management                     | Dr Rajesh Nair                 | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 11   | Multidisciplinary    | Yoga Volunteers for Diabetes Management Part 1 | Dr Vidyashree M                | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 12   | Multidisciplinary    | Yoga Volunteers for Diabetes Management Part 2 | Dr Vidyashree M                | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |

| S.N. | Subject / Discipline | Course Title   | Name of the Course Coordinator            | Host University/Institute                             | Level UG/PG | No of credit of the course |
|------|----------------------|--|---|---|-------------|----------------------------|
| 13   | Multidisciplinary    | Yoga Volunteers for Hypertension / Heart Disease Part 1            | Dr Ranjita R                              | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 14   | Multidisciplinary    | Yoga Volunteers for Hypertension / Heart Disease Part 2            | Dr Ranjita R                              | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 15   | Multidisciplinary    | Yoga Volunteers for Palliative Care - Part 1                       | Dr Ritesh C                               | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 16   | Multidisciplinary    | Yoga Volunteers for Palliative Care - Part 2                       | Dr Ritesh C                               | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) | UG          | 4                          |
| 17   | Multidisciplinary    | Introduction to Intellectual Property                              | Prof. Gouri Gargate, KAPILA IPR committee | IIT Kharagpur   | UG & PG     | 3                          |
| 18   | Multidisciplinary    | Basics of Remote Sensing GIS & GNSS and its Applications_July 2023 | Dr. Poonam Seth Tiwari                    | Indian Institute of Remote Sensing                    | UG & PG     | 4                          |

### List of January 2024 Semester Course – NITTTR

| Sr.No. | Subject / Discipline | Course Title   | Name of the Course Coordinator         | Host University/Institute | Level UG/PG          | No of credit of the course |
|--------|----------------------|--|--|---------------------------|----------------------|----------------------------|
| 1      | Teacher Education    | Internet of Things: Design Concepts and Use Cases                                | Prof. Maitreyee Dutta                  | NITTTR                    | PG / UG              | 2                          |
| 2      | Teacher Education    | PLC and Microcontroller (Instruction Medium: Hindi)                              | Dr. Ritula Thakur                      | NITTTR                    | PG /UG               | 3                          |
| 3      | Teacher Education    | Virtual Education  | Prof. Maitreyee Dutta                  | NITTTR                    | Continuing Education | 3                          |
| 4      | Teacher Education    | Resilient Pedagogy   | Dr. Urmila Kar                         | NITTTR                    | Continuing Education | 2                          |
| 5      | Teacher Education    | Institutional Management for Entrepreneurship                                    | Dr. Suresh Kumar Dhameja               | NITTTR                    | Continuing Education | 3                          |
| 6      | Teacher Education    | 3D Printing and Design for Educators   | Dr. Sharad K. Pradhan                  | NITTTR                    | PG / UG              | 2                          |
| 7      | Teacher Education    | Clean, Green and Sustainable Technology  | Dr E.S.M Suresh                        | NITTTR                    | Continuing Education | 3                          |
| 8      | Teacher Education    | Developing Academic Management & Leadership                                      | Prof Aashish Deshpande                 | NITTTR                    | Continuing Education | 2                          |
| 9      | Teacher Education    | Academic Leadership in Cross cultural context of Higher Educational Institutions | Dr. E.S.M. Suresh                      | NITTTR                    | Continuing Education | 3                          |
| 10     | Teacher Education    | Intellectual Property Rights   | Dr. P.K.Purohit                        | NITTTR                    | PG                   | 3                          |
| 11     | Teacher Education    | English for Research Paper Writing   | Dr. K. N. Shobha                       | NITTTR                    | PG                   | 3                          |
| 12     | Teacher Education    | Institutional Management for Entrepreneurship                                    | Prof. S K Dhameja and Prof. Niraj Bala | NITTTR                    | Continuing Education | 3                          |
| 13     | Teacher Education    | Teaching & Learning (TL) Practices for Python Programming                        | Dr. V. Shanmuganeethi                  | NITTTR                    | PG / UG              | 2                          |
| 14     | Teacher Education    | Research Methodology and IPR   | Dr. G. Janardhanan                     | NITTTR                    | PG                   | 3                          |
| 15     | Teacher Education    | Outcome Based Assessment   | Dr. K. S. A. Dinesh Kumar              | NITTTR                    | Continuing Education | 2                          |
| 16     | Teacher Education    | UAV in Engineeirng Applications  | Dr. R. Balasubramanian                 | NITTTR                    | PG                   | 3                          |
| 17     | Teacher Education    | National Education Policy and Institutional Building                             | Dr. G. Janardhanan                     | NITTTR                    | Continuing Education | 1                          |

