


# DIGIMAT LEARNING MANAGEMENT PLATFORM

(An OER based OFFLINE Video Library + Open e-Learning Platform)

The HTML-5 based Assistive Technology Platform for Streaming  
1,14,371 NPTEL Video Lectures in LAN / WiFi (PCs, Laptops, Smartphones & Tablets)



**YouTube Alternative for Streaming 100,000+ NPTEL Video Lectures in LAN, WiFi Devices**  
Immersive Learning Experience using Assistive Technology  
Choose and Learn in any 12+ Indian Regional Languages

### DIGIMAT - OER INTEGRATED LEARNING MANAGEMENT PLATFORM

Enhanced Assistive Technology support for Students with Learning Disabilities

**HTML**

**Assistive Technology**

**Stream Videos 100,000+**

**SELF Study, Assessment**

**Watch Video W/o Playing**

**YouTube + Local Videos**

**100,000+ Local PDFs**

**Visual Reports**

**Subtitle in 12+ Languages**

**Live Monitoring**

**20 Million+ Thumbnails**

**SAN/NAS based Video Storage**

**Class Room, Hostel Digital Libraries**

Embracing the usage of Technology in the field of Education as per NEP 2020

## National Programme on Technology Enhanced Learning

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### NPTEL Video Courses Information in Supplementary Formats

(Document Last Updated : July 11, 2024)

| No | NPTEL Information Summary                      | Status      | Courses | Lectures |
|----|--|-------------|---------|----------|
| 1  | NPTEL Video Courses (2003 to April 2024)       | Completed   | 2462    | 1,14,371 |
| 2  | NPTEL Video Courses (PDF Transcription)        | Completed   | 2115    | 95,443   |
| 3  | NPTEL Video Courses (English Subtitles)        | Completed   | 2035    | 90,853   |
| 4  | NPTEL Video Courses (Tamil Subtitles)          | Completed   | 2035    | 90,655   |
| 5  | NPTEL Video Courses (July 2024 - October 2024) | New Courses | 101     | ---      |

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## **NPTEL VIDEO COURSES INFORMATION IN SUPPLEMENTARY FORMATS**

**PDF Transcriptions, HTML-5 Support, Video Sub-Titles (for Media Player / Web), Video Size**

**Total NPTEL Video Courses : 2,563 | Total NPTEL Video Lectures : 1,14,371 (Updated: July 11, 2024)**

| <b>No.</b>     | <b>ID</b> | <b>Name of the Engineering Discipline</b> | <b>Total Video Courses</b> | <b>Total Video Lectures</b> | <b>Size (GB)</b> |
|----------------|-----------|---|----------------------------|-----------------------------|------------------|
| 1              | 101       | Aerospace Engineering                     | 61                         | 2,876                       | 893              |
| 2              | 102       | Biotechnology                             | 98                         | 4,265                       | 1,450            |
| 3              | 103       | Chemical Engineering                      | 138                        | 6,287                       | 2,229            |
| 4              | 104       | Chemistry and Biochemistry                | 109                        | 5,072                       | 2,088            |
| 5              | 105       | Civil Engineering                         | 202                        | 9,151                       | 2,707            |
| 6              | 106       | Computer Science and Engineering          | 226                        | 11,192                      | 3,012            |
| 7              | 107       | Engineering Design                        | 19                         | 743                         | 320              |
| 8              | 108       | Electrical Engineering                    | 223                        | 11,689                      | 3,558            |
| 9              | 109       | Humanities and Social Sciences            | 239                        | 9,128                       | 3,206            |
| 10             | 110       | Management                                | 189                        | 8,591                       | 2,148            |
| 11             | 111       | Mathematics                               | 184                        | 8,901                       | 2,261            |
| 12             | 112       | Mechanical Engineering                    | 295                        | 12,117                      | 3,450            |
| 13             | 113       | Metallurgy and Material Science           | 92                         | 3,907                       | 1,165            |
| 14             | 114       | Ocean Engineering                         | 32                         | 1,451                       | 553              |
| 15             | 115       | Physics                                   | 104                        | 4,933                       | 1,502            |
| 16             | 116       | Textile Engineering                       | 15                         | 488                         | 295              |
| 17             | 117       | Electronics and Communication Engineering | 100                        | 4,223                       | 1,088            |
| 18             | 118       | Nanotechnology                            | 2                          | 85                          | 54               |
| 19             | 119       | Atmospheric Science                       | 3                          | 121                         | 51               |
| 20             | 121       | General                                   | 16                         | 372                         | 241              |
| 21             | 122       | Basic Courses (Semester 1 and 2)          | 21                         | 657                         | 170              |
| 22             | 123       | Mining Engineering                        | 7                          | 336                         | 57               |
| 23             | 124       | Architecture                              | 32                         | 1,246                       | 316              |
| 24             | 126       | Agriculture                               | 31                         | 1,664                       | 280              |
| 25             | 127       | Multi-Disciplinary                        | 62                         | 2,541                       | 585              |
| 26             | 128       | Special Lecture Series                    | 33                         | 930                         | 448              |
| 27             | 129       | Law                                       | 14                         | 591                         | 65               |
| 28             | 130       | Economics                                 | 10                         | 548                         | 45               |
| 29             | MED       | Medical Courses                           | 6                          | 266                         | 40               |
| <b>Total :</b> |           |   | <b>2,563</b>               | <b>1,14,371</b>             | <b>34,277</b>    |

| No  | Course ID                 | Lec | Name of the NPTEL Video Course  | PDF | HT5 | VST | SIZE (GB) |
|---|---------------------------|-----|---|-----|-----|-----|-----------|
| <b>Discipline : Aerospace Engineering</b><br><a href="#">Go to Top</a>  |                           |     |   |     |     |     |           |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/aerospace-engineering.pdf">http://www.digimat.in/downloads/topics/aerospace-engineering.pdf</a></b> |                           |     |   |     |     |     |           |
| 1   | <a href="#">101101001</a> | 40  | Introduction to Aerospace Propulsion                                    | Y   | Y   | Y   | 35        |
| 2   | <a href="#">101101002</a> | 42  | Jet Aircraft Propulsion   | Y   | Y   | Y   | 30        |
| 3   | <a href="#">101101058</a> | 40  | Turbomachinery Aerodynamics   | Y   | Y   | Y   | 21        |
| 4   | <a href="#">101104005</a> | 26  | Aero elasticity   | Y   | Y   | Y   | 9.2       |
| 5   | <a href="#">101104013</a> | 40  | Foundation of Scientific Computing                                      | Y   | Y   | Y   | 8.1       |
| 6   | <a href="#">101104015</a> | 39  | Instability and Transition of Fluid Flows                               | Y   | Y   | Y   | 17        |
| 7   | <a href="#">101104017</a> | 26  | Introduction to Helicopter Aerodynamics and Dynamics                    | Y   | Y   | Y   | 16        |
| 8   | <a href="#">101104018</a> | 40  | Introduction to Propulsion  | Y   | Y   | Y   | 16        |
| 9   | <a href="#">101104019</a> | 40  | Jet and Rocket Propulsion   | Y   | Y   | Y   | 15        |
| 10  | <a href="#">101105024</a> | 40  | High Speed Aero Dynamics  | Y   | Y   | Y   | 12        |
| 11  | <a href="#">101105030</a> | 45  | Space Flight Mechanics  | Y   | Y   | Y   | 13        |
| 12  | <a href="#">101105059</a> | 46  | Introduction to Aerodynamics  | Y   | Y   | Y   | 15        |
| 13  | <a href="#">101106031</a> | 41  | Acoustic Instabilities in Aerospace Propulsion                          | Y   | Y   | Y   | 17        |
| 14  | <a href="#">101106033</a> | 42  | Aerospace Propulsion  | Y   | Y   | Y   | 20        |
| 15  | <a href="#">101106042</a> | 41  | Flight Dynamics II (Stability)  | Y   | Y   | Y   | 17        |
| 16  | <a href="#">101106044</a> | 54  | Gas Dynamics  | Y   | Y   | Y   | 24        |
| 17  | <a href="#">101106045</a> | 39  | Introduction to CFD   | Y   | Y   | Y   | 16        |
| 18  | <a href="#">101108047</a> | 40  | Advanced Control System Design for Aerospace Vehicles                   | Y   | Y   | Y   | 19        |
| 19  | <a href="#">101108057</a> | 40  | Optimal Control, Guidance and Estimation                                | Y   | Y   | Y   | 11        |
| 20  | <a href="#">101104061</a> | 48  | NOC:Introduction to Airplane Performance                                | Y   | Y   | Y   | 3.4       |
| 21  | <a href="#">101104062</a> | 60  | NOC:Stability and Control of Aircraft                                   | Y   | Y   | Y   | 4.7       |
| 22  | <a href="#">101106037</a> | 51  | Combustion  | Y   | Y   | Y   | 50        |
| 23  | <a href="#">101104064</a> | 43  | NOC:Aircraft Dynamic Stability and Design Stability Augmentation System | Y   | Y   | Y   | 3.2       |
| 24  | <a href="#">101104063</a> | 38  | NOC:Engineering Thermodynamics (2016)                                   | Y   | Y   | Y   | 4.6       |
| 25  | <a href="#">101104066</a> | 21  | NOC:Introduction to Experiments in Flight                               | Y   | Y   | Y   | 1.3       |
| 26  | <a href="#">101104065</a> | 40  | NOC:Introduction to Ancient Indian Technology                           | Y   | Y   | Y   | 3.4       |
| 27  | <a href="#">101104067</a> | 58  | NOC:Engineering Thermodynamics (2017)                                   | Y   | Y   | Y   | 2.5       |
| 28  | <a href="#">101108068</a> | 62  | NOC:Combustion in Air Breathing Aero Engines                            | Y   | Y   | Y   | 16        |
| 29  | <a href="#">101104069</a> | 46  | NOC:Aircraft Design   | Y   | Y   | Y   | 4.8       |
| 30  | <a href="#">101104071</a> | 14  | NOC:Aircraft Maintenance  | Y   | Y   | Y   | 5.2       |
| 31  | <a href="#">101104070</a> | 40  | NOC:Fundamentals of Combustion - Part I                                 | Y   | Y   | Y   | 8.5       |
| 32  | <a href="#">101104072</a> | 40  | NOC:Fundamentals of Combustion - Part II                                | Y   | Y   | Y   | 8.4       |
| 33  | <a href="#">101104073</a> | 23  | NOC:Design of Fixed Wing Unmanned Aerial Vehicles                       | Y   | Y   | Y   | 8.6       |
| 34  | <a href="#">101104074</a> | 40  | NOC:Introduction to Finite Volume Methods-I                             | Y   | Y   | Y   | 16        |

|    |                           |     |   |     |     |     |     |
|----|---------------------------|-----|---|-----|-----|-----|-----|
| 35 | <a href="#">101104075</a> | 28  | NOC:Advance Aircraft Maintenance                              | Y   | Y   | Y   | 19  |
| 36 | <a href="#">101104076</a> | 40  | NOC:Introduction to Finite Volume Methods-II                  | Y   | Y   | Y   | 16  |
| 37 | <a href="#">101105077</a> | 73  | NOC:Satellite Attitude Dynamics and Control                   | Y   | Y   | Y   | 25  |
| 38 | <a href="#">101101079</a> | 67  | NOC:Introduction to Aerospace Engineering                     | Y   | Y   | Y   | 34  |
| 39 | <a href="#">101104078</a> | 60  | NOC:Introduction to Rocket Propulsion                         | --- | Y   | Y   | 15  |
| 40 | <a href="#">101105081</a> | 40  | NOC:Vibration and Structural Dynamics                         | --- | Y   | Y   | 11  |
| 41 | <a href="#">101106082</a> | 36  | NOC:Rocket Propulsion   | Y   | Y   | Y   | 77  |
| 42 | <a href="#">101105084</a> | 42  | NOC:Aircraft Structures - I                                   | Y   | Y   | Y   | 21  |
| 43 | <a href="#">101104084</a> | 60  | NOC:Introduction to Airbreathing Propulsion                   | Y   | Y   | Y   | 41  |
| 44 | <a href="#">101101083</a> | 86  | NOC:Introduction to Aircraft Design                           | Y   | Y   | Y   | 9.0 |
| 45 | <a href="#">101105085</a> | 65  | NOC:Introduction to CFD                                       | Y   | Y   | --- | 30  |
| 46 | <a href="#">101105083</a> | 99  | NOC:Space Flight Mechanics                                    | Y   | Y   | Y   | 52  |
| 47 | <a href="#">101104083</a> | 26  | NOC:UAV Design - Part II                                      | Y   | Y   | Y   | 9.1 |
| 48 | <a href="#">101101086</a> | 36  | NOC:Introduction to Launch Vehicle Analysis and Design        | Y   | Y   | Y   | 2.2 |
| 49 | <a href="#">101101087</a> | 121 | NOC:Lighter than Air Systems                                  | Y   | Y   | Y   | 2.9 |
| 50 | <a href="#">101104086</a> | 40  | NOC:Computational Science in Engineering                      | Y   | Y   | Y   | 3.1 |
| 51 | <a href="#">101108086</a> | 60  | NOC:Gasdynamics: Fundamentals and Applications                | Y   | Y   | Y   | 5.7 |
| 52 | <a href="#">101105088</a> | 69  | NOC:Fundamentals of Theoretical and Experimental Aerodynamics | --- | Y   | --- | 6.5 |
| 53 | <a href="#">101105089</a> | 69  | NOC:Aerodynamic Design of Axial Flow Compressors and Fans     | Y   | Y   | Y   | 8.8 |
| 54 | <a href="#">101102090</a> | 48  | NOC:Elements of Mechanical Vibration                          | --- | Y   | --- | 6.9 |
| 55 | <a href="#">101105090</a> | 62  | NOC:Smart Structures  | --- | Y   | --- | 4.6 |
| 56 | <a href="#">101105091</a> | 64  | NOC:Aeroengine Gas Turbine Cycles                             | --- | Y   | --- | 6.9 |
| 57 | <a href="#">101104330</a> | 60  | NOC:Introduction to Aircraft Control System                   | Y   | Y   | Y   | 3.1 |
| 58 | <a href="#">101105331</a> | 40  | NOC:Combustion of Solid Fuels and Propellants                 | --- | Y   | --- | 3.0 |
| 59 | <a href="#">101105332</a> | 40  | NOC:Aerospace Structural Analysis                             | --- | Y   | --- | 3.1 |
| 60 | <a href="#">101105333</a> | 60  | NOC:Fundamentals of Supersonic and Hypersonic Flow            | --- | Y   | --- | 5.3 |
| 61 | <a href="#">101104450</a> | --- | NOC:Applied Computational Fluid Dynamics                      | --- | --- | --- | --- |

**Discipline : Biotechnology**

[Go to Top](#)

**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/biotechnology.pdf>**

|   |                           |    |  |   |   |   |     |
|---|---------------------------|----|--|---|---|---|-----|
| 1 | <a href="#">102101003</a> | 39 | Biomathematics                           | Y | Y | Y | 29  |
| 2 | <a href="#">102101007</a> | 40 | Proteomics: Principles and Techniques    | Y | Y | Y | 34  |
| 3 | <a href="#">102102033</a> | 28 | Enzyme Science and Engineering           | Y | Y | Y | 4.9 |
| 4 | <a href="#">102104042</a> | 40 | Animal Physiology                        | Y | Y | Y | 15  |
| 5 | <a href="#">102104043</a> | 40 | Bio electricity                          | Y | Y | Y | 12  |
| 6 | <a href="#">102106022</a> | 36 | Downstream Processing                    | Y | Y | Y | 17  |
| 7 | <a href="#">102106026</a> | 40 | Thermodynamics                           | Y | Y | Y | 17  |
| 8 | <a href="#">102107028</a> | 41 | Analytical Technologies in Biotechnology | Y | Y | Y | 24  |
| 9 | <a href="#">102101050</a> | 21 | NOC:Mass spectrometry based proteomics   | Y | Y | Y | 1.5 |

|    |                           |     |  |   |   |    |     |
|----|---------------------------|-----|--|---|---|----|-----|
| 10 | <a href="#">102106048</a> | 20  | NOC:Principles of Downstream techniques in Bioprocess                        | Y | Y | Y  | 2.4 |
| 11 | <a href="#">102101049</a> | 21  | NOC:Proteins and Gel-Based Proteomics  | Y | Y | Y  | 1.7 |
| 12 | <a href="#">102106051</a> | 40  | NOC:Biostatistics and Design of Experiments                                  | Y | Y | Y  | 14  |
| 13 | <a href="#">102106053</a> | 21  | NOC:Bioreactors  | Y | Y | Y  | 5.3 |
| 14 | <a href="#">102104052</a> | 15  | NOC:Human Molecular Genetics   | Y | Y | Y  | 1.2 |
| 15 | <a href="#">102101054</a> | 40  | NOC:Interactomics: Protein Arrays and Label-free Biosensors                  | Y | Y | Y  | 28  |
| 16 | <a href="#">102106057</a> | 40  | NOC:Medical Biomaterials   | Y | Y | Y  | 15  |
| 17 | <a href="#">102104056</a> | 19  | NOC:Functional Genomics  | Y | Y | Y  | 1.6 |
| 18 | <a href="#">102101056</a> | 40  | NOC:Introduction to Biostatistics  | Y | Y | Y  | 18  |
| 19 | <a href="#">102103056</a> | 24  | NOC:Introduction to Dynamical Models in Biology                              | Y | Y | Y  | 5.2 |
| 20 | <a href="#">102104057</a> | 40  | NOC:Bioenergy  | Y | Y | Y  | 2.2 |
| 21 | <a href="#">102107058</a> | 20  | NOC:Biomedical Nanotechnology  | Y | Y | Y  | 4.7 |
| 22 | <a href="#">102101058</a> | 40  | NOC:Introduction to Mechanobiology   | Y | Y | Y  | 34  |
| 23 | <a href="#">102104058</a> | 60  | NOC:Animal Physiology  | Y | Y | Y  | 2.3 |
| 24 | <a href="#">102104059</a> | 40  | NOC:Cell Culture Technologies  | Y | Y | Y  | 1.4 |
| 25 | <a href="#">102104060</a> | 40  | NOC:Forest Biometry  | Y | Y | Y  | 1.8 |
| 26 | <a href="#">102105058</a> | 60  | NOC:Industrial Biotechnology   | Y | Y | Y  | 15  |
| 27 | <a href="#">102106066</a> | 18  | NOC:Demystifying the Brain   | Y | Y | Y  | 30  |
| 28 | <a href="#">102104061</a> | 20  | NOC:Introduction To Professional and Scientific Communication                | Y | Y | Y  | 5.3 |
| 29 | <a href="#">102104062</a> | 20  | NOC:Bioelectrochemistry  | Y | Y | Y  | 3.9 |
| 30 | <a href="#">102104063</a> | 20  | NOC:Bioenergetics Of Life Processes  | Y | Y | Y  | 3.9 |
| 31 | <a href="#">102101067</a> | 40  | NOC:Introductory Mathematical Methods for Biologists                         | Y | Y | Y  | 36  |
| 32 | <a href="#">102101055</a> | 40  | NOC:Introduction to Proteomics   | Y | Y | Y  | 16  |
| 33 | <a href="#">102106065</a> | 69  | NOC:BioInformatics:Algorithms and Applications                               | Y | Y | Y  | 34  |
| 34 | <a href="#">102105064</a> | 60  | NOC:Aspects Of Biochemical Engineering                                       | Y | Y | Y  | 16  |
| 35 | <a href="#">102101068</a> | 40  | NOC:Bioengineering: An Interface with Biology and Medicine                   | Y | Y | Y  | 35  |
| 36 | <a href="#">102104068</a> | 40  | NOC:Wildlife Conservation  | Y | Y | Y  | 13  |
| 37 | <a href="#">102104069</a> | 40  | NOC:Nanotechnology in Agriculture  | Y | Y | Y  | 6.4 |
| 38 | <a href="#">102105068</a> | 20  | NOC:Biomicrofluidics   | Y | Y | Y  | 5.7 |
| 39 | <a href="#">102106068</a> | 103 | NOC:Computational Systems Biology  | Y | Y | Y  | 126 |
| 40 | <a href="#">102106069</a> | 69  | NOC:Material and Energy Balances   | Y | Y | Y  | 60  |
| 41 | <a href="#">102106070</a> | 40  | NOC:Computer Aided Drug Design   | Y | Y | Y  | 38  |
| 42 | <a href="#">102101072</a> | 40  | NOC:Applications of Interactomics using Genomics and Proteomics Technologies | Y | Y | Y  | 42  |
| 43 | <a href="#">102104073</a> | 36  | NOC:Wild Life Ecology  | Y | Y | Y. | 25  |
| 44 | <a href="#">102108071</a> | 20  | NOC:Learning about Learning: A Course on Neurobiology of Learning and Memory | Y | Y | Y  | 3.8 |
| 45 | <a href="#">102101076</a> | 80  | NOC:Introduction to Proteogenomics   | Y | Y | Y  | 55  |
| 46 | <a href="#">102103074</a> | 41  | NOC:Genetic Engineering: Theory and Application                              | Y | Y | Y  | 34  |



|    |                           |    |   |     |   |     |     |
|----|---------------------------|----|---|-----|---|-----|-----|
| 47 | <a href="#">102106080</a> | 29 | NOC:Plant Cell Bioprocessing  | Y   | Y | Y   | 39  |
| 48 | <a href="#">102106081</a> | 37 | NOC:Tissue Engineering  | Y   | Y | Y   | 53  |
| 49 | <a href="#">102107075</a> | 20 | NOC:Plant Developmental Biology   | Y   | Y | Y   | 3.3 |
| 50 | <a href="#">102108077</a> | 63 | NOC:Drug Delivery: Principles and Engineering   | Y   | Y | Y   | 9.5 |
| 51 | <a href="#">102108078</a> | 61 | NOC:Fundamentals of Micro and Nanofabrication   | Y   | Y | Y   | 14  |
| 52 | <a href="#">102104082</a> | 36 | NOC:Forests and their Management  | Y   | Y | Y   | 36  |
| 53 | <a href="#">102101082</a> | 60 | NOC:Interactomics: Basics and Applications  | Y   | Y | Y   | 58  |
| 54 | <a href="#">102108082</a> | 58 | NOC:Optical Spectroscopy and Microscopy: Fundamentals of Optical Measurements and Instrumentation | Y   | Y | Y   | 11  |
| 55 | <a href="#">102106082</a> | 87 | NOC:Thermodynamics for Biological Systems: Classical and Statistical Aspect                       | Y   | Y | Y   | 39  |
| 56 | <a href="#">102103083</a> | 45 | NOC:Experimental Biotechnology  | Y   | Y | Y   | 26  |
| 57 | <a href="#">102105083</a> | 60 | NOC:Immunology  | Y   | Y | --- | 23  |
| 58 | <a href="#">102106084</a> | 28 | NOC:Introduction to Developmental Biology   | Y   | Y | Y   | 5.4 |
| 59 | <a href="#">102106083</a> | 81 | NOC:Transport Phenomena in Biological Systems   | Y   | Y | Y   | 11  |
| 60 | <a href="#">102103086</a> | 24 | NOC:Biointerface Engineering  | --- | Y | --- | 3.2 |
| 61 | <a href="#">102104086</a> | 36 | NOC:Conservation Economics  | Y   | Y | Y   | 11  |
| 62 | <a href="#">102105086</a> | 37 | NOC:Metabolic Engineering   | Y   | Y | Y   | 4.2 |
| 63 | <a href="#">102105087</a> | 63 | NOC:Environmental Chemistry and Microbiology  | Y   | Y | Y   | 6.8 |
| 64 | <a href="#">102106086</a> | 40 | NOC:Bioreactor Design and Analysis  | Y   | Y | Y   | 2.6 |
| 65 | <a href="#">102106087</a> | 34 | NOC:Biochemistry (IITM)   | Y   | Y | Y   | 3.9 |
| 66 | <a href="#">102107086</a> | 60 | NOC:Structural Biology  | --- | Y | Y   | 20  |
| 67 | <a href="#">102108086</a> | 33 | NOC:Cell Biology: Cellular Organization, Division and Processes                                   | Y   | Y | Y   | 2.9 |
| 68 | <a href="#">102104088</a> | 36 | NOC:Conservation Geography  | Y   | Y | Y   | 8.4 |
| 69 | <a href="#">102105088</a> | 52 | NOC:Environmental Biotechnology   | Y   | Y | --- | 8.3 |
| 70 | <a href="#">102105089</a> | 60 | NOC:Fundamentals of Protein Chemistry   | Y   | Y | Y   | 5.3 |
| 71 | <a href="#">102105090</a> | 53 | NOC:Introduction to Biomedical Imaging Systems  | Y   | Y | --- | 7.1 |
| 72 | <a href="#">102101091</a> | 61 | NOC:Maternal Infant Young Child Nutrition   | Y   | Y | Y   | 8.0 |
| 73 | <a href="#">102103091</a> | 50 | NOC:Basics of Biology   | Y   | Y | Y   | 9.8 |
| 74 | <a href="#">102103092</a> | 49 | NOC:Data Analysis for Biologists  | Y   | Y | Y   | 8.3 |
| 75 | <a href="#">102103093</a> | 49 | NOC:Genome Editing and Engineering  | --- | Y | --- | 4.8 |
| 76 | <a href="#">102106093</a> | 60 | NOC:Cellular Biophysics: A Framework for Quantitative Biology                                     | Y   | Y | Y   | 3.3 |
| 77 | <a href="#">102106094</a> | 51 | NOC:Medical Image Analysis  | Y   | Y | Y   | 3.6 |
| 78 | <a href="#">102106095</a> | 37 | NOC:Organ Printing  | --- | Y | --- | 3.3 |
| 79 | <a href="#">102106096</a> | 58 | NOC:Introduction to Cell Biology  | Y   | Y | Y   | 3.0 |
| 80 | <a href="#">102101097</a> | 62 | NOC:Maternal Infant Young Child Nutrition (Hindi)   | --- | Y | --- | 8.9 |
| 81 | <a href="#">102103097</a> | 47 | NOC:Enzyme Sciences and Technology  | Y   | Y | Y   | 9.7 |
| 82 | <a href="#">102106097</a> | 62 | NOC:RNA Biology   | Y   | Y | Y   | 9.8 |
| 83 | <a href="#">102106098</a> | 84 | NOC:Biomechanics  | Y   | Y | Y   | 6.6 |

|    |                           |     |  |     |     |     |     |
|----|---------------------------|-----|--|-----|-----|-----|-----|
| 84 | <a href="#">102104099</a> | 34  | NOC:Neurobiology   | Y   | Y   | --- | 1.0 |
| 85 | <a href="#">102105099</a> | 60  | NOC:Next Generation Sequencing Technologies: Data Analysis and Applications            | Y   | Y   | Y   | 4.9 |
| 86 | <a href="#">102105100</a> | 60  | NOC:Computational Neuroscience   | --- | Y   | --- | 5.1 |
| 87 | <a href="#">102105101</a> | 20  | NOC:Electrophysiology of Heart   | Y   | Y   | Y   | 1.9 |
| 88 | <a href="#">102103341</a> | 52  | NOC:Molecular Biology  | Y   | Y   | Y   | 11  |
| 89 | <a href="#">102105342</a> | 63  | NOC:Pharmacognosy and Metabolic Engineering  | --- | Y   | --- | 4.9 |
| 90 | <a href="#">102106339</a> | 44  | NOC:Computational Genomics   | --- | Y   | --- | 5.8 |
| 91 | <a href="#">102106340</a> | 60  | NOC:Human Physiology   | --- | Y   | --- | 6.9 |
| 92 | <a href="#">102106343</a> | 63  | NOC:I Think Biology  | Y   | Y   | Y   | 6.4 |
| 93 | <a href="#">102106345</a> | 97  | NOC:Classics in Neuroscience   | --- | Y   | --- | 4.4 |
| 94 | <a href="#">102108344</a> | 55  | NOC:Microsensors, Implantable Devices and Rodent Surgeries for Biomedical Applications | --- | Y   | --- | 5.7 |
| 95 | <a href="#">102106102</a> | 33  | Introduction to Synthetic Biology  | --- | Y   | --- | 4.1 |
| 96 | <a href="#">102104459</a> | --- | NOC:Design for Biosecurity   | --- | --- | --- | --- |
| 97 | <a href="#">102106456</a> | --- | NOC:Advances in Omics  | --- | --- | --- | --- |
| 98 | <a href="#">102106457</a> | --- | NOC:Statistics for Biomedical Engineers  | --- | --- | --- | --- |

### Discipline : Chemical Engineering

[Go to Top](#)

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|    |                           |    |  |   |   |   |     |
|----|---------------------------|----|--|---|---|---|-----|
| 1  | <a href="#">103101001</a> | 41 | Advanced Chemical Reaction Engineering (PG)              | Y | Y | Y | 31  |
| 2  | <a href="#">103101003</a> | 26 | Advanced Process Control                                 | Y | Y | Y | 34  |
| 3  | <a href="#">103101008</a> | 39 | Chemical Reaction Engineering II                         | Y | Y | Y | 34  |
| 4  | <a href="#">103101111</a> | 49 | Advanced Numerical Analysis                              | Y | Y | Y | 41  |
| 5  | <a href="#">103102012</a> | 40 | Heterogeneous Catalysis and Catalytic Processes          | Y | Y | Y | 19  |
| 6  | <a href="#">103103034</a> | 39 | Mass Transfer Operations I                               | Y | Y | Y | 14  |
| 7  | <a href="#">103103039</a> | 46 | Process Design Decisions and Project Economics           | Y | Y | Y | 27  |
| 8  | <a href="#">103104044</a> | 40 | Fluid Mechanics  | Y | Y | Y | 15  |
| 9  | <a href="#">103104046</a> | 40 | Mass Transfer II   | Y | Y | Y | 16  |
| 10 | <a href="#">103104050</a> | 41 | Plantwide Control of Chemical Processes                  | Y | Y | Y | 16  |
| 11 | <a href="#">103105054</a> | 40 | Biochemical Engineering                                  | Y | Y | Y | 8.5 |
| 12 | <a href="#">103105057</a> | 40 | Microscale Transport Processes                           | Y | Y | Y | 12  |
| 13 | <a href="#">103105059</a> | 40 | Multiphase Flow  | Y | Y | Y | 11  |
| 14 | <a href="#">103105061</a> | 41 | Novel Separation Processes                               | Y | Y | Y | 19  |
| 15 | <a href="#">103105064</a> | 44 | Process Control and Instrumentation                      | Y | Y | Y | 11  |
| 16 | <a href="#">103105066</a> | 40 | Instability and Patterning of Thin Polymer Films         | Y | Y | Y | 12  |
| 17 | <a href="#">103105106</a> | 41 | Advanced Mathematical Techniques in Chemical Engineering | Y | Y | Y | 12  |
| 18 | <a href="#">103106070</a> | 35 | Chemical Engineering Thermodynamics                      | Y | Y | Y | 3.1 |
| 19 | <a href="#">103106073</a> | 47 | Computational Fluid Dynamics                             | Y | Y | Y | 21  |
| 20 | <a href="#">103106074</a> | 40 | Computational Techniques                                 | Y | Y | Y | 20  |

|    |                           |     |  |   |   |   |     |
|----|---------------------------|-----|--|---|---|---|-----|
| 21 | <a href="#">103106103</a> | 40  | Particle Characterization (PG)   | Y | Y | Y | 16  |
| 22 | <a href="#">103106113</a> | 45  | Multiphase flows:Analytical solutions and Stability Analysis                                 | Y | Y | Y | 34  |
| 23 | <a href="#">103106114</a> | 59  | NOC:Introduction to Time-Frequency Analysis and Wavelet Transforms                           | Y | Y | Y | 5.3 |
| 24 | <a href="#">103107081</a> | 40  | Chemical Technology - I  | Y | Y | Y | 29  |
| 25 | <a href="#">103107093</a> | 43  | Process Integration  | Y | Y | Y | 55  |
| 26 | <a href="#">103108097</a> | 40  | Chemical Reaction Engineering  | Y | Y | Y | 16  |
| 27 | <a href="#">103108098</a> | 40  | Fundamentals of Transport Processes  | Y | Y | Y | 19  |
| 28 | <a href="#">103108099</a> | 40  | Fundamentals of Transport Processes - II   | Y | Y | Y | 9.2 |
| 29 | <a href="#">103108100</a> | 43  | Modern Instrumental Methods of Analysis  | Y | Y | Y | 20  |
| 30 | <a href="#">103106112</a> | 55  | Statistics for Experimentalists  | Y | Y | Y | 28  |
| 31 | <a href="#">103106118</a> | 45  | NOC:MATLAB Programming for Numerical Computation   | Y | Y | Y | 9.9 |
| 32 | <a href="#">103106115</a> | 39  | Chemical Engineering Principles of CVD Processes   | Y | Y | Y | 18  |
| 33 | <a href="#">103106119</a> | 62  | NOC:Computational Fluid Dynamics   | Y | Y | Y | 21  |
| 34 | <a href="#">103105121</a> | 20  | NOC:Introduction to Process Modeling in Membrane Separation Process                          | Y | Y | Y | 5.2 |
| 35 | <a href="#">103106120</a> | 19  | NOC:Introduction to Statistical Hypothesis Testing   | Y | Y | Y | 6.4 |
| 36 | <a href="#">103106116</a> | 60  | Chemical Reaction Engineering 1 (Homogeneous Reactors)                                       | Y | Y | Y | 59  |
| 37 | <a href="#">103106117</a> | 43  | Chemical Reaction Engineering 2 (Heterogeneous Reactors)                                     | Y | Y | Y | 41  |
| 38 | <a href="#">103105122</a> | 40  | NOC:Soft Nano Technology   | Y | Y | Y | 10  |
| 39 | <a href="#">103105124</a> | 25  | NOC:Adiabatic Two-Phase Flow & Flow Boiling in Microchannel                                  | Y | Y | Y | 6.0 |
| 40 | <a href="#">103107123</a> | 20  | Mechanical Operations  | Y | Y | Y | 4.3 |
| 41 | <a href="#">103108124</a> | 41  | NOC:Atomic and Molecular Absorption Spectrometry for Pollution Monitoring                    | Y | Y | Y | 8.7 |
| 42 | <a href="#">103106123</a> | 112 | NOC:Applied Time-Series Analysis   | Y | Y | Y | 30  |
| 43 | <a href="#">103107125</a> | 40  | NOC:Waste to Energy Conversion   | Y | Y | Y | 11  |
| 44 | <a href="#">103108123</a> | 71  | NOC:Transport Processes I: Heat and Mass Transfer  | Y | Y | Y | 12  |
| 45 | <a href="#">103108127</a> | 38  | NOC:Trace and Ultra-trace Analysis of Metals using Atomic Absorption Spectrometry            | Y | Y | Y | 11  |
| 46 | <a href="#">103101127</a> | 40  | NOC:Introduction to Evolutionary Dynamics  | Y | Y | Y | 35  |
| 47 | <a href="#">103105127</a> | 65  | NOC:Phase Equilibrium Thermodynamics   | Y | Y | Y | 5.0 |
| 48 | <a href="#">103105128</a> | 60  | NOC:Transport Phenomena  | Y | Y | Y | 18  |
| 49 | <a href="#">103107127</a> | 20  | NOC:Unit Operations of Particulate Matter  | Y | Y | Y | 3.9 |
| 50 | <a href="#">103106131</a> | 63  | NOC:Rheology of Complex Materials  | Y | Y | Y | 30  |
| 51 | <a href="#">103103135</a> | 12  | NOC:Measurement Technique in Multiphase Flows  | Y | Y | Y | 3.3 |
| 52 | <a href="#">103103133</a> | 12  | NOC:An Introduction to Cardiovascular Fluid Mechanics  | Y | Y | Y | 1.1 |
| 53 | <a href="#">103108138</a> | 22  | NOC:Inductive Couple Plasma Atomic Emmission Spectrometry (ICP-AES) for Pollution Monitoring | Y | Y | Y | 5.9 |
| 54 | <a href="#">103103134</a> | 24  | NOC:Multiphase Microfluidics   | Y | Y | Y | 4.0 |
| 55 | <a href="#">103104129</a> | 51  | NOC:Thermodynamics Of Fluid Phase Equilibria   | Y | Y | Y | 7.2 |
| 56 | <a href="#">103101137</a> | 60  | NOC:Heat Transfer  | Y | Y | Y | 24  |



|    |                           |     |   |     |   |     |     |
|----|---------------------------|-----|---|-----|---|-----|-----|
| 57 | <a href="#">103103132</a> | 31  | NOC:Fluidization Engineering                                  | Y   | Y | Y   | 4.5 |
| 58 | <a href="#">103105130</a> | 60  | NOC:Chemical Process Instrumentation                          | Y   | Y | Y   | 16  |
| 59 | <a href="#">103103136</a> | 22  | NOC:Multiphase Flows  | Y   | Y | Y   | 6.7 |
| 60 | <a href="#">103103139</a> | 24  | NOC:Introduction to Polymer Physics (IIT-G)                   | Y   | Y | Y   | 11  |
| 61 | <a href="#">103103140</a> | 22  | NOC:Natural Gas Engineering                                   | Y   | Y | Y   | 8.3 |
| 62 | <a href="#">103105139</a> | 60  | NOC:Optimization in Chemical Engineering                      | Y   | Y | Y   | 19  |
| 63 | <a href="#">103105140</a> | 60  | NOC:Heat Transfer (2018)                                      | Y   | Y | Y   | 18  |
| 64 | <a href="#">103107139</a> | 60  | NOC:Introduction to Polymer Physics (IIT-R)                   | Y   | Y | Y   | 11  |
| 65 | <a href="#">103108139</a> | 21  | NOC:Infrared Spectroscopy for Pollution Monitoring            | Y   | Y | Y   | 5.2 |
| 66 | <a href="#">103101141</a> | 60  | NOC:Chemical Reaction Engineering-II                          | Y   | Y | Y.  | 37  |
| 67 | <a href="#">103101142</a> | 48  | NOC:Chemical Process Control                                  | Y   | Y | Y   | 17  |
| 68 | <a href="#">103103144</a> | 42  | NOC:Chemical Engineering Thermodynamics                       | Y   | Y | Y   | 13  |
| 69 | <a href="#">103103145</a> | 41  | NOC:Mass Transfer Operations-I                                | Y   | Y | Y   | 27  |
| 70 | <a href="#">103103146</a> | 41  | NOC:Transport Phenomena of Non-Newtonian Fluids               | Y   | Y | Y   | 6.6 |
| 71 | <a href="#">103103147</a> | 33  | NOC:Fluid Flow Operations                                     | Y   | Y | Y   | 20  |
| 72 | <a href="#">103106148</a> | 52  | NOC:Process Control - Design, Analysis and Assessment         | Y   | Y | Y   | 68  |
| 73 | <a href="#">103107143</a> | 20  | NOC:Equipment Design: Mechanical Aspects                      | Y   | Y | Y   | 4.0 |
| 74 | <a href="#">103106149</a> | 121 | System Identification   | Y   | Y | --- | 153 |
| 75 | <a href="#">103103152</a> | 35  | NOC:Chemical Process Intensification                          | Y   | Y | Y   | 22  |
| 76 | <a href="#">103103153</a> | 30  | NOC:Chemical Reaction Engineering - I                         | Y   | Y | Y   | 17  |
| 77 | <a href="#">103103154</a> | 32  | NOC:Mass Transfer Operations II                               | Y   | Y | Y   | 19  |
| 78 | <a href="#">103103155</a> | 37  | NOC:Mechanical Unit Operations                                | Y   | Y | Y   | 26  |
| 79 | <a href="#">103104151</a> | 63  | NOC:Chemical Engineering Thermodynamics                       | Y   | Y | Y   | 15  |
| 80 | <a href="#">103105160</a> | 60  | NOC:Flow through Porous Media                                 | Y   | Y | Y   | 16  |
| 81 | <a href="#">103105161</a> | 60  | NOC:Fundamentals of Particle and Fluid Solid Processing       | Y   | Y | Y   | 16  |
| 82 | <a href="#">103106158</a> | 70  | NOC:Fluid and Particle Mechanics                              | Y   | Y | Y   | 90  |
| 83 | <a href="#">103106159</a> | 116 | NOC:Continuum Mechanics and Transport Phenomena               | Y   | Y | Y   | 84  |
| 84 | <a href="#">103107156</a> | 60  | NOC:Chemical Process Safety                                   | Y   | Y | Y   | 9.9 |
| 85 | <a href="#">103107157</a> | 40  | NOC:Technologies For Clean And Renewable Energy Production    | Y   | Y | Y   | 8.3 |
| 86 | <a href="#">103102016</a> | 37  | Interfacial Engineering                                       | --- | Y | --- | 8.7 |
| 87 | <a href="#">103103162</a> | 31  | NOC:Advanced Thermodynamics                                   | Y   | Y | Y   | 25  |
| 88 | <a href="#">103103165</a> | 35  | NOC:Basic Principles and Calculations in Chemical Engineering | Y   | Y | Y   | 15  |
| 89 | <a href="#">103103164</a> | 37  | NOC:Computer Aided Applied Single Objective Optimization      | Y   | Y | Y   | 20  |
| 90 | <a href="#">103108162</a> | 35  | NOC:Electrochemical Technology in Pollution Control           | Y   | Y | Y   | 21  |
| 91 | <a href="#">103106162</a> | 61  | NOC:Environmental Quality Monitoring and Analysis             | Y   | Y | Y   | 51  |
| 92 | <a href="#">103103163</a> | 36  | NOC:Membrane Technology                                       | Y   | Y | Y   | 17  |
| 93 | <a href="#">105106204</a> | 48  | NOC:Colloids and Surfaces                                     | Y   | Y | Y   | 9.2 |
| 94 | <a href="#">103105166</a> | 60  | NOC:Plant Design and Economics                                | Y   | Y | --- | 25  |

|     |                           |    |  |     |   |     |     |
|-----|---------------------------|----|--|-----|---|-----|-----|
| 95  | <a href="#">105106205</a> | 87 | NOC:Polymers: Concepts, Properties, Uses and Sustainability  | Y   | Y | Y   | 13  |
| 96  | <a href="#">103103206</a> | 38 | NOC:Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems   | Y   | Y | --- | 5.2 |
| 97  | <a href="#">103103207</a> | 37 | NOC:Biomass Conversion and Biorefinery   | Y   | Y | Y   | 5.8 |
| 98  | <a href="#">103107206</a> | 60 | NOC:Polymer Reaction Engineering   | Y   | Y | Y   | 6.0 |
| 99  | <a href="#">103107207</a> | 60 | NOC:Process Equipment Design   | Y   | Y | Y   | 11  |
| 100 | <a href="#">103107208</a> | 60 | NOC:Advanced Thermodynamics and Molecular Simulations  | Y   | Y | Y   | 12  |
| 101 | <a href="#">103101209</a> | 61 | NOC:Introduction to Interfacial Waves  | Y   | Y | --- | 5.4 |
| 102 | <a href="#">103103209</a> | 35 | NOC:Aspen Plus® Simulation Software-A basic course for beginners   | Y   | Y | Y   | 6.3 |
| 103 | <a href="#">103105209</a> | 60 | NOC:Material and Energy Balance Computations   | Y   | Y | --- | 6.9 |
| 104 | <a href="#">103105210</a> | 64 | NOC:Principles and Practices of Process Equipment and Plant Design   | Y   | Y | --- | 7.2 |
| 105 | <a href="#">103102211</a> | 65 | NOC:Fluid Mechanics and its Applications   | --- | Y | Y   | 3.4 |
| 106 | <a href="#">103103211</a> | 25 | NOC:Physical and Electrochemical Characterizations in Chemical Engineering   | --- | Y | --- | 3.3 |
| 107 | <a href="#">103107211</a> | 60 | NOC:Chemical Process Utilities   | Y   | Y | Y   | 6.2 |
| 108 | <a href="#">103107212</a> | 60 | NOC:Physico-Chemical Processes for Waste Water Treatment   | Y   | Y | Y   | 6.1 |
| 109 | <a href="#">103103031</a> | 40 | Heat Transfer  | --- | Y | Y   | 20  |
| 110 | <a href="#">103101215</a> | 69 | NOC:Hydrogen Energy:Production,Storage,Transportation and Safety   | Y   | Y | Y   | 7.8 |
| 111 | <a href="#">103105215</a> | 60 | NOC:Mathematical Modelling and Simulation of Chemical Engineering Process  | Y   | Y | Y   | 5.2 |
| 112 | <a href="#">103105216</a> | 60 | NOC:Advanced Process Dynamics  | Y   | Y | Y   | 7.0 |
| 113 | <a href="#">103106214</a> | 40 | Synthetic and Natural Supramolecular Architectures: An Approach Towards Molecular Technology                             | --- | Y | --- | 6.1 |
| 114 | <a href="#">103107215</a> | 60 | NOC:Basic Environmental Engineering and Pollution Abatement  | Y   | Y | Y   | 5.6 |
| 115 | <a href="#">103103217</a> | 43 | NOC:Chemical Process Technology  | --- | Y | --- | 4.5 |
| 116 | <a href="#">103103218</a> | 35 | NOC:Inorganic Chemical Technology  | Y   | Y | Y   | 5.7 |
| 117 | <a href="#">103105217</a> | 40 | NOC:Metallocene and Metal-Carbene based Organometallic Compounds as Industrially Important Advanced Polyolefin Catalysts | Y   | Y | --- | 4.2 |
| 118 | <a href="#">103105218</a> | 60 | NOC:Chemical Engineering Fluid Dynamics and Heat Transfer  | Y   | Y | Y   | 5.0 |
| 119 | <a href="#">103105219</a> | 60 | NOC:Characterization of Polymers, Elastomers and Composites  | --- | Y | --- | 8.2 |
| 120 | <a href="#">103107217</a> | 40 | NOC:Biological Process Design for Wastewater Treatment   | Y   | Y | Y   | 3.9 |
| 121 | <a href="#">103103220</a> | 35 | NOC:Organic Chemical Technology  | Y   | Y | Y   | 6.7 |
| 122 | <a href="#">103103221</a> | 36 | NOC:Solid-Fluid Operations   | Y   | Y | --- | 5.5 |
| 123 | <a href="#">103103222</a> | 30 | NOC:Energy Conversion Technologies (Biomass and Coal)  | --- | Y | --- | 3.4 |
| 124 | <a href="#">103103223</a> | 21 | NOC:Petroleum Reservoir Engineering  | Y   | Y | Y   | 3.7 |
| 125 | <a href="#">103105220</a> | 60 | NOC:Matlab-Based Programming Lab in Chemical Engineering   | --- | Y | --- | 6.5 |
| 126 | <a href="#">103105221</a> | 40 | NOC:Petroleum Technology   | Y   | Y | Y   | 4.3 |
| 127 | <a href="#">103105222</a> | 48 | NOC:Rheology and Processing of Paints, Plastic and Elastomer Based Composites  | Y   | Y | Y   | 6.3 |
| 128 | <a href="#">103105223</a> | 60 | NOC:Petroleum Formation Evaluation   | --- | Y | --- | 5.4 |

|     |                           |     |  |     |     |     |     |
|-----|---------------------------|-----|--|-----|-----|-----|-----|
| 129 | <a href="#">103106220</a> | 62  | NOC:Artificial Lift  | Y   | Y   | Y   | 6.4 |
| 130 | <a href="#">103107220</a> | 60  | NOC:Advanced Reaction Engineering                                      | --- | Y   | --- | 7.2 |
| 131 | <a href="#">103107221</a> | 60  | NOC:Polymer Process Engineering  | Y   | Y   | --- | 7.0 |
| 132 | <a href="#">103108220</a> | 60  | NOC:Transport Processes  | --- | Y   | --- | 8.3 |
| 133 | <a href="#">103101354</a> | 60  | NOC:Modeling Stochastic Phenomena for Engineering Applications: Part-1 | --- | Y   | --- | 4.0 |
| 134 | <a href="#">103102352</a> | 19  | NOC:Computational Process Design                                       | --- | Y   | --- | 4.5 |
| 135 | <a href="#">103103355</a> | 38  | NOC:Applied Statistical Thermodynamics                                 | --- | Y   | --- | 3.8 |
| 136 | <a href="#">103105353</a> | 60  | NOC:Momentum Transfer in Fluids  | --- | Y   | --- | 5.1 |
| 137 | <a href="#">103105460</a> | --- | NOC:Enhanced Oil Recovery Techniques                                   | --- | --- | --- | --- |
| 138 | <a href="#">103105461</a> | --- | NOC:Adsorption Science and Technology: Fundamentals and Applications   | --- | --- | --- | --- |

**Discipline : Chemistry and Biochemistry**

[Go to Top](#)

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|    |                           |    |   |   |   |   |     |
|----|---------------------------|----|---|---|---|---|-----|
| 1  | <a href="#">104104011</a> | 40 | Chemistry of Materials  | Y | Y | Y | 18  |
| 2  | <a href="#">104104026</a> | 40 | Mathematics for Chemistry   | Y | Y | Y | 9.1 |
| 3  | <a href="#">104104066</a> | 40 | Advance Analytical Course   | Y | Y | Y | 13  |
| 4  | <a href="#">104105031</a> | 40 | Bio-inorganic chemistry   | Y | Y | Y | 12  |
| 5  | <a href="#">104105033</a> | 40 | Co-ordination chemistry (chemistry of transition elements)                    | Y | Y | Y | 9.6 |
| 6  | <a href="#">104105034</a> | 40 | Heterocyclic Chemistry  | Y | Y | Y | 12  |
| 7  | <a href="#">104105038</a> | 40 | Organic photochemistry and pericyclic reactions                               | Y | Y | Y | 11  |
| 8  | <a href="#">104105039</a> | 41 | Polymer Chemistry   | Y | Y | Y | 12  |
| 9  | <a href="#">104105041</a> | 40 | Rate processes  | Y | Y | Y | 11  |
| 10 | <a href="#">104106048</a> | 25 | Principles and Applications of Electron Paramagnetic Resonance Spectroscopy   | Y | Y | Y | 15  |
| 11 | <a href="#">104108055</a> | 40 | Essentials in Immunology  | Y | Y | Y | 11  |
| 12 | <a href="#">104108056</a> | 40 | Eukaryotic Gene Expression - basics and benefits                              | Y | Y | Y | 20  |
| 13 | <a href="#">104108057</a> | 49 | Introductory Quantum Chemistry  | Y | Y | Y | 20  |
| 14 | <a href="#">104108062</a> | 40 | Introduction to Organometallic Chemistry                                      | Y | Y | Y | 18  |
| 15 | <a href="#">104106072</a> | 25 | NOC:Chemistry - I   | Y | Y | Y | 3.7 |
| 16 | <a href="#">102105034</a> | 28 | Bio-Chemistry I   | Y | Y | Y | 7.2 |
| 17 | <a href="#">104105076</a> | 27 | NOC:Biochemistry  | Y | Y | Y | 2.9 |
| 18 | <a href="#">104106075</a> | 36 | NOC:Application of Spectroscopic Methods in Molecular Structure Determination | Y | Y | Y | 3.8 |
| 19 | <a href="#">104106074</a> | 27 | NOC:Chemistry-II  | Y | Y | Y | 8.0 |
| 20 | <a href="#">104108078</a> | 40 | NOC:Principles and Applications of NMR Spectroscopy                           | Y | Y | Y | 11  |
| 21 | <a href="#">104106077</a> | 34 | NOC:Pericyclic Reactions and Organic Photochemistry                           | Y | Y | Y | 7.1 |
| 22 | <a href="#">104101079</a> | 20 | NOC:Organo Metallic Chemistry   | Y | Y | Y | 8.1 |
| 23 | <a href="#">104104080</a> | 40 | NOC:Chemical Applications of Symmetry and Group Theory                        | Y | Y | Y | 6.0 |

|    |           |    |  |     |   |     |     |
|----|-----------|----|--|-----|---|-----|-----|
| 24 | 104106083 | 40 | NOC:Chemistry I:Introduction To Quantum Chemistry and Molecular Spectroscopy | Y   | Y | Y   | 10  |
| 25 | 104104082 | 45 | NOC:Quantum Computing  | Y   | Y | Y   | 3.0 |
| 26 | 104104081 | 40 | NOC:Mathematics for Chemistry  | Y   | Y | Y   | 2.4 |
| 27 | 104104084 | 40 | NOC:Basics of Fluorescence Spectroscopy                                      | Y   | Y | Y   | 2.1 |
| 28 | 104104085 | 40 | NOC:Laser: Fundamentals and Applications                                     | Y   | Y | Y   | 2.0 |
| 29 | 104101084 | 60 | NOC:Chemical and Biological Thermodynamics: Principles to Applications       | Y   | Y | Y   | 55  |
| 30 | 104105084 | 60 | NOC:Analytical Chemistry   | Y   | Y | Y   | 16  |
| 31 | 104105086 | 40 | NOC:Stereochemistry  | Y   | Y | Y   | 11  |
| 32 | 104104086 | 55 | NOC:Advanced Mathematical Methods for Chemistry                              | Y   | Y | Y   | 38  |
| 33 | 104101092 | 20 | NOC:Metal Mediated Synthesis - I   | Y   | Y | Y   | 19  |
| 34 | 104105088 | 40 | NOC:Introduction to Molecular Thermodynamics                                 | Y   | Y | Y   | 12  |
| 35 | 104101090 | 60 | NOC:Chemistry of Main Group Elements   | Y   | Y | Y   | 53  |
| 36 | 104101091 | 60 | NOC:Transition Metal Organometallic Chemistry: Principles to Applications    | Y   | Y | Y   | 54  |
| 37 | 104105087 | 60 | NOC:A Study Guide In Organic Retrosynthesis: Problem Solving Approach        | Y   | Y | Y   | 16  |
| 38 | 104106089 | 55 | NOC:Introduction to Chemical Thermodynamics and Kinetics                     | Y   | Y | Y   | 29  |
| 39 | 104101093 | 60 | NOC:Inorganic Chemistry of Life: Principles and Perspectives                 | Y   | Y | Y   | 42  |
| 40 | 104101094 | 68 | NOC:Symmetry and Group Theory  | Y   | Y | Y   | 32  |
| 41 | 104101095 | 41 | NOC:Computational Chemistry and Classical Molecular Dynamics                 | Y   | Y | Y   | 28  |
| 42 | 104105093 | 40 | NOC:Molecules in Motion  | Y   | Y | Y   | 11  |
| 43 | 104106093 | 62 | NOC:Chemical Crystallography   | Y   | Y | Y   | 66  |
| 44 | 104106094 | 44 | NOC:Advanced Chemical Thermodynamics and Kinetics                            | Y   | Y | Y   | 63  |
| 45 | 104106096 | 56 | NOC:Chemistry: Atomic Structure and Chemical Bonding                         | Y   | Y | Y   | 37  |
| 46 | 104101099 | 63 | NOC:Molecular Spectroscopy: A Physical Chemists Perspective                  | Y   | Y | Y*  | 43  |
| 47 | 104101100 | 60 | NOC:Advanced Transition Metal Organometallic Chemistry                       | Y   | Y | Y   | 57  |
| 48 | 104104101 | 60 | NOC:Solid State Chemistry  | Y   | Y | Y   | 22  |
| 49 | 104105102 | 53 | NOC:Experimental Biochemistry  | Y   | Y | Y   | 24  |
| 50 | 104105103 | 60 | NOC:Industrial Inorganic Chemistry   | Y   | Y | Y   | 17  |
| 51 | 104105104 | 20 | NOC:Reactive Intermediates Carbene and Nitrene                               | Y   | Y | Y   | 5.1 |
| 52 | 104106105 | 52 | NOC:Electrochemical Impedance Spectroscopy                                   | Y   | Y | Y   | 69  |
| 53 | 104106106 | 69 | NOC:Medicinal Chemistry  | Y   | Y | Y   | 78  |
| 54 | 104106107 | 68 | NOC:Chemical Principles-II   | Y   | Y | Y   | 74  |
| 55 | 104108097 | 42 | NOC:Multidimensional NMR Spectroscopy for Structural Studies of Biomolecules | Y   | Y | Y   | 3.9 |
| 56 | 104108098 | 61 | NOC:Symmetry and Structure in the Solid State                                | Y   | Y | Y   | 18  |
| 57 | 104106108 | 8  | Organic Chemistry Lab Certification  | --- | Y | --- | 18  |
| 58 | 104101115 | 40 | NOC:Mechanisms in Organic Chemistry  | Y   | Y | Y   | 33  |
| 59 | 104101116 | 38 | NOC:Metals In Biology  | Y   | Y | Y   | 34  |

|    |                           |    |  |     |   |     |     |
|----|---------------------------|----|--|-----|---|-----|-----|
| 60 | <a href="#">104101117</a> | 60 | NOC:NMR spectroscopy for Chemists and Biologists   | Y   | Y | Y   | 47  |
| 61 | <a href="#">104102113</a> | 34 | NOC:Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries                                 | Y   | Y | Y   | 30  |
| 62 | <a href="#">104102114</a> | 15 | NOC:Introductory Non-Linear Dynamics   | Y   | Y | Y   | 8.0 |
| 63 | <a href="#">104103110</a> | 30 | NOC:Principles Of Organic Synthesis  | Y   | Y | Y   | 27  |
| 64 | <a href="#">104103111</a> | 32 | NOC:Reagents In Organic Synthesis  | Y   | Y | Y   | 19  |
| 65 | <a href="#">104103112</a> | 37 | NOC:Thermodynamics: Classical to Statistical   | Y   | Y | Y   | 4.8 |
| 66 | <a href="#">104104109</a> | 20 | NOC:Bioinorganic Chemistry   | Y   | Y | Y   | 12  |
| 67 | <a href="#">104105120</a> | 63 | NOC:Organic Chemistry in Biology and Drug Development  | Y   | Y | Y   | 27  |
| 68 | <a href="#">104106119</a> | 52 | NOC:Introductory Organic Chemistry I   | Y   | Y | Y   | 56  |
| 69 | <a href="#">104108118</a> | 43 | NOC:Ultrafast Optics and Spectroscopy  | Y   | Y | Y   | 6.5 |
| 70 | <a href="#">104102009</a> | 42 | Bio-Physical Chemistry   | Y   | Y | --- | 46  |
| 71 | <a href="#">104101121</a> | 19 | NOC:Basics in Inorganic Chemistry  | Y   | Y | Y   | 11  |
| 72 | <a href="#">104103121</a> | 35 | NOC:Essentials of Biomolecules: Nucleic Acids and Peptides   | Y   | Y | Y   | 18  |
| 73 | <a href="#">104106122</a> | 61 | NOC:Fundamentals of Spectroscopy   | Y   | Y | Y   | 41  |
| 74 | <a href="#">104106121</a> | 51 | NOC:Quantitative Methods in Chemistry  | Y   | Y | Y   | 39  |
| 75 | <a href="#">104101123</a> | 60 | NOC:Transition Metal Organometallics in Catalysis and Biology  | Y   | Y | Y   | 44  |
| 76 | <a href="#">104101122</a> | 67 | NOC:Ultrafast Laser Spectroscopy   | Y   | Y | Y   | 55  |
| 77 | <a href="#">104101125</a> | 61 | NOC:Basic Statistical Mechanics  | Y   | Y | Y   | 14  |
| 78 | <a href="#">104105124</a> | 42 | NOC:Introduction to Polymer Science  | Y   | Y | Y   | 22  |
| 79 | <a href="#">104108124</a> | 65 | NOC:One and Two Dimensional NMR Spectroscopy for Chemists  | Y   | Y | Y   | 4.5 |
| 80 | <a href="#">104101124</a> | 67 | NOC:Quantum Chemistry of Atoms and Molecules   | Y   | Y | Y   | 37  |
| 81 | <a href="#">104101126</a> | 38 | NOC:Quantum Mechanics and Molecular Spectroscopy   | Y   | Y | Y   | 9.0 |
| 82 | <a href="#">104101127</a> | 60 | NOC:Essentials of Oxidation, Reduction and C-C Bond Formation. Application in Organic Synthesis                  | Y   | Y | Y   | 5.1 |
| 83 | <a href="#">104101128</a> | 46 | NOC:Chemical Kinetics and Transition State Theory  | Y   | Y | --- | 4.2 |
| 84 | <a href="#">104105127</a> | 40 | NOC:Structure, Stereochemistry and Reactivity of Organic Compounds and Intermediates: A Problem Solving Approach | Y   | Y | --- | 7.3 |
| 85 | <a href="#">104105128</a> | 42 | NOC:Approximate Methods in Quantum Chemistry   | Y   | Y | Y   | 3.4 |
| 86 | <a href="#">104106127</a> | 56 | NOC:Symmetry, Stereochemistry and Applications   | Y   | Y | Y   | 3.8 |
| 87 | <a href="#">104106128</a> | 64 | NOC:Symmetry and Group Theory (2021)   | Y   | Y | Y   | 3.5 |
| 88 | <a href="#">104101130</a> | 77 | NOC:Concepts of Chemistry for Engineering  | Y   | Y | Y   | 9.2 |
| 89 | <a href="#">104104130</a> | 40 | NOC:Chemistry and Physics of Surfaces and Interfaces   | Y   | Y | --- | 4.1 |
| 90 | <a href="#">104105130</a> | 60 | NOC:Biological Inorganic Chemistry   | Y   | Y | --- | 4.7 |
| 91 | <a href="#">104106131</a> | 61 | NOC:Introductory Organic Chemistry - II  | Y   | Y | Y   | 2.4 |
| 92 | <a href="#">104108132</a> | 56 | NOC:Time Dependent Quantum Chemistry   | Y   | Y | Y   | 4.3 |
| 93 | <a href="#">104101133</a> | 58 | NOC:Classics in Total Synthesis-I  | --- | Y | --- | 4.7 |
| 94 | <a href="#">104101134</a> | 62 | NOC:Circular Dichroism and Mossbauer Spectroscopy for Chemists   | Y   | Y | Y   | 3.7 |
| 95 | <a href="#">104101135</a> | 60 | NOC:NMR Spectroscopy for Structural Biology  | --- | Y | --- | 6.8 |



|     |                           |     |   |     |     |     |     |
|-----|---------------------------|-----|---|-----|-----|-----|-----|
| 96  | <a href="#">104101136</a> | 60  | NOC:Transition Metal Chemistry  | Y   | Y   | Y   | 7.6 |
| 97  | <a href="#">104105133</a> | 40  | NOC:Principles and Applications of Enolate Alkylation                           | Y   | Y   | Y   | 3.5 |
| 98  | <a href="#">104101137</a> | 60  | NOC:Nuclear and Radiochemistry  | --- | Y   | --- | 7.4 |
| 99  | <a href="#">104106137</a> | 43  | NOC:Elementary Electrochemistry   | Y   | Y   | Y   | 4.6 |
| 100 | <a href="#">104106138</a> | 26  | NOC:Organic Chemistry-I (Tamil)   | --- | Y   | --- | 2.0 |
| 101 | <a href="#">104101139</a> | 60  | NOC:Fundamentals of Statistical Thermodynamics                                  | Y   | Y   | Y   | 6.7 |
| 102 | <a href="#">104105139</a> | 60  | NOC:Overview and Integration of Cellular Metabolism                             | Y   | Y   | Y   | 6.8 |
| 103 | <a href="#">104101362</a> | 60  | NOC:Interpretative Molecular Spectroscopy                                       | --- | Y   | --- | 4.7 |
| 104 | <a href="#">104101366</a> | 75  | NOC:Many Body Methods in Quantum Chemistry                                      | --- | Y   | --- | 19  |
| 105 | <a href="#">104104364</a> | 40  | NOC:Supramolecular Chemistry-I  | Y   | Y   | --- | 3.1 |
| 106 | <a href="#">104105365</a> | 60  | NOC:Elementary Thermodynamics for All   | --- | Y   | --- | 4.3 |
| 107 | <a href="#">104108363</a> | 60  | NOC:One and Two Dimensional NMR Spectroscopy:<br>Concepts and Spectral Analysis | Y   | Y   | Y   | 7.8 |
| 108 | <a href="#">104105085</a> | 40  | NOC:Co-ordination Chemistry (Chemistry of Transition Elements)                  | --- | Y   | --- | 19  |
| 109 | <a href="#">104105462</a> | --- | NOC:Molecular Rearrangements and Reactive Intermediates in<br>Organic Synthesis | --- | --- | --- | --- |

**Discipline : Civil Engineering**

[Go to Top](#)

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|    |                           |    |   |   |   |     |     |
|----|---------------------------|----|---|---|---|-----|-----|
| 1  | <a href="#">105101005</a> | 38 | Soil Dynamics                                     | Y | Y | Y   | 19  |
| 2  | <a href="#">105101006</a> | 38 | Structural Dynamics                               | Y | Y | Y   | 19  |
| 3  | <a href="#">105101010</a> | 40 | Watershed Management                              | Y | Y | Y   | 41  |
| 4  | <a href="#">105101082</a> | 42 | Fluid Mechanics                                   | Y | Y | Y   | 9.6 |
| 5  | <a href="#">105101084</a> | 57 | Soil Mechanics                                    | Y | Y | Y   | 15  |
| 6  | <a href="#">105101086</a> | 40 | Structural Analysis II                            | Y | Y | Y   | 9.8 |
| 7  | <a href="#">105101134</a> | 43 | Geotechnical Earthquake Engineering               | Y | Y | Y   | 37  |
| 8  | <a href="#">105101143</a> | 63 | Geosynthetics Engineering: In Theory and Practice | Y | Y | Y   | 59  |
| 9  | <a href="#">105102012</a> | 41 | Concrete Technology                               | Y | Y | Y   | 37  |
| 10 | <a href="#">105102016</a> | 30 | Seismic Analysis of Structures                    | Y | Y | Y   | 27  |
| 11 | <a href="#">105102088</a> | 41 | Building Materials and Construction               | Y | Y | Y   | 12  |
| 12 | <a href="#">105103021</a> | 43 | Advanced Hydraulics                               | Y | Y | Y   | 22  |
| 13 | <a href="#">105103094</a> | 40 | Design of Steel Structures                        | Y | Y | --- | 9.1 |
| 14 | <a href="#">105103096</a> | 40 | Hydraulics  | Y | Y | Y   | 20  |
| 15 | <a href="#">105104029</a> | 44 | Advanced Hydrology                                | Y | Y | Y   | 21  |
| 16 | <a href="#">105104030</a> | 40 | Concrete Engineering and Technology               | Y | Y | Y   | 16  |
| 17 | <a href="#">105104099</a> | 39 | Environmental Air Pollution                       | Y | Y | Y   | 7.0 |
| 18 | <a href="#">105104101</a> | 40 | Surveying   | Y | Y | Y   | 6.8 |
| 19 | <a href="#">105104103</a> | 29 | Water Resources Engineering                       | Y | Y | Y   | 3.5 |
| 20 | <a href="#">105104131</a> | 40 | Geotechnical Measurements and Explorations        | Y | Y | Y   | 11  |
| 21 | <a href="#">105104135</a> | 40 | Application of Soil Mechanics                     | Y | Y | Y   | 11  |

|    |           |    |  |   |   |   |     |
|----|-----------|----|--|---|---|---|-----|
| 22 | 105105039 | 40 | Advanced Foundation Engineering                            | Y | Y | Y | 12  |
| 23 | 105105043 | 40 | Numerical Methods in Civil Engineering                     | Y | Y | Y | 11  |
| 24 | 105105045 | 40 | Probability Methods in Civil Engineering                   | Y | Y | Y | 19  |
| 25 | 105105105 | 30 | Design of Reinforced Concrete Structures                   | Y | Y | Y | 6.3 |
| 26 | 105105106 | 40 | Engineering Geology  | Y | Y | Y | 12  |
| 27 | 105105107 | 41 | Introduction to Transportation Engineering                 | Y | Y | Y | 8.2 |
| 28 | 105105108 | 40 | Strength of Materials                                      | Y | Y | Y | 12  |
| 29 | 105106050 | 41 | Advanced Structural Analysis                               | Y | Y | Y | 18  |
| 30 | 105106051 | 40 | Finite Element Analysis                                    | Y | Y | Y | 27  |
| 31 | 105106052 | 40 | Geosynthetics and Reinforced Soil Structures               | Y | Y | Y | 17  |
| 32 | 105106053 | 42 | Modern Construction Materials                              | Y | Y | Y | 7.2 |
| 33 | 105106058 | 40 | Urban Transportation Planning                              | Y | Y | Y | 19  |
| 34 | 105106116 | 39 | Mechanics of solids  | Y | Y | Y | 3.5 |
| 35 | 105106118 | 40 | Pre-stressed Concrete Structures                           | Y | Y | Y | 11  |
| 36 | 105106119 | 40 | Water and Waste Water Engineering                          | Y | Y | Y | 11  |
| 37 | 105107120 | 40 | Foundation Engineering                                     | Y | Y | Y | 7.8 |
| 38 | 105107121 | 40 | Modern Surveying Techniques                                | Y | Y | Y | 1.9 |
| 39 | 105107123 | 40 | Transportation Engineering II                              | Y | Y | Y | 8.2 |
| 40 | 105108075 | 40 | Ground Improvement Techniques                              | Y | Y | Y | 11  |
| 41 | 105108079 | 40 | Stochastic Hydrology                                       | Y | Y | Y | 19  |
| 42 | 105108080 | 42 | Stochastic Structural Dynamics                             | Y | Y | Y | 19  |
| 43 | 105108130 | 40 | Water Resources Systems : Modeling Techniques and Analysis | Y | Y | Y | 20  |
| 44 | 105105042 | 40 | Ground Water Hydrology                                     | Y | Y | Y | 9.0 |
| 45 | 105101001 | 60 | Advanced Geotechnical Engineering                          | Y | Y | Y | 53  |
| 46 | 105106145 | 40 | NOC:Sustainable River Basin Management                     | Y | Y | Y | 2.8 |
| 47 | 105106149 | 57 | NOC:Project Planning and Control                           | Y | Y | Y | 6.5 |
| 48 | 105105150 | 25 | NOC:Probability Methods in Civil Engineering               | Y | Y | Y | 2.8 |
| 49 | 105104147 | 65 | NOC:Geology and Soil Mechanics                             | Y | Y | Y | 4.9 |
| 50 | 105104148 | 32 | NOC:Engineering Graphics                                   | Y | Y | Y | 1.6 |
| 51 | 105106151 | 68 | NOC:Structural Dynamics                                    | Y | Y | Y | 12  |
| 52 | 105104152 | 20 | NOC:Earth Sciences for Civil Engineering                   | Y | Y | Y | 1.6 |
| 53 | 105108141 | 40 | Finite Element method for vibration and Stability analyses | Y | Y | Y | 14  |
| 54 | 105107155 | 20 | NOC:Introduction to Geographic Information Systems         | Y | Y | Y | 5.3 |
| 55 | 105107156 | 20 | NOC:Principles and Applications of Building Science        | Y | Y | Y | 6.2 |
| 56 | 105107157 | 20 | NOC:GPS Surveying  | Y | Y | Y | 6.4 |
| 57 | 105105156 | 20 | NOC:Visual Semiotics for Visual Communication              | Y | Y | Y | 7.6 |
| 58 | 105104156 | 20 | NOC:Earth Sciences for Civil Engineering - Part 2          | Y | Y | Y | 2.1 |
| 59 | 105102159 | 40 | Water Management   | Y | Y | Y | 27  |

|    |           |     |  |   |   |   |     |
|----|-----------|-----|--|---|---|---|-----|
| 60 | 105107158 | 40  | NOC:Digital Land Surveying And Mapping   | Y | Y | Y | 11  |
| 61 | 105105157 | 40  | NOC:Life Cycle Assessment  | Y | Y | Y | 11  |
| 62 | 105104157 | 32  | NOC:Hydration, Porosity and Strength of Cementitious Materials   | Y | Y | Y | 2.4 |
| 63 | 105101160 | 22  | NOC:Geotechnical Engineering Laboratory  | Y | Y | Y | 11  |
| 64 | 105104160 | 60  | NOC:Mechanics of Solids  | Y | Y | Y | 4.6 |
| 65 | 105104161 | 37  | NOC:Principles of Construction Management  | Y | Y | Y | 5.4 |
| 66 | 105104162 | 40  | NOC:Foundation Design  | Y | Y | Y | 2.6 |
| 67 | 105105160 | 62  | NOC:Integrated Waste Management for a Smart City   | Y | Y | Y | 16  |
| 68 | 105105161 | 51  | NOC:Computational Hydraulics   | Y | Y | Y | 13  |
| 69 | 105105162 | 63  | NOC:Design of Steel Structures   | Y | Y | Y | 18  |
| 70 | 105105165 | 20  | NOC:Reinforced Concrete Road Bridges   | Y | Y | Y | 5.8 |
| 71 | 105105166 | 61  | NOC:Structural Analysis - I  | Y | Y | Y | 17  |
| 72 | 105107160 | 20  | NOC:Digital Image Processing of Remote Sensing Data  | Y | Y | Y | 5.2 |
| 73 | 105102160 | 42  | NOC:Geoenvironmental Engineering (Environmental Geotechnology)<br>Landfills, Slurry Ponds and Contaminated Sites | Y | Y | Y | 29  |
| 74 | 105105169 | 22  | NOC:Electronic Waste Management: Issues And Challenges   | Y | Y | Y | 5.9 |
| 75 | 105107174 | 20  | NOC:Digital Elevation Models and Applications  | Y | Y | Y | 5.7 |
| 76 | 105104167 | 21  | NOC:Photogeology In Terrain Evaluation   | Y | Y | Y | 4.7 |
| 77 | 105102175 | 55  | NOC:Energy Efficiency, Acoustics and Daylighting in Building   | Y | Y | Y | 27  |
| 78 | 105106172 | 102 | NOC:Mechanics of Materials   | Y | Y | Y | 18  |
| 79 | 105107173 | 60  | NOC:Applied Environmental Microbiology   | Y | Y | Y | 15  |
| 80 | 105105168 | 61  | NOC:Soil Mechanics, Geotechnical Engineering-I   | Y | Y | Y | 15  |
| 81 | 105105170 | 60  | NOC:Mineral Resources: Geology, Exploration, Economics and Environment   | Y | Y | Y | 16  |
| 82 | 105105171 | 64  | NOC:Introduction to Mineral Processing   | Y | Y | Y | 17  |
| 83 | 105101176 | 21  | NOC:Geosynthetics Testing Laboratory   | Y | Y | Y | 20  |
| 84 | 105102176 | 56  | NOC:Fire Protection, Services and Maintenance Management of Building   | Y | Y | Y | 28  |
| 85 | 105103176 | 36  | NOC:Higher Surveying   | Y | Y | Y | 20  |
| 86 | 105103177 | 36  | NOC:Unsaturated Soil Mechanics   | Y | Y | Y | 9.3 |
| 87 | 105104177 | 20  | NOC:Photogeology In Terrain Evaluation - Part 2  | Y | Y | Y | 5.7 |
| 88 | 105104178 | 38  | NOC:Introduction to Accounting and Finance for Civil Engineers   | Y | Y | Y | 11  |
| 89 | 105105176 | 60  | NOC:Foundation Engineering   | Y | Y | Y | 18  |
| 90 | 105105177 | 60  | NOC:Theory of Elasticity   | Y | Y | Y | 17  |
| 91 | 105105178 | 62  | NOC:Wastewater Treatment and Recycling   | Y | Y | Y | 15  |
| 92 | 105105179 | 40  | NOC:Fluid Inclusion in Mineral Principles, Methodology,<br>Practice and Application                              | Y | Y | Y | 12  |
| 93 | 105105180 | 42  | NOC:Matrix Method of Structural Analysis   | Y | Y | Y | 9.0 |
| 94 | 105106176 | 44  | NOC:Advanced Concrete Technology   | Y | Y | Y | 78  |
| 95 | 105106177 | 87  | NOC:Glass in buildings: Design and Application   | Y | Y | Y | 64  |
| 96 | 105106178 | 75  | NOC:Glass Processing Technology  | Y | Y | Y | 50  |