| Sr.No. | Subject / Discipline | Course Title   | Name of the Course Coordinator                   | Host University/Institute | Level UG/PG          | No of credit of the course |
|--------|----------------------|--|--|---------------------------|----------------------|----------------------------|
| 18     | Teacher Education    | Innovation Driven Entrepreneurship                           | Dr. K.S. Giridharan                              | NITTTR                    | PG                   | 3                          |
| 19     | Teacher Education    | Mentoring and Counselling Skills for teachers                | Dr. S. Renukadevi                                | NITTTR                    | Continuing Education | 3                          |
| 20     | Teacher Education    | Gati Shakti National Masterplan for Multi-modal Connectivity | Dr. Vinod Kumar                                  | NITTTR                    | Continuing Education | 2                          |
| 21     | Teacher Education    | Electric Vehicle Technology for Academia                     | Dr. Rathy and Dr. Suja Mani Malar                | NITTTR                    | PG                   | 2                          |
| 22     | Teacher Education    | ICT in teaching and Learning                                 | Prof. Ravi Kapoor                                | NITTTR                    | PG                   | 2                          |
| 23     | Teacher Education    | Basic Instructional Methods                                  | Prof. Susan S. Mathew                            | NITTTR                    | PG                   | 3                          |
| 24     | Teacher Education    | Advanced Instructional Methods                               | Prof. Asmita A. Khajanchee                       | NITTTR                    | PG / UG              | 3                          |
| 25     | Teacher Education    | Educational Media  | Dr. Sandip S Kedar                               | NITTTR                    | PG / UG              | 3                          |
| 26     | Teacher Education    | Communication Skills Modes & Knowledge                       | Er. Amandeep Kaur                                | NITTTR                    | PG / UG              | 2                          |
| 27     | Teacher Education    | Educational Video Production                                 | Prof. Maitreyee Dutta, Dr. Shyam Sundar Pattnaik | NITTTR                    | Continuing Education | 2                          |
| 28     | Teacher Education    | Learning Management System_MOODLE                            | Dr. V. Shanmuganeethi                            | NITTTR                    | Continuing Education | 3                          |
| 29     | Teacher Education    | Guidance and Counselling                                     | Dr. R. Rajendran                                 | NITTTR                    | PG / UG              | 2                          |
| 30     | Teacher Education    | Technology Enabled learning                                  | Dr. G. Janardhanan                               | NITTTR                    | Continuing Education | 3                          |
| 31     | Teacher Education    | Student Assessment   | Dr. K.S.A. Dinesh Kumar                          | NITTTR                    | Continuing Education | 3                          |
| 32     | Teacher Education    | Student Psychology   | Dr. S. Renukadevi                                | NITTTR                    | PG / UG              | 3                          |
| 33     | Teacher Education    | Quality Assurance through NAAC Accreditation Process         | Dr. E.S.M. Suresh                                | NITTTR                    | Continuing Education | 3                          |
| 34     | Teacher Education    | E-content Development  | Dr. P. Malliga                                   | NITTTR                    | Continuing Education | 3                          |
| 35     | Teacher Education    | Academic and Research Report Writing                         | Dr. Samir Roy                                    | NITTTR                    | PG / UG              | 3                          |
| 36     | Teacher Education    | Entrepreneurship Development                                 | Dr. Suresh K Dhameja                             | NITTTR                    | PG / UG              | 2                          |
| 37     | Teacher Education    | Professional Ethics for Higher Education Teachers            | Prof. Asmita A. Khajanchee                       | NITTTR                    | PG / UG              | 2                          |
| 38     | Teacher Education    | Graphics and Animation Development                           | Er. Shano Solanki                                | NITTTR                    | PG                   | 2                          |

| <b>Sr.No.</b> | <b>Subject / Discipline</b> | <b>Course Title</b>                     | <b>Name of the Course Coordinator</b> | <b>Host University/Institute</b> | <b>Level UG/PG</b> | <b>No of credit of the course</b> |
|---------------|-----------------------------|---|---------------------------------------|----------------------------------|--------------------|-----------------------------------|
| 39            | Teacher Education           | Fundamental of Outcome Based Curriculum | Prof. Susan S. Mathew                 | NITTTR                           | PG                 | 3                                 |
| 40            | Teacher Education           | OER for Empowering teacher              | Mr. Felix Arokiyaraj                  | NITTTR                           | PG                 | 2                                 |