|     |           |    |  |     |   |     |     |
|-----|-----------|----|--|-----|---|-----|-----|
| 97  | 105107176 | 60 | NOC:Environmental Engineering-Chemical Processes               | Y   | Y | Y   | 12  |
| 98  | 105103182 | 21 | NOC:Subsurface Exploration: Importance and Techniques Involved | Y   | Y | Y   | 8.8 |
| 99  | 105104183 | 43 | NOC:Natural Hazards - Part 1                                   | Y   | Y | Y*  | 14  |
| 100 | 105105184 | 40 | NOC:Plastic Waste Management                                   | Y   | Y | Y   | 11  |
| 101 | 105105185 | 60 | NOC:Geotechnical Engineering-II Foundation Engineering         | Y   | Y | Y   | 16  |
| 102 | 105105186 | 43 | NOC:Mass, Momentum and Energy Balances in Engineering Analysis | Y   | Y | Y   | 11  |
| 103 | 105106187 | 29 | NOC:Advanced Topics in the Science and Technology of Concrete  | Y   | Y | Y   | 39  |
| 104 | 105106188 | 47 | NOC:Infrastructure Planning and Managements                    | Y   | Y | Y   | 64  |
| 105 | 105107181 | 63 | NOC:Environmental Remediation of Contaminated Sites            | Y   | Y | Y   | 16  |
| 106 | 105101196 | 53 | NOC:Environmental Geotechnics                                  | Y   | Y | Y   | 17  |
| 107 | 105102195 | 47 | NOC:Sustainable Materials and Green Buildings                  | Y   | Y | Y   | 23  |
| 108 | 105102199 | 12 | NOC:Scheduling Techniques in Projects                          | Y   | Y | Y   | 9.1 |
| 109 | 105103192 | 37 | NOC:Fluid Mechanics  | Y*  | Y | Y*  | 15  |
| 110 | 105103193 | 24 | NOC:Remote Sensing and GIS                                     | Y   | Y | Y   | 9.8 |
| 111 | 105104189 | 13 | NOC:Structural Dynamics for Civil Engineers - SDOF systems     | Y   | Y | Y   | 6.4 |
| 112 | 105104190 | 38 | NOC:Geomorphic Processes: Landforms and Landscapes             | Y   | Y | Y   | 13  |
| 113 | 105104191 | 48 | NOC:Structural Geology   | Y   | Y | Y   | 38  |
| 114 | 105106197 | 40 | NOC:Design of Masonry Structures                               | Y   | Y | Y   | 85  |
| 115 | 105107194 | 20 | NOC:Global Navigation Satellite Systems And Applications       | Y   | Y | Y   | 4.7 |
| 116 | 105106200 | 67 | NOC:Characterization of Construction Materials                 | Y   | Y | Y   | 53  |
| 117 | 105104200 | 57 | NOC:Earthquake Geology: A tool for Seismic Hazard Assessment   | Y   | Y | Y   | 34  |
| 118 | 105101200 | 56 | NOC:Environmental Geomechanics                                 | Y   | Y | Y   | 25  |
| 119 | 105107200 | 60 | NOC:Geomorphology  | Y   | Y | Y   | 13  |
| 120 | 105105202 | 19 | NOC:Geo Spatial Analysis in Urban Planning                     | Y   | Y | Y   | 5.3 |
| 121 | 105101201 | 28 | NOC:Geotechnical Engineering - 1                               | Y   | Y | Y   | 47  |
| 122 | 105105203 | 63 | NOC:Hydraulic Engineering                                      | Y   | Y | Y   | 17  |
| 123 | 105106201 | 20 | NOC:Introduction to Civil Engineering Profession               | Y   | Y | Y   | 23  |
| 124 | 105106202 | 35 | NOC:Maintenance and Repair of Concrete Structures              | Y   | Y | Y   | 26  |
| 125 | 105106203 | 56 | NOC:Mechanical Characterization of Bituminous Materials        | Y   | Y | Y   | 40  |
| 126 | 105107201 | 56 | NOC:Remote Sensing Essentials                                  | Y   | Y | Y   | 14  |
| 127 | 105105200 | 66 | NOC:Soil Structure Interaction                                 | Y   | Y | Y   | 28  |
| 128 | 105105201 | 62 | NOC:Water Supply Engineering                                   | Y   | Y | Y   | 20  |
| 129 | 105107204 | 40 | NOC:Earthquake Resistant Design of Foundations                 | --- | Y | --- | 5.9 |
| 130 | 105108204 | 64 | NOC:Introduction to Engineering Seismology                     | Y   | Y | --- | 9.9 |
| 131 | 105105204 | 60 | NOC:Introduction to Multimodal Urban Transportation Systems    | Y   | Y | Y   | 17  |
| 132 | 105103205 | 43 | NOC:Municipal Solid Waste Management                           | Y   | Y | Y   | 9.7 |
| 133 | 105103204 | 24 | NOC:River Engineering  | Y   | Y | Y   | 6.6 |
| 134 | 105101206 | 67 | NOC:Remote Sensing: Principles and Applications                | Y   | Y | Y   | 16  |

|     |           |     |   |     |   |     |     |
|-----|-----------|-----|---|-----|---|-----|-----|
| 135 | 105102206 | 27  | NOC:Safety in Construction                                      | Y   | Y | Y   | 5.4 |
| 136 | 105103206 | 22  | NOC:Construction Methods and Equipment Management               | Y   | Y | Y   | 4.7 |
| 137 | 105103207 | 57  | NOC:Advanced Soil Mechanics                                     | Y   | Y | Y   | 5.7 |
| 138 | 105104206 | 32  | NOC:Development and Applications of Special Concretes           | Y   | Y | Y   | 3.9 |
| 139 | 105105207 | 70  | NOC:Advanced Foundation Engineering                             | Y   | Y | Y   | 7.8 |
| 140 | 105105208 | 60  | NOC:Urban Transport Systems Planning                            | Y   | Y | Y   | 7.1 |
| 141 | 105106206 | 51  | NOC:Basic Construction Materials                                | Y   | Y | Y   | 6.4 |
| 142 | 105107206 | 60  | NOC:Geographic Information Systems                              | Y   | Y | Y   | 13  |
| 143 | 105107207 | 60  | NOC:Water and Waste Water Treatment                             | Y   | Y | Y   | 8.1 |
| 144 | 105107208 | 60  | NOC:Rock Engineering  | Y   | Y | Y   | 7.1 |
| 145 | 105101209 | 29  | NOC:Dynamics of Structures                                      | Y   | Y | Y   | 2.9 |
| 146 | 105103209 | 36  | NOC:Plates and Shells   | Y   | Y | Y   | 5.3 |
| 147 | 105103210 | 38  | NOC:Optimization methods for Civil engineering                  | Y   | Y | --- | 4.1 |
| 148 | 105105209 | 252 | NOC:Structural Reliability                                      | Y   | Y | Y   | 4.2 |
| 149 | 105105210 | 60  | NOC:Ground Improvement  | Y   | Y | Y   | 8.2 |
| 150 | 105105211 | 20  | NOC:Remote Sensing of Leaf Area Index and Primary Productivity  | Y   | Y | Y   | 2.5 |
| 151 | 105105212 | 61  | NOC:Rock Mechanics and Tunneling                                | Y   | Y | Y   | 6.3 |
| 152 | 105107209 | 60  | NOC:Finite Element Method and Computational Structural Dynamics | Y   | Y | Y   | 12  |
| 153 | 105107210 | 60  | NOC:Sustainable Transportation Systems                          | Y   | Y | Y   | 7.1 |
| 154 | 105101213 | 58  | NOC:Microwave Remote Sensing in Hydrology                       | --- | Y | --- | 11  |
| 155 | 105101214 | 60  | NOC:Groundwater Hydrology and Management                        | Y   | Y | Y   | 4.8 |
| 156 | 105101215 | 60  | NOC:Rural Water Resources Management                            | Y   | Y | Y   | 4.4 |
| 157 | 105103213 | 83  | NOC:Engineering Hydrology                                       | Y   | Y | Y   | 8.8 |
| 158 | 105103214 | 28  | NOC:Expansive Soil  | Y   | Y | Y   | 2.9 |
| 159 | 105105213 | 63  | NOC:Retrofitting and Rehabilitation of Civil Infrastructure     | Y   | Y | --- | 6.5 |
| 160 | 105105214 | 62  | NOC:Surface Water Hydrology                                     | Y   | Y | Y   | 11  |
| 161 | 105105215 | 66  | NOC:Traffic Engineering   | --- | Y | Y   | 11  |
| 162 | 105106213 | 77  | NOC:Introduction to Lean Construction                           | Y   | Y | Y   | 3.4 |
| 163 | 105107213 | 60  | NOC:Air Pollution and Control                                   | Y   | Y | Y   | 6.8 |
| 164 | 105101216 | 52  | NOC:Geotechnical Engineering-II                                 | Y   | Y | Y   | 12  |
| 165 | 105104216 | 17  | NOC:Introductory Field Structural Geology                       | --- | Y | --- | 4.3 |
| 166 | 105105216 | 43  | NOC:Bridge Engineering  | --- | Y | --- | 5.3 |
| 167 | 105105217 | 60  | NOC:Elastic Stability of Structures                             | --- | Y | Y   | 4.0 |
| 168 | 105105218 | 35  | NOC:Radiogenic Isotope Geology                                  | --- | Y | --- | 2.5 |
| 169 | 105105219 | 60  | NOC:Availability and Management of Groundwater Resources        | Y   | Y | Y   | 5.0 |
| 170 | 105106216 | 23  | NOC:Design of Connections in Steel Structures                   | Y   | Y | Y   | 1.8 |
| 171 | 105107216 | 60  | NOC:Underground Space Technology                                | Y   | Y | Y   | 6.1 |
| 172 | 105107217 | 60  | NOC:Environmental Modeling and Simulation                       | --- | Y | --- | 6.4 |



|     |                           |     |  |     |     |     |     |
|-----|---------------------------|-----|--|-----|-----|-----|-----|
| 173 | <a href="#">105107218</a> | 60  | NOC:Advanced Geomatics Engineering   | --- | Y   | --- | 7.9 |
| 174 | <a href="#">105107219</a> | 60  | NOC:Pavement Materials (Under Pavement Engineering)                          | Y   | Y   | Y   | 8.0 |
| 175 | <a href="#">105107220</a> | 62  | NOC:Geometric Design of Highways   | --- | Y   | --- | 5.9 |
| 176 | <a href="#">105101221</a> | 60  | NOC:Remote Sensing and GIS for Rural Development                             | Y   | Y   | Y   | 6.4 |
| 177 | <a href="#">105103221</a> | 38  | NOC:Vibration of Continuous Systems  | --- | Y   | --- | 4.5 |
| 178 | <a href="#">105105221</a> | 60  | NOC:Soil Dynamics  | Y   | Y   | --- | 5.2 |
| 179 | <a href="#">105106221</a> | 54  | NOC:Analysis and Design of Bituminous Pavements                              | Y   | Y   | --- | 8.1 |
| 180 | <a href="#">105106222</a> | 44  | NOC:FEM and Constitutive Modelling in Geomechanics                           | Y   | Y   | Y   | 6.4 |
| 181 | <a href="#">105106223</a> | 65  | NOC:The Evolution of the Earth and life                                      | Y   | Y   | --- | 5.2 |
| 182 | <a href="#">105103224</a> | 36  | NOC:Reliability-Based Structural Design                                      | --- | Y   | --- | 3.9 |
| 183 | <a href="#">105104224</a> | 44  | NOC:Earth Sciences for Civil Engineering (Hindi)                             | --- | Y   | --- | 4.5 |
| 184 | <a href="#">105105224</a> | 69  | NOC:Geotechnical Earthquake Engineering                                      | --- | Y   | --- | 7.7 |
| 185 | <a href="#">105105225</a> | 57  | NOC:Earthquake Seismology  | Y   | Y   | --- | 5.0 |
| 186 | <a href="#">105105226</a> | 60  | NOC:Engineering Geology  | --- | Y   | --- | 8.6 |
| 187 | <a href="#">105106224</a> | 67  | NOC:Advanced Reinforced Concrete Design                                      | --- | Y   | --- | 8.3 |
| 188 | <a href="#">105106225</a> | 76  | NOC:Admixtures and Special Concretes   | Y   | Y   | Y   | 12  |
| 189 | <a href="#">105107224</a> | 60  | NOC:Plate Tectonics  | Y   | Y   | Y   | 9.5 |
| 190 | <a href="#">105107225</a> | 60  | NOC:Earthquake Geotechnical Engineering                                      | Y   | Y   | --- | 7.3 |
| 191 | <a href="#">105103346</a> | 30  | NOC:Applied Seismology for Engineers   | --- | Y   | --- | 8.1 |
| 192 | <a href="#">105103347</a> | 41  | NOC:Structural Vibration   | --- | Y   | --- | 3.6 |
| 193 | <a href="#">105104348</a> | 42  | NOC:Construction Management  | --- | Y   | --- | 4.2 |
| 194 | <a href="#">105104349</a> | 39  | NOC:Laboratory Practices in Earth Sciences: Landscape Mapping                | Y   | Y   | Y   | 5.5 |
| 195 | <a href="#">105105350</a> | 60  | NOC:Industrial Wastewater Treatment  | --- | Y   | --- | 6.0 |
| 196 | <a href="#">105106351</a> | 22  | NOC:Advanced Topics in Science and Technology of Concrete                    | Y   | Y   | Y   | 2.4 |
| 197 | <a href="#">105101474</a> | --- | NOC:Stress and Strain Issues in Structural Geology                           | --- | --- | --- | --- |
| 198 | <a href="#">105105464</a> | --- | NOC:Geoengineering   | --- | --- | --- | --- |
| 199 | <a href="#">105106465</a> | --- | NOC:An Introduction to Climate Dynamics, Variability and Monitoring          | --- | --- | --- | --- |
| 200 | <a href="#">105106491</a> | --- | NOC:Indoor Air Pollution: Sources, Effects, Monitoring, Control and Modeling | --- | --- | --- | --- |
| 201 | <a href="#">105107463</a> | --- | NOC:Railway Engineering  | --- | --- | --- | --- |
| 202 | <a href="#">105107473</a> | --- | NOC:Groundwater Engineering  | --- | --- | --- | --- |

**Discipline : Computer Science and Engineering**

[Go to Top](#)

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|   |                           |    |                                   |   |   |   |     |
|---|---------------------------|----|-----------------------------------|---|---|---|-----|
| 1 | <a href="#">106101007</a> | 40 | Natural Language Processing       | Y | Y | Y | 31  |
| 2 | <a href="#">106101060</a> | 34 | Design and Analysis of Algorithms | Y | Y | Y | 8.3 |
| 3 | <a href="#">106101061</a> | 39 | Software Engineering              | Y | Y | Y | 11  |
| 4 | <a href="#">106102011</a> | 40 | Computational Geometry            | Y | Y | Y | 26  |
| 5 | <a href="#">106102013</a> | 39 | Logic for CS                      | Y | Y | Y | 31  |

|    |                           |    |  |   |   |   |     |
|----|---------------------------|----|--|---|---|---|-----|
| 6  | <a href="#">106102062</a> | 38 | Computer Architecture (Prof. Anshul Kumar)                   | Y | Y | Y | 9.0 |
| 7  | <a href="#">106102064</a> | 36 | Data Structures And Algorithms                               | Y | Y | Y | 9.3 |
| 8  | <a href="#">106102065</a> | 35 | Introduction to Computer Graphics                            | Y | Y | Y | 7.7 |
| 9  | <a href="#">106102067</a> | 40 | Principles of Programming Languages                          | Y | Y | Y | 9.8 |
| 10 | <a href="#">106102114</a> | 34 | Parallel Computing   | Y | Y | Y | 8.8 |
| 11 | <a href="#">106103116</a> | 44 | Design Verification and Test of Digital VLSI Circuits        | Y | Y | Y | 25  |
| 12 | <a href="#">106104019</a> | 35 | Computer Algorithms - 2                                      | Y | Y | Y | 18  |
| 13 | <a href="#">106104028</a> | 42 | Theory of Computation  | Y | Y | Y | 20  |
| 14 | <a href="#">106104074</a> | 24 | Introduction to Problem Solving and Programming              | Y | Y | Y | 2.5 |
| 15 | <a href="#">106104118</a> | 30 | Riemann Hypothesis and its Applications                      | Y | Y | Y | 6.9 |
| 16 | <a href="#">106104119</a> | 26 | Biometrics   | Y | Y | Y | 11  |
| 17 | <a href="#">106104120</a> | 25 | Parallel Algorithm   | Y | Y | Y | 13  |
| 18 | <a href="#">106104122</a> | 36 | Computer Architecture (Dr. Mainak Chaudhuri)                 | Y | Y | Y | 15  |
| 19 | <a href="#">106104123</a> | 30 | Compiler Design (Prof. Sanjeev K Aggarwal)                   | Y | Y | Y | 12  |
| 20 | <a href="#">106104128</a> | 59 | NOC:Introduction to Programming in C                         | Y | Y | Y | 3.1 |
| 21 | <a href="#">106105031</a> | 41 | Cryptography and Network Security                            | Y | Y | Y | 19  |
| 22 | <a href="#">106105033</a> | 41 | High Performance Computer Architecture                       | Y | Y | Y | 11  |
| 23 | <a href="#">106105034</a> | 40 | Low Power VLSI Circuits and Systems                          | Y | Y | Y | 19  |
| 24 | <a href="#">106105036</a> | 40 | Real Time Systems  | Y | Y | Y | 8.1 |
| 25 | <a href="#">106105077</a> | 40 | Artificial Intelligence (Prof. S. Sarkar, Prof. Anupam Basu) | Y | Y | Y | 8.8 |
| 26 | <a href="#">106105079</a> | 28 | Artificial Intelligence (Prof.P. Dasgupta)                   | Y | Y | Y | 7.6 |
| 27 | <a href="#">106105081</a> | 40 | Computer Networks  | Y | Y | Y | 12  |
| 28 | <a href="#">106105082</a> | 41 | Data Communication   | Y | Y | Y | 9.4 |
| 29 | <a href="#">106105083</a> | 35 | Electronic Design Automation                                 | Y | Y | Y | 7.5 |
| 30 | <a href="#">106105084</a> | 40 | Internet Technology  | Y | Y | Y | 12  |
| 31 | <a href="#">106105085</a> | 32 | Programming and Data Structure                               | Y | Y | Y | 4.8 |
| 32 | <a href="#">106106046</a> | 43 | Pattern Recognition  | Y | Y | Y | 19  |
| 33 | <a href="#">106106048</a> | 42 | Performance Evaluation of Computer Systems                   | Y | Y | Y | 17  |
| 34 | <a href="#">106106049</a> | 42 | Theory of Automata, Formal Languages and Computation         | Y | Y | Y | 19  |
| 35 | <a href="#">106106090</a> | 43 | Computer Graphics  | Y | Y | Y | 11  |
| 36 | <a href="#">106106092</a> | 33 | Computer Organization  | Y | Y | Y | 7.6 |
| 37 | <a href="#">106106093</a> | 43 | Database Design  | Y | Y | Y | 12  |
| 38 | <a href="#">106106094</a> | 40 | Discrete Mathematical Structures                             | Y | Y | Y | 11  |
| 39 | <a href="#">106106126</a> | 48 | Artificial Intelligence (Prof. Deepak Khemani)               | Y | Y | Y | 36  |
| 40 | <a href="#">106106127</a> | 61 | NOC:Programming, Data Structures and Algorithms              | Y | Y | Y | 13  |
| 41 | <a href="#">106106129</a> | 65 | NOC:Introduction to Information Security I                   | Y | Y | Y | 8.8 |
| 42 | <a href="#">106106130</a> | 18 | NOC:Programming and Data structures (PDS)                    | Y | Y | Y | 3.2 |
| 43 | <a href="#">106106131</a> | 56 | NOC:Design and Analysis of Algorithms                        | Y | Y | Y | 2.2 |

|    |                           |     |   |     |   |    |     |
|----|---------------------------|-----|---|-----|---|----|-----|
| 44 | <a href="#">106106133</a> | 55  | NOC:Programming, Data Structures and Algorithms (Aricent)         | --- | Y | Y  | 5.2 |
| 45 | <a href="#">106108051</a> | 41  | Combinatorics   | Y   | Y | Y  | 12  |
| 46 | <a href="#">106108052</a> | 50  | Compiler Design (Prof. Y.N. Srikanth)                             | Y   | Y | Y  | 18  |
| 47 | <a href="#">106108054</a> | 40  | Graph Theory  | Y   | Y | Y  | 19  |
| 48 | <a href="#">106108055</a> | 41  | High Performance Computing  | Y   | Y | Y  | 16  |
| 49 | <a href="#">106108056</a> | 41  | Numerical Optimization  | Y   | Y | Y  | 11  |
| 50 | <a href="#">106108058</a> | 43  | Storage Systems   | Y   | Y | Y  | 12  |
| 51 | <a href="#">106108102</a> | 40  | System Analysis and Design  | Y   | Y | Y  | 11  |
| 52 | <a href="#">106108113</a> | 46  | Principles of Compiler Design                                     | Y   | Y | Y  | 13  |
| 53 | <a href="#">106106134</a> | 33  | NOC:Computer Architecture   | Y   | Y | Y  | 3.0 |
| 54 | <a href="#">106106136</a> | 55  | NOC:Model Checking  | Y   | Y | Y  | 2.2 |
| 55 | <a href="#">106106137</a> | 28  | NOC:Functional Programming in Haskell                             | Y   | Y | Y  | 1.8 |
| 56 | <a href="#">106104135</a> | 48  | NOC:Fundamentals of Database Systems                              | Y   | Y | Y  | 3.1 |
| 57 | <a href="#">106106141</a> | 42  | NOC:Information Security - II                                     | Y   | Y | Y  | 8.8 |
| 58 | <a href="#">106106139</a> | 86  | NOC:Introduction to Machine Learning (Sponsored by Arihant)       | Y   | Y | Y  | 28  |
| 59 | <a href="#">106106140</a> | 113 | NOC:Artificial Intelligence: Knowledge Representation & Reasoning | Y   | Y | Y  | 6.1 |
| 60 | <a href="#">106106138</a> | 71  | Virtual Reality   | --- | Y | Y  | 20  |
| 61 | <a href="#">106106142</a> | 48  | NOC:Algorithms for Big Data                                       | Y   | Y | Y  | 11  |
| 62 | <a href="#">106105154</a> | 21  | NOC:Complex Network : Theory and Application                      | Y   | Y | Y  | 5.1 |
| 63 | <a href="#">106105153</a> | 52  | NOC:Object-Oriented Analysis and Design                           | Y   | Y | Y  | 12  |
| 64 | <a href="#">106105152</a> | 44  | NOC:Introduction to Machine Learning                              | Y   | Y | Y  | 11  |
| 65 | <a href="#">106105151</a> | 56  | NOC:Programming in C++  | Y   | Y | Y  | 13  |
| 66 | <a href="#">106105150</a> | 20  | NOC:Software Testing  | Y   | Y | Y  | 4.7 |
| 67 | <a href="#">106104148</a> | 40  | NOC:Theory of Computation   | Y   | Y | Y  | 3.7 |
| 68 | <a href="#">106107155</a> | 20  | NOC:Introduction to Cryptology                                    | Y   | Y | Y  | 5.4 |
| 69 | <a href="#">106104149</a> | 18  | NOC:Modern Algebra  | Y   | Y | Y  | 1.9 |
| 70 | <a href="#">106106146</a> | 34  | NOC:Privacy and Security in Online Social Networks                | Y   | Y | Y  | 5.5 |
| 71 | <a href="#">106106145</a> | 45  | NOC:Programming, Data Structures and Algorithms in Python         | Y   | Y | Y  | 2.5 |
| 72 | <a href="#">106106144</a> | 39  | NOC:Introduction to Operating Systems                             | Y   | Y | Y  | 13  |
| 73 | <a href="#">106106147</a> | 39  | NOC:Mobile Computing  | Y   | Y | Y  | 4.6 |
| 74 | <a href="#">106106143</a> | 64  | NOC:Reinforcement Learning  | Y   | Y | Y  | 36  |
| 75 | <a href="#">106106156</a> | 37  | NOC:Introduction to Modern Application Development                | Y   | Y | Y  | 1.4 |
| 76 | <a href="#">106105157</a> | 20  | Fundamental Algorithms:Design and Analysis                        | Y   | Y | Y  | 5.2 |
| 77 | <a href="#">106106158</a> | 42  | NOC:AI:Constraint Satisfaction                                    | Y   | Y | Y* | 31  |
| 78 | <a href="#">106102157</a> | 33  | NOC:Computer Architecture   | Y   | Y | Y  | 12  |
| 79 | <a href="#">106106157</a> | 60  | NOC:Information Security-3  | Y   | Y | Y  | 20  |
| 80 | <a href="#">106105160</a> | 40  | NOC:Wireless Ad Hoc and Sensor Networks                           | Y   | Y | Y  | 9.9 |
| 81 | <a href="#">106105158</a> | 65  | NOC:Natural Language Processing                                   | Y   | Y | Y  | 16  |

|     |                           |     |   |   |   |   |     |
|-----|---------------------------|-----|---|---|---|---|-----|
| 82  | <a href="#">106105161</a> | 64  | NOC:VLSI Physical Design  | Y | Y | Y | 17  |
| 83  | <a href="#">106105159</a> | 49  | NOC:Embedded Systems Design                                       | Y | Y | Y | 8.5 |
| 84  | <a href="#">106105162</a> | 60  | NOC:Cryptography and Network Security                             | Y | Y | Y | 15  |
| 85  | <a href="#">106105163</a> | 64  | NOC:Computer Architecture and Organization                        | Y | Y | Y | 18  |
| 86  | <a href="#">106105164</a> | 60  | NOC:Introduction to Algorithms and Analysis                       | Y | Y | Y | 15  |
| 87  | <a href="#">106105165</a> | 41  | NOC:Hardware Modeling using Verilog                               | Y | Y | Y | 11  |
| 88  | <a href="#">106105166</a> | 60  | NOC:Introduction to Internet of Things                            | Y | Y | Y | 13  |
| 89  | <a href="#">106105167</a> | 60  | NOC:Cloud Computing   | Y | Y | Y | 12  |
| 90  | <a href="#">106101163</a> | 60  | NOC:Software Testing  | Y | Y | Y | 28  |
| 91  | <a href="#">106106166</a> | 52  | NOC:Computer Organization   | Y | Y | Y | 23  |
| 92  | <a href="#">106106167</a> | 56  | NOC:Introduction to Wireless and Cellular Communications          | Y | Y | Y | 40  |
| 93  | <a href="#">106102163</a> | 84  | NOC:Introduction to Parallel Programming in OpenMP                | Y | Y | Y | 4.8 |
| 94  | <a href="#">106106168</a> | 27  | NOC:Distributed Systems   | Y | Y | Y | 2.6 |
| 95  | <a href="#">106106169</a> | 166 | NOC:Social Networks   | Y | Y | Y | 43  |
| 96  | <a href="#">106105172</a> | 20  | NOC:Real Time Operating System                                    | Y | Y | Y | 5.0 |
| 97  | <a href="#">106106176</a> | 26  | NOC:An Introduction to Probability in Computing                   | Y | Y | Y | 8.5 |
| 98  | <a href="#">106104170</a> | 23  | NOC:Advanced Graph Theory   | Y | Y | Y | 11  |
| 99  | <a href="#">106105173</a> | 40  | NOC:Introduction to Soft Computing                                | Y | Y | Y | 10  |
| 100 | <a href="#">106105174</a> | 44  | NOC:Data Mining   | Y | Y | Y | 11  |
| 101 | <a href="#">106105175</a> | 42  | NOC:Data Base Management System                                   | Y | Y | Y | 13  |
| 102 | <a href="#">106106177</a> | 28  | NOC:Introduction to Human Computer Interaction                    | Y | Y | Y | 12  |
| 103 | <a href="#">106106178</a> | 60  | NOC:Information Security - IV                                     | Y | Y | Y | 43  |
| 104 | <a href="#">106106179</a> | 50  | NOC:Data Science for Engineers                                    | Y | Y | Y | 15  |
| 105 | <a href="#">106103180</a> | 39  | NOC:Computer Organization and Architecture - A Pedagogical Aspect | Y | Y | Y | 9.8 |
| 106 | <a href="#">106105171</a> | 61  | NOC:Problem Solving through Programming in C                      | Y | Y | Y | 15  |
| 107 | <a href="#">106102181</a> | 26  | NOC:Synthesis of Digital Systems                                  | Y | Y | Y | 27  |
| 108 | <a href="#">106101182</a> | 22  | NOC:Design and Pedagogy of the Introductory Programming Course    | Y | Y | Y | 17  |
| 109 | <a href="#">106103182</a> | 37  | NOC:Embedded Systems-Design Verification and Test                 | Y | Y | Y | 14  |
| 110 | <a href="#">106103183</a> | 29  | NOC:Multi-Core Computer Architecture-Storage and Interconnects    | Y | Y | Y | 12  |
| 111 | <a href="#">106104182</a> | 21  | NOC:Cloud Computing and Distributed Systems                       | Y | Y | Y | 9.0 |
| 112 | <a href="#">106105182</a> | 60  | NOC:Software Engineering  | Y | Y | Y | 15  |
| 113 | <a href="#">106105183</a> | 60  | NOC:Computer Networks and Internet Protocol                       | Y | Y | Y | 15  |
| 114 | <a href="#">106105184</a> | 60  | NOC:Blockchain Architecture Design and Use Cases                  | Y | Y | Y | 32  |
| 115 | <a href="#">106105185</a> | 60  | NOC:Switching Circuits and Logic Design                           | Y | Y | Y | 15  |
| 116 | <a href="#">106105186</a> | 40  | NOC:Scalable Data Science   | Y | Y | Y | 8.0 |
| 117 | <a href="#">106106182</a> | 226 | NOC:The Joy of Computing using Python                             | Y | Y | Y | 44  |
| 118 | <a href="#">106106183</a> | 465 | NOC:Discrete Mathematics  | Y | Y | Y | 31  |
| 119 | <a href="#">106106184</a> | 117 | NOC:Deep Learning   | Y | Y | Y | 41  |

|     |           |     |  |   |   |    |     |
|-----|-----------|-----|--|---|---|----|-----|
| 120 | 106103187 | 40  | NOC:Randomized Algorithms  | Y | Y | Y  | 28  |
| 121 | 106103188 | 37  | NOC:Parallel Algorithms  | Y | Y | Y  | 14  |
| 122 | 106104189 | 34  | NOC:Big Data Computing   | Y | Y | Y  | 14  |
| 123 | 106105190 | 61  | NOC:Compiler Design  | Y | Y | Y  | 16  |
| 124 | 106105191 | 60  | NOC:Programming in Java  | Y | Y | Y  | 17  |
| 125 | 106105192 | 60  | NOC:Discrete Structures  | Y | Y | Y  | 20  |
| 126 | 106105193 | 42  | NOC:Embedded System Design with ARM                                | Y | Y | Y  | 9.6 |
| 127 | 106105194 | 60  | NOC:Hardware Security  | Y | Y | Y  | 16  |
| 128 | 106105195 | 65  | NOC:Introduction to Industry 4.0 and Industrial Internet of Things | Y | Y | Y  | 25  |
| 129 | 106105196 | 60  | NOC:Introduction to Automata, Languages and Computation            | Y | Y | Y  | 15  |
| 130 | 106106197 | 77  | NOC:Foundations to Computer Systems Design                         | Y | Y | Y* | 121 |
| 131 | 106106198 | 106 | NOC:Machine Learning for Engineering and Science Applications      | Y | Y | Y  | 70  |
| 132 | 106106199 | 59  | NOC:Information Security 5 - Secure Systems Engineering            | Y | Y | Y  | 27  |
| 133 | 106106200 | 56  | NOC:Multimodal Interaction   | Y | Y | Y  | 30  |
| 134 | 106106201 | 37  | NOC:Deep Learning - Part 2   | Y | Y | Y  | 18  |
| 135 | 106106202 | 50  | NOC:Machine Learning, ML   | Y | Y | Y  | 21  |
| 136 | 106101208 | 120 | NOC:An Introduction to Programming Through C++                     | Y | Y | Y  | 47  |
| 137 | 106101209 | 100 | NOC:Demystifying Networking  | Y | Y | Y  | 7.6 |
| 138 | 106103205 | 43  | NOC:Discrete Mathematics   | Y | Y | Y  | 26  |
| 139 | 106103206 | 33  | NOC:Advanced Computer Architecture                                 | Y | Y | Y  | 6.7 |
| 140 | 106105214 | 60  | NOC:Operating System Fundamentals                                  | Y | Y | Y  | 16  |
| 141 | 106105215 | 60  | NOC:Deep Learning (2019)   | Y | Y | Y  | 16  |
| 142 | 106105216 | 60  | NOC:Computer Vision  | Y | Y | Y  | 17  |
| 143 | 106105217 | 62  | NOC:Ethical Hacking  | Y | Y | Y  | 12  |
| 144 | 106105218 | 60  | NOC:Software Project Management                                    | Y | Y | Y  | 16  |
| 145 | 106105219 | 40  | NOC:Spatial Informatics  | Y | Y | Y  | 12  |
| 146 | 106106210 | 22  | NOC:C Programming and Assembly Language                            | Y | Y | Y  | 33  |
| 147 | 106106211 | 92  | NOC:Applied Natural Language Processing                            | Y | Y | Y  | 69  |
| 148 | 106106212 | 40  | NOC:Python for Data Science  | Y | Y | Y  | 50  |
| 149 | 106106213 | 38  | NOC:Practical Machine Learning with Tensorflow                     | Y | Y | Y  | 21  |
| 150 | 106102132 | 40  | Operating Systems  | Y | Y | Y  | 5.0 |
| 151 | 106102220 | 96  | NOC:An Introduction to Artificial Intelligence                     | Y | Y | Y  | 24  |
| 152 | 106104221 | 24  | NOC:Arithmetic Circuit Complexity                                  | Y | Y | Y  | 21  |
| 153 | 106107220 | 60  | NOC:Data Analytics with Python                                     | Y | Y | Y  | 4.4 |
| 154 | 106106221 | 59  | NOC:Foundations of Cryptography                                    | Y | Y | Y  | 8.3 |
| 155 | 106105220 | 63  | NOC:GPU Architectures and Programming                              | Y | Y | Y  | 13  |
| 156 | 106104220 | 29  | NOC:Introduction to Blockchain Technology and Applications         | Y | Y | Y  | 9.5 |
| 157 | 106106220 | 41  | NOC:Introduction to Database Systems                               | Y | Y | Y  | 32  |



|     |                           |    |   |     |   |     |     |
|-----|---------------------------|----|---|-----|---|-----|-----|
| 158 | <a href="#">106106222</a> | 37 | NOC:Modern Application Development (2020.S1)  | Y   | Y | Y   | 20  |
| 159 | <a href="#">106103220</a> | 31 | NOC:User-centric Computing for Human-Computer Interaction                           | Y   | Y | Y   | 22  |
| 160 | <a href="#">106105223</a> | 83 | NOC:Google Cloud Computing Foundation Course  | Y   | Y | --- | 1.2 |
| 161 | <a href="#">110101145</a> | 60 | NOC:Bandit Algorithm (Online Machine Learning)                                      | Y   | Y | Y   | 37  |
| 162 | <a href="#">106103224</a> | 32 | NOC:Computer Graphics   | Y   | Y | Y   | 6.0 |
| 163 | <a href="#">106105225</a> | 60 | NOC:Data Structure and Algorithms using Java  | Y   | Y | --- | 32  |
| 164 | <a href="#">106106224</a> | 79 | NOC:Deep Learning for Computer Vision   | Y   | Y | Y   | 6.1 |
| 165 | <a href="#">106105224</a> | 60 | NOC:Object Oriented System Development using UML, Java and Patterns                 | Y   | Y | Y   | 19  |
| 166 | <a href="#">106106226</a> | 95 | NOC:Artificial Intelligence Search Methods For Problem Solving                      | Y   | Y | --- | 11  |
| 167 | <a href="#">106104227</a> | 41 | NOC:Computational Complexity Theory   | Y   | Y | --- | 9.5 |
| 168 | <a href="#">106104228</a> | 26 | NOC:Randomized Methods in Complexity  | Y   | Y | Y   | 5.4 |
| 169 | <a href="#">106108227</a> | 72 | NOC:Discrete Mathematics (IIITB)  | Y   | Y | Y   | 5.2 |
| 170 | <a href="#">106102229</a> | 33 | NOC:Advanced Computer Architecture  | Y   | Y | Y   | 3.6 |
| 171 | <a href="#">106103229</a> | 43 | NOC:C-Based VLSI Design   | Y   | Y | Y   | 5.6 |
| 172 | <a href="#">106105229</a> | 61 | NOC:Real-Time Systems   | Y   | Y | Y   | 5.5 |
| 173 | <a href="#">106105230</a> | 60 | NOC:Algorithms for Protein Modelling and Engineering                                | Y   | Y | --- | 7.0 |
| 174 | <a href="#">106106229</a> | 63 | NOC:Computational Complexity  | Y   | Y | --- | 6.2 |
| 175 | <a href="#">106106230</a> | 50 | NOC:Parameterized Algorithms  | Y   | Y | --- | 5.3 |
| 176 | <a href="#">106106231</a> | 54 | NOC:Getting Started with Competitive Programming                                    | Y   | Y | Y   | 1.9 |
| 177 | <a href="#">106106232</a> | 25 | NOC:Introduction to Quantum Computing: Quantum Algorithms and Qiskit                | --- | Y | --- | 1.8 |
| 178 | <a href="#">106108229</a> | 59 | NOC:Secure Computation: Part I  | Y   | Y | Y   | 5.1 |
| 179 | <a href="#">106104233</a> | 32 | NOC:Probability for Computer Science  | Y   | Y | --- | 4.7 |
| 180 | <a href="#">106101234</a> | 55 | NOC:Design and Engineering of Computer Systems                                      | Y   | Y | Y   | 5.6 |
| 181 | <a href="#">106101235</a> | 25 | NOC:Software Conceptual Design  | Y   | Y | Y   | 0.4 |
| 182 | <a href="#">106105234</a> | 75 | NOC:Programming in Modern C++   | Y   | Y | Y   | 8.9 |
| 183 | <a href="#">106105235</a> | 60 | NOC:Blockchain and its Applications   | --- | Y | --- | 7.1 |
| 184 | <a href="#">106106234</a> | 18 | NOC:Systems and Usable Security   | --- | Y | --- | 1.4 |
| 185 | <a href="#">106106235</a> | 25 | NOC:Online Privacy  | Y   | Y | Y   | 4.0 |
| 186 | <a href="#">106106236</a> | 62 | NOC:Introduction to Machine Learning (Tamil)  | --- | Y | --- | 3.6 |
| 187 | <a href="#">106106237</a> | 48 | Compiler Design   | --- | Y | --- | 4.1 |
| 188 | <a href="#">106101237</a> | 62 | NOC:Introduction to Game Theory and Mechanism Design                                | --- | Y | --- | 3.3 |
| 189 | <a href="#">106101238</a> | 20 | NOC:Introduction to Computer and Network Performance Analysis using Queuing Systems | --- | Y | --- | 2.3 |
| 190 | <a href="#">106102237</a> | 28 | NOC:Advanced Distributed systems  | Y   | Y | Y   | 3.5 |
| 191 | <a href="#">106103237</a> | 44 | NOC:Design and Implementation of Human-Computer Interfaces                          | Y   | Y | Y   | 5.8 |
| 192 | <a href="#">106105237</a> | 60 | NOC:Algorithmic Game Theory   | Y   | Y | Y   | 4.2 |
| 193 | <a href="#">106105238</a> | 40 | NOC:Machine Learning for Earth System Sciences                                      | Y   | Y | Y   | 4.3 |
| 194 | <a href="#">106105239</a> | 60 | NOC:Statistical Learning for Reliability Analysis                                   | Y   | Y | Y   | 6.7 |

|  |                           |     |  |     |     |     |     |
|--|---------------------------|-----|--|-----|-----|-----|-----|
| 195  | <a href="#">106106238</a> | 61  | NOC:Applied Accelerated Artificial Intelligence                          | Y   | Y   | Y   | 4.2 |
| 196  | <a href="#">106106239</a> | 74  | NOC:Social Network Analysis  | Y   | Y   | Y   | 5.5 |
| 197  | <a href="#">106108237</a> | 62  | NOC:Secure Computation - Part II   | Y   | Y   | Y   | 5.1 |
| 198  | <a href="#">106104241</a> | 60  | NOC:Circuit Complexity Theory  | --- | Y   | --- | 11  |
| 199  | <a href="#">106104242</a> | 22  | NOC:Foundation of Cloud IoT Edge ML                                      | Y   | Y   | --- | 4.9 |
| 200  | <a href="#">106105241</a> | 59  | NOC:Foundations of Cyber Physical Systems                                | Y   | Y   | Y   | 6.0 |
| 201  | <a href="#">106105242</a> | 60  | NOC:Selected Topics in Algorithms  | Y   | Y   | Y   | 3.6 |
| 202  | <a href="#">106106241</a> | 59  | NOC:Quantum Algorithms and Cryptography                                  | --- | Y   | --- | 5.2 |
| 203  | <a href="#">106106242</a> | 69  | NOC:Theory of Computation (2023)   | --- | Y   | --- | 12  |
| 204  | <a href="#">106106243</a> | 67  | NOC:Advanced Computer Networks   | Y   | Y   | Y   | 6.8 |
| 205  | <a href="#">106106244</a> | 39  | NOC:Affective Computing  | Y   | Y   | --- | 4.6 |
| 206  | <a href="#">106106245</a> | 36  | NOC:Optimisation for Machine Learning: Theory and Implementation (Hindi) | --- | Y   | --- | 3.3 |
| 207  | <a href="#">106106246</a> | 82  | ACM India - RBCDSAI Summer School on DS/AI/ML                            | --- | Y   | --- | 7.3 |
| 208  | <a href="#">106105247</a> | 40  | NOC:Foundations and Applications of Machine Learning (Bengali)           | --- | Y   | --- | 3.5 |
| 209  | <a href="#">106106247</a> | 55  | NOC:Machine Learning (ML) in Hindi                                       | --- | Y   | --- | 5.3 |
| 210  | <a href="#">106106248</a> | 42  | NOC:Cyber Security and Privacy   | Y   | Y   | Y   | 4.4 |
| 211  | <a href="#">106103184</a> | 48  | NOC:Multi-Core Computer Architecture                                     | --- | Y   | --- | 7.4 |
| 212  | <a href="#">106101360</a> | 61  | NOC:Games and Information  | --- | Y   | --- | 7.7 |
| 213  | <a href="#">106103358</a> | 41  | NOC:Digital Design with Verilog  | --- | Y   | --- | 4.5 |
| 214  | <a href="#">106103359</a> | 65  | NOC:Parallel Computer Architecture                                       | Y   | Y   | Y   | 6.5 |
| 215  | <a href="#">106104356</a> | 49  | NOC:Linear Programming and its Applications to Computer Science          | --- | Y   | --- | 8.7 |
| 216  | <a href="#">106104357</a> | 48  | NOC:Basics of Computational Complexity                                   | --- | Y   | --- | 4.3 |
| 217  | <a href="#">106104449</a> | 16  | NOC:Edge Computing   | --- | Y   | --- | 2.1 |
| 218  | <a href="#">106106361</a> | 46  | NOC:Business Intelligence and Analytics                                  | Y   | Y   | Y   | 6.7 |
| 219  | <a href="#">106101466</a> | --- | NOC:Distributed Optimization and Machine Learning                        | --- | --- | --- | --- |
| 220  | <a href="#">106104467</a> | --- | NOC:Practical Cyber Security for Cyber Security Practitioners            | --- | --- | --- | --- |
| 221  | <a href="#">106104469</a> | --- | NOC:Computational Arithmetic - Geometry for Algebraic Curves             | --- | --- | --- | --- |
| 222  | <a href="#">106105470</a> | --- | NOC:Artificial Intelligence for Economics                                | --- | --- | --- | --- |
| 223  | <a href="#">106105471</a> | --- | NOC:Approximation Algorithm  | --- | --- | --- | --- |
| 224  | <a href="#">106106472</a> | --- | NOC:Responsible and Safe AI Systems                                      | --- | --- | --- | --- |
| 225  | <a href="#">106108468</a> | --- | NOC:Introduction to Graph Algorithms                                     | --- | --- | --- | --- |
| 226  | <a href="#">106108482</a> | --- | NOC:Linear Algebra Through Geometry                                      | --- | --- | --- | --- |
| <b>Discipline : Engineering Design</b><br>Go to Top  |                           |     |  |     |     |     |     |
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| 1  | <a href="#">107103004</a> | 40  | Ergonomics for beginners: Industrial design perspective                  | Y   | Y   | Y   | 17  |
| 2  | <a href="#">107106009</a> | 30  | Principles of Engineering System Design                                  | Y   | Y   | Y   | 12  |
| 3  | <a href="#">107106080</a> | 32  | Vehicle Dynamics   | Y   | Y   | Y   | 26  |

|    |                           |    |   |     |   |     |     |
|----|---------------------------|----|---|-----|---|-----|-----|
| 4  | <a href="#">107103081</a> | 38 | NOC:System Design for Sustainability              | Y   | Y | Y   | 21  |
| 5  | <a href="#">107103082</a> | 15 | NOC:Product Design and Innovation                 | Y   | Y | Y   | 6.8 |
| 6  | <a href="#">107103083</a> | 15 | NOC:Interaction Design                            | Y   | Y | Y   | 7.8 |
| 7  | <a href="#">107106081</a> | 72 | NOC:Control Systems                               | Y   | Y | Y   | 40  |
| 8  | <a href="#">107103084</a> | 12 | NOC:Ergonomics In Automotive Design               | Y   | Y | Y   | 13  |
| 9  | <a href="#">107103085</a> | 14 | NOC:Ergonomics Workplace Analysis                 | Y   | Y | Y   | 4.6 |
| 10 | <a href="#">107101086</a> | 55 | NOC:Innovation by Design                          | Y   | Y | Y   | 17  |
| 11 | <a href="#">107101087</a> | 42 | NOC:Understanding Design                          | Y   | Y | Y   | 6.0 |
| 12 | <a href="#">107101088</a> | 23 | NOC:Design, Technology and Innovation             | Y   | Y | Y   | 20  |
| 13 | <a href="#">107106088</a> | 74 | NOC:Fundamentals of Automotive Systems            | Y   | Y | Y   | 57  |
| 14 | <a href="#">107105088</a> | 64 | NOC:Geographic Information System                 | Y   | Y | Y   | 31  |
| 15 | <a href="#">107106089</a> | 38 | NOC:Functional and Conceptual Design              | Y   | Y | Y   | 9.7 |
| 16 | <a href="#">107106090</a> | 43 | NOC:Introduction to Robotics                      | Y   | Y | Y   | 5.9 |
| 17 | <a href="#">107101091</a> | 67 | NOC:Understanding Ethnography                     | Y   | Y | Y   | 14  |
| 18 | <a href="#">107101092</a> | 27 | NOC:Understanding Incubation and Entrepreneurship | Y   | Y | --- | 4.3 |
| 19 | <a href="#">107103093</a> | 42 | NOC:Ergonomics Research Techniques                | --- | Y | --- | 6.6 |

**Discipline : Electrical Engineering**

[Go to Top](#)

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|    |                           |    |  |   |   |   |     |
|----|---------------------------|----|--|---|---|---|-----|
| 1  | <a href="#">108101002</a> | 35 | Nonlinear Dynamical Systems                            | Y | Y | Y | 29  |
| 2  | <a href="#">108101004</a> | 45 | Power System Dynamics and Control                      | Y | Y | Y | 41  |
| 3  | <a href="#">108101037</a> | 47 | Control Engineering (Prof. S.D. Agashe)                | Y | Y | Y | 13  |
| 4  | <a href="#">108101038</a> | 43 | Power Electronics                                      | Y | Y | Y | 12  |
| 5  | <a href="#">108102042</a> | 51 | Circuit Theory   | Y | Y | Y | 13  |
| 6  | <a href="#">108102043</a> | 41 | Control Engineering (Prof. M. Gopal)                   | Y | Y | Y | 9.2 |
| 7  | <a href="#">108102045</a> | 37 | Embedded Systems                                       | Y | Y | Y | 9.4 |
| 8  | <a href="#">108102047</a> | 35 | Power System Generation, Transmission and Distribution | Y | Y | Y | 7.2 |
| 9  | <a href="#">108102080</a> | 40 | Power System Dynamics                                  | Y | Y | Y | 9.8 |
| 10 | <a href="#">108103007</a> | 40 | Advanced Control Systems                               | Y | Y | Y | 17  |
| 11 | <a href="#">108104011</a> | 40 | Advanced Electric Drives                               | Y | Y | Y | 18  |
| 12 | <a href="#">108104013</a> | 37 | High Voltage DC Transmission                           | Y | Y | Y | 16  |
| 13 | <a href="#">108104049</a> | 32 | Intelligent Systems and Control                        | Y | Y | Y | 6.1 |
| 14 | <a href="#">108104052</a> | 35 | Power Systems Operation and Control                    | Y | Y | Y | 4.8 |
| 15 | <a href="#">108105017</a> | 40 | Electrical Machines - I                                | Y | Y | Y | 8.5 |
| 16 | <a href="#">108105019</a> | 60 | Optimal Control  | Y | Y | Y | 12  |
| 17 | <a href="#">108105054</a> | 40 | Chaos, Fractals and Dynamic Systems                    | Y | Y | Y | 8.6 |
| 18 | <a href="#">108105055</a> | 35 | Digital Signal Processing                              | Y | Y | Y | 7.6 |
| 19 | <a href="#">108105056</a> | 34 | Dynamics of Physical Systems                           | Y | Y | Y | 7.4 |
| 20 | <a href="#">108105058</a> | 40 | Energy Resources and Technology                        | Y | Y | Y | 8.5 |

|    |                           |     |  |     |   |   |     |
|----|---------------------------|-----|--|-----|---|---|-----|
| 21 | <a href="#">108105059</a> | 30  | Estimation of Signals and Systems                                      | Y   | Y | Y | 6.1 |
| 22 | <a href="#">108105060</a> | 20  | Illumination Engineering   | Y   | Y | Y | 4.1 |
| 23 | <a href="#">108105062</a> | 40  | Industrial Automation and Control                                      | Y   | Y | Y | 12  |
| 24 | <a href="#">108105064</a> | 40  | Industrial Instrumentation   | Y   | Y | Y | 12  |
| 25 | <a href="#">108105065</a> | 36  | Networks Signals and Systems   | Y   | Y | Y | 11  |
| 26 | <a href="#">108105067</a> | 40  | Power System Analysis  | Y   | Y | Y | 12  |
| 27 | <a href="#">108106023</a> | 43  | Modelling and Analysis of Electric Machines                            | --- | Y | Y | 19  |
| 28 | <a href="#">108106068</a> | 28  | Analog ICs   | Y   | Y | Y | 6.1 |
| 29 | <a href="#">108106069</a> | 40  | Digital Integrated Circuits  | Y   | Y | Y | 9.2 |
| 30 | <a href="#">108106073</a> | 42  | Electromagnetic Fields   | Y   | Y | Y | 11  |
| 31 | <a href="#">108106075</a> | 50  | Networks and Systems   | Y   | Y | Y | 12  |
| 32 | <a href="#">108106083</a> | 96  | Probability Foundation for Electrical Engineers                        | Y   | Y | Y | 36  |
| 33 | <a href="#">108108031</a> | 42  | An Introduction to Electronics Systems Packaging                       | Y   | Y | Y | 20  |
| 34 | <a href="#">108108034</a> | 40  | Power Electronics and Distributed Generation                           | Y   | Y | Y | 14  |
| 35 | <a href="#">108108035</a> | 40  | Pulse width Modulation for Power Electronic Converters                 | Y   | Y | Y | 12  |
| 36 | <a href="#">108108036</a> | 40  | Switched Mode Power Conversion   | Y   | Y | Y | 19  |
| 37 | <a href="#">108108076</a> | 39  | Basic Electrical Technology  | Y   | Y | Y | 11  |
| 38 | <a href="#">108108077</a> | 37  | Industrial Drives - Power Electronics                                  | Y   | Y | Y | 7.6 |
| 39 | <a href="#">108106084</a> | 131 | NOC:Analog Circuits  | Y   | Y | Y | 8.7 |
| 40 | <a href="#">108106085</a> | 29  | NOC:Introduction to Non Linear Dynamics                                | Y   | Y | Y | 0.5 |
| 41 | <a href="#">108105088</a> | 52  | NOC:Industrial Automation and Control                                  | Y   | Y | Y | 13  |
| 42 | <a href="#">108104087</a> | 85  | NOC:Electromagnetic Theory   | Y   | Y | Y | 4.6 |
| 43 | <a href="#">108101089</a> | 28  | Fabrication of Silicon VLSI Circuits using the MOS technology          | Y   | Y | Y | 31  |
| 44 | <a href="#">108101090</a> | 83  | NOC:Computational Electromagnetics and Applications                    | Y   | Y | Y | 29  |
| 45 | <a href="#">108101092</a> | 60  | NOC:Antennas   | Y   | Y | Y | 22  |
| 46 | <a href="#">108101094</a> | 41  | NOC:Analog Circuits  | Y   | Y | Y | 14  |
| 47 | <a href="#">108101093</a> | 71  | NOC:Fundamentals of Wavelets, Filter Banks and Time Frequency Analysis | Y   | Y | Y | 21  |
| 48 | <a href="#">108101091</a> | 72  | NOC:Basic Electronics  | Y   | Y | Y | 3.5 |
| 49 | <a href="#">108104092</a> | 33  | NOC:An Introduction to Coding Theory                                   | Y   | Y | Y | 2.6 |
| 50 | <a href="#">108102095</a> | 51  | Analog Electronic Circuits   | Y   | Y | Y | 63  |
| 51 | <a href="#">108102096</a> | 38  | Digital Communication  | Y   | Y | Y | 62  |
| 52 | <a href="#">108102097</a> | 40  | Introduction To Electronic Circuits                                    | Y   | Y | Y | 32  |
| 53 | <a href="#">108105091</a> | 20  | NOC:Medical Image Analysis   | Y   | Y | Y | 6.0 |
| 54 | <a href="#">108104091</a> | 52  | NOC:Principles of Communication - Part I                               | Y   | Y | Y | 2.8 |
| 55 | <a href="#">108107098</a> | 40  | NOC:Optimal Control  | Y   | Y | Y | 9.7 |
| 56 | <a href="#">108106098</a> | 55  | NOC:Control Engineering  | Y   | Y | Y | 23  |
| 57 | <a href="#">108104098</a> | 56  | NOC:Principles of Communication Systems - Part II                      | Y   | Y | Y | 3.1 |
| 58 | <a href="#">108104099</a> | 66  | NOC:Applied Engineering Electromagnetics                               | Y   | Y | Y | 4.3 |

|    |           |    |  |   |   |   |     |
|----|-----------|----|--|---|---|---|-----|
| 59 | 108108098 | 31 | NOC:Design for Internet of Things  | Y | Y | Y | 13  |
| 60 | 108108099 | 40 | NOC:Advances in UHV Transmission and Distribution  | Y | Y | Y | 10  |
| 61 | 108103108 | 24 | NOC:Optimization Techniques for Digital VLSI Design  | Y | Y | Y | 9.5 |
| 62 | 108108110 | 34 | NOC:Electronics Enclosures Thermal Issues  | Y | Y | Y | 10  |
| 63 | 108106106 | 73 | NOC:Probability Foundations for Electrical Engineers   | Y | Y | Y | 74  |
| 64 | 108105104 | 61 | NOC:Power System Engineering   | Y | Y | Y | 16  |
| 65 | 108104100 | 75 | NOC:Principles of Signals and Systems  | Y | Y | Y | 16  |
| 66 | 108105103 | 60 | NOC:Deep Learning for Visual Computing   | Y | Y | Y | 13  |
| 67 | 108105101 | 68 | NOC:Biomedical Signal Processing   | Y | Y | Y | 17  |
| 68 | 108105102 | 64 | NOC:Microprocessors and Microcontrollers   | Y | Y | Y | 15  |
| 69 | 108108109 | 79 | NOC:Mathematical Methods and Techniques in Signal Processing   | Y | Y | Y | 19  |
| 70 | 108108111 | 59 | NOC:Integrated Circuits, MOSFETs, Op-Amps and their Applications                                     | Y | Y | Y | 20  |
| 71 | 108101112 | 60 | NOC:Microwave Theory and Techniques  | Y | Y | Y | 49  |
| 72 | 108101113 | 65 | NOC:Principles of Digital Communications   | Y | Y | Y | 56  |
| 73 | 108102112 | 40 | NOC:Analog Electronic Circuit  | Y | Y | Y | 34  |
| 74 | 108102113 | 10 | NOC:Nonlinear and Adaptive Control   | Y | Y | Y | 8.1 |
| 75 | 108103112 | 24 | NOC:Advanced Topics in Probability and Random Processes  | Y | Y | Y | 4.0 |
| 76 | 108104112 | 79 | NOC:Applied Optimization for Wireless, Machine Learning, Big Data                                    | Y | Y | Y | 14  |
| 77 | 108104113 | 61 | NOC:Fiber-Optic Communication Systems and Techniques   | Y | Y | Y | 13  |
| 78 | 108105112 | 64 | NOC:Fundamentals of Electrical Engineering   | Y | Y | Y | 19  |
| 79 | 108105113 | 65 | NOC:Digital Circuits   | Y | Y | Y | 13  |
| 80 | 108105114 | 40 | NOC:Analysis and Design Principles of Microwave Antennas   | Y | Y | Y | 11  |
| 81 | 108105118 | 67 | NOC:Architectural Design of Digital Integrated Circuits  | Y | Y | Y | 4.9 |
| 82 | 108107112 | 40 | NOC:Electrical Distribution System Analysis  | Y | Y | Y | 7.2 |
| 83 | 108107113 | 40 | NOC:Introduction to Smart Grid   | Y | Y | Y | 10  |
| 84 | 108107114 | 40 | NOC:Facts Devices  | Y | Y | Y | 8.1 |
| 85 | 108107115 | 40 | NOC:Advanced Linear Continuous Control Systems:<br>Applications with MATLAB Programming and Simulink | Y | Y | Y | 6.7 |
| 86 | 108108112 | 55 | NOC:Semiconductor Devices and Circuits   | Y | Y | Y | 5.2 |
| 87 | 108108113 | 55 | NOC:Fabrication Techniques for MEMs-based Sensors: Clinical Perspective                              | Y | Y | Y | 21  |
| 88 | 108108114 | 48 | NOC:Op-Amp Practical Applications:Design,Simulation and Implementation                               | Y | Y | Y | 18  |
| 89 | 108108115 | 39 | NOC:Physical Modelling for Electronics Enclosures using Rapid Prototyping                            | Y | Y | Y | 25  |
| 90 | 108108116 | 13 | NOC:Recent Advances in Transmission Insulators   | Y | Y | Y | 3.0 |
| 91 | 108102117 | 39 | NOC:Information Theory, Coding and Cryptography  | Y | Y | Y | 17  |
| 92 | 108101126 | 98 | NOC:Fundamental of Power Electronics   | Y | Y | Y | 24  |
| 93 | 108102120 | 38 | NOC:Principles of Digital Communications   | Y | Y | Y | 34  |
| 94 | 108102121 | 32 | NOC:Electric Vehicles - Part 1   | Y | Y | Y | 3.6 |
| 95 | 108104130 | 41 | NOC:Electromagnetic Waves in Guided and Wireless Media   | Y | Y | Y | 14  |
| 96 | 108105131 | 90 | NOC:Electrical Machines-II   | Y | Y | Y | 24  |



|     |                           |     |  |     |   |     |     |
|-----|---------------------------|-----|--|-----|---|-----|-----|
| 97  | <a href="#">108105132</a> | 60  | NOC:Digital Electronic Circuits  | Y   | Y | Y   | 17  |
| 98  | <a href="#">108105133</a> | 60  | NOC:Power System Dynamics, Control and Monitoring                              | Y   | Y | Y   | 16  |
| 99  | <a href="#">108105134</a> | 40  | NOC:Evolution of Air Interface towards 5G                                      | Y   | Y | Y   | 11  |
| 100 | <a href="#">108106135</a> | 48  | NOC:Introduction to Photonics  | Y   | Y | Y   | 87  |
| 101 | <a href="#">108106136</a> | 69  | NOC:Multirate DSP  | Y   | Y | Y   | 126 |
| 102 | <a href="#">108106137</a> | 37  | NOC:LDPC and Polar Codes in 5G Standard  | Y   | Y | Y   | 64  |
| 103 | <a href="#">108106138</a> | 29  | NOC:Electromagnetic Compatibility, EMC   | Y   | Y | Y   | 37  |
| 104 | <a href="#">108107127</a> | 60  | NOC:Computer Aided Power System Analysis                                       | Y   | Y | Y   | 9.3 |
| 105 | <a href="#">108107128</a> | 40  | NOC:Advance Power Electronics and Control                                      | Y   | Y | Y   | 6.9 |
| 106 | <a href="#">108107129</a> | 40  | NOC:CMOS Digital VLSI Design   | Y   | Y | Y   | 9.9 |
| 107 | <a href="#">108108122</a> | 59  | NOC:Fundamentals of Semiconductor Devices                                      | Y   | Y | Y   | 6.1 |
| 108 | <a href="#">108108123</a> | 44  | NOC:Advanced IOT Applications  | Y   | Y | Y   | 16  |
| 109 | <a href="#">108108124</a> | 71  | NOC:Electronic Systems for Cancer Diagnosis                                    | Y   | Y | Y   | 17  |
| 110 | <a href="#">108108125</a> | 53  | NOC:Electronic Modules for Industrial Applications using Op-Amps               | Y   | Y | Y   | 13  |
| 111 | <a href="#">108108148</a> | 66  | NOC:Neural Networks for Signal Processing – I                                  | --- | Y | Y   | 13  |
| 112 | <a href="#">108102145</a> | 24  | NOC:Power Electronics  | Y   | Y | Y   | 25  |
| 113 | <a href="#">108102146</a> | 41  | NOC:Electrical Machines  | Y   | Y | Y   | 29  |
| 114 | <a href="#">108103141</a> | 37  | NOC:Microwave Engineering  | Y   | Y | Y   | 22  |
| 115 | <a href="#">108104139</a> | 60  | NOC:Basic Electric Circuits  | Y   | Y | Y   | 26  |
| 116 | <a href="#">108104140</a> | 40  | NOC:Fundamentals of Electric Drives  | --- | Y | Y   | 14  |
| 117 | <a href="#">108105153</a> | 84  | NOC:Electrical Measurement and Electronic Instruments                          | Y   | Y | Y   | 32  |
| 118 | <a href="#">108105154</a> | 60  | NOC:Principles and Techniques of Modern Radar Systems                          | Y   | Y | Y   | 17  |
| 119 | <a href="#">108105155</a> | 94  | NOC:Electrical Machines - I  | Y   | Y | Y   | 27  |
| 120 | <a href="#">108106149</a> | 103 | NOC:Mapping Signal Processing Algorithms to Architectures                      | --- | Y | Y   | 64  |
| 121 | <a href="#">108106150</a> | 47  | NOC:Linear System Theory   | Y   | Y | Y   | 29  |
| 122 | <a href="#">108106151</a> | 82  | NOC:Digital Signal Processing  | Y   | Y | Y   | 63  |
| 123 | <a href="#">108106152</a> | 117 | NOC:Computational Electromagnetics   | Y   | Y | Y   | 85  |
| 124 | <a href="#">108107142</a> | 60  | NOC:Microelectronics: Devices to Circuits                                      | Y   | Y | Y   | 12  |
| 125 | <a href="#">108107143</a> | 40  | NOC:DC Microgrid   | Y   | Y | Y   | 11  |
| 126 | <a href="#">108108147</a> | 63  | NOC:Sensors and Actuators  | Y   | Y | Y   | 35  |
| 127 | <a href="#">108102119</a> | 41  | Engineering Electromagnetics   | --- | Y | --- | 5.4 |
| 128 | <a href="#">108106165</a> | 23  | NOC:A Brief Introduction of Micro-Sensors                                      | Y   | Y | Y   | 22  |
| 129 | <a href="#">108105158</a> | 99  | NOC:Analog Electronic Circuits   | Y   | Y | Y   | 65  |
| 130 | <a href="#">108106160</a> | 67  | NOC:DC Power Transmission Systems  | Y   | Y | Y   | 42  |
| 131 | <a href="#">108106158</a> | 80  | NOC:Digital IC Design  | Y   | Y | Y   | 74  |
| 132 | <a href="#">108108157</a> | 39  | NOC:Electronics Equipment Integration and Prototype Building                   | Y   | Y | Y   | 21  |
| 133 | <a href="#">108104157</a> | 60  | NOC:Fuzzy Sets, Logic and Systems and Applications                             | Y   | Y | Y   | 18  |
| 134 | <a href="#">108102157</a> | 43  | NOC:High Power Multilevel Converters - Analysis, Design and Operational Issues | Y   | Y | Y   | 53  |

|     |                           |     |   |     |   |     |     |
|-----|---------------------------|-----|---|-----|---|-----|-----|
| 135 | <a href="#">108106164</a> | 43  | NOC:Linear Dynamical Systems  | Y   | Y | Y   | 47  |
| 136 | <a href="#">108103157</a> | 34  | NOC:Microprocessors and Interfacing   | Y   | Y | Y   | 14  |
| 137 | <a href="#">108105159</a> | 82  | NOC:Network Analysis  | Y   | Y | Y   | 39  |
| 138 | <a href="#">108106162</a> | 51  | NOC:Nonlinear System Analysis   | Y   | Y | Y   | 19  |
| 139 | <a href="#">108106161</a> | 44  | NOC:Optical Engineering   | Y   | Y | Y   | 49  |
| 140 | <a href="#">108106159</a> | 103 | NOC:Power Management Integrated Circuits  | Y   | Y | Y   | 57  |
| 141 | <a href="#">108107157</a> | 40  | NOC:Power Quality Improvement Technique   | Y   | Y | Y   | 5.2 |
| 142 | <a href="#">108106163</a> | 87  | NOC:Signals and Systems   | --- | Y | --- | 54  |
| 143 | <a href="#">108103158</a> | 39  | NOC:Statistical Signal Processing   | Y   | Y | Y   | 16  |
| 144 | <a href="#">108106157</a> | 33  | NOC:Transmission Lines and Electromagnetic Waves                                      | Y   | Y | Y   | 35  |
| 145 | <a href="#">108105157</a> | 39  | NOC:VLSI Signal Processing  | Y   | Y | Y   | 15  |
| 146 | <a href="#">108102156</a> | 34  | Special Electromechanical Systems   | --- | Y | --- | 6.0 |
| 147 | <a href="#">108108166</a> | 53  | NOC:Design and Simulation of Power conversion using open source tools                 | --- | Y | --- | 4.1 |
| 148 | <a href="#">108101167</a> | 40  | NOC:Electrical Equipment and Machines: Finite Element Analysis                        | Y   | Y | Y   | 9.0 |
| 149 | <a href="#">108106167</a> | 120 | NOC:Fiber Optic Communication Technology  | --- | Y | --- | 7.2 |
| 150 | <a href="#">108106168</a> | 83  | NOC:Image Signal Processing   | Y   | Y | --- | 7.2 |
| 151 | <a href="#">108108168</a> | 68  | NOC:Information Theory  | --- | Y | --- | 4.2 |
| 152 | <a href="#">108102169</a> | 40  | NOC:Introduction to Embedded System Design  | Y   | Y | Y   | 5.9 |
| 153 | <a href="#">108108167</a> | 65  | NOC:Introductory Neuroscience and Neuro-Instrumentation                               | Y   | Y | Y   | 6.2 |
| 154 | <a href="#">108104167</a> | 34  | NOC:Peer to Peer Networks   | Y   | Y | Y   | 5.4 |
| 155 | <a href="#">108105167</a> | 52  | NOC:Power System Protection   | Y   | Y | Y   | 27  |
| 156 | <a href="#">108107167</a> | 40  | NOC:Power System Protection and Switchgear  | Y   | Y | Y   | 4.6 |
| 157 | <a href="#">108106170</a> | 76  | NOC:Fundamentals of Electric Vehicles: Technology and Economics                       | Y   | Y | --- | 8.3 |
| 158 | <a href="#">108106171</a> | 48  | NOC:Applied Linear Algebra  | Y   | Y | Y   | 5.9 |
| 159 | <a href="#">108106172</a> | 143 | NOC:Basic Electrical Circuits   | --- | Y | --- | 3.4 |
| 160 | <a href="#">108106173</a> | 42  | NOC:Optical Fiber Sensors   | Y   | Y | --- | 5.0 |
| 161 | <a href="#">108101174</a> | 94  | NOC:Digital Signal Processing and its Applications                                    | Y   | Y | Y   | 3.6 |
| 162 | <a href="#">108103174</a> | 41  | NOC:Computer Vision and Image Processing - Fundamentals and Applications              | Y   | Y | Y   | 4.4 |
| 163 | <a href="#">108104174</a> | 70  | NOC:Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning | Y   | Y | --- | 7.2 |
| 164 | <a href="#">108106174</a> | 78  | NOC:Introduction to Time - Varying Electrical Networks                                | Y   | Y | --- | 9.3 |
| 165 | <a href="#">108106177</a> | 71  | NOC:Digital System Design   | Y   | Y | Y   | 4.5 |
| 166 | <a href="#">108108174</a> | 51  | NOC:Photonic Integrated Circuit   | Y   | Y | Y   | 6.1 |
| 167 | <a href="#">108102179</a> | 45  | NOC:Power Quality   | Y   | Y | --- | 7.0 |
| 168 | <a href="#">108103179</a> | 27  | NOC:System Design through VERILOG   | Y   | Y | Y   | 2.2 |
| 169 | <a href="#">108105179</a> | 64  | NOC:Signal Processing for mm Wave communication for 5G and beyond                     | Y   | Y | --- | 5.5 |
| 170 | <a href="#">108105180</a> | 60  | NOC:Control and Tuning Methods in Switched Mode Power Converters                      | Y   | Y | Y   | 8.5 |

|     |                           |     |  |     |   |     |     |
|-----|---------------------------|-----|--|-----|---|-----|-----|
| 171 | <a href="#">108105181</a> | 69  | NOC:Advanced Microwave Guided-Structures and Analysis                            | Y   | Y | Y   | 4.5 |
| 172 | <a href="#">108106179</a> | 81  | NOC:Stochastic Modeling and the Theory of Queues                                 | Y   | Y | --- | 5.8 |
| 173 | <a href="#">108106180</a> | 40  | NOC:Integrated Photonics Devices and Circuits                                    | Y   | Y | --- | 9.6 |
| 174 | <a href="#">108106181</a> | 78  | NOC:Introduction to Semiconductor Devices  | Y   | Y | Y   | 5.6 |
| 175 | <a href="#">108108179</a> | 52  | NOC:Design for Internet of Things  | Y   | Y | Y   | 6.9 |
| 176 | <a href="#">108108180</a> | 42  | NOC:Mathematical Aspects of Biomedical Electronic System Design                  | Y   | Y | Y   | 4.1 |
| 177 | <a href="#">108108181</a> | 26  | NOC:Concentration Inequalities   | Y   | Y | Y   | 2.7 |
| 178 | <a href="#">108106182</a> | 97  | NOC:Electric Vehicles and Renewable Energy                                       | --- | Y | --- | 8.5 |
| 179 | <a href="#">108103183</a> | 44  | NOC:Usability Engineering  | Y   | Y | Y   | 6.0 |
| 180 | <a href="#">108101185</a> | 65  | NOC:Stochastic Control and Communication   | --- | Y | --- | 5.6 |
| 181 | <a href="#">108102185</a> | 42  | NOC:Introduction to Electrical Engineering                                       | --- | Y | Y   | 6.5 |
| 182 | <a href="#">108103185</a> | 85  | NOC:Probability and Random Processes   | --- | Y | --- | 3.5 |
| 183 | <a href="#">108105185</a> | 60  | NOC:Cognition and its Computation  | --- | Y | --- | 5.9 |
| 184 | <a href="#">108105186</a> | 120 | NOC:Digital Control in Switched Mode Power Converters and FPGA-based Prototyping | Y   | Y | Y   | 7.6 |
| 185 | <a href="#">108105187</a> | 41  | NOC:VLSI Interconnects   | --- | Y | --- | 3.8 |
| 186 | <a href="#">108106184</a> | 65  | Phase-locked loops   | Y   | Y | Y   | 6.9 |
| 187 | <a href="#">108106186</a> | 64  | NOC:Fundamentals of Nano and Quantum Photonics                                   | --- | Y | Y   | 5.2 |
| 188 | <a href="#">108108185</a> | 56  | NOC:Real-Time Digital Signal Processing  | --- | Y | --- | 4.7 |
| 189 | <a href="#">108105188</a> | 63  | NOC:Semiconductor Device Modeling and Simulation                                 | Y   | Y | --- | 6.2 |
| 190 | <a href="#">108105189</a> | 75  | NOC:RF and Microwave Networks  | --- | Y | --- | 4.0 |
| 191 | <a href="#">108106188</a> | 84  | NOC:Analog Electronic Circuits (IITM)  | Y   | Y | Y   | 6.9 |
| 192 | <a href="#">108106189</a> | 90  | NOC:Modern Computer Vision   | Y   | Y | Y   | 6.1 |
| 193 | <a href="#">108106190</a> | 46  | NOC:Optical Wireless Communications for Beyond 5G Networks and IoT               | Y   | Y | --- | 4.0 |
| 194 | <a href="#">108108188</a> | 54  | NOC:Advanced Neural Science for Engineers  | Y   | Y | Y   | 7.4 |
| 195 | <a href="#">108102191</a> | 36  | NOC:Transducers for Instrumentation  | Y   | Y | Y   | 7.6 |
| 196 | <a href="#">108103191</a> | 64  | NOC:Simulation of Communication Systems using Matlab                             | --- | Y | --- | 5.1 |
| 197 | <a href="#">108103192</a> | 48  | NOC:Machine Learning and Deep Learning - Fundamentals and Applications           | --- | Y | --- | 4.1 |
| 198 | <a href="#">108104191</a> | 60  | NOC:Economic Operations and Control of Power Systems                             | Y   | Y | Y   | 6.7 |
| 199 | <a href="#">108104192</a> | 38  | NOC:Digital Switching  | --- | Y | --- | 3.0 |
| 200 | <a href="#">108104193</a> | 65  | NOC:Analog VLSI Design   | Y   | Y | Y   | 6.2 |
| 201 | <a href="#">108105191</a> | 41  | NOC:Introduction to Adaptive Signal Processing                                   | Y   | Y | Y   | 2.7 |
| 202 | <a href="#">108105192</a> | 60  | NOC:Nanobiophotonics: Touching Our Daily Life                                    | --- | Y | --- | 5.4 |
| 203 | <a href="#">108106191</a> | 54  | NOC:VLSI Design Flow: RTL to GDS   | --- | Y | --- | 6.1 |
| 204 | <a href="#">108106192</a> | 40  | NOC:Fundamentals of Wireless Communication (Hindi)                               | --- | Y | --- | 5.3 |
| 205 | <a href="#">108106193</a> | 40  | NOC:Sensor Technologies: Physics, Fabrication, and Circuits                      | --- | Y | --- | 4.8 |
| 206 | <a href="#">108108191</a> | 67  | NOC:Design of Electric Motors  | Y   | Y | Y   | 5.7 |

|     |                           |     |   |     |     |     |     |
|-----|---------------------------|-----|---|-----|-----|-----|-----|
| 207 | <a href="#">108101371</a> | 85  | NOC:Applied Linear Algebra (2024)   | --- | Y   | --- | 20  |
| 208 | <a href="#">108101373</a> | 62  | NOC:Digital Communication using GNU Radio   | --- | Y   | --- | 6.2 |
| 209 | <a href="#">108102372</a> | 42  | NOC:Computer-Aided Design of Electrical Machines                                  | --- | Y   | --- | 5.9 |
| 210 | <a href="#">108103378</a> | 44  | NOC:Integrated Circuits and Applications  | --- | Y   | --- | 3.2 |
| 211 | <a href="#">108105375</a> | 59  | NOC:EMI-EMC and Signal Integrity: Principles, Techniques and Applications         | --- | Y   | --- | 5.0 |
| 212 | <a href="#">108105376</a> | 60  | NOC:Embedded Sensing, Actuation and Interfacing Systems                           | --- | Y   | --- | 7.2 |
| 213 | <a href="#">108106370</a> | 46  | NOC:Advanced topics in Wireless Communication (Hindi)                             | --- | Y   | --- | 4.6 |
| 214 | <a href="#">108106374</a> | 39  | NOC:State Space Approach to Control System Analysis and Design                    | --- | Y   | --- | 3.9 |
| 215 | <a href="#">108107379</a> | 61  | NOC:RF Transceiver of Design  | --- | Y   | --- | 5.7 |
| 216 | <a href="#">108107380</a> | 60  | NOC:VLSI Physical Design with Timing Analysis                                     | Y   | Y   | --- | 4.8 |
| 217 | <a href="#">108108377</a> | 61  | NOC:Basics of Semiconductor Microwave Devices                                     | --- | Y   | --- | 4.7 |
| 218 | <a href="#">108102481</a> | --- | NOC:Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software | --- | --- | --- | --- |
| 219 | <a href="#">108103487</a> | --- | NOC:Photonic Crystals: Fundamentals and Applications                              | --- | --- | --- | --- |
| 220 | <a href="#">108105479</a> | --- | NOC:A Basic Course on Electric and Magnetic Circuits                              | --- | --- | --- | --- |
| 221 | <a href="#">108106478</a> | --- | NOC:Optimization Theory and Algorithms  | --- | --- | --- | --- |
| 222 | <a href="#">108106480</a> | --- | NOC:Power Electronics with Wide Band Gap Devices                                  | --- | --- | --- | --- |
| 223 | <a href="#">108107477</a> | --- | NOC:Modeling, Analysis and Estimation of Three Phase Unbalanced Power Network     | --- | --- | --- | --- |

**Discipline : Humanities and Social Sciences**

[Go to Top](#)

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|    |                           |    |   |   |   |   |     |
|----|---------------------------|----|---|---|---|---|-----|
| 1  | <a href="#">109101004</a> | 42 | Contemporary Issues in Philosophy of Mind and Cognition | Y | Y | Y | 30  |
| 2  | <a href="#">109101017</a> | 41 | Understanding Creativity and Creative Writing           | Y | Y | Y | 28  |
| 3  | <a href="#">109103019</a> | 40 | Cultural Studies  | Y | Y | Y | 22  |
| 4  | <a href="#">109103020</a> | 38 | English Language and Literature                         | Y | Y | Y | 18  |
| 5  | <a href="#">109103021</a> | 40 | Game Theory and Economics                               | Y | Y | Y | 22  |
| 6  | <a href="#">109104031</a> | 40 | Communication Skills                                    | Y | Y | Y | 12  |
| 7  | <a href="#">109104035</a> | 43 | International Economics                                 | Y | Y | Y | 9.9 |
| 8  | <a href="#">109104040</a> | 44 | Introduction to Logic                                   | Y | Y | Y | 18  |
| 9  | <a href="#">109104045</a> | 40 | Population and Society                                  | Y | Y | Y | 8.6 |
| 10 | <a href="#">109104073</a> | 22 | Macro Economics   | Y | Y | Y | 7.7 |
| 11 | <a href="#">109104074</a> | 41 | Introduction to Sociology                               | Y | Y | Y | 9.8 |
| 12 | <a href="#">109104076</a> | 40 | Money and Banking                                       | Y | Y | Y | 7.6 |
| 13 | <a href="#">109104081</a> | 40 | Human Adjustment Processes                              | Y | Y | Y | 8.4 |
| 14 | <a href="#">109104082</a> | 35 | Selected Topics in Psychology                           | Y | Y | Y | 9.2 |
| 15 | <a href="#">109104088</a> | 48 | NOC:Elements of Visual Representation                   | Y | Y | Y | 5.8 |
| 16 | <a href="#">109106052</a> | 40 | Aspects of Western Philosophy                           | Y | Y | Y | 31  |
| 17 | <a href="#">109106053</a> | 40 | Contemporary Literature                                 | Y | Y | Y | 11  |

|    |                           |    |   |   |   |   |     |
|----|---------------------------|----|---|---|---|---|-----|
| 18 | <a href="#">109106058</a> | 36 | History of Economic Theory  | Y | Y | Y | 15  |
| 19 | <a href="#">109106059</a> | 42 | Indian Philosophy   | Y | Y | Y | 14  |
| 20 | <a href="#">109106067</a> | 38 | Better Spoken English   | Y | Y | Y | 15  |
| 21 | <a href="#">109106079</a> | 40 | Introduction to Film Studies  | Y | Y | Y | 16  |
| 22 | <a href="#">109106080</a> | 41 | Introduction to Modern Linguistics  | Y | Y | Y | 30  |
| 23 | <a href="#">109106083</a> | 41 | Principles and Parameters in Natural Language                               | Y | Y | Y | 32  |
| 24 | <a href="#">109106084</a> | 41 | NOC:Literary Criticism and Literary Theory                                  | Y | Y | Y | 9.1 |
| 25 | <a href="#">109106085</a> | 40 | NOC:Language and Mind   | Y | Y | Y | 5.9 |
| 26 | <a href="#">109106086</a> | 43 | NOC:Film Appreciation   | Y | Y | Y | 11  |
| 27 | <a href="#">109106087</a> | 74 | NOC:Appreciating Carnatic Music   | Y | Y | Y | 16  |
| 28 | <a href="#">109106089</a> | 38 | NOC:Infrastructure Economics  | Y | Y | Y | 5.5 |
| 29 | <a href="#">109104090</a> | 40 | NOC:Practical English: Learning and Teaching                                | Y | Y | Y | 11  |
| 30 | <a href="#">109106091</a> | 20 | NOC:Language and Society  | Y | Y | Y | 3.6 |
| 31 | <a href="#">109104093</a> | 24 | NOC:Brief introduction to Psychology  | Y | Y | Y | 5.0 |
| 32 | <a href="#">109106092</a> | 20 | NOC:Issues in Bioethics   | Y | Y | Y | 5.6 |
| 33 | <a href="#">109106094</a> | 38 | NOC:Technical English for Engineers   | Y | Y | Y | 19  |
| 34 | <a href="#">109106095</a> | 22 | NOC:Health Research Fundamentals  | Y | Y | Y | 7.3 |
| 35 | <a href="#">109104032</a> | 39 | Ethics  | Y | Y | Y | 12  |
| 36 | <a href="#">109105098</a> | 20 | NOC:Legal Compliance for Incorporating Startup                              | Y | Y | Y | 4.9 |
| 37 | <a href="#">109105097</a> | 20 | NOC:Technology Transfer through Joint Venture                               | Y | Y | Y | 5.0 |
| 38 | <a href="#">109104096</a> | 20 | NOC:Psychiatry:An overview  | Y | Y | Y | 1.4 |
| 39 | <a href="#">109105111</a> | 40 | NOC:Symbolic Logic  | Y | Y | Y | 8.9 |
| 40 | <a href="#">109105110</a> | 40 | NOC:Soft Skill Development  | Y | Y | Y | 9.4 |
| 41 | <a href="#">109105113</a> | 39 | NOC:Globalization and Culture   | Y | Y | Y | 11  |
| 42 | <a href="#">109104107</a> | 48 | NOC:Developing Soft Skills and Personality                                  | Y | Y | Y | 5.1 |
| 43 | <a href="#">109104106</a> | 44 | NOC:Folk and Minor Art in India   | Y | Y | Y | 3.4 |
| 44 | <a href="#">109104105</a> | 43 | NOC:Introduction to Psychology  | Y | Y | Y | 2.7 |
| 45 | <a href="#">109104108</a> | 20 | NOC:How the Brain Creates Mind  | Y | Y | Y | 1.8 |
| 46 | <a href="#">109104102</a> | 20 | NOC:Introduction to Indian Art - An appreciation                            | Y | Y | Y | 1.6 |
| 47 | <a href="#">109104109</a> | 20 | NOC:Understanding Design Thinking and People Centered Design                | Y | Y | Y | 1.5 |
| 48 | <a href="#">109104104</a> | 20 | NOC:Probability and Stochastic for Finance II                               | Y | Y | Y | 1.8 |
| 49 | <a href="#">109104103</a> | 25 | NOC:Basic Concepts of Modal Logic   | Y | Y | Y | 2.1 |
| 50 | <a href="#">109106099</a> | 45 | NOC:American Literature and Culture   | Y | Y | Y | 30  |
| 51 | <a href="#">109103101</a> | 24 | NOC:Digital Human Modeling and Simulation for Virtual Ergonomics Evaluation | Y | Y | Y | 34  |
| 52 | <a href="#">109106114</a> | 32 | NOC:Applied Linguistics   | Y | Y | Y | 24  |
| 53 | <a href="#">109106100</a> | 20 | NOC:Economics of IPR  | Y | Y | Y | 8.0 |
| 54 | <a href="#">109105112</a> | 40 | NOC:Introduction on Intellectual Property to Engineers and Technologists    | Y | Y | Y | 11  |



|    |           |     |   |   |   |   |     |
|----|-----------|-----|---|---|---|---|-----|
| 55 | 109107115 | 15  | NOC:Time value of money-Concepts and Calculations                 | Y | Y | Y | 3.5 |
| 56 | 109107119 | 20  | NOC:Depreciation, Alternate Investment and Profitability Analysis | Y | Y | Y | 5.4 |
| 57 | 109104116 | 20  | NOC:Postcolonial Literature                                       | Y | Y | Y | 1.5 |
| 58 | 109105116 | 40  | NOC:Emotional Intelligence  | Y | Y | Y | 11  |
| 59 | 109104117 | 20  | NOC:Introducing Modern Western Art: Movements and Artists         | Y | Y | Y | 1.7 |
| 60 | 109104115 | 40  | NOC:Enhancing Soft Skills and Personality                         | Y | Y | Y | 3.5 |
| 61 | 109105118 | 20  | NOC:Great Experiments in Psychology                               | Y | Y | Y | 5.5 |
| 62 | 109106117 | 20  | NOC:Ethics  | Y | Y | Y | 12  |
| 63 | 109105115 | 46  | NOC:Qualitative Research Methods                                  | Y | Y | Y | 9.5 |
| 64 | 109106120 | 17  | NOC:The Renaissance and Shakespeare                               | Y | Y | Y | 1.7 |
| 65 | 109106116 | 60  | NOC:English Language for Competitive Exams                        | Y | Y | Y | 27  |
| 66 | 109105117 | 39  | NOC:Speaking Effectively  | Y | Y | Y | 8.7 |
| 67 | 109107121 | 60  | NOC:Soft Skills   | Y | Y | Y | 19  |
| 68 | 109106122 | 33  | NOC:Literature for Competitive Exams                              | Y | Y | Y | 18  |
| 69 | 109104121 | 20  | NOC:Cognition, Transformation and Lives                           | Y | Y | Y | 1.5 |
| 70 | 109104122 | 20  | NOC:Visual Perception and Art: A Survey Across the Cultures       | Y | Y | Y | 1.7 |
| 71 | 109104123 | 39  | NOC:Introduction to Basic Cognitive Processes                     | Y | Y | Y | 3.0 |
| 72 | 109104124 | 40  | NOC:Calculus of One Real Variable                                 | Y | Y | Y | 2.5 |
| 73 | 109103121 | 36  | NOC:Science, Technology and Society                               | Y | Y | Y | 15  |
| 74 | 109103122 | 21  | NOC:Gender and Literature   | Y | Y | Y | 14  |
| 75 | 109103123 | 31  | NOC:Ecology and Society   | Y | Y | Y | 13  |
| 76 | 109106124 | 68  | NOC:History of English Language and Literature                    | Y | Y | Y | 24  |
| 77 | 109105121 | 60  | NOC:Human Resource Development                                    | Y | Y | Y | 16  |
| 78 | 109105122 | 58  | NOC:Educational Leadership  | Y | Y | Y | 14  |
| 79 | 109107131 | 20  | NOC:Sociology of Science  | Y | Y | Y | 6.0 |
| 80 | 109107132 | 20  | NOC:Perspectives on Neurolinguistic                               | Y | Y | Y | 5.3 |
| 81 | 109106128 | 53  | NOC:Patent Drafting for Beginners                                 | Y | Y | Y | 8.2 |
| 82 | 109106129 | 19  | NOC:Business English Communication                                | Y | Y | Y | 18  |
| 83 | 109105127 | 40  | NOC:Strategic Performance Management                              | Y | Y | Y | 12  |
| 84 | 109106130 | 40  | NOC:Postmodernism in Literature                                   | Y | Y | Y | 33  |
| 85 | 109104126 | 40  | NOC:Introduction to Advanced Cognitive Processes                  | Y | Y | Y | 11  |
| 86 | 109104125 | 141 | NOC:An Introduction to Microeconomics                             | Y | Y | Y | 15  |
| 87 | 109103133 | 30  | NOC:Sociological Perspectives on Modernity                        | Y | Y | Y | 13  |
| 88 | 109103134 | 30  | NOC:Introduction to Cognitive Psychology                          | Y | Y | Y | 9.4 |
| 89 | 109103135 | 30  | NOC:Introduction to Modern Indian Political Thought               | Y | Y | Y | 23  |
| 90 | 109103136 | 20  | NOC:Consumer Psychology   | Y | Y | Y | 19  |
| 91 | 109104135 | 35  | NOC:Introduction to Literary Theory                               | Y | Y | Y | 10  |
| 92 | 109104136 | 20  | NOC:Development of Sociology in India                             | Y | Y | Y | 5.0 |

|     |                           |    |  |     |   |     |     |
|-----|---------------------------|----|--|-----|---|-----|-----|
| 93  | <a href="#">109105135</a> | 20 | NOC:Introduction to Basic Spoken Sanskrit                      | --- | Y | --- | 6.7 |
| 94  | <a href="#">109105136</a> | 20 | NOC:Water, Society and Sustainability                          | Y   | Y | Y   | 6.5 |
| 95  | <a href="#">109106135</a> | 47 | NOC:Indian Fiction in English                                  | Y   | Y | Y   | 60  |
| 96  | <a href="#">109106136</a> | 58 | NOC:Introduction to Cultural Studies                           | Y   | Y | Y   | 45  |
| 97  | <a href="#">109106137</a> | 78 | NOC:Intellectual Property                                      | Y   | Y | Y   | 15  |
| 98  | <a href="#">109106138</a> | 54 | NOC:Short Fiction in Indian Literature                         | Y   | Y | Y   | 54  |
| 99  | <a href="#">109103140</a> | 27 | NOC:Introduction to Modern Indian Drama                        | Y   | Y | Y   | 10  |
| 100 | <a href="#">109103141</a> | 30 | NOC:Introduction to Political Theory                           | Y   | Y | Y   | 26  |
| 101 | <a href="#">109103142</a> | 21 | NOC:Human Behaviour  | Y   | Y | Y   | 21  |
| 102 | <a href="#">109104143</a> | 38 | NOC:Introduction to the Psychology of Language                 | Y   | Y | Y   | 19  |
| 103 | <a href="#">109105144</a> | 40 | NOC:Employment Communication A Lab based course                | Y   | Y | Y   | 15  |
| 104 | <a href="#">109106145</a> | 57 | NOC:The Nineteenth-Century English Novel                       | Y   | Y | Y   | 94  |
| 105 | <a href="#">109106146</a> | 51 | NOC:Feminist Writings  | Y   | Y | Y   | 80  |
| 106 | <a href="#">109106147</a> | 50 | NOC:Introduction to World Literature                           | Y   | Y | Y   | 77  |
| 107 | <a href="#">109106148</a> | 44 | NOC:Managing Intellectual Property in Universities             | Y   | Y | Y   | 3.7 |
| 108 | <a href="#">109106149</a> | 40 | NOC:English Literature of the Romantic Period, 1798-1832       | Y   | Y | Y   | 27  |
| 109 | <a href="#">109107139</a> | 60 | NOC:Literature, Culture and Media                              | Y   | Y | Y   | 12  |
| 110 | <a href="#">109106170</a> | 80 | Introduction to Film Studies (2019)                            | --- | Y | --- | 85  |
| 111 | <a href="#">109102156</a> | 38 | NOC:Text, Textuality and Digital Media                         | Y   | Y | Y   | 30  |
| 112 | <a href="#">109102157</a> | 23 | NOC:Positive Psychology  | Y   | Y | Y   | 12  |
| 113 | <a href="#">109103152</a> | 20 | NOC:The Psychology of Language                                 | Y   | Y | Y   | 8.9 |
| 114 | <a href="#">109103153</a> | 25 | NOC:Development Research Methods                               | Y   | Y | Y   | 10  |
| 115 | <a href="#">109104150</a> | 20 | NOC:Population Studies   | Y   | Y | Y   | 9.1 |
| 116 | <a href="#">109104151</a> | 15 | NOC:Psychology of Everyday                                     | Y   | Y | Y   | 14  |
| 117 | <a href="#">109105169</a> | 45 | NOC:Intermediate Level of Spoken Sanskrit                      | Y   | Y | Y   | 12  |
| 118 | <a href="#">109106159</a> | 65 | NOC:Appreciating Linguistics: A Typological Approach           | Y   | Y | Y   | 121 |
| 119 | <a href="#">109106160</a> | 15 | NOC:Inclusion and Technology Design                            | Y   | Y | Y   | 39  |
| 120 | <a href="#">109106161</a> | 28 | NOC:Energy Economics and Policy                                | Y   | Y | Y   | 25  |
| 121 | <a href="#">109106163</a> | 19 | NOC:The Victorian Gothic Short Story                           | Y   | Y | Y   | 38  |
| 122 | <a href="#">109106165</a> | 51 | NOC:German-II  | Y   | Y | Y   | 74  |
| 123 | <a href="#">109106166</a> | 46 | NOC:German-I   | Y   | Y | Y   | 80  |
| 124 | <a href="#">109106168</a> | 33 | NOC:Disability Studies: An Introduction                        | Y   | Y | Y   | 50  |
| 125 | <a href="#">109107154</a> | 20 | NOC:Body language: Key to professional Success                 | Y   | Y | Y   | 4.0 |
| 126 | <a href="#">109107155</a> | 40 | NOC:Interpersonal Skills                                       | Y   | Y | Y   | 8.9 |
| 127 | <a href="#">109108158</a> | 23 | NOC:Artistic Exploration in Scientific Research and Technology | Y   | Y | Y   | 4.7 |
| 128 | <a href="#">109107172</a> | 20 | NOC:Effective Writing  | Y   | Y | Y   | 6.5 |
| 129 | <a href="#">109101171</a> | 56 | NOC:Energy Resources, Economics and Environment                | Y   | Y | Y   | 43  |
| 130 | <a href="#">109106175</a> | 34 | NOC:Feminism: Concepts and Theories                            | Y   | Y | Y   | 38  |

|     |           |    |   |     |   |     |     |
|-----|-----------|----|---|-----|---|-----|-----|
| 131 | 109103171 | 22 | NOC:Indian Business History   | Y   | Y | Y   | 11  |
| 132 | 109104171 | 40 | NOC:Introduction to Brain and Behaviour                                 | Y   | Y | Y   | 15  |
| 133 | 109107171 | 60 | NOC:Introduction to Environmental Economics                             | Y   | Y | Y   | 9.7 |
| 134 | 109106174 | 46 | NOC:Introduction to Political Ideologies: Contexts, Ideas and Practices | Y   | Y | Y   | 38  |
| 135 | 109106171 | 53 | NOC:Literary Criticism (From Plato to Leavis)                           | Y   | Y | Y   | 34  |
| 136 | 109106173 | 44 | NOC:Modern Indian Writing in Translation                                | Y   | Y | Y   | 27  |
| 137 | 109107173 | 60 | NOC:Strategic Trade and Protectionism - Theories and Empirics           | Y   | Y | Y   | 9.8 |
| 138 | 109106172 | 61 | NOC:Twentieth Century Fiction   | Y   | Y | Y   | 62  |
| 139 | 109106180 | 60 | NOC:Classical Sociological Theory                                       | Y   | Y | Y   | 7.1 |
| 140 | 109105176 | 40 | NOC:Entrepreneurship and IP strategy                                    | Y   | Y | Y   | 29  |
| 141 | 109103176 | 30 | NOC:Introduction to Western Political Thought                           | Y   | Y | Y   | 15  |
| 142 | 109104176 | 20 | NOC:Modern Indian Art From the Colonial Period to the Present           | Y   | Y | Y   | 1.8 |
| 143 | 109106176 | 76 | NOC:Poetry  | Y   | Y | Y   | 16  |
| 144 | 109106177 | 62 | NOC:The Popular Gothic Novel  | Y   | Y | Y   | 4.9 |
| 145 | 109104181 | 45 | NOC:Introduction to Japanese Language and Culture                       | --- | Y | --- | 7.5 |
| 146 | 109103182 | 34 | NOC:Psychology of Stress, Health and Well-being                         | Y   | Y | Y   | 7.9 |
| 147 | 109103183 | 27 | NOC:Phonetics and Phonology: A Broad Overview                           | Y   | Y | Y   | 2.9 |
| 148 | 109103184 | 23 | NOC:Philosophical Foundations of Social Research                        | --- | Y | Y   | 6.5 |
| 149 | 109104182 | 42 | NOC:Applied Statistics and Econometrics                                 | Y   | Y | --- | 6.9 |
| 150 | 109104183 | 40 | NOC:Literature and Coping Skills  | Y   | Y | Y   | 12  |
| 151 | 109104184 | 40 | NOC:Indian Economy: Some Contemporary Perspectives                      | Y   | Y | Y   | 3.7 |
| 152 | 109106182 | 41 | NOC:Basics of Language Science  | Y   | Y | Y   | 14  |
| 153 | 109106183 | 60 | NOC:Globalization: Theoretical Perspectives                             | Y   | Y | Y   | 8.2 |
| 154 | 109106184 | 10 | NOC:Towards an Ethical Digital Society: From Theory to Practice         | Y   | Y | Y   | 3.5 |
| 155 | 109107182 | 40 | NOC:Handling Large Scale Unit Level Data Using STATA                    | Y   | Y | Y   | 7.5 |
| 156 | 109103185 | 30 | NOC:Sociology of Development  | --- | Y | --- | 8.0 |
| 157 | 109103186 | 31 | NOC:Environment and Development   | --- | Y | --- | 8.2 |
| 158 | 109103187 | 43 | NOC:Introduction to Market Structures                                   | Y   | Y | Y   | 4.4 |
| 159 | 109103188 | 34 | NOC:Mathematics for Economics - I                                       | Y   | Y | Y   | 3.8 |
| 160 | 109105185 | 40 | NOC:Urbanization and Environment  | Y   | Y | Y   | 5.1 |
| 161 | 109106185 | 43 | NOC:Literary and Cultural Disability Studies: An Exploration            | Y   | Y | Y   | 12  |
| 162 | 109106186 | 65 | NOC:Trauma and Literature   | Y   | Y | Y   | 10  |
| 163 | 109106187 | 57 | NOC:Twentieth Century American Drama                                    | Y   | Y | --- | 8.1 |
| 164 | 109106188 | 68 | NOC:Fundamental Concepts in Sociolinguistics                            | Y   | Y | Y   | 9.5 |
| 165 | 109101189 | 60 | NOC:Introduction to Paninian Grammar                                    | --- | Y | --- | 7.7 |
| 166 | 109103189 | 20 | NOC:Language, Culture and Cognition: An Introduction                    | Y   | Y | Y   | 4.4 |
| 167 | 109105189 | 27 | NOC:Advanced Level of Spoken Sanskrit                                   | --- | Y | --- | 4.5 |
| 168 | 109105190 | 61 | NOC:Education for Sustainable Development                               | Y   | Y | Y   | 7.2 |

|     |           |    |  |     |   |     |     |
|-----|-----------|----|--|-----|---|-----|-----|
| 169 | 109105191 | 60 | NOC:Elements of Literature and Creative Communication                          | Y   | Y | Y   | 6.7 |
| 170 | 109105192 | 65 | NOC:Training and Development   | Y   | Y | Y   | 8.3 |
| 171 | 109106189 | 50 | NOC:Literature and Life  | --- | Y | --- | 9.8 |
| 172 | 109106190 | 69 | NOC:German - III   | --- | Y | --- | 8.2 |
| 173 | 109106191 | 56 | NOC:Appreciating Hindustani Music  | Y   | Y | Y   | 13  |
| 174 | 109107189 | 40 | NOC:Indian Poetry in English   | Y   | Y | Y   | 9.4 |
| 175 | 109107190 | 40 | NOC:Exploring Survey Data on Health Care                                       | Y   | Y | Y   | 5.1 |
| 176 | 109107191 | 60 | NOC:Contextualizing Gender   | Y   | Y | Y   | 11  |
| 177 | 109104194 | 55 | NOC:Japani Bhasha - Saral Swaroop  | --- | Y | --- | 4.2 |
| 178 | 109101195 | 60 | NOC:Sandhi in Paninian Grammar   | --- | Y | --- | 6.7 |
| 179 | 109104195 | 42 | NOC:Introduction to Japanese Language and Culture-II                           | Y   | Y | Y   | 4.5 |
| 180 | 109104196 | 60 | NOC:Indian Art: Materials, Techniques and Artistic Practices                   | Y   | Y | Y   | 6.4 |
| 181 | 109104197 | 20 | NOC:प्रमुख हिंदी कहानियां और भारतीय समाज                                       | --- | Y | --- | 3.8 |
| 182 | 109105195 | 20 | NOC:Sociology and Resource Management  | Y   | Y | Y   | 2.1 |
| 183 | 109105196 | 20 | NOC:Urban Sociology  | Y   | Y | Y   | 1.8 |
| 184 | 109105197 | 60 | NOC:Management of Fixed Income Securities                                      | Y   | Y | Y   | 6.9 |
| 185 | 109106195 | 61 | NOC:An Introduction to Indian Literary Theory                                  | Y   | Y | Y   | 7.6 |
| 186 | 109107195 | 60 | NOC:Public Speaking  | Y   | Y | Y   | 15  |
| 187 | 109107196 | 62 | NOC:Partition of India in Print Media and Cinema                               | Y   | Y | Y   | 14  |
| 188 | 109101198 | 60 | NOC:समास Samāsa in Pāṇinian Grammar-I  | Y   | Y | --- | 6.2 |
| 189 | 109103198 | 20 | NOC:Bilingualism: A Cognitive and Psycholinguistic Perspective                 | Y   | Y | Y   | 4.2 |
| 190 | 109104198 | 53 | NOC:Computer Aided Decision Systems - Industrial Practices using Big Analytics | Y   | Y | Y   | 4.9 |
| 191 | 109105198 | 60 | NOC:Petroleum Economics and Management   | Y   | Y | Y   | 5.0 |
| 192 | 109105199 | 40 | NOC:The Science of Happiness and Wellbeing                                     | Y   | Y | Y   | 3.5 |
| 193 | 109106198 | 80 | NOC:Host-Pathogen Interaction (Immunology)                                     | Y   | Y | Y   | 7.6 |
| 194 | 109106199 | 29 | NOC:Indian Feminisms: Concepts and Issues                                      | Y   | Y | Y   | 4.6 |
| 195 | 109106200 | 68 | NOC:United Nations Sustainable Development Goals                               | Y   | Y | --- | 6.8 |
| 196 | 109106201 | 47 | NOC:Learning English in Hindi  | --- | Y | --- | 6.7 |
| 197 | 109107198 | 61 | NOC:Narrative Mode and Fiction   | Y   | Y | --- | 14  |
| 198 | 109107199 | 36 | NOC:Group Dynamics   | Y   | Y | Y   | 7.7 |
| 199 | 109101203 | 60 | NOC:समास Samāsa in Pāṇinian Grammar - II                                       | --- | Y | --- | 6.4 |
| 200 | 109104203 | 20 | NOC:Introductory Rural Sociology: Continuity and Change                        | --- | Y | Y   | 6.9 |
| 201 | 109104204 | 40 | NOC:Threads of Visual Exploration: Textiles and Allied Practices               | --- | Y | --- | 4.3 |
| 202 | 109104206 | 23 | NOC:Moral Thinking: An Introduction to Values and Ethics                       | Y   | Y | Y   | 3.8 |
| 203 | 109105203 | 60 | NOC:Environmental Science  | --- | Y | --- | 7.5 |
| 204 | 109105204 | 60 | NOC:Psychology of Learning   | --- | Y | --- | 8.2 |
| 205 | 109105205 | 60 | NOC:Introduction to Language and Linguistics                                   | --- | Y | --- | 5.0 |
| 206 | 109106203 | 44 | NOC:Social History of Medicine in Colonial India                               | Y   | Y | Y   | 6.2 |

|     |                           |     |  |     |     |     |     |
|-----|---------------------------|-----|--|-----|-----|-----|-----|
| 207 | <a href="#">109106204</a> | 60  | NOC:Indian Society: Sociological Perspectives  | --- | Y   | --- | 8.8 |
| 208 | <a href="#">109107203</a> | 20  | NOC:Countering Stage Fright  | --- | Y   | --- | 3.7 |
| 209 | <a href="#">109107204</a> | 55  | NOC:Advance Course in Social Psychology  | Y   | Y   | Y   | 7.2 |
| 210 | <a href="#">109107205</a> | 63  | NOC:Performative Gender and Religions in South Asia  | --- | Y   | --- | 9.2 |
| 211 | <a href="#">109102392</a> | 40  | NOC:Science Communication: Research Productivity and Data Analytics using Open Source Software | Y   | Y   | Y   | 8.0 |
| 212 | <a href="#">109103395</a> | 31  | NOC:Psychology of Emotion: Theory and Applications   | Y   | Y   | Y   | 9.9 |
| 213 | <a href="#">109104398</a> | 39  | NOC:Psychology Of Bilingualism and Multilingualism   | Y   | Y   | Y   | 4.7 |
| 214 | <a href="#">109104400</a> | 10  | NOC:Sociology and Sanitation: An Introduction  | Y   | Y   | Y   | 2.6 |
| 215 | <a href="#">109105396</a> | 58  | NOC:Philosophy and Critical Thinking   | --- | Y   | --- | 5.6 |
| 216 | <a href="#">109106401</a> | 44  | NOC:Human Movement Science   | --- | Y   | --- | 4.7 |
| 217 | <a href="#">109106402</a> | 40  | NOC:Sports and Performance Nutrition   | Y   | Y   | Y   | 6.2 |
| 218 | <a href="#">109106403</a> | 41  | NOC:Sports Psychology  | --- | Y   | --- | 9.1 |
| 219 | <a href="#">109106404</a> | 59  | NOC:Strength and Conditioning for the Indian Population  | --- | Y   | --- | 15  |
| 220 | <a href="#">109106405</a> | 39  | NOC:Essentials of Sports Injury Prevention and Rehabilitation                                  | --- | Y   | --- | 2.4 |
| 221 | <a href="#">109106406</a> | 40  | NOC:Introduction to Exercise Physiology and Sports Performance                                 | --- | Y   | Y   | 3.5 |
| 222 | <a href="#">109106407</a> | 40  | NOC:Fundamentals of Sports Training, Load Management and Recovery                              | --- | Y   | --- | 1.7 |
| 223 | <a href="#">109106408</a> | 28  | NOC:Forensic Linguistics   | --- | Y   | --- | 2.2 |
| 224 | <a href="#">109107394</a> | 60  | NOC:Online Communication in the Digital Age  | Y   | Y   | --- | 11  |
| 225 | <a href="#">109107397</a> | 42  | NOC:Energy Resources, Economics and Sustainability   | --- | Y   | --- | 4.6 |
| 226 | <a href="#">109107399</a> | 20  | NOC:Cognitive Ergonomics   | --- | Y   | --- | 2.6 |
| 227 | <a href="#">109103501</a> | --- | NOC:Economics of Health and Education  | --- | --- | --- | --- |
| 228 | <a href="#">109103540</a> | --- | NOC:Engineering Psychology   | --- | --- | --- | --- |
| 229 | <a href="#">109104496</a> | --- | NOC:Business Japanese and Business Manner  | --- | --- | --- | --- |
| 230 | <a href="#">109104497</a> | --- | NOC:Threads of Visual Exploration: Textiles and Allied Practices - Part II                     | --- | --- | --- | --- |
| 231 | <a href="#">109105493</a> | --- | NOC:Sustainable Happiness  | --- | --- | --- | --- |
| 232 | <a href="#">109105494</a> | --- | NOC:Logistics and Supply Chain Management  | --- | --- | --- | --- |
| 233 | <a href="#">109105495</a> | --- | NOC:Tools and Technologies of Language Documentation   | --- | --- | --- | --- |
| 234 | <a href="#">109106499</a> | --- | NOC:Korean-I   | --- | --- | --- | --- |
| 235 | <a href="#">109106500</a> | --- | NOC:Performance Traditions of the Mahabharata in Tamilnadu                                     | --- | --- | --- | --- |
| 236 | <a href="#">109106503</a> | --- | NOC:Posthumanism: An Introduction  | --- | --- | --- | --- |
| 237 | <a href="#">109106505</a> | --- | NOC:Indian Popular Culture   | --- | --- | --- | --- |
| 238 | <a href="#">109107498</a> | --- | NOC:The English Novel: Interdisciplinary Approaches  | --- | --- | --- | --- |
| 239 | <a href="#">109107541</a> | --- | NOC:Memory   | --- | --- | --- | --- |

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[Go to Top](#)

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|   |                           |    |                       |   |   |   |    |
|---|---------------------------|----|-----------------------|---|---|---|----|
| 1 | <a href="#">110101003</a> | 41 | Managerial Accounting | Y | Y | Y | 29 |
|---|---------------------------|----|-----------------------|---|---|---|----|



|    |                           |    |  |   |   |   |     |
|----|---------------------------|----|--|---|---|---|-----|
| 2  | <a href="#">110101005</a> | 40 | Managerial Economics   | Y | Y | Y | 35  |
| 3  | <a href="#">110102016</a> | 40 | Organisation Management  | Y | Y | Y | 16  |
| 4  | <a href="#">110102058</a> | 38 | Organisation of Engineering Systems and Human Resources Management | Y | Y | Y | 29  |
| 5  | <a href="#">110104055</a> | 37 | Strategic Marketing - Contemporary Issues                          | Y | Y | Y | 7.6 |
| 6  | <a href="#">110104063</a> | 58 | NOC:Strategy: An Introduction to game Theory                       | Y | Y | Y | 2.5 |
| 7  | <a href="#">110105030</a> | 40 | Econometric Modelling  | Y | Y | Y | 19  |
| 8  | <a href="#">110105033</a> | 41 | Organizational Behaviour   | Y | Y | Y | 12  |
| 9  | <a href="#">110105035</a> | 40 | Security Analysis and Portfolio Management                         | Y | Y | Y | 19  |
| 10 | <a href="#">110105039</a> | 40 | Six Sigma  | Y | Y | Y | 8.3 |
| 11 | <a href="#">110105052</a> | 40 | International Business Communication                               | Y | Y | Y | 16  |
| 12 | <a href="#">110105054</a> | 40 | Consumer Behaviour   | Y | Y | Y | 12  |
| 13 | <a href="#">110105057</a> | 40 | International Finance  | Y | Y | Y | 11  |
| 14 | <a href="#">110105060</a> | 42 | Applied Multivariate Statistical Modeling                          | Y | Y | Y | 12  |
| 15 | <a href="#">110106043</a> | 40 | Infrastructure Finance   | Y | Y | Y | 20  |
| 16 | <a href="#">110106044</a> | 40 | Manufacturing Systems Management                                   | Y | Y | Y | 18  |
| 17 | <a href="#">110106045</a> | 41 | Operations and Supply Chain Management                             | Y | Y | Y | 18  |
| 18 | <a href="#">110106050</a> | 42 | Business Analysis for Engineers                                    | Y | Y | Y | 16  |
| 19 | <a href="#">110106062</a> | 40 | NOC:Introduction to Operations Research                            | Y | Y | Y | 4.0 |
| 20 | <a href="#">110108047</a> | 37 | Strategic Management   | Y | Y | Y | 16  |
| 21 | <a href="#">110108056</a> | 38 | Global Supply Chain Management                                     | Y | Y | Y | 10  |
| 22 | <a href="#">110104066</a> | 50 | NOC:Quantitative Finance   | Y | Y | Y | 8.7 |
| 23 | <a href="#">110104065</a> | 48 | NOC:Managing Services  | Y | Y | Y | 12  |
| 24 | <a href="#">110106064</a> | 47 | NOC:Introduction to Data Analytics                                 | Y | Y | Y | 2.4 |
| 25 | <a href="#">110105067</a> | 50 | Economics / Management / Entrepreneurship                          | Y | Y | Y | 13  |
| 26 | <a href="#">110105069</a> | 32 | NOC:Principles of Human Resource Management                        | Y | Y | Y | 9.6 |
| 27 | <a href="#">110104068</a> | 46 | NOC:Marketing Management - I                                       | Y | Y | Y | 3.1 |
| 28 | <a href="#">110106072</a> | 50 | NOC:Introduction to Data analytics                                 | Y | Y | Y | 2.6 |
| 29 | <a href="#">110104070</a> | 48 | NOC:Marketing Management - II                                      | Y | Y | Y | 3.7 |
| 30 | <a href="#">110105071</a> | 40 | NOC:Commodity Derivatives and Risk Management                      | Y | Y | Y | 11  |
| 31 | <a href="#">110105073</a> | 24 | NOC:Strategic Communication for Sustainable Development            | Y | Y | Y | 4.8 |
| 32 | <a href="#">110107073</a> | 60 | NOC:Financial Statement Analysis and Reporting                     | Y | Y | Y | 17  |
| 33 | <a href="#">110105078</a> | 39 | NOC:Services Marketing: A Practical Approach                       | Y | Y | Y | 4.9 |
| 34 | <a href="#">110107074</a> | 40 | NOC:Supply Chain Analytics   | Y | Y | Y | 9.9 |
| 35 | <a href="#">110105074</a> | 40 | NOC:Consumer Behaviour   | Y | Y | Y | 8.2 |
| 36 | <a href="#">110105076</a> | 40 | NOC:Knowledge Management   | Y | Y | Y | 11  |
| 37 | <a href="#">110105079</a> | 61 | NOC:Business Ethics  | Y | Y | Y | 17  |
| 38 | <a href="#">110105075</a> | 41 | NOC:Foundation Course in Managerial Economics                      | Y | Y | Y | 9.0 |
| 39 | <a href="#">110104074</a> | 27 | NOC:Systems Engineering: Theory and Practice                       | Y | Y | Y | 3.0 |

|    |                           |    |   |   |   |    |     |
|----|---------------------------|----|---|---|---|----|-----|
| 40 | <a href="#">110104073</a> | 40 | NOC:Project Management  | Y | Y | Y  | 2.6 |
| 41 | <a href="#">110106081</a> | 78 | NOC:Patent Law for Engineers and Scientists                                   | Y | Y | Y  | 27  |
| 42 | <a href="#">110107080</a> | 40 | NOC:Marketing Research and Analysis   | Y | Y | Y  | 11  |
| 43 | <a href="#">110107081</a> | 60 | NOC:Project Management for Managers   | Y | Y | Y  | 16  |
| 44 | <a href="#">110104080</a> | 34 | NOC:Total Quality Management - I  | Y | Y | Y  | 3.3 |
| 45 | <a href="#">110105080</a> | 20 | NOC:Gender Justice and Workplace Security                                     | Y | Y | Y  | 4.8 |
| 46 | <a href="#">110105081</a> | 58 | NOC:Corporate Social Responsibility   | Y | Y | Y  | 13  |
| 47 | <a href="#">110105082</a> | 40 | NOC:Decision Modeling   | Y | Y | Y  | 11  |
| 48 | <a href="#">110105083</a> | 60 | NOC:E-Business  | Y | Y | Y  | 15  |
| 49 | <a href="#">110105091</a> | 31 | NOC:Research Writing  | Y | Y | Y  | 5.7 |
| 50 | <a href="#">110104084</a> | 22 | NOC:Management of New Products and Services                                   | Y | Y | Y  | 4.7 |
| 51 | <a href="#">110104085</a> | 41 | NOC:Total Quality Management-II   | Y | Y | Y  | 8.6 |
| 52 | <a href="#">110104086</a> | 28 | NOC:Practitioners Course In Descriptive,Predictive and Prescriptive Analytics | Y | Y | Y  | 11  |
| 53 | <a href="#">110105088</a> | 60 | NOC:Quality Design and Control  | Y | Y | Y  | 17  |
| 54 | <a href="#">110105087</a> | 60 | NOC:Design and Analysis of Experiments  | Y | Y | Y  | 16  |
| 55 | <a href="#">110105089</a> | 60 | NOC:Business Analytics for Management Decision                                | Y | Y | Y  | 20  |
| 56 | <a href="#">110107092</a> | 60 | NOC:Business Analytics and Data Mining Modeling using R                       | Y | Y | Y  | 15  |
| 57 | <a href="#">110105090</a> | 56 | NOC:Soft Skills for Business Negotiations and Marketing Strategies            | Y | Y | Y  | 17  |
| 58 | <a href="#">110103093</a> | 23 | NOC:Economic Growth and Development   | Y | Y | Y  | 13  |
| 59 | <a href="#">110104093</a> | 61 | NOC:Microeconomics: Theory and Applications                                   | Y | Y | Y  | 13  |
| 60 | <a href="#">110104094</a> | 60 | NOC:Data Analysis and Decision Making-I                                       | Y | Y | Y  | 19  |
| 61 | <a href="#">110104095</a> | 51 | NOC:Economics of Health and Health Care                                       | Y | Y | Y  | 11  |
| 62 | <a href="#">110104096</a> | 26 | NOC:Simulation of Business Systems: An Applied Approach                       | Y | Y | Y  | 7.8 |
| 63 | <a href="#">110105093</a> | 60 | NOC:Engineering Econometrics  | Y | Y | Y  | 18  |
| 64 | <a href="#">110105094</a> | 60 | NOC:Industrial Safety Engineering   | Y | Y | Y  | 16  |
| 65 | <a href="#">110105095</a> | 60 | NOC:Management of Inventory Systems   | Y | Y | Y  | 17  |
| 66 | <a href="#">110105096</a> | 40 | NOC:Selected Topics in Decision Modeling                                      | Y | Y | Y  | 8.3 |
| 67 | <a href="#">110105097</a> | 40 | NOC:Ethics in Engineering Practice  | Y | Y | Y  | 12  |
| 68 | <a href="#">110107093</a> | 60 | NOC:Working Capital Management  | Y | Y | Y  | 15  |
| 69 | <a href="#">110107094</a> | 40 | NOC:Innovation, Business Models and Entrepreneurship                          | Y | Y | Y  | 12  |
| 70 | <a href="#">110107095</a> | 20 | NOC:Business Analytics and Data Mining Modeling Using R - Part II             | Y | Y | Y  | 5.3 |
| 71 | <a href="#">110104117</a> | 20 | NOC:Management of Field Sales   | Y | Y | Y  | 9.4 |
| 72 | <a href="#">110104118</a> | 60 | NOC:Data Analysis and Decision Making-II                                      | Y | Y | Y  | 25  |
| 73 | <a href="#">110104119</a> | 46 | NOC:Advanced Green Manufacturing Systems                                      | Y | Y | Y  | 23  |
| 74 | <a href="#">110105120</a> | 40 | NOC:Managing Change in Organizations  | Y | Y | Y  | 13  |
| 75 | <a href="#">110105121</a> | 60 | NOC:Financial Institutions and Markets  | Y | Y | Y  | 17  |
| 76 | <a href="#">110105122</a> | 40 | NOC:Sales and Distribution Management   | Y | Y | Y  | 17  |
| 77 | <a href="#">110105123</a> | 63 | NOC:Six Sigma   | Y | Y | Y* | 19  |

|     |                           |     |   |   |   |     |     |
|-----|---------------------------|-----|---|---|---|-----|-----|
| 78  | <a href="#">110106124</a> | 27  | NOC:Design Thinking - A Primer                                    | Y | Y | Y   | 21  |
| 79  | <a href="#">110107112</a> | 40  | NOC:Global Marketing Management                                   | Y | Y | Y   | 7.0 |
| 80  | <a href="#">110107113</a> | 60  | NOC:Marketing Research and Analysis-II                            | Y | Y | Y   | 11  |
| 81  | <a href="#">110107114</a> | 60  | NOC:Business Statistics   | Y | Y | Y   | 11  |
| 82  | <a href="#">110107115</a> | 20  | NOC:MCDM Techniques Using R                                       | Y | Y | Y   | 4.7 |
| 83  | <a href="#">110107116</a> | 40  | NOC:Manufacturing Strategy  | Y | Y | Y   | 12  |
| 84  | <a href="#">110101131</a> | 40  | NOC:Financial Accounting  | Y | Y | Y   | 33  |
| 85  | <a href="#">110101132</a> | 20  | NOC:Cost Accounting   | Y | Y | Y   | 17  |
| 86  | <a href="#">110101133</a> | 40  | NOC:Game Theory   | Y | Y | Y   | 24  |
| 87  | <a href="#">110104125</a> | 60  | NOC:Data Analysis and Decision Making - III                       | Y | Y | Y   | 15  |
| 88  | <a href="#">110105137</a> | 63  | NOC:Performance and Reward Management                             | Y | Y | Y   | 15  |
| 89  | <a href="#">110105138</a> | 40  | NOC:The Ethical Corporation                                       | Y | Y | Y   | 20  |
| 90  | <a href="#">110105139</a> | 43  | NOC:Intellectual Property Rights and Competition Law              | Y | Y | Y   | 11  |
| 91  | <a href="#">110105140</a> | 40  | NOC:Patent Search for Engineers and Lawyers                       | Y | Y | Y   | 11  |
| 92  | <a href="#">110106134</a> | 34  | NOC:Decision-Making Under Uncertainty                             | Y | Y | Y   | 32  |
| 93  | <a href="#">110106135</a> | 34  | NOC:Decision making using financial accounting                    | Y | Y | Y   | 52  |
| 94  | <a href="#">110107126</a> | 48  | NOC:Training Of Trainers  | Y | Y | Y   | 27  |
| 95  | <a href="#">110107127</a> | 60  | NOC:Management Accounting   | Y | Y | Y   | 10  |
| 96  | <a href="#">110107128</a> | 60  | NOC:Financial Derivatives and Risk Management                     | Y | Y | Y   | 17  |
| 97  | <a href="#">110107129</a> | 40  | NOC:Business Analytics and Text Mining Modeling Using Python      | Y | Y | Y   | 5.8 |
| 98  | <a href="#">110107130</a> | 40  | NOC:Toyota Production System                                      | Y | Y | Y   | 13  |
| 99  | <a href="#">110105144</a> | 41  | NOC:Behavioral and Personal Finance                               | Y | Y | Y   | 19  |
| 100 | <a href="#">110106141</a> | 61  | NOC:Entrepreneurship  | Y | Y | Y   | 36  |
| 101 | <a href="#">110107144</a> | 60  | NOC:Financial Management for Managers                             | Y | Y | Y   | 12  |
| 102 | <a href="#">110108141</a> | 36  | NOC:Integrated Marketing Management                               | Y | Y | Y   | 11  |
| 103 | <a href="#">110101141</a> | 49  | NOC:Introduction to Stochastic Processes                          | Y | Y | Y   | 57  |
| 104 | <a href="#">110101142</a> | 63  | NOC:Introduction to System Dynamics Modeling                      | Y | Y | Y   | 38  |
| 105 | <a href="#">110105143</a> | 60  | NOC:Management of Commercial Banking                              | Y | Y | Y   | 30  |
| 106 | <a href="#">110105142</a> | 66  | NOC:Marketing Analytics   | Y | Y | Y   | 18  |
| 107 | <a href="#">110105141</a> | 62  | NOC:Modelling and Analytics for Supply Chain Management           | Y | Y | Y   | 17  |
| 108 | <a href="#">110107141</a> | 60  | NOC:Production and Operation Management (Prof. Rajat Agarwal)     | Y | Y | Y   | 14  |
| 109 | <a href="#">110107143</a> | 60  | NOC:Production and Operation Management (Prof. Santosh Rangnekar) | Y | Y | Y   | 13  |
| 110 | <a href="#">110107142</a> | 40  | NOC:Services Marketing: Integrating People, Technology, Strategy  | Y | Y | Y   | 4.1 |
| 111 | <a href="#">110105145</a> | 42  | NOC:Customer Relationship Management                              | Y | Y | Y   | 17  |
| 112 | <a href="#">110105147</a> | 60  | NOC:Decision Support System for Managers                          | Y | Y | --- | 19  |
| 113 | <a href="#">110106147</a> | 120 | NOC:Financial Accounting (IIT Mandi)                              | Y | Y | Y   | 7.3 |
| 114 | <a href="#">110107145</a> | 60  | NOC:International Business  | Y | Y | Y   | 8.1 |
| 115 | <a href="#">110107147</a> | 60  | NOC:Introduction to Marketing Essentials                          | Y | Y | Y   | 5.1 |

|     |                           |     |  |     |   |     |     |
|-----|---------------------------|-----|--|-----|---|-----|-----|
| 116 | <a href="#">110105148</a> | 60  | NOC:Management Information System  | Y   | Y | Y   | 30  |
| 117 | <a href="#">110106145</a> | 56  | NOC:Organizational Behaviour   | Y   | Y | Y   | 5.4 |
| 118 | <a href="#">110101146</a> | 36  | NOC:Organization Development and Change in 21st Century                    | Y   | Y | Y   | 6.3 |
| 119 | <a href="#">110107146</a> | 60  | NOC:Path Integral Methods in Physics and Finance                           | Y   | Y | --- | 8.0 |
| 120 | <a href="#">110105146</a> | 59  | NOC:Principles of Management (2020)  | Y   | Y | Y   | 30  |
| 121 | <a href="#">110106146</a> | 32  | NOC:The Future of Manufacturing Business: Role of Additive Manufacturing   | Y   | Y | Y   | 4.3 |
| 122 | <a href="#">110101149</a> | 80  | NOC:Managerial Economics   | Y   | Y | Y   | 11  |
| 123 | <a href="#">110101150</a> | 40  | NOC:Quality Control and Improvement with MINITAB                           | Y   | Y | Y   | 3.9 |
| 124 | <a href="#">110106150</a> | 36  | NOC:Technology Forecasting for Strategic Decision Making - An Introduction | Y   | Y | Y   | 2.1 |
| 125 | <a href="#">110106151</a> | 62  | NOC:Leadership for India Inc: Practical Concepts and Constructs            | Y   | Y | Y   | 13  |
| 126 | <a href="#">110107150</a> | 62  | NOC:Principles of Management (2021)  | Y   | Y | Y   | 7.6 |
| 127 | <a href="#">110107151</a> | 40  | NOC:Organization Theory-Structure and Design                               | Y   | Y | Y   | 4.7 |
| 128 | <a href="#">110107152</a> | 60  | NOC:Talent Acquisition and Management                                      | Y   | Y | Y   | 12  |
| 129 | <a href="#">110101153</a> | 32  | NOC:Business and Sustainable Development                                   | Y   | Y | Y   | 3.1 |
| 130 | <a href="#">110105153</a> | 107 | NOC:Applied Econometrics   | Y   | Y | --- | 5.4 |
| 131 | <a href="#">110105154</a> | 60  | NOC:Organizational Behaviour - II  | Y   | Y | Y   | 8.9 |
| 132 | <a href="#">110105155</a> | 60  | NOC:Automation in Production Systems and Management                        | Y   | Y | Y   | 7.2 |
| 133 | <a href="#">110105156</a> | 40  | NOC:Corporate Finance  | --- | Y | --- | 3.8 |
| 134 | <a href="#">110107153</a> | 40  | NOC:Econometric Modelling  | Y   | Y | Y   | 4.5 |
| 135 | <a href="#">110107154</a> | 60  | NOC:Security Analysis and Portfolio Management                             | Y   | Y | --- | 15  |
| 136 | <a href="#">110105157</a> | 39  | NOC:International Marketing  | Y   | Y | Y   | 3.7 |
| 137 | <a href="#">110105158</a> | 47  | NOC:Retail Management  | Y   | Y | Y   | 4.6 |
| 138 | <a href="#">110105159</a> | 40  | NOC:Business Law for Managers  | Y   | Y | Y   | 4.0 |
| 139 | <a href="#">110105160</a> | 60  | NOC:Safety and Risk Analytics  | --- | Y | --- | 9.8 |
| 140 | <a href="#">110106157</a> | 61  | NOC:Strategy and Technology: A Practical Primer                            | --- | Y | --- | 12  |
| 141 | <a href="#">110107157</a> | 60  | NOC:Decision Making with Spreadsheet                                       | --- | Y | --- | 6.3 |
| 142 | <a href="#">110107158</a> | 60  | NOC:Integrated Marketing Communication                                     | --- | Y | Y   | 17  |
| 143 | <a href="#">110107159</a> | 60  | NOC:Leadership and Team Effectiveness                                      | Y   | Y | Y   | 7.0 |
| 144 | <a href="#">110105161</a> | 60  | NOC:Strategic Management for Competitive Advantage                         | Y   | Y | Y   | 4.5 |
| 145 | <a href="#">110105162</a> | 60  | NOC:Human Factors Engineering  | Y   | Y | Y   | 8.3 |
| 146 | <a href="#">110107161</a> | 60  | NOC:Product and Brand Management   | Y   | Y | Y   | 14  |
| 147 | <a href="#">110107162</a> | 60  | NOC:Quantitative Investment Management                                     | --- | Y | --- | 8.4 |
| 148 | <a href="#">110107163</a> | 41  | NOC:Strategic Sales Management   | Y   | Y | Y   | 6.2 |
| 149 | <a href="#">110108161</a> | 38  | NOC:Strategic Management - The Competitive Edge                            | --- | Y | --- | 4.5 |
| 150 | <a href="#">110101164</a> | 40  | NOC:Advances in Strategic Human Resource Management                        | Y   | Y | Y   | 1.6 |
| 151 | <a href="#">110101165</a> | 93  | NOC:Yoga and Positive Psychology for Managing Career and Life              | Y   | Y | --- | 3.5 |
| 152 | <a href="#">110104164</a> | 44  | NOC:Artificial Intelligence (AI) for Investments                           | Y   | Y | Y   | 4.1 |

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|-----|---------------------------|-----|---|-----|-----|-----|-----|
| 153 | <a href="#">110105164</a> | 61  | NOC:Organizational Design Change and Transformation                                   | Y   | Y   | --- | 6.0 |
| 154 | <a href="#">110105165</a> | 40  | NOC:Mergers, Acquisitions and Corporate Restructuring                                 | Y   | Y   | Y   | 4.3 |
| 155 | <a href="#">110105166</a> | 40  | NOC:Invest Management   | Y   | Y   | --- | 3.9 |
| 156 | <a href="#">110106164</a> | 60  | NOC:Business Development: From Start to Scale   | Y   | Y   | Y   | 13  |
| 157 | <a href="#">110106165</a> | 58  | NOC:Applied Econometrics  | --- | Y   | --- | 4.9 |
| 158 | <a href="#">110101167</a> | 20  | NOC:Business Fundamentals for Entrepreneurs (Part 1: Internal Operation)              | Y   | Y   | --- | 3.1 |
| 159 | <a href="#">110104167</a> | 40  | NOC:Brand Management  | Y   | Y   | Y   | 6.5 |
| 160 | <a href="#">110104168</a> | 43  | NOC:Advanced Business Decision Support Systems  | Y   | Y   | Y   | 4.3 |
| 161 | <a href="#">110104169</a> | 28  | NOC:Advanced Algorithmic Trading and Portfolio Management                             | Y   | Y   | Y   | 3.3 |
| 162 | <a href="#">110105167</a> | 40  | NOC:Project Management: Planning, Execution, Evaluation and Control                   | Y   | Y   | --- | 3.1 |
| 163 | <a href="#">110105168</a> | 60  | NOC:Commodity Derivatives and Risk Management (2023)                                  | Y   | Y   | Y   | 6.3 |
| 164 | <a href="#">110106167</a> | 17  | NOC:Working in Contemporary Teams   | --- | Y   | --- | 2.0 |
| 165 | <a href="#">110107167</a> | 41  | NOC:Retail Marketing Strategy   | Y   | Y   | Y   | 6.5 |
| 166 | <a href="#">110107168</a> | 60  | NOC:Business to Business Marketing  | --- | Y   | --- | 8.7 |
| 167 | <a href="#">110107169</a> | 60  | NOC:Designing Work Organization   | Y   | Y   | Y   | 6.5 |
| 168 | <a href="#">110101436</a> | 60  | NOC:Supply Chain Digitization   | --- | Y   | --- | 6.1 |
| 169 | <a href="#">110101438</a> | 38  | NOC:Business Forecasting  | --- | Y   | --- | 4.4 |
| 170 | <a href="#">110101439</a> | 17  | NOC:Business Fundamentals for Entrepreneurs (Part 2: External Operation)              | --- | Y   | --- | 2.7 |
| 171 | <a href="#">110103433</a> | 59  | NOC:Organizational Behaviour: Individual Dynamics in Organization                     | --- | Y   | --- | 11  |
| 172 | <a href="#">110104437</a> | 36  | NOC:Advanced Financial Instruments for Sustainable Business and Decentralized Markets | Y   | Y   | Y   | 4.9 |
| 173 | <a href="#">110104440</a> | 57  | NOC:Multivariate Procedures with R  | --- | Y   | --- | 5.1 |
| 174 | <a href="#">110106368</a> | 58  | NOC:Foundations of Accounting and Finance   | Y   | Y   | Y   | 7.0 |
| 175 | <a href="#">110106435</a> | 48  | NOC:Strategic Sourcing  | --- | Y   | --- | 5.9 |
| 176 | <a href="#">110107430</a> | 40  | NOC:Project Management (2024)   | Y   | Y   | Y   | 3.0 |
| 177 | <a href="#">110107431</a> | 60  | NOC:AI in Marketing   | --- | Y   | --- | 4.8 |
| 178 | <a href="#">110107432</a> | 60  | NOC:Innovation in Marketing and Marketing of Innovation                               | --- | Y   | --- | 8.9 |
| 179 | <a href="#">110107434</a> | 60  | NOC:Strategic Services Marketing  | Y   | Y   | Y   | 9.6 |
| 180 | <a href="#">110103506</a> | --- | NOC:Labour Welfare and Industrial Relations   | --- | --- | --- | --- |
| 181 | <a href="#">110104507</a> | --- | NOC:Business Marketing - Technology Focus   | --- | --- | --- | --- |
| 182 | <a href="#">110104513</a> | --- | NOC:Advanced R Programming for Data Analytics in Business                             | --- | --- | --- | --- |
| 183 | <a href="#">110105508</a> | --- | NOC:Service Management: Integrating Strategy, Operations, and Technology              | --- | --- | --- | --- |
| 184 | <a href="#">110105510</a> | --- | NOC:Financial Management (in Hindi)   | --- | --- | --- | --- |
| 185 | <a href="#">110106511</a> | --- | NOC:Fundamentals of Cost Accounting   | --- | --- | --- | --- |
| 186 | <a href="#">110106512</a> | --- | NOC:Introduction to GST   | --- | --- | --- | --- |
| 187 | <a href="#">110106514</a> | --- | NOC:Research for Marketing Decisions  | --- | --- | --- | --- |
| 188 | <a href="#">110107492</a> | --- | NOC:HR Analytics  | --- | --- | --- | --- |



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| 189   | <a href="#">110107509</a> | --- | NOC:Strategic Management  | --- | --- | --- | --- |
| <b>Discipline : Mathematics</b><br><a href="#">Go to Top</a>  |                           |     |   |     |     |     |     |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/mathematics.pdf">http://www.digimat.in/downloads/topics/mathematics.pdf</a></b> |                           |     |   |     |     |     |     |
| 1   | <a href="#">111101003</a> | 40  | Elementary Numerical Analysis   | Y   | Y   | Y   | 28  |
| 2   | <a href="#">111101005</a> | 40  | Measure and Integration   | Y   | Y   | Y   | 34  |
| 3   | <a href="#">111101080</a> | 40  | Mathematics in India - From Vedic Period to Modern Times  | Y   | Y   | Y   | 18  |
| 4   | <a href="#">111102014</a> | 39  | Stochastic Processes  | Y   | Y   | Y   | 23  |
| 5   | <a href="#">111103016</a> | 41  | Formal Languages and Automata Theory  | Y   | Y   | Y   | 17  |
| 6   | <a href="#">111103070</a> | 40  | Complex Analysis  | Y   | Y   | Y   | 23  |
| 7   | <a href="#">111104024</a> | 44  | Applied Multivariate Analysis   | Y   | Y   | Y   | 20  |
| 8   | <a href="#">111104025</a> | 40  | Calculus of Variations and Integral Equations   | Y   | Y   | Y   | 12  |
| 9   | <a href="#">111104027</a> | 40  | Linear programming and Extensions   | Y   | Y   | Y   | 17  |
| 10  | <a href="#">111104068</a> | 42  | Convex Optimization   | Y   | Y   | Y   | 8.6 |
| 11  | <a href="#">111104071</a> | 38  | Foundations of Optimization   | Y   | Y   | Y   | 7.2 |
| 12  | <a href="#">111104079</a> | 40  | Probability Theory and Applications   | Y   | Y   | Y   | 8.6 |
| 13  | <a href="#">111105035</a> | 42  | Advanced Engineering Mathematics  | Y   | Y   | Y   | 12  |
| 14  | <a href="#">111105037</a> | 40  | Functional Analysis   | Y   | Y   | Y   | 19  |
| 15  | <a href="#">111105038</a> | 40  | Numerical methods of Ordinary & Partial Differential Equations  | Y   | Y   | Y   | 12  |
| 16  | <a href="#">111105039</a> | 40  | Optimization  | Y   | Y   | Y   | 12  |
| 17  | <a href="#">111105041</a> | 40  | Probability and Statistics  | Y   | Y   | Y   | 8.7 |
| 18  | <a href="#">111105042</a> | 40  | Regression Analysis   | Y   | Y   | Y   | 15  |
| 19  | <a href="#">111105043</a> | 40  | Statistical Inference   | Y   | Y   | --- | 12  |
| 20  | <a href="#">111105069</a> | 46  | A Basic Course in Real Analysis   | Y   | Y   | Y   | 15  |
| 21  | <a href="#">111106044</a> | 48  | An Introduction to Riemann Surfaces and Algebraic Curves:<br>Complex 1-Tori and Elliptic Curves                           | Y   | Y   | Y   | 23  |
| 22  | <a href="#">111106051</a> | 52  | Linear Algebra  | Y   | Y   | Y   | 21  |
| 23  | <a href="#">111106052</a> | 42  | Mathematical Logic  | Y   | Y   | Y   | 17  |
| 24  | <a href="#">111106053</a> | 52  | Real Analysis   | Y   | Y   | Y   | 22  |
| 25  | <a href="#">111106083</a> | 36  | NOC:An invitation to mathematics  | Y   | Y   | Y   | 6.7 |
| 26  | <a href="#">111107058</a> | 41  | Discrete Mathematics  | Y   | Y   | Y   | 4.5 |
| 27  | <a href="#">111108066</a> | 40  | Advanced Matrix Theory and Linear Algebra for Engineers   | Y   | Y   | Y   | 19  |
| 28  | <a href="#">111108081</a> | 40  | Ordinary Differential Equations and Applications  | Y   | Y   | Y   | 25  |
| 29  | <a href="#">111104085</a> | 30  | NOC:Basic Calculus for Engineers, Scientists and Economists   | Y   | Y   | Y   | 4.2 |
| 30  | <a href="#">111105077</a> | 40  | Statistical Methods for Scientists and Engineers  | Y   | Y   | Y   | 12  |
| 31  | <a href="#">111106084</a> | 43  | Advanced Complex Analysis - Part 1: Zeros of Analytic Functions,<br>Analytic continuation, Monodromy, Hyperbolic Geometry | Y   | Y   | Y   | 18  |
| 32  | <a href="#">111106086</a> | 51  | NOC:Discrete Mathematics  | Y   | Y   | Y   | 3.0 |
| 33  | <a href="#">111105091</a> | 61  | NOC:Applied Multivariate Statistical Modeling   | Y   | Y   | Y   | 4.6 |
| 34  | <a href="#">111105090</a> | 79  | NOC:Probability and Statistics  | Y   | Y   | Y   | 20  |

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| 35 | <a href="#">111104089</a> | 20  | NOC:Probability and Stochastics for finance   | Y | Y | Y   | 2.8 |
| 36 | <a href="#">111106082</a> | 40  | Dynamic Data Assimilation: An Introduction  | Y | Y | Y   | 19  |
| 37 | <a href="#">111106094</a> | 43  | Advanced Complex Analysis - Part 2: Singularity at Infinity, Infinity as a Value, Compact Spaces of Meromorphic Functions for the Spherical Metric and Spherical Derivative | Y | Y | Y   | 29  |
| 38 | <a href="#">111105093</a> | 20  | NOC:Partial Differential Equations (PDE) for Engineers: Solution by Separation of Variables   | Y | Y | Y   | 5.1 |
| 39 | <a href="#">111104092</a> | 21  | NOC:Differential Calculus in Several Variables  | Y | Y | Y   | 1.5 |
| 40 | <a href="#">111102096</a> | 77  | NOC:Stochastic Processes - 1  | Y | Y | Y   | 1.9 |
| 41 | <a href="#">111104095</a> | 22  | NOC:Curves and Surfaces   | Y | Y | Y   | 1.1 |
| 42 | <a href="#">111106097</a> | 42  | Basic Algebraic Geometry : Varieties, Morphisms, Local Rings, Function Fields and Nonsingularity  | Y | Y | Y   | 19  |
| 43 | <a href="#">111106098</a> | 38  | NOC:Introduction to Commutative Algebra   | Y | Y | Y   | 30  |
| 44 | <a href="#">111108098</a> | 60  | NOC:Linear Algebra  | Y | Y | Y   | 13  |
| 45 | <a href="#">111104098</a> | 24  | NOC:Linear Regression Analysis and Forecasting  | Y | Y | Y   | 1.3 |
| 46 | <a href="#">111102098</a> | 124 | NOC:Stochastic Processes  | Y | Y | Y   | 13  |
| 47 | <a href="#">111107098</a> | 60  | NOC:Mathematical Methods and its Applications   | Y | Y | Y   | 16  |
| 48 | <a href="#">111105098</a> | 73  | NOC:Introductory Course in Real Analysis  | Y | Y | --- | 20  |
| 49 | <a href="#">111105099</a> | 40  | NOC:Modeling Transport Phenomena of Microparticles  | Y | Y | Y   | 11  |
| 50 | <a href="#">111106100</a> | 64  | NOC:Differential Equations  | Y | Y | Y   | 24  |
| 51 | <a href="#">111107103</a> | 60  | NOC:Integral Equations, Calculus of Variations and its Applications   | Y | Y | Y   | 17  |
| 52 | <a href="#">111107104</a> | 20  | NOC:Nonlinear Programming   | Y | Y | Y   | 5.5 |
| 53 | <a href="#">111107105</a> | 40  | NOC:Numerical Methods   | Y | Y | Y   | 9.8 |
| 54 | <a href="#">111101100</a> | 62  | NOC:Measure Theory  | Y | Y | Y   | 27  |
| 55 | <a href="#">111106101</a> | 54  | NOC:Numerical Analysis  | Y | Y | Y   | 29  |
| 56 | <a href="#">111104100</a> | 43  | NOC:Introduction to R Software  | Y | Y | Y   | 2.9 |
| 57 | <a href="#">111105100</a> | 60  | NOC:Constrained and Unconstrained Optimization  | Y | Y | Y   | 15  |
| 58 | <a href="#">111106102</a> | 39  | NOC:Graph Theory  | Y | Y | Y   | 9.3 |
| 59 | <a href="#">111107107</a> | 20  | NOC:Numerical Methods: Finite Difference Approach   | Y | Y | Y   | 3.2 |
| 60 | <a href="#">111101109</a> | 41  | NOC:Calculus for Economics,Commerce and Management  | Y | Y | Y   | 33  |
| 61 | <a href="#">111107108</a> | 40  | NOC:Multivariable Calculus  | Y | Y | Y   | 11  |
| 62 | <a href="#">111107106</a> | 60  | NOC:Numerical Linear Algebra  | Y | Y | Y   | 15  |
| 63 | <a href="#">111102110</a> | 35  | NOC:Chaotic Dynamical Systems   | Y | Y | Y   | 27  |
| 64 | <a href="#">111102111</a> | 92  | NOC:Introduction to Probability Theory and Stochastic Processes   | Y | Y | Y   | 30  |
| 65 | <a href="#">111102112</a> | 21  | NOC:Statistical Inference   | Y | Y | Y   | 19  |
| 66 | <a href="#">111105111</a> | 60  | NOC:Matrix Solver   | Y | Y | Y   | 16  |
| 67 | <a href="#">111105112</a> | 40  | NOC:Introduction to Abstract and Linear Algebra   | Y | Y | Y   | 8.7 |
| 68 | <a href="#">111106111</a> | 48  | NOC:Transform Techniques for Engineers  | Y | Y | Y.  | 72  |
| 69 | <a href="#">111106112</a> | 21  | NOC:Introduction to Probability and Statistics  | Y | Y | Y   | 9.0 |
| 70 | <a href="#">111106113</a> | 45  | NOC:Introduction to Abstract Group Theory   | Y | Y | Y   | 40  |

|     |                           |    |   |     |   |     |     |
|-----|---------------------------|----|---|-----|---|-----|-----|
| 71  | <a href="#">111106114</a> | 17 | NOC:Groups: Motion, Symmetry and Puzzles                              | Y   | Y | Y   | 24  |
| 72  | <a href="#">111107111</a> | 60 | NOC:Ordinary and Partial Differential Equations and Applications      | Y   | Y | Y   | 11  |
| 73  | <a href="#">111107112</a> | 40 | NOC:Matrix Analysis with Applications                                 | Y   | Y | Y   | 5.4 |
| 74  | <a href="#">111107113</a> | 20 | NOC:Mathematical Modelling: Analysis and Applications                 | Y   | Y | Y   | 4.2 |
| 75  | <a href="#">111101115</a> | 41 | NOC:Basic Linear Algebra  | Y   | Y | Y   | 16  |
| 76  | <a href="#">111101116</a> | 60 | NOC:Commutative Algebra   | Y   | Y | Y   | 34  |
| 77  | <a href="#">111101117</a> | 62 | NOC:Galois Theory   | Y   | Y | Y   | 61  |
| 78  | <a href="#">111104120</a> | 34 | NOC:Descriptive Statistics with R Software                            | Y   | Y | Y   | 12  |
| 79  | <a href="#">111105121</a> | 60 | NOC:Engineering Mathematics-I   | Y   | Y | Y   | 17  |
| 80  | <a href="#">111105122</a> | 60 | NOC:Integral and Vector Calculus                                      | Y   | Y | Y   | 16  |
| 81  | <a href="#">111105123</a> | 60 | NOC:Transform Calculus and its applications in Differential Equations | Y   | Y | Y   | 16  |
| 82  | <a href="#">111107118</a> | 60 | NOC:Dynamical System and Control                                      | Y   | Y | Y   | 8.2 |
| 83  | <a href="#">111107119</a> | 60 | NOC:Advanced Engineering Mathematics                                  | Y   | Y | Y   | 8.8 |
| 84  | <a href="#">111105124</a> | 64 | NOC:Statistical Inference (2019)                                      | Y   | Y | Y   | 17  |
| 85  | <a href="#">111102129</a> | 72 | NOC:Integral Transforms and their Applications                        | Y   | Y | Y   | 88  |
| 86  | <a href="#">111102130</a> | 30 | NOC:Introduction to Fuzzy Set Theory, Arithmetic and Logic            | Y   | Y | Y   | 29  |
| 87  | <a href="#">111102133</a> | 32 | Introduction to Methods of Applied Mathematics                        | Y   | Y | Y   | 24  |
| 88  | <a href="#">111103126</a> | 36 | NOC:Mathematical Finance  | Y   | Y | Y   | 20  |
| 89  | <a href="#">111104125</a> | 37 | NOC:Calculus of Several Real Variables                                | Y   | Y | Y   | 14  |
| 90  | <a href="#">111105132</a> | 20 | NOC:Mathematical Methods for Boundary Value Problems                  | Y   | Y | Y   | 6.6 |
| 91  | <a href="#">111106131</a> | 44 | NOC:Introduction To Rings And Fields                                  | Y   | Y | Y   | 58  |
| 92  | <a href="#">111107127</a> | 56 | NOC:Higher Engineering Mathematics                                    | Y   | Y | Y   | 5.8 |
| 93  | <a href="#">111107128</a> | 40 | NOC:Operations Research   | Y   | Y | Y   | 4.3 |
| 94  | <a href="#">111102134</a> | 30 | NOC:Advanced Probability Theory                                       | Y   | Y | Y   | 41  |
| 95  | <a href="#">111108134</a> | 68 | NOC:An Introduction to Smooth Manifolds                               | Y   | Y | Y   | 5.7 |
| 96  | <a href="#">111101134</a> | 69 | NOC:Basic Real Analysis   | Y   | Y | Y   | 48  |
| 97  | <a href="#">111105134</a> | 60 | NOC:Engineering Mathematics - II                                      | Y   | Y | Y   | 28  |
| 98  | <a href="#">111108136</a> | 60 | NOC:Introduction to Algebraic Geometry and Commutative Algebra        | Y   | Y | Y   | 9.9 |
| 99  | <a href="#">111106135</a> | 48 | NOC:Linear Algebra (Prof. Pranav Haridas)                             | Y   | Y | Y   | 45  |
| 100 | <a href="#">111108135</a> | 62 | NOC:Measure Theory (Prof. E. K. Narayanan)                            | Y   | Y | Y   | 12  |
| 101 | <a href="#">111106134</a> | 67 | NOC:Probabilistic Methods in PDE                                      | Y   | Y | Y   | 36  |
| 102 | <a href="#">111101137</a> | 63 | NOC:A Basic Course in Number Theory                                   | Y   | Y | --- | 19  |
| 103 | <a href="#">111106137</a> | 83 | NOC:Algebra - I   | Y   | Y | Y   | 4.1 |
| 104 | <a href="#">111106141</a> | 48 | NOC:Complex Analysis  | Y   | Y | Y   | 5.9 |
| 105 | <a href="#">111106138</a> | 60 | NOC:Computational Commutative Algebra                                 | Y   | Y | --- | 4.9 |
| 106 | <a href="#">111104138</a> | 27 | NOC:Computational Number Theory and Algebra                           | Y   | Y | --- | 14  |
| 107 | <a href="#">111107137</a> | 60 | NOC:Essential Mathematics for Machine Learning                        | Y   | Y | --- | 4.6 |
| 108 | <a href="#">111106139</a> | 27 | NOC:Laplace Transform   | --- | Y | Y   | 2.5 |

|     |                           |     |   |     |   |     |     |
|-----|---------------------------|-----|---|-----|---|-----|-----|
| 109 | <a href="#">111104137</a> | 66  | NOC:Linear Algebra (Prof. A.K. Lal)   | Y   | Y | --- | 16  |
| 110 | <a href="#">111103137</a> | 36  | NOC:Mathematical Portfolio Theory   | Y   | Y | Y   | 5.8 |
| 111 | <a href="#">111106140</a> | 75  | NOC:Measure Theory (Prof. Indrava Roy)  | Y   | Y | --- | 4.9 |
| 112 | <a href="#">111102143</a> | 10  | NOC:Non-parametric Statistical Inference  | Y   | Y | Y   | 2.5 |
| 113 | <a href="#">111106142</a> | 121 | NOC:Real Analysis - I   | Y   | Y | Y   | 4.5 |
| 114 | <a href="#">111102137</a> | 65  | NOC:Scientific Computing using Matlab   | Y   | Y | Y   | 31  |
| 115 | <a href="#">111101144</a> | 62  | NOC:Introduction to Algebraic Topology - Part I   | Y   | Y | Y   | 7.0 |
| 116 | <a href="#">111104144</a> | 40  | NOC:Basic Calculus 1 and 2  | --- | Y | --- | 3.2 |
| 117 | <a href="#">111104145</a> | 33  | NOC:Advanced Partial Differential Equations   | Y   | Y | Y   | 2.6 |
| 118 | <a href="#">111104146</a> | 69  | NOC:Essentials of Data Science With R Software 1:<br>Probability and Statistical Inference          | Y   | Y | Y   | 6.9 |
| 119 | <a href="#">111104147</a> | 53  | NOC:Essentials of Data Science With R Software 2:<br>Sampling Theory and Linear Regression Analysis | Y   | Y | Y   | 6.0 |
| 120 | <a href="#">111106144</a> | 66  | NOC:Variational Calculus and its applications in<br>Control Theory and Nanomechanics                | Y   | Y | Y   | 5.0 |
| 121 | <a href="#">111106145</a> | 49  | NOC:Introduction to Galois Theory   | Y   | Y | --- | 5.7 |
| 122 | <a href="#">111106146</a> | 72  | NOC:Basic Calculus 1  | Y   | Y | Y   | 3.9 |
| 123 | <a href="#">111106147</a> | 74  | NOC:Functional Analysis   | Y   | Y | Y   | 4.6 |
| 124 | <a href="#">111106148</a> | 90  | NOC:Mathematical Methods in Physics 1   | Y   | Y | Y   | 4.0 |
| 125 | <a href="#">111106149</a> | 70  | NOC:Computational Mathematics with SageMath   | Y   | Y | Y   | 4.9 |
| 126 | <a href="#">111106150</a> | 46  | NOC:Introduction to Probability (with examples using R)   | Y   | Y | --- | 3.8 |
| 127 | <a href="#">111106151</a> | 84  | NOC:Algebra-II  | Y   | Y | --- | 4.3 |
| 128 | <a href="#">111108144</a> | 41  | NOC:First Course on Partial Differential Equations - I  | Y   | Y | --- | 3.5 |
| 129 | <a href="#">111101152</a> | 62  | NOC:Introduction to Algebraic Topology - Part II  | Y   | Y | Y   | 6.5 |
| 130 | <a href="#">111101153</a> | 60  | NOC:Partial Differential Equations  | Y   | Y | --- | 5.2 |
| 131 | <a href="#">111102152</a> | 58  | NOC:Matrix Computation and its Applications   | Y   | Y | Y   | 5.4 |
| 132 | <a href="#">111104152</a> | 40  | NOC:Measure Theoretic Probability 1   | Y   | Y | Y   | 2.4 |
| 133 | <a href="#">111106152</a> | 80  | NOC:Mathematical Methods in Physics 2   | Y   | Y | Y   | 4.6 |
| 134 | <a href="#">111106153</a> | 74  | NOC:Real Analysis - II  | Y   | Y | --- | 2.8 |
| 135 | <a href="#">111106154</a> | 85  | NOC:Sobolev Spaces and Partial Differential Equations   | Y   | Y | Y   | 6.1 |
| 136 | <a href="#">111106155</a> | 58  | NOC:Combinatorics   | Y   | Y | Y   | 4.2 |
| 137 | <a href="#">111106156</a> | 16  | NOC:Our Mathematical Senses   | Y   | Y | Y   | 2.2 |
| 138 | <a href="#">111108152</a> | 41  | NOC:First Course on Partial Differential Equations - II   | Y   | Y | --- | 3.5 |
| 139 | <a href="#">111108157</a> | 80  | Matrix Theory   | Y   | Y | --- | 6.5 |
| 140 | <a href="#">111101158</a> | 61  | NOC:An Introduction to Point-Set-Topology - Part I  | Y   | Y | Y   | 6.0 |
| 141 | <a href="#">111103158</a> | 34  | NOC:Discrete-time Markov Chains and Poission Processes  | Y   | Y | Y   | 3.7 |
| 142 | <a href="#">111103159</a> | 48  | NOC:Introduction to Queueing Theory   | Y   | Y | Y   | 6.8 |
| 143 | <a href="#">111106158</a> | 84  | NOC:Algebraic Combinatorics   | --- | Y | --- | 3.7 |
| 144 | <a href="#">111106159</a> | 73  | NOC:An Invitation to Topology   | --- | Y | --- | 3.7 |

|     |                           |     |   |     |     |     |     |
|-----|---------------------------|-----|---|-----|-----|-----|-----|
| 145 | <a href="#">111101160</a> | 62  | NOC:An Introduction to Point-Set-Topology - Part II                                       | Y   | Y   | --- | 6.5 |
| 146 | <a href="#">111102160</a> | 58  | NOC:Introduction to Probability Theory and Statistics                                     | --- | Y   | Y   | 5.1 |
| 147 | <a href="#">111104160</a> | 54  | NOC:Foundations of R Software   | Y   | Y   | Y   | 5.4 |
| 148 | <a href="#">111104161</a> | 54  | NOC:Foundations of R Software (In Hindi)  | --- | Y   | --- | 9.1 |
| 149 | <a href="#">111105160</a> | 60  | NOC:Advanced Calculus For Engineers   | --- | Y   | --- | 4.7 |
| 150 | <a href="#">111105161</a> | 60  | NOC:Rings and Modules   | --- | Y   | --- | 4.1 |
| 151 | <a href="#">111106160</a> | 51  | NOC:Operator Theory   | --- | Y   | --- | 4.5 |
| 152 | <a href="#">111106161</a> | 79  | NOC:Measure and Integration   | Y   | Y   | Y   | 4.4 |
| 153 | <a href="#">111106162</a> | 58  | NOC:Approximate Reasoning using Fuzzy Set Theory  | Y   | Y   | Y   | 5.4 |
| 154 | <a href="#">111106163</a> | 45  | NOC:Probability-II with Examples Using R  | --- | Y   | --- | 3.1 |
| 155 | <a href="#">111101164</a> | 60  | NOC:Fourier Analysis and its Applications   | Y   | Y   | Y   | 5.1 |
| 156 | <a href="#">111101165</a> | 61  | NOC:Numerical Analysis (2023)   | Y   | Y   | Y   | 4.6 |
| 157 | <a href="#">111104164</a> | 41  | NOC:An Introduction to Hyperbolic Geometry  | --- | Y   | --- | 2.3 |
| 158 | <a href="#">111104165</a> | 42  | NOC:A Primer to Mathematical Optimization   | --- | Y   | --- | 4.6 |
| 159 | <a href="#">111105164</a> | 20  | NOC:Advanced Computational Techniques   | Y   | Y   | Y   | 1.6 |
| 160 | <a href="#">111105165</a> | 60  | NOC:Applied Linear Algebra in AI and ML   | --- | Y   | --- | 3.9 |
| 161 | <a href="#">111105167</a> | 60  | NOC:Advanced Engineering Mathematics  | Y   | Y   | --- | 5.5 |
| 162 | <a href="#">111106164</a> | 64  | NOC:Predictive Analytics - Regression and Classification                                  | Y   | Y   | --- | 4.7 |
| 163 | <a href="#">111107164</a> | 60  | NOC:Advanced Linear Algebra   | --- | Y   | Y   | 3.8 |
| 164 | <a href="#">111108164</a> | 40  | NOC:C* Algebras and Spectral Theorem  | --- | Y   | --- | 6.0 |
| 165 | <a href="#">111101168</a> | 42  | NOC:Point Set Topology  | --- | Y   | Y   | 2.9 |
| 166 | <a href="#">111104168</a> | 44  | NOC:Measure Theoretic Probability 2   | --- | Y   | --- | 4.1 |
| 167 | <a href="#">111105169</a> | 72  | NOC:Essentials of Topology  | --- | Y   | --- | 4.7 |
| 168 | <a href="#">111106168</a> | 75  | NOC:Introduction to Algebraic Geometry  | --- | Y   | --- | 5.2 |
| 169 | <a href="#">111108168</a> | 42  | NOC:Advanced Partial Differential Equations<br>(Part I: Distributions and Sobolev Spaces) | --- | Y   | --- | 4.0 |
| 170 | <a href="#">111104416</a> | 52  | NOC:Set Theory and Mathematical Logic   | --- | Y   | --- | 8.5 |
| 171 | <a href="#">111105417</a> | 63  | NOC:Numerical Linear Algebra and Application  | --- | Y   | --- | 4.9 |
| 172 | <a href="#">111106415</a> | 60  | NOC:Introduction to Statistics  | --- | Y   | --- | 3.5 |
| 173 | <a href="#">111108412</a> | 40  | NOC:Advanced Course on Partial Differential Equations - II                                | --- | Y   | --- | 3.7 |
| 174 | <a href="#">111108413</a> | 58  | NOC:Introduction to Group Theory  | --- | Y   | --- | 7.9 |
| 175 | <a href="#">111108414</a> | 55  | NOC:Introduction to Lie Algebras  | --- | Y   | --- | 3.9 |
| 176 | <a href="#">111102518</a> | --- | NOC:Introduction to Probability Theory and Stochastic Processes (Tamil)                   | --- | --- | --- | --- |
| 177 | <a href="#">111104519</a> | --- | NOC:Introduction to Fourier Analysis  | --- | --- | --- | --- |
| 178 | <a href="#">111104521</a> | --- | NOC:Ordinary Differential Equations   | --- | --- | --- | --- |
| 179 | <a href="#">111104524</a> | --- | NOC:Category Theory   | --- | --- | --- | --- |
| 180 | <a href="#">111105489</a> | --- | NOC:Mathematics for Machine Learning  | --- | --- | --- | --- |
| 181 | <a href="#">111105522</a> | --- | NOC:Advanced Theory of Ordinary Differential Equations                                    | --- | --- | --- | --- |



|   |                           |     |   |     |     |     |     |
|---|---------------------------|-----|---|-----|-----|-----|-----|
| 182   | <a href="#">111106525</a> | --- | NOC:Probability Theory for Data Science                     | --- | --- | --- | --- |
| 183   | <a href="#">111107523</a> | --- | NOC:EXCELing with Mathematical Modeling                     | --- | --- | --- | --- |
| 184   | <a href="#">111108520</a> | --- | NOC:Representation Theory of General Linear Lie Algebra     | --- | --- | --- | --- |
| <b>Discipline : Mechanical Engineering</b>  |                           |     |   |     |     |     |     |
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| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/mechanical-engineering.pdf">http://www.digimat.in/downloads/topics/mechanical-engineering.pdf</a></b> |                           |     |   |     |     |     |     |
| 1   | <a href="#">112101002</a> | 43  | Convective Heat and Mass Transfer                           | Y   | Y   | Y   | 18  |
| 2   | <a href="#">112101004</a> | 42  | Cryogenic Engineering                                       | Y   | Y   | Y   | 34  |
| 3   | <a href="#">112101095</a> | 40  | Advanced Strength of Materials                              | Y   | Y   | Y   | 9.7 |
| 4   | <a href="#">112101097</a> | 35  | Heat and Mass Transfer                                      | Y   | Y   | Y   | 6.7 |
| 5   | <a href="#">112101099</a> | 40  | Robotics  | Y   | Y   | Y   | 11  |
| 6   | <a href="#">112102014</a> | 42  | Tribology   | Y   | Y   | Y   | 18  |
| 7   | <a href="#">112102101</a> | 52  | Computer Aided Design and Manufacturing                     | Y   | Y   | Y   | 8.8 |
| 8   | <a href="#">112102106</a> | 41  | Project and Production Management                           | Y   | Y   | Y   | 11  |
| 9   | <a href="#">112103023</a> | 40  | Nonlinear Vibration   | Y   | Y   | Y   | 20  |
| 10  | <a href="#">112103025</a> | 42  | Theory and Practice of Rotor Dynamics                       | Y   | Y   | Y   | 26  |
| 11  | <a href="#">112103108</a> | 40  | Engineering Mechanics                                       | Y   | Y   | Y   | 9.5 |
| 12  | <a href="#">112103112</a> | 40  | Mechanical Vibrations                                       | Y   | Y   | Y   | 9.3 |
| 13  | <a href="#">112104026</a> | 39  | Acoustics   | Y   | Y   | Y   | 9.4 |
| 14  | <a href="#">112104028</a> | 34  | Advanced Machining Processes                                | Y   | Y   | Y   | 14  |
| 15  | <a href="#">112104029</a> | 40  | Biomicroelectromechanical systems                           | Y   | Y   | Y   | 18  |
| 16  | <a href="#">112104031</a> | 40  | Computer Aided Engineering Design                           | Y   | Y   | Y   | 16  |
| 17  | <a href="#">112104035</a> | 40  | Mathematical Methods in Engineering and Science             | Y   | Y   | Y   | 12  |
| 18  | <a href="#">112104114</a> | 44  | Dynamics of Machines  | Y   | Y   | Y   | 5.9 |
| 19  | <a href="#">112104115</a> | 38  | Finite Element Method                                       | Y   | Y   | Y   | 4.4 |
| 20  | <a href="#">112104121</a> | 39  | Kinematics of Machines                                      | Y   | Y   | Y   | 3.6 |
| 21  | <a href="#">112104162</a> | 38  | Advanced manufacturing process for micro system fabrication | Y   | Y   | Y   | 14  |
| 22  | <a href="#">112104172</a> | 40  | Engineering Drawing   | Y   | Y   | Y   | 15  |
| 23  | <a href="#">112104181</a> | 42  | NOC:BioMEMS and Microsystems                                | Y   | Y   | Y   | 4.6 |
| 24  | <a href="#">112105045</a> | 43  | Computational Fluid Dynamics (Prof. S. Chakraborty)         | Y   | Y   | Y   | 22  |
| 25  | <a href="#">112105048</a> | 40  | Machinery fault diagnosis and signal processing             | Y   | Y   | Y   | 9.4 |
| 26  | <a href="#">112105051</a> | 43  | Solar Energy Technology                                     | Y   | Y   | Y   | 11  |
| 27  | <a href="#">112105053</a> | 40  | Technology of Surface Coating                               | Y   | Y   | Y   | 11  |
| 28  | <a href="#">112105055</a> | 40  | Vibration of Structures                                     | Y   | Y   | Y   | 11  |
| 29  | <a href="#">112105123</a> | 32  | Basic Thermodynamics  | Y   | Y   | Y   | 7.1 |
| 30  | <a href="#">112105124</a> | 40  | Design of Machine Elements I                                | Y   | Y   | Y   | 12  |
| 31  | <a href="#">112105126</a> | 41  | Manufacturing Processes II                                  | Y   | Y   | Y   | 9.1 |
| 32  | <a href="#">112105128</a> | 46  | Refrigeration and Air Conditioning                          | Y   | Y   | Y   | 12  |
| 33  | <a href="#">112105171</a> | 49  | Fluid Mechanics   | Y   | Y   | Y   | 13  |

|    |                           |    |  |   |   |   |     |
|----|---------------------------|----|--|---|---|---|-----|
| 34 | <a href="#">112105182</a> | 40 | Introduction to Fluid Machines and Compressible Flow     | Y | Y | Y | 11  |
| 35 | <a href="#">112105183</a> | 58 | Introduction to Fluid Mechanics and Fluid Engineering    | Y | Y | Y | 17  |
| 36 | <a href="#">112106056</a> | 40 | Advanced Gas Dynamics                                    | Y | Y | Y | 18  |
| 37 | <a href="#">112106064</a> | 40 | Design and Optimization of Energy systems                | Y | Y | Y | 16  |
| 38 | <a href="#">112106065</a> | 41 | Engineering Fracture Mechanics                           | Y | Y | Y | 18  |
| 39 | <a href="#">112106068</a> | 41 | Experimental Stress Analysis                             | Y | Y | Y | 19  |
| 40 | <a href="#">112106073</a> | 41 | Rocket Propulsion  | Y | Y | Y | 18  |
| 41 | <a href="#">112106130</a> | 30 | Advanced Finite Elements Analysis                        | Y | Y | Y | 4.9 |
| 42 | <a href="#">112106131</a> | 39 | Advanced Operations Research                             | Y | Y | Y | 13  |
| 43 | <a href="#">112106134</a> | 22 | Fundamentals of Operations Research                      | Y | Y | Y | 4.6 |
| 44 | <a href="#">112106135</a> | 33 | Introduction to Finite Element Method                    | Y | Y | Y | 7.3 |
| 45 | <a href="#">112106138</a> | 50 | Mechanical Measurements and Metrology                    | Y | Y | Y | 13  |
| 46 | <a href="#">112106140</a> | 26 | Principles of Mechanical Measurements                    | Y | Y | Y | 5.4 |
| 47 | <a href="#">112106154</a> | 41 | Spray Theory and Applications (Repurposed)               | Y | Y | Y | 17  |
| 48 | <a href="#">112106155</a> | 46 | Conduction And Radiation                                 | Y | Y | Y | 19  |
| 49 | <a href="#">112106166</a> | 40 | Gas Dynamics and Propulsion                              | Y | Y | Y | 31  |
| 50 | <a href="#">112106169</a> | 41 | Microfluidics  | Y | Y | Y | 25  |
| 51 | <a href="#">112106170</a> | 44 | Convective Heat Transfer                                 | Y | Y | Y | 27  |
| 52 | <a href="#">112106177</a> | 40 | Introduction to Explosions and Explosion Safety          | Y | Y | Y | 33  |
| 53 | <a href="#">112106180</a> | 35 | NOC:Engineering Mechanics Statics and Dynamics           | Y | Y | Y | 4.0 |
| 54 | <a href="#">112107078</a> | 40 | Advanced Manufacturing Processes                         | Y | Y | Y | 20  |
| 55 | <a href="#">112107079</a> | 43 | Computational Fluid Dynamics (Dr. K.M. Singh)            | Y | Y | Y | 31  |
| 56 | <a href="#">112107086</a> | 40 | Processing of non metals                                 | Y | Y | Y | 31  |
| 57 | <a href="#">112107087</a> | 40 | Vibration control  | Y | Y | Y | 34  |
| 58 | <a href="#">112107089</a> | 40 | Welding Engineering                                      | Y | Y | Y | 31  |
| 59 | <a href="#">112107143</a> | 40 | Industrial Engineering                                   | Y | Y | Y | 8.3 |
| 60 | <a href="#">112107145</a> | 40 | Manufacturing Processes I                                | Y | Y | Y | 8.0 |
| 61 | <a href="#">112107147</a> | 40 | Strength of Materials                                    | Y | Y | Y | 8.0 |
| 62 | <a href="#">112108092</a> | 40 | Micro and Smart Systems                                  | Y | Y | Y | 11  |
| 63 | <a href="#">112105187</a> | 48 | Micro fluidics   | Y | Y | Y | 23  |
| 64 | <a href="#">112106186</a> | 44 | NOC:Foundation of Computational Fluid Dynamics           | Y | Y | Y | 2.4 |
| 65 | <a href="#">112104188</a> | 48 | NOC:Manufacturing Systems Technology                     | Y | Y | Y | 7.5 |
| 66 | <a href="#">112104189</a> | 30 | NOC:Manufacturing Systems Technology - Part II           | Y | Y | Y | 4.5 |
| 67 | <a href="#">112105047</a> | 43 | Fundamentals of Industrial Oil Hydraulics and Pneumatics | Y | Y | Y | 13  |
| 68 | <a href="#">112105192</a> | 41 | NOC:Conduction and Convection Heat Transfer              | Y | Y | Y | 19  |
| 69 | <a href="#">112105197</a> | 35 | NOC:Vibrations of Structures                             | Y | Y | Y | 9.8 |
| 70 | <a href="#">112106190</a> | 40 | NOC:Introduction to Boundary Layers                      | Y | Y | Y | 16  |
| 71 | <a href="#">112104193</a> | 48 | NOC:Basics of Finite Element Analysis                    | Y | Y | Y | 1.7 |

|     |                           |    |  |   |   |    |     |
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| 72  | <a href="#">112106196</a> | 48 | NOC:Fundamentals of Gas Dynamics   | Y | Y | Y  | 21  |
| 73  | <a href="#">112104194</a> | 48 | NOC:Basics of Noise and Its Measurements   | Y | Y | Y  | 2.3 |
| 74  | <a href="#">112104195</a> | 48 | NOC:Manufacturing Process Technology - Part I  | Y | Y | Y  | 2.3 |
| 75  | <a href="#">112106198</a> | 32 | NOC:Experimental Stress Analysis:An Overview   | Y | Y | Y  | 4.0 |
| 76  | <a href="#">112108201</a> | 44 | NOC:Variational Methods in Mechanics   | Y | Y | Y  | 13  |
| 77  | <a href="#">112105206</a> | 39 | NOC:Fluid Machines   | Y | Y | Y  | 9.5 |
| 78  | <a href="#">112104203</a> | 40 | NOC:Nature and Property of Materials   | Y | Y | Y  | 2.9 |
| 79  | <a href="#">112104204</a> | 48 | NOC:Manufacturing Process Technology - II  | Y | Y | Y  | 3.3 |
| 80  | <a href="#">112104205</a> | 48 | NOC:Basics of Finite Element Analysis - II   | Y | Y | Y  | 1.8 |
| 81  | <a href="#">112107209</a> | 40 | NOC:Engineering Economic Analysis  | Y | Y | Y  | 11  |
| 82  | <a href="#">112107208</a> | 40 | NOC:Refrigeration and Air-Conditioning   | Y | Y | Y  | 9.6 |
| 83  | <a href="#">112107207</a> | 20 | NOC:Two Phase Flow and Heat Transfer   | Y | Y | Y  | 3.9 |
| 84  | <a href="#">112106200</a> | 34 | NOC:Fluid Dynamics and Turbomachines   | Y | Y | Y  | 15  |
| 85  | <a href="#">112103202</a> | 19 | NOC:Advanced Machining Processes   | Y | Y | Y  | 6.9 |
| 86  | <a href="#">112105211</a> | 20 | NOC:Computer Numerical Control (CNC) of Machine Tools and Processes  | Y | Y | Y  | 4.5 |
| 87  | <a href="#">112106179</a> | 44 | Metrology  | Y | Y | Y  | 29  |
| 88  | <a href="#">112107083</a> | 40 | Metal Casting  | Y | Y | Y  | 28  |
| 89  | <a href="#">112108212</a> | 40 | NOC:Heat Transfer and Combustion in Multiphase Systems   | Y | Y | Y  | 7.9 |
| 90  | <a href="#">112108211</a> | 72 | NOC:Compliant Mechanisms: Principles and Design  | Y | Y | Y  | 16  |
| 91  | <a href="#">112107212</a> | 40 | NOC:Introduction to Mechanical Vibration   | Y | Y | Y  | 11  |
| 92  | <a href="#">112107216</a> | 40 | NOC:Steam and Gas Power Systems  | Y | Y | Y  | 9.3 |
| 93  | <a href="#">112107215</a> | 40 | NOC:Principles of Casting Technology   | Y | Y | Y  | 11  |
| 94  | <a href="#">112107214</a> | 40 | NOC:Modelling and Simulation of Dynamic Systems  | Y | Y | Y  | 9.4 |
| 95  | <a href="#">112107213</a> | 60 | NOC:Joining Technologies of Metals   | Y | Y | Y  | 7.8 |
| 96  | <a href="#">112105212</a> | 20 | NOC:Non Traditional Abrasive Machining Processes - Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining | Y | Y | Y  | 5.4 |
| 97  | <a href="#">112107217</a> | 20 | NOC:Product Design and Development   | Y | Y | Y  | 5.7 |
| 98  | <a href="#">112107211</a> | 20 | NOC:Convective Heat Transfer   | Y | Y | Y  | 5.7 |
| 99  | <a href="#">112105218</a> | 60 | NOC:Introduction to Fluid Mechanics  | Y | Y | Y* | 17  |
| 100 | <a href="#">112104212</a> | 72 | NOC:Fundamentals of Acoustics  | Y | Y | Y  | 3.1 |
| 101 | <a href="#">112104211</a> | 21 | NOC:Principles of Vibration Control  | Y | Y | Y  | 1.6 |
| 102 | <a href="#">112104219</a> | 40 | NOC:Heat Treatment and Surface Hardening - II  | Y | Y | Y  | 4.4 |
| 103 | <a href="#">112104220</a> | 50 | NOC:Phase Transformation in Materials  | Y | Y | Y  | 3.3 |
| 104 | <a href="#">112107219</a> | 60 | NOC:Fundamentals of Manufacturing Processes  | Y | Y | Y  | 17  |
| 105 | <a href="#">112106222</a> | 42 | NOC:Micro and Nano Scale Energy Transport  | Y | Y | Y  | 34  |
| 106 | <a href="#">112104221</a> | 31 | NOC:Manufacturing of Composites  | Y | Y | Y  | 2.5 |
| 107 | <a href="#">112104222</a> | 54 | NOC:Applied Ergonomics   | Y | Y | Y  | 4.7 |
| 108 | <a href="#">112106223</a> | 40 | NOC:Electron Diffraction and Imaging   | Y | Y | Y  | 31  |
| 109 | <a href="#">112106225</a> | 42 | NOC:Acoustic and Noise Control   | Y | Y | Y  | 21  |

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|-----|---------------------------|----|---|---|---|-----|-----|
| 110 | <a href="#">112104225</a> | 30 | NOC:Sustainability through Green Manufacturing Systems: An Applied Approach | Y | Y | Y   | 4.4 |
| 111 | <a href="#">112107220</a> | 40 | NOC:Modelling and Simulation of Discrete Event System                       | Y | Y | Y   | 11  |
| 112 | <a href="#">112107221</a> | 40 | NOC:Processing of Polymers and Polymer Composites                           | Y | Y | Y   | 11  |
| 113 | <a href="#">112106226</a> | 49 | NOC:Steel Quality: Role of Secondary Refining and Continuous Casting        | Y | Y | Y   | 16  |
| 114 | <a href="#">112106227</a> | 40 | NOC:X-ray Crystallography and Diffraction                                   | Y | Y | Y   | 24  |
| 115 | <a href="#">112104227</a> | 72 | NOC:Noise Management and Control  | Y | Y | Y   | 4.0 |
| 116 | <a href="#">112105219</a> | 20 | NOC:Spur and Helical Gear Cutting   | Y | Y | Y   | 5.7 |
| 117 | <a href="#">112105220</a> | 21 | NOC:Laws of Thermodynamics  | Y | Y | Y   | 6.8 |
| 118 | <a href="#">112105221</a> | 68 | NOC:Energy Conservation and Waste Heat Recovery                             | Y | Y | Y   | 17  |
| 119 | <a href="#">112105233</a> | 21 | NOC:Metal Cutting and Machine Tools   | Y | Y | Y   | 6.4 |
| 120 | <a href="#">112104230</a> | 50 | NOC:Product Design and Manufacturing  | Y | Y | Y   | 24  |
| 121 | <a href="#">112106237</a> | 33 | NOC:Transport Phenomena in Materials  | Y | Y | Y   | 11  |
| 122 | <a href="#">112105234</a> | 45 | NOC:Gear and Gear Unit Design: Theory and Practice                          | Y | Y | Y   | 11  |
| 123 | <a href="#">112105235</a> | 45 | NOC:Traditional and Non-Traditional Optimization Tools                      | Y | Y | Y   | 11  |
| 124 | <a href="#">112104228</a> | 32 | NOC:Design Practice   | Y | Y | Y   | 8.4 |
| 125 | <a href="#">112105236</a> | 40 | NOC:Mechanism and Robot Kinematics  | Y | Y | Y   | 12  |
| 126 | <a href="#">112103244</a> | 23 | NOC:Advances in Welding and Joining Technologies                            | Y | Y | Y   | 12  |
| 127 | <a href="#">112107240</a> | 40 | NOC:Automatic Control   | Y | Y | Y   | 11  |
| 128 | <a href="#">112107241</a> | 40 | NOC:Failure Analysis and Prevention   | Y | Y | Y   | 11  |
| 129 | <a href="#">112107242</a> | 40 | NOC:Mechanical Measurement System   | Y | Y | Y   | 12  |
| 130 | <a href="#">112103245</a> | 27 | NOC:Introduction to Machining and Machining Fluids                          | Y | Y | Y   | 9.9 |
| 131 | <a href="#">112107238</a> | 60 | NOC:Operations Management   | Y | Y | Y   | 4.1 |
| 132 | <a href="#">112104229</a> | 72 | NOC:Introduction To Composites  | Y | Y | Y   | 14  |
| 133 | <a href="#">112108246</a> | 60 | NOC:Convective Heat Transfer (2018)   | Y | Y | Y   | 14  |
| 134 | <a href="#">112103243</a> | 30 | NOC:Fundamentals of Nuclear Power Generation                                | Y | Y | Y   | 6.9 |
| 135 | <a href="#">112105232</a> | 60 | NOC:Machinery Fault Diagnosis and Signal Processing                         | Y | Y | Y   | 15  |
| 136 | <a href="#">112105231</a> | 63 | NOC:Introduction to Mechanical Micro Machining                              | Y | Y | Y   | 16  |
| 137 | <a href="#">112107239</a> | 60 | NOC:Theory of Production Processes  | Y | Y | Y   | 17  |
| 138 | <a href="#">112106247</a> | 37 | NOC:Experimental Stress Analysis: An Overview                               | Y | Y | Y   | 62  |
| 139 | <a href="#">112102248</a> | 15 | NOC:RAC Product Design  | Y | Y | Y   | 9.6 |
| 140 | <a href="#">112103248</a> | 20 | NOC:Mechanics of Machining  | Y | Y | Y   | 6.2 |
| 141 | <a href="#">112103249</a> | 58 | NOC:Principle of Hydraulic Machines and System Design                       | Y | Y | --- | 8.4 |
| 142 | <a href="#">112103250</a> | 25 | NOC:Introduction to Abrasive Machining and Finishing Processes              | Y | Y | Y   | 18  |
| 143 | <a href="#">112103251</a> | 14 | NOC:Theory of Rectangular Plates - Part I                                   | Y | Y | Y   | 3.8 |
| 144 | <a href="#">112104248</a> | 40 | NOC:Phase Equilibria in Materials-Nature and Properties of Materials-II     | Y | Y | Y   | 7.6 |
| 145 | <a href="#">112104249</a> | 72 | NOC:Advanced Composites   | Y | Y | Y   | 8.4 |
| 146 | <a href="#">112104250</a> | 52 | NOC:Engineering Metrology   | Y | Y | Y   | 18  |
| 147 | <a href="#">112104251</a> | 19 | NOC:Smart Materials and Intelligent System Design                           | Y | Y | Y   | 7.7 |

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| 148 | <a href="#">112104252</a> | 37 | NOC:Design Practice-II   | Y   | Y | Y   | 7.0 |
| 149 | <a href="#">112105248</a> | 66 | NOC:Heat Exchangers: Fundamentals and Design Analysis                                | Y   | Y | Y   | 18  |
| 150 | <a href="#">112105249</a> | 45 | NOC:Robotics   | Y   | Y | Y   | 11  |
| 151 | <a href="#">112106248</a> | 50 | NOC:Mechanics of Human Movement  | Y   | Y | Y   | 53  |
| 152 | <a href="#">112106249</a> | 41 | NOC:Design for Quality, Manufacturing and Assembly                                   | Y   | Y | Y   | 35  |
| 153 | <a href="#">112106250</a> | 19 | NOC:Surrogates and Approximations in Engineering Design                              | Y   | Y | Y   | 14  |
| 154 | <a href="#">112107248</a> | 60 | NOC:Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations | Y   | Y | Y   | 8.5 |
| 155 | <a href="#">112107249</a> | 60 | NOC:Work System Design   | Y   | Y | Y   | 19  |
| 156 | <a href="#">112107250</a> | 40 | NOC:Principles of Metal Forming Technology   | Y   | Y | Y   | 7.8 |
| 157 | <a href="#">112102255</a> | 54 | NOC:Thermodynamics   | Y   | Y | Y   | 32  |
| 158 | <a href="#">112103261</a> | 33 | NOC:Principles of Mechanical Measurement   | Y   | Y | Y   | 16  |
| 159 | <a href="#">112103262</a> | 50 | NOC:IC Engines and Gas Turbines  | Y   | Y | Y   | 21  |
| 160 | <a href="#">112103263</a> | 24 | NOC:Fundamental of Welding Science and Technology                                    | Y   | Y | Y   | 13  |
| 161 | <a href="#">112103264</a> | 15 | NOC:Polymer Assisted Abrasive Finishing Processes                                    | Y   | Y | Y   | 11  |
| 162 | <a href="#">112104265</a> | 44 | NOC:Rapid Manufacturing  | Y   | Y | Y   | 27  |
| 163 | <a href="#">112105266</a> | 68 | NOC:Concepts of Thermodynamics   | Y   | Y | Y   | 19  |
| 164 | <a href="#">112105267</a> | 40 | NOC:Electronic Packaging and Manufacturing   | Y   | Y | Y   | 10  |
| 165 | <a href="#">112105268</a> | 40 | NOC:Kinematics of Mechanisms and Machines  | Y   | Y | Y   | 11  |
| 166 | <a href="#">112107256</a> | 40 | NOC:Radiative Heat Transfer  | Y   | Y | Y   | 7.3 |
| 167 | <a href="#">112107257</a> | 40 | NOC:Weldability of Metals  | Y   | Y | Y   | 5.3 |
| 168 | <a href="#">112107258</a> | 40 | NOC:Manufacturing Guidelines for Product Design                                      | Y   | Y | Y   | 13  |
| 169 | <a href="#">112107259</a> | 20 | NOC:Inspection and Quality Control in Manufacturing                                  | Y   | Y | Y   | 4.5 |
| 170 | <a href="#">112107260</a> | 60 | NOC:Financial Mathematics  | Y   | Y | Y   | 9.7 |
| 171 | <a href="#">112105269</a> | 60 | NOC:Introduction to Fluid Mechanics (2019)   | Y   | Y | Y   | 16  |
| 172 | <a href="#">112106270</a> | 37 | Theory of Mechanism  | Y   | Y | --- | 90  |
| 173 | <a href="#">112102284</a> | 32 | NOC:Solid Mechanics  | Y   | Y | Y   | 26  |
| 174 | <a href="#">112103273</a> | 38 | NOC:Mathematical Modeling of Manufacturing Processes                                 | Y   | Y | Y   | 25  |
| 175 | <a href="#">112103274</a> | 8  | NOC:Two-Phase flow with phase change in conventional and miniature channels          | Y   | Y | Y   | 5.0 |
| 176 | <a href="#">112103275</a> | 36 | NOC:Applied Thermodynamics For Engineers   | Y   | Y | Y   | 27  |
| 177 | <a href="#">112103276</a> | 33 | NOC:Fundamentals of Conduction and Radiation   | Y   | Y | Y   | 22  |
| 178 | <a href="#">112103277</a> | 33 | NOC:Steam Power Engineering  | Y   | Y | Y   | 8.5 |
| 179 | <a href="#">112103278</a> | 45 | NOC:Dynamic Behaviour of Materials   | Y   | Y | Y   | 14  |
| 180 | <a href="#">112103279</a> | 36 | NOC:Plastic Working of Metallic Materials  | --- | Y | Y   | 9.9 |
| 181 | <a href="#">112103280</a> | 34 | NOC:Fundamentals of Artificial Intelligence  | Y   | Y | Y   | 17  |
| 182 | <a href="#">112103281</a> | 42 | NOC:Aircraft Propulsion  | Y   | Y | Y   | 12  |
| 183 | <a href="#">112104272</a> | 60 | NOC:Turbulent Combustion: Theory and Modelling                                       | Y   | Y | Y   | 26  |
| 184 | <a href="#">112104288</a> | 20 | NOC:Manufacturing Automation   | Y   | Y | Y   | 8.4 |



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| 185 | <a href="#">112105287</a> | 59 | NOC:Advanced Concepts in Fluid Mechanics                                     | Y   | Y | Y   | 28  |
| 186 | <a href="#">112106286</a> | 37 | NOC:Engineering Mechanics  | Y   | Y | Y   | 127 |
| 187 | <a href="#">112107282</a> | 20 | NOC:Product Design Using Value Engineering                                   | Y   | Y | Y   | 9.1 |
| 188 | <a href="#">112107283</a> | 20 | NOC:Selection of Nanomaterials for Energy Harvesting and Storage Application | Y   | Y | Y   | 4.8 |
| 189 | <a href="#">112108285</a> | 25 | NOC:A Short Lecture Series on Contour Integration in the Complex Plane       | Y   | Y | Y   | 3.5 |
| 190 | <a href="#">112105254</a> | 60 | NOC:Computational Fluid Dynamics   | --- | Y | --- | 5.9 |
| 191 | <a href="#">112105271</a> | 65 | NOC:Conduction and Convection Heat Transfer                                  | Y   | Y | --- | 11  |
| 192 | <a href="#">112106253</a> | 55 | NOC: Steel Quality: Role of Secondary Refining and Continuous Casting        | --- | Y | Y   | 4.9 |
| 193 | <a href="#">112107290</a> | 39 | NOC:Acoustic Metamaterials   | Y   | Y | Y   | 6.8 |
| 194 | <a href="#">112103289</a> | 37 | NOC:Computational Fluid Dynamics for Incompressible Flows                    | Y   | Y | Y   | 22  |
| 195 | <a href="#">112104289</a> | 50 | NOC:Computer Integrated Manufacturing  | Y   | Y | Y   | 40  |
| 196 | <a href="#">112103290</a> | 43 | NOC:Experimental Methods in Fluid Mechanics                                  | Y   | Y | Y   | 14  |
| 197 | <a href="#">112106289</a> | 34 | NOC:Foundations of Computational Materials Modelling                         | Y   | Y | Y   | 29  |
| 198 | <a href="#">112106290</a> | 33 | NOC:Fundamentals of Combustion for Propulsion                                | Y   | Y | Y   | 26  |
| 199 | <a href="#">112108289</a> | 43 | NOC:Introduction to Soft Matter  | Y   | Y | Y   | 5.2 |
| 200 | <a href="#">112104290</a> | 20 | NOC:Machining Science  | Y   | Y | Y   | 9.4 |
| 201 | <a href="#">112107291</a> | 40 | NOC:Power Plant Engineering  | Y   | Y | Y   | 3.9 |
| 202 | <a href="#">112107292</a> | 60 | NOC:Principles of Industrial Engineering                                     | Y   | Y | Y   | 5.8 |
| 203 | <a href="#">112107289</a> | 40 | NOC:Robotics and Control: Theory and Practice                                | Y   | Y | Y   | 3.4 |
| 204 | <a href="#">112103293</a> | 38 | NOC:Automation in Manufacturing  | Y   | Y | Y   | 8.4 |
| 205 | <a href="#">112106293</a> | 66 | NOC:Basics of Materials Engineering  | Y   | Y | Y   | 11  |
| 206 | <a href="#">112103296</a> | 40 | NOC:Computational Continuum Mechanics  | Y   | Y | Y   | 6.6 |
| 207 | <a href="#">112106294</a> | 42 | NOC:Computational Fluid Dynamics using Finite Volume Method                  | Y   | Y | Y   | 7.7 |
| 208 | <a href="#">112105294</a> | 65 | NOC:Engineering Drawing and Computer Graphics                                | Y   | Y | Y   | 17  |
| 209 | <a href="#">112103295</a> | 35 | NOC:Finite Element Method: Variational Methods to Computer Programming       | --- | Y | --- | 5.5 |
| 210 | <a href="#">112104293</a> | 14 | NOC:Foundations of Cognitive Robotics  | Y   | Y | Y   | 7.6 |
| 211 | <a href="#">112103294</a> | 31 | NOC:Fundamentals of Compressible Flow  | Y   | Y | Y*  | 4.5 |
| 212 | <a href="#">112103297</a> | 43 | NOC:Fundamentals of Convective Heat Transfer                                 | Y   | Y | Y   | 8.8 |
| 213 | <a href="#">112105293</a> | 40 | NOC:High Performance Computing for Scientists and Engineers                  | Y   | Y | Y   | 24  |
| 214 | <a href="#">112101298</a> | 67 | NOC:Optimization from Fundamentals   | Y   | Y | --- | 5.4 |
| 215 | <a href="#">112102298</a> | 29 | NOC:Introduction to Uncertainty Analysis and Experimentation                 | Y   | Y | --- | 5.0 |
| 216 | <a href="#">112103298</a> | 28 | NOC:Theory of Composite Shells   | Y   | Y | Y   | 3.1 |
| 217 | <a href="#">112103299</a> | 40 | NOC:Finite Element Modeling of Welding Processes                             | Y   | Y | --- | 7.6 |
| 218 | <a href="#">112103300</a> | 36 | NOC:Nonlinear Vibration  | Y   | Y | --- | 4.7 |
| 219 | <a href="#">112103301</a> | 26 | NOC:Evolutionary Computation for Single and Multi Objective Optimization     | Y   | Y | Y   | 4.7 |
| 220 | <a href="#">112103302</a> | 44 | NOC:Viscous Fluid Flow   | Y   | Y | --- | 5.3 |

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| 221 | <a href="#">112104298</a> | 28 | NOC:Introduction to Robotics   | --- | Y | --- | 2.9 |
| 222 | <a href="#">112104299</a> | 47 | NOC:Muffler Acoustics - Application to Automotive Exhaust Noise Control      | Y   | Y | Y   | 5.9 |
| 223 | <a href="#">112104300</a> | 35 | NOC:Elements of Solar Energy Conversion                                      | Y   | Y | Y   | 9.5 |
| 224 | <a href="#">112104301</a> | 20 | NOC:Manufacturing Processes - Casting and Joining                            | Y   | Y | Y   | 3.2 |
| 225 | <a href="#">112104302</a> | 26 | NOC:Computational Fluid Dynamics and Heat Transfer                           | --- | Y | --- | 3.7 |
| 226 | <a href="#">112105299</a> | 43 | NOC:Tools in Scientific Computing  | --- | Y | --- | 6.7 |
| 227 | <a href="#">112106298</a> | 46 | NOC:Wheeled Mobile Robots  | Y   | Y | Y   | 3.7 |
| 228 | <a href="#">112106299</a> | 61 | NOC:Fundamentals of Combustion   | Y   | Y | Y   | 11  |
| 229 | <a href="#">112106300</a> | 96 | NOC:Oil Hydraulics and Pneumatics  | Y   | Y | --- | 7.9 |
| 230 | <a href="#">112107298</a> | 40 | NOC:Mechatronics   | Y   | Y | Y   | 5.9 |
| 231 | <a href="#">112108298</a> | 42 | NOC:Robotics: Basics and Selected Advanced Concepts                          | Y   | Y | Y   | 3.7 |
| 232 | <a href="#">112106303</a> | 21 | Introduction to Turbomachines  | --- | Y | --- | 0.7 |
| 233 | <a href="#">112101304</a> | 48 | NOC:Design of Mechatronic Systems  | Y   | Y | Y   | 4.6 |
| 234 | <a href="#">112102304</a> | 50 | NOC:Engineering Graphics and Design  | Y   | Y | Y   | 5.5 |
| 235 | <a href="#">112103305</a> | 27 | NOC:Welding Application Technology   | --- | Y | --- | 4.2 |
| 236 | <a href="#">112103306</a> | 33 | NOC:Fundamentals of Additive Manufacturing Technologies                      | --- | Y | --- | 6.0 |
| 237 | <a href="#">112103307</a> | 44 | NOC:Applied Thermodynamics   | Y   | Y | Y   | 6.1 |
| 238 | <a href="#">112104304</a> | 33 | NOC:Production Technology: Theory and Practice                               | Y   | Y | Y   | 13  |
| 239 | <a href="#">112104305</a> | 50 | NOC:Introduction to Turbomachinery   | --- | Y | --- | 3.8 |
| 240 | <a href="#">112105304</a> | 60 | NOC:Advanced Dynamics  | Y   | Y | Y   | 4.6 |
| 241 | <a href="#">112105305</a> | 44 | NOC:Biomechanics of Joints and Orthopaedic Implants                          | Y   | Y | Y   | 4.5 |
| 242 | <a href="#">112105306</a> | 60 | NOC:Elements of Metal Cutting, Machine tools, Gear Cutting and CNC Machining | Y   | Y | Y   | 4.1 |
| 243 | <a href="#">112106304</a> | 45 | NOC:Mechanics and Control of Robotic Manipulators                            | Y   | Y | Y   | 4.3 |
| 244 | <a href="#">112103308</a> | 32 | NOC:Mechanics of Fiber Reinforced Polymer Composite Structures               | Y   | Y | --- | 4.1 |
| 245 | <a href="#">112104308</a> | 20 | NOC:Robot Motion Planning  | Y   | Y | Y   | 2.2 |
| 246 | <a href="#">112105308</a> | 60 | NOC:Finite Element Method  | --- | Y | --- | 6.7 |
| 247 | <a href="#">112108308</a> | 60 | NOC:Sound and Structural Vibration   | Y   | Y | Y   | 3.9 |
| 248 | <a href="#">112106309</a> | 37 | Inverse Methods in Heat Transfer   | --- | Y | --- | 11  |
| 249 | <a href="#">112106310</a> | 38 | Engineering Thermodynamics (2022)  | --- | Y | --- | 3.8 |
| 250 | <a href="#">112106311</a> | 9  | Applied Mechanics - Fluid Mechanics Laboratory                               | --- | Y | --- | 0.7 |
| 251 | <a href="#">112101312</a> | 71 | NOC:Nonlinear Adaptive Control   | --- | Y | Y   | 9.3 |
| 252 | <a href="#">112103312</a> | 26 | NOC:Laser Based Manufacturing  | --- | Y | --- | 3.0 |
| 253 | <a href="#">112103313</a> | 32 | NOC:Advanced Thermodynamics and Combustion                                   | Y   | Y | Y   | 4.3 |
| 254 | <a href="#">112104312</a> | 47 | NOC:Metal Additive Manufacturing   | Y   | Y | Y   | 5.8 |
| 255 | <a href="#">112104313</a> | 39 | NOC:Conduction and Convection: Fundamentals and Applications                 | --- | Y | --- | 4.2 |
| 256 | <a href="#">112106312</a> | 53 | NOC:Interfacial Fluid Mechanics  | --- | Y | --- | 3.8 |
| 257 | <a href="#">112106314</a> | 45 | Applied Thermodynamics   | --- | Y | --- | 5.3 |
| 258 | <a href="#">112108312</a> | 60 | NOC:Vibrations of Plates and Shells  | --- | Y | --- | 4.5 |

|     |                           |     |   |     |     |     |     |
|-----|---------------------------|-----|---|-----|-----|-----|-----|
| 259 | <a href="#">112108313</a> | 32  | NOC:Dynamics and Control of Mechanical Systems                                      | Y   | Y   | Y   | 3.5 |
| 260 | <a href="#">112102316</a> | 15  | NOC:Ideal Fluid Flows using Complex Analysis  | Y   | Y   | Y   | 1.3 |
| 261 | <a href="#">112103316</a> | 66  | NOC:Thermal Engineering: Basic and Applied  | --- | Y   | --- | 12  |
| 262 | <a href="#">112104316</a> | 30  | NOC:Advanced Robotics   | --- | Y   | --- | 3.2 |
| 263 | <a href="#">112105316</a> | 40  | NOC:Product Engineering and Design Thinking   | Y   | Y   | Y   | 4.7 |
| 264 | <a href="#">112106316</a> | 67  | NOC:Inverse Methods in Heat Transfer  | Y   | Y   | --- | 4.7 |
| 265 | <a href="#">112108316</a> | 43  | NOC:Optical Methods for Solid and Fluid Mechanics                                   | Y   | Y   | --- | 3.8 |
| 266 | <a href="#">112108317</a> | 59  | NOC:Statistical Thermodynamics for Engineers  | Y   | Y   | Y   | 3.6 |
| 267 | <a href="#">112102318</a> | 40  | NOC:Experimental Modal Analysis   | --- | Y   | --- | 5.6 |
| 268 | <a href="#">112102319</a> | 53  | NOC:Mechanical Behavior of Polymers and Composites                                  | --- | Y   | --- | 5.0 |
| 269 | <a href="#">112104318</a> | 127 | NOC:Applied Numerical Methods   | --- | Y   | --- | 4.0 |
| 270 | <a href="#">112104319</a> | 52  | NOC:Social Innovation in Industry 4.0   | Y   | Y   | Y   | 6.2 |
| 271 | <a href="#">112105318</a> | 68  | NOC:Microfluidics and Nanofluidics  | --- | Y   | --- | 19  |
| 272 | <a href="#">112105319</a> | 50  | NOC:Industrial Robotics: Theories for Implementation                                | Y   | Y   | Y   | 6.3 |
| 273 | <a href="#">112106318</a> | 89  | NOC:Sustainable Energy Technology   | --- | Y   | --- | 8.0 |
| 274 | <a href="#">112106319</a> | 39  | NOC:Strength of Materials - IITM  | Y   | Y   | Y   | 9.9 |
| 275 | <a href="#">112106320</a> | 70  | NOC:Engineering Thermodynamics  | --- | Y   | --- | 7.9 |
| 276 | <a href="#">112106321</a> | 61  | NOC:Theory of Fire Propagation (Fire Dynamics)                                      | Y   | Y   | Y   | 8.5 |
| 277 | <a href="#">112101429</a> | 73  | NOC:Nonlinear Control Design  | --- | Y   | --- | 6.0 |
| 278 | <a href="#">112102428</a> | 36  | NOC:Data-Enabled Tribological Engineering:<br>From Experiments to Predictive Models | --- | Y   | --- | 12  |
| 279 | <a href="#">112103420</a> | 21  | NOC:Mechanics of Sheet Metal Forming  | Y   | Y   | Y   | 3.2 |
| 280 | <a href="#">112103421</a> | 34  | NOC:Power Plant System Engineering  | --- | Y   | Y   | 4.6 |
| 281 | <a href="#">112103427</a> | 23  | NOC:Introduction to Solidification Processing                                       | --- | Y   | --- | 3.4 |
| 282 | <a href="#">112104418</a> | 55  | NOC:Engineering Thermodynamics in Hindi   | Y   | Y   | Y   | 4.7 |
| 283 | <a href="#">112104425</a> | 33  | NOC:Advanced Machining Processes (2024)   | Y   | Y   | Y   | 5.5 |
| 284 | <a href="#">112105422</a> | 40  | NOC:Cryogenic Hydrogen Technology   | --- | Y   | --- | 3.1 |
| 285 | <a href="#">112105423</a> | 60  | NOC:Industrial Hydraulics and Automation  | --- | Y   | --- | 5.5 |
| 286 | <a href="#">112106419</a> | 72  | NOC:Applied Thermodynamics (2024)   | --- | Y   | --- | 8.2 |
| 287 | <a href="#">112106424</a> | 34  | NOC:Design of Mechanical Transmission Systems                                       | Y   | Y   | Y   | 5.4 |
| 288 | <a href="#">112106315</a> | 41  | Heat Transfer (Dr. C. Balaji)   | --- | Y   | --- | 6.4 |
| 289 | <a href="#">112104197</a> | 96  | Manufacturing Systems Technology - I and II   | --- | --- | --- | 15  |
| 290 | <a href="#">112106322</a> | 5   | Data-Driven Models for Unsteady Fluid Flow  | --- | --- | --- | 1.1 |
| 291 | <a href="#">112103528</a> | --- | NOC:Materials Processing (Casting, Forming and Welding)                             | --- | --- | --- | --- |
| 292 | <a href="#">112104526</a> | --- | NOC:Basics of Mechanical Engineering - 1  | --- | --- | --- | --- |
| 293 | <a href="#">112106453</a> | --- | NOC:Turbulence Modeling   | --- | --- | --- | --- |
| 294 | <a href="#">112107539</a> | --- | NOC:Mechanics   | --- | --- | --- | --- |
| 295 | <a href="#">112108527</a> | --- | NOC:Fundamentals of Acoustics (2024)  | --- | --- | --- | --- |

**Discipline : Metallurgy and Material Science**[Go to Top](#)Video Lecture Topics @ <http://www.digimat.in/downloads/topics/metallurgy-and-material-science.pdf>

|    |                           |     |   |   |   |    |     |
|----|---------------------------|-----|---|---|---|----|-----|
| 1  | <a href="#">113104006</a> | 41  | Electroceramics   | Y | Y | Y  | 18  |
| 2  | <a href="#">113104008</a> | 40  | Fuels Refractory and Furnaces   | Y | Y | Y  | 7.5 |
| 3  | <a href="#">113104009</a> | 39  | Introduction to Biomaterials  | Y | Y | Y  | 15  |
| 4  | <a href="#">113104010</a> | 40  | Materials and Energy balance in Metallurgical Processes                                 | Y | Y | Y  | 14  |
| 5  | <a href="#">113104012</a> | 40  | Optoelectronic Materials and Devices  | Y | Y | Y  | 12  |
| 6  | <a href="#">113104013</a> | 42  | Steel Making  | Y | Y | Y  | 16  |
| 7  | <a href="#">113104014</a> | 45  | Structure of Materials  | Y | Y | Y  | 20  |
| 8  | <a href="#">113104061</a> | 41  | Environmental Degradation of Materials  | Y | Y | Y  | 18  |
| 9  | <a href="#">113105015</a> | 47  | Advanced ceramics for strategic applications  | Y | Y | Y  | 14  |
| 10 | <a href="#">113105021</a> | 43  | Non-ferrous Extractive Metallurgy   | Y | Y | Y  | 20  |
| 11 | <a href="#">113105024</a> | 42  | Principles of Physical Metallurgy   | Y | Y | Y  | 20  |
| 12 | <a href="#">113105025</a> | 40  | Processing of Semiconducting Materials  | Y | Y | Y  | 11  |
| 13 | <a href="#">113105028</a> | 40  | Science and Technology of Polymers  | Y | Y | Y  | 11  |
| 14 | <a href="#">113105057</a> | 26  | Advanced Materials and Processes  | Y | Y | Y  | 5.3 |
| 15 | <a href="#">113106031</a> | 31  | Advanced Metallurgical Thermodynamics   | Y | Y | Y  | 13  |
| 16 | <a href="#">113106039</a> | 40  | Physics of Materials  | Y | Y | Y  | 15  |
| 17 | <a href="#">113106062</a> | 40  | Electronic Materials, Devices and Fabrication   | Y | Y | Y  | 26  |
| 18 | <a href="#">113106065</a> | 27  | NOC:Fundamentals of Electronic Materials and Devices                                    | Y | Y | Y  | 12  |
| 19 | <a href="#">113106066</a> | 11  | NOC:Introduction to Reciprocal Space and its use in Solids                              | Y | Y | Y  | 5.1 |
| 20 | <a href="#">113106067</a> | 20  | NOC:Analysis and Modeling of Welding  | Y | Y | Y  | 7.8 |
| 21 | <a href="#">113106064</a> | 22  | NOC:Fundamentals of optical and scanning electron microscopy                            | Y | Y | Y  | 12  |
| 22 | <a href="#">113104068</a> | 61  | NOC:Phase Diagrams in Materials Science and Engineering                                 | Y | Y | Y  | 3.6 |
| 23 | <a href="#">113104004</a> | 33  | Advanced Characterization Techniques  | Y | Y | Y  | 22  |
| 24 | <a href="#">113106034</a> | 54  | Materials Characterization  | Y | Y | Y  | 30  |
| 25 | <a href="#">113108071</a> | 40  | NOC:Biomaterials for Bone Tissue Engineering Applications                               | Y | Y | Y  | 9.7 |
| 26 | <a href="#">113104073</a> | 40  | NOC:Fundamentals of Material Processing - I   | Y | Y | Y* | 3.2 |
| 27 | <a href="#">113104074</a> | 40  | NOC:Heat Treatment and Surface Hardening - I  | Y | Y | Y  | 3.1 |
| 28 | <a href="#">113101072</a> | 87  | NOC:Phase Field Modelling: The Materials Science, Mathematics and Computational Aspects | Y | Y | Y  | 18  |
| 29 | <a href="#">113103072</a> | 17  | NOC:Introduction to Crystal Elasticity and Crystal Plasticity                           | Y | Y | Y  | 8.2 |
| 30 | <a href="#">113106070</a> | 40  | NOC:Theory and Practice of Non Destructive Testing                                      | Y | Y | Y  | 15  |
| 31 | <a href="#">113107075</a> | 40  | NOC:Surface Engineering of Nanomaterials  | Y | Y | Y  | 11  |
| 32 | <a href="#">113106075</a> | 35  | NOC:Defects in Materials  | Y | Y | Y  | 27  |
| 33 | <a href="#">113104075</a> | 41  | NOC:Fundamentals of Material Processing - Part 2  | Y | Y | Y  | 4.1 |
| 34 | <a href="#">113108079</a> | 39  | NOC:Iron Making   | Y | Y | Y  | 11  |
| 35 | <a href="#">113102080</a> | 147 | NOC:Introduction to Materials Science and Engineering                                   | Y | Y | Y  | 36  |

|    |                           |    |   |     |   |     |     |
|----|---------------------------|----|---|-----|---|-----|-----|
| 36 | <a href="#">113107078</a> | 40 | NOC:Material Science and Engineering  | Y   | Y | Y   | 9.2 |
| 37 | <a href="#">113105077</a> | 47 | NOC:Principles of Polymer Synthesis   | Y   | Y | Y   | 14  |
| 38 | <a href="#">113104076</a> | 40 | NOC:Nature and Properties Of Materials - An Introductory Course               | Y   | Y | Y   | 10  |
| 39 | <a href="#">113104081</a> | 40 | NOC:Defects in Crystalline Solids - Part I                                    | Y   | Y | Y   | 16  |
| 40 | <a href="#">113104082</a> | 41 | NOC:Corrosion - Part I  | Y   | Y | Y   | 5.9 |
| 41 | <a href="#">113105081</a> | 60 | NOC:Advanced Materials and Processes  | Y   | Y | Y   | 17  |
| 42 | <a href="#">113106081</a> | 19 | NOC:Elementary Stereology for Quantitative Metallography                      | Y   | Y | Y   | 24  |
| 43 | <a href="#">113106082</a> | 20 | NOC:Welding of Advanced High Strength Steels for Automotive Applications      | Y   | Y | Y   | 18  |
| 44 | <a href="#">113107081</a> | 20 | NOC:Structural Analysis of Nanomaterials                                      | Y   | Y | Y   | 5.6 |
| 45 | <a href="#">113104084</a> | 41 | NOC:Solar Photovoltaics: Principles, Technologies and Material                | Y   | Y | Y   | 16  |
| 46 | <a href="#">113104085</a> | 17 | NOC:Defects in Crystalline Solids - Part II                                   | Y   | Y | Y   | 9.2 |
| 47 | <a href="#">113105086</a> | 60 | NOC:Surface Engineering for Corrosion and Wear Resistance Application         | Y   | Y | Y   | 17  |
| 48 | <a href="#">113106087</a> | 59 | NOC:Welding Processes   | Y   | Y | Y   | 66  |
| 49 | <a href="#">113106088</a> | 24 | NOC:Creep Deformation of Materials  | Y   | Y | Y   | 27  |
| 50 | <a href="#">113108083</a> | 40 | NOC:Friction and Wear of Materials: Principles and Case Studies               | Y   | Y | Y   | 6.7 |
| 51 | <a href="#">113104089</a> | 41 | NOC:Corrosion - Part II   | Y   | Y | Y   | 11  |
| 52 | <a href="#">113104090</a> | 40 | NOC:Fundamentals and Applications of Dielectric Ceramics                      | Y   | Y | Y   | 13  |
| 53 | <a href="#">113106093</a> | 25 | NOC:Nanotechnology, Science and Applications                                  | Y   | Y | Y   | 54  |
| 54 | <a href="#">113107091</a> | 40 | NOC:Thermo-Mechanical and Thermo-Chemical Processes                           | Y   | Y | Y   | 7.5 |
| 55 | <a href="#">113107092</a> | 60 | NOC:Welding Metallurgy  | Y   | Y | Y   | 8.3 |
| 56 | <a href="#">113101096</a> | 99 | NOC:Dealing with Materials Data:Collection, Analysis and Interpretation       | Y   | Y | Y   | 46  |
| 57 | <a href="#">113104097</a> | 51 | NOC:Diffusion in Multicomponent Solids (2020.S1)                              | Y   | Y | Y   | 30  |
| 58 | <a href="#">113107096</a> | 40 | NOC:Modeling of Tundish Steelmaking Process in Continuous Casting             | Y   | Y | Y   | 5.2 |
| 59 | <a href="#">113104096</a> | 40 | NOC:Properties of Materials (Nature and Properties of Materials-III)          | Y   | Y | Y   | 9.7 |
| 60 | <a href="#">113106069</a> | 27 | NOC:Fundamentals of X-ray Diffraction and Transmission<br>Electron Microscopy | Y   | Y | Y   | 9.2 |
| 61 | <a href="#">113101098</a> | 34 | NOC:Aqueous Corrosion and its Control   | Y   | Y | Y   | 27  |
| 62 | <a href="#">113105098</a> | 60 | NOC:Ironmaking and Steelmaking  | Y   | Y | Y   | 33  |
| 63 | <a href="#">113106098</a> | 60 | NOC:Powder Metallurgy   | Y   | Y | Y   | 4.7 |
| 64 | <a href="#">113101099</a> | 14 | NOC:Cathodic Protection Engineering   | Y   | Y | Y   | 2.3 |
| 65 | <a href="#">113105099</a> | 60 | NOC:Non-Metallic Materials  | Y   | Y | Y   | 6.0 |
| 66 | <a href="#">113105100</a> | 43 | NOC:Scanning Electron/Ion/Probe Microscopy in Materials Characterization      | --- | Y | --- | 4.9 |
| 67 | <a href="#">113106099</a> | 59 | NOC:Carbon Materials and Manufacturing  | Y   | Y | Y   | 6.1 |
| 68 | <a href="#">113104101</a> | 42 | NOC:Corrosion Failures and Analysis   | Y   | Y | --- | 4.2 |
| 69 | <a href="#">113104102</a> | 29 | NOC:Nanomaterials and their Properties  | Y   | Y | Y   | 2.8 |
| 70 | <a href="#">113105101</a> | 60 | NOC:Techniques of Material Characterization                                   | Y   | Y | Y   | 9.0 |
| 71 | <a href="#">113105102</a> | 60 | NOC:Electrochemical Energy Storage  | Y   | Y | Y   | 6.3 |
| 72 | <a href="#">113105103</a> | 56 | NOC:Texture in Materials  | Y   | Y | Y   | 9.9 |
| 73 | <a href="#">113106101</a> | 64 | NOC:Mechanical Behavior of Materials  | Y   | Y | Y   | 4.2 |



|    |                           |     |  |     |     |     |     |
|----|---------------------------|-----|--|-----|-----|-----|-----|
| 74 | <a href="#">113104104</a> | 45  | NOC:Mechanical Behaviour of Materials - Part I                               | --- | Y   | Y   | 3.4 |
| 75 | <a href="#">113105104</a> | 60  | NOC:Bulk Material Transport and Handling Systems                             | Y   | Y   | --- | 11  |
| 76 | <a href="#">113104105</a> | 27  | NOC:Mechanical Behaviour of Materials - Part II                              | --- | Y   | Y   | 2.4 |
| 77 | <a href="#">113104106</a> | 39  | NOC:Electronic Properties of the Materials: Computational Approach           | --- | Y   | --- | 2.4 |
| 78 | <a href="#">113105105</a> | 60  | NOC:Environmental Degradation and Surface Engineering                        | --- | Y   | --- | 9.0 |
| 79 | <a href="#">113105106</a> | 60  | NOC:Fracture, Fatigue and Failure of Materials                               | Y   | Y   | --- | 5.8 |
| 80 | <a href="#">113105107</a> | 60  | NOC:Mine Closure and Sustainability Planning                                 | --- | Y   | --- | 11  |
| 81 | <a href="#">113106105</a> | 60  | NOC:Aluminium based Alloys and Metal Matrix Composites                       | --- | Y   | --- | 3.1 |
| 82 | <a href="#">113106106</a> | 26  | NOC:Welding Science and Technology (In Tamil)                                | --- | Y   | --- | 2.9 |
| 83 | <a href="#">113102108</a> | 93  | NOC:Crystals, Symmetry and Tensors   | Y   | Y   | --- | 5.6 |
| 84 | <a href="#">113104108</a> | 41  | NOC:Corrosion Protection Methods   | --- | Y   | --- | 4.6 |
| 85 | <a href="#">113102109</a> | 35  | NOC:Corrosion/Environmental Degradation/Surface Engineering                  | --- | Y   | --- | 9.6 |
| 86 | <a href="#">113105109</a> | 60  | NOC:Fundamentals of Composite and Cellular Materials                         | --- | Y   | --- | 5.9 |
| 87 | <a href="#">113106109</a> | 38  | NOC:Thermodynamics and Kinetics of Materials                                 | --- | Y   | --- | 7.8 |
| 88 | <a href="#">113105441</a> | 60  | NOC:Principles of Extractive Metallurgy                                      | --- | Y   | --- | 9.7 |
| 89 | <a href="#">113104516</a> | --- | NOC:Phase Diagrams in Single Component and Binary Systems in Bengali         | --- | --- | --- | --- |
| 90 | <a href="#">113104517</a> | --- | NOC:Artificial Intelligence and Machine Learning in Materials Engineering    | --- | --- | --- | --- |
| 91 | <a href="#">113104529</a> | --- | NOC:Metallurgical and Electronic Waste Recycling                             | --- | --- | --- | --- |
| 92 | <a href="#">113108515</a> | --- | NOC:Materials Design for Electronic, Electromechanical and Optical Functions | --- | --- | --- | --- |

**Discipline : Ocean Engineering**

[Go to Top](#)

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|    |                           |    |  |   |   |   |     |
|----|---------------------------|----|--|---|---|---|-----|
| 1  | <a href="#">114105002</a> | 49 | Elements of Ocean Engineering  | Y | Y | Y | 12  |
| 2  | <a href="#">114105003</a> | 40 | Hydrostatics and Stability   | Y | Y | Y | 19  |
| 3  | <a href="#">114105004</a> | 41 | Marine Construction and Welding  | Y | Y | Y | 8.6 |
| 4  | <a href="#">114105005</a> | 40 | Marine Hydrodynamics   | Y | Y | Y | 12  |
| 5  | <a href="#">114105006</a> | 40 | Seakeeping and Manoeuvring   | Y | Y | Y | 8.6 |
| 6  | <a href="#">114105029</a> | 27 | Applied Thermodynamics for Marine Systems  | Y | Y | Y | 5.6 |
| 7  | <a href="#">114105030</a> | 40 | Performance of Marine Vehicles at Sea  | Y | Y | Y | 11  |
| 8  | <a href="#">114105031</a> | 36 | Strength and Vibration of Marine Structures                                      | Y | Y | Y | 5.2 |
| 9  | <a href="#">114106011</a> | 42 | Design of Offshore Structures  | Y | Y | Y | 16  |
| 10 | <a href="#">114106015</a> | 33 | Foundation for Offshore Structures   | Y | Y | Y | 11  |
| 11 | <a href="#">114106017</a> | 35 | Health,Safety and Environmental Management in Petroleum and Offshore Engineering | Y | Y | Y | 8.0 |
| 12 | <a href="#">114106025</a> | 48 | Port and Harbour Structures  | Y | Y | Y | 30  |
| 13 | <a href="#">114106026</a> | 17 | Ship Resistance and Propulsion   | Y | Y | Y | 6.6 |
| 14 | <a href="#">114106032</a> | 37 | Coastal Engineering  | Y | Y | Y | 14  |

|   |                           |     |   |     |     |     |     |
|---|---------------------------|-----|---|-----|-----|-----|-----|
| 15  | <a href="#">114106033</a> | 25  | Wave Hydrodynamics  | Y   | Y   | Y   | 9.8 |
| 16  | <a href="#">114106035</a> | 38  | Ocean Structures and Materials  | Y   | Y   | Y   | 12  |
| 17  | <a href="#">114106036</a> | 49  | Dynamics of Ocean Structures  | Y   | Y   | Y   | 20  |
| 18  | <a href="#">114106037</a> | 53  | Advanced Marine Structures  | Y   | Y   | Y   | 21  |
| 19  | <a href="#">114106038</a> | 47  | NOC:Dynamics of Ocean Structures  | Y   | Y   | Y   | 23  |
| 20  | <a href="#">114106039</a> | 37  | NOC:Health, Safety and Environmental Management in Offshore and Petroleum Engineering | Y   | Y   | Y   | 8.1 |
| 21  | <a href="#">114106042</a> | 55  | NOC:HSE for offshore and petroleum engineers  | Y   | Y   | Y   | 24  |
| 22  | <a href="#">114106041</a> | 58  | NOC:Risk and Reliability of offshore structures                                       | Y   | Y   | Y   | 25  |
| 23  | <a href="#">114106043</a> | 53  | NOC:Offshore Structures Under Special Loads Including Fire Resistance                 | Y   | Y   | Y   | 33  |
| 24  | <a href="#">114106045</a> | 118 | NOC:Computer Methods Of Structural Analysis of Offshore Structures                    | Y   | Y   | Y   | 103 |
| 25  | <a href="#">114105044</a> | 65  | NOC:Water Economics and Governance  | Y   | Y   | Y   | 16  |
| 26  | <a href="#">114106046</a> | 84  | NOC:Structural Health Monitoring  | Y   | Y   | Y   | 67  |
| 27  | <a href="#">114105047</a> | 40  | NOC:Marine Propulsion   | Y   | Y   | Y   | 3.2 |
| 28  | <a href="#">114105048</a> | 60  | NOC:Numerical Ship and Offshore Hydrodynamics   | Y   | Y   | Y   | 4.7 |
| 29  | <a href="#">114106047</a> | 64  | NOC:Advanced Design of Steel Structures   | Y   | Y   | Y   | 7.3 |
| 30  | <a href="#">114106443</a> | 73  | NOC:Surface Facilities for Oil and Gas Handling                                       | --- | Y   | --- | 6.9 |
| 31  | <a href="#">114106049</a> | 7   | Marine Instrumentation - Laboratory   | --- | Y   | --- | 1.3 |
| 32  | <a href="#">114106534</a> | --- | NOC:Marine Engineering  | --- | --- | --- | --- |
| <b>Discipline : Physics</b><br><a href="#">Go to Top</a>  |                           |     |   |     |     |     |     |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/physics.pdf">http://www.digimat.in/downloads/topics/physics.pdf</a></b> |                           |     |   |     |     |     |     |
| 1   | <a href="#">115101005</a> | 40  | Electromagnetic Theory (Prof. D.K. Ghosh)   | Y   | Y   | Y   | 29  |
| 2   | <a href="#">115101011</a> | 24  | Special Theory of Relativity  | Y   | Y   | Y   | 22  |
| 3   | <a href="#">115102014</a> | 42  | Electronics   | Y   | Y   | Y   | 19  |
| 4   | <a href="#">115102020</a> | 42  | Fundamentals and Applications   | Y   | Y   | Y   | 19  |
| 5   | <a href="#">115102022</a> | 42  | Quantum Electronics   | Y   | Y   | Y   | 17  |
| 6   | <a href="#">115102023</a> | 42  | Quantum Mechanics and Applications  | Y   | Y   | Y   | 19  |
| 7   | <a href="#">115102026</a> | 46  | Semiconductor Optoelectronics   | Y   | Y   | Y   | 32  |
| 8   | <a href="#">115104043</a> | 43  | Nuclear Physics: Fundamentals and Applications  | Y   | Y   | Y   | 12  |
| 9   | <a href="#">115104088</a> | 78  | NOC:Introduction to Electromagnetism  | Y   | Y   | Y   | 2.1 |
| 10  | <a href="#">115105046</a> | 40  | Astrophysics and Cosmology  | Y   | Y   | Y   | 9.7 |
| 11  | <a href="#">115106057</a> | 40  | Special / Select Topics in Atomic Physics   | Y   | Y   | Y   | 16  |
| 12  | <a href="#">115106058</a> | 39  | Classical Field Theory  | Y   | Y   | Y   | 17  |
| 13  | <a href="#">115106059</a> | 29  | Topics in Nonlinear Dynamics  | Y   | Y   | Y   | 15  |
| 14  | <a href="#">115106061</a> | 58  | Condensed Matter Physics  | Y   | Y   | Y   | 18  |
| 15  | <a href="#">115106065</a> | 38  | Quantum Field Theory  | Y   | Y   | Y   | 27  |
| 16  | <a href="#">115106066</a> | 41  | Quantum Mechanics I   | Y   | Y   | Y   | 20  |
| 17  | <a href="#">115106068</a> | 40  | Special / Select Topics in Classical Mechanics  | Y   | Y   | Y   | 13  |

|    |                           |     |  |   |   |    |     |
|----|---------------------------|-----|--|---|---|----|-----|
| 18 | <a href="#">115106085</a> | 46  | Special / Select Topics in the Theory of Atomic Collisions and Spectroscopy  | Y | Y | Y  | 14  |
| 19 | <a href="#">115106086</a> | 36  | Selected Topics in Mathematical Physics                                      | Y | Y | Y  | 24  |
| 20 | <a href="#">115106090</a> | 43  | NOC: Mechanics, heat oscillations and waves                                  | Y | Y | Y  | 12  |
| 21 | <a href="#">115108074</a> | 45  | Relativistic Quantum Mechanics   | Y | Y | Y  | 26  |
| 22 | <a href="#">115106087</a> | 30  | Nuclear Reactors and Safety- An Introduction                                 | Y | Y | Y  | 16  |
| 23 | <a href="#">115106089</a> | 29  | Physical Applications of Stochastic Processes                                | Y | Y | Y  | 27  |
| 24 | <a href="#">115106091</a> | 36  | Nonequilibrium Statistical Mechanics   | Y | Y | Y  | 32  |
| 25 | <a href="#">115104094</a> | 100 | NOC:Engineering Mechanics  | Y | Y | Y  | 3.8 |
| 26 | <a href="#">115101092</a> | 46  | NOC:Quantum Information and Computing  | Y | Y | Y  | 19  |
| 27 | <a href="#">115107095</a> | 40  | NOC:Fiber Optics   | Y | Y | Y  | 11  |
| 28 | <a href="#">115104095</a> | 23  | NOC:Computational Science and Engineering Using Python                       | Y | Y | Y  | 2.2 |
| 29 | <a href="#">115104096</a> | 55  | NOC:Introductory Quantum Mechanics   | Y | Y | Y  | 2.3 |
| 30 | <a href="#">115105097</a> | 60  | NOC:Mathematical Methods in Physics - I                                      | Y | Y | Y  | 17  |
| 31 | <a href="#">115105098</a> | 60  | NOC:Classical Mechanics: from Newtonian to Lagrangian Formulation            | Y | Y | Y  | 16  |
| 32 | <a href="#">115105099</a> | 75  | NOC:Solid State Physics  | Y | Y | Y  | 25  |
| 33 | <a href="#">115103102</a> | 25  | NOC:Advanced Condensed Matter Physics  | Y | Y | Y  | 2.6 |
| 34 | <a href="#">115105100</a> | 60  | NOC:Atomic and Molecular Physics   | Y | Y | Y  | 18  |
| 35 | <a href="#">115103101</a> | 44  | NOC:Nuclear and Particle Physics   | Y | Y | Y  | 8.7 |
| 36 | <a href="#">115102103</a> | 45  | Semiconductor Optoelectronics (Repurposed)                                   | Y | Y | Y  | 36  |
| 37 | <a href="#">115101104</a> | 48  | NOC:Theory of Groups for Physics Applications                                | Y | Y | Y  | 39  |
| 38 | <a href="#">115103104</a> | 33  | NOC:Advanced Quantum Mechanics with Applications                             | Y | Y | Y  | 7.1 |
| 39 | <a href="#">115105104</a> | 59  | NOC:Modern Optics  | Y | Y | Y  | 15  |
| 40 | <a href="#">115105105</a> | 60  | NOC:Introduction to Non-linear Optics and its Applications                   | Y | Y | Y  | 16  |
| 41 | <a href="#">115105106</a> | 86  | NOC:Upstream LNG Technology  | Y | Y | Y  | 16  |
| 42 | <a href="#">115108104</a> | 50  | NOC:Control System Design  | Y | Y | Y  | 14  |
| 43 | <a href="#">115101107</a> | 71  | NOC:Quantum Mechanics-I  | Y | Y | Y  | 41  |
| 44 | <a href="#">115103108</a> | 17  | NOC:A Brief Course on Superconductivity                                      | Y | Y | Y  | 5.9 |
| 45 | <a href="#">115104109</a> | 87  | NOC:Introduction to Solid State Physics                                      | Y | Y | Y* | 17  |
| 46 | <a href="#">115105110</a> | 60  | NOC:Experimental Physics-I   | Y | Y | Y  | 31  |
| 47 | <a href="#">115106111</a> | 35  | NOC:Statistical Mechanics  | Y | Y | Y* | 106 |
| 48 | <a href="#">115101117</a> | 32  | NOC:Path Integral and Functional Methods in Quantum Field Theory             | Y | Y | Y  | 37  |
| 49 | <a href="#">115103113</a> | 32  | NOC:Introduction to Statistical Mechanics                                    | Y | Y | Y  | 14  |
| 50 | <a href="#">115103114</a> | 24  | NOC:Numerical Methods and Simulation Techniques for Scientists and Engineers | Y | Y | Y  | 19  |
| 51 | <a href="#">115103115</a> | 27  | NOC:Theoretical Mechanics  | Y | Y | Y  | 4.3 |
| 52 | <a href="#">115104112</a> | 44  | NOC:Physics of Turbulence  | Y | Y | Y  | 20  |
| 53 | <a href="#">115105120</a> | 61  | NOC:Experimental Physics - II  | Y | Y | Y  | 31  |
| 54 | <a href="#">115106118</a> | 58  | NOC:Computational Physics  | Y | Y | Y  | 42  |

|    |                           |    |   |     |   |     |     |
|----|---------------------------|----|---|-----|---|-----|-----|
| 55 | <a href="#">115106119</a> | 58 | NOC:Waves and Oscillations  | Y   | Y | Y   | 33  |
| 56 | <a href="#">115107116</a> | 40 | NOC:Solar Photovoltaics Fundamentals, Technology and Applications           | Y   | Y | Y   | 6.1 |
| 57 | <a href="#">115106122</a> | 83 | NOC:Electromagnetism  | Y   | Y | Y   | 16  |
| 58 | <a href="#">115105122</a> | 60 | NOC:Electronic Theory of Solids   | Y   | Y | Y   | 12  |
| 59 | <a href="#">115105121</a> | 62 | NOC:Experimental Physics - III  | Y   | Y | Y   | 27  |
| 60 | <a href="#">115101122</a> | 59 | NOC:Group Theory Methods in Physics   | Y   | Y | Y   | 50  |
| 61 | <a href="#">115107121</a> | 60 | NOC:Introduction to Atmospheric and Space Sciences                          | Y   | Y | Y   | 6.9 |
| 62 | <a href="#">115107122</a> | 20 | NOC:Optical Sensors   | Y   | Y | Y   | 3.0 |
| 63 | <a href="#">115101121</a> | 62 | NOC:Physics of Biological Systems   | Y   | Y | Y   | 40  |
| 64 | <a href="#">115106121</a> | 50 | NOC:Physics through Computational Thinking                                  | Y   | Y | Y   | 26  |
| 65 | <a href="#">115106123</a> | 67 | NOC:Introduction to Classical Mechanics                                     | Y   | Y | Y   | 20  |
| 66 | <a href="#">115103123</a> | 34 | NOC:Solar Energy Engineering and Technology                                 | Y   | Y | Y   | 5.1 |
| 67 | <a href="#">115102124</a> | 38 | NOC:Introduction to LASER   | Y   | Y | --- | 5.6 |
| 68 | <a href="#">115104124</a> | 57 | NOC:Introduction to Astrophysical Fluids                                    | Y   | Y | Y   | 6.7 |
| 69 | <a href="#">115105124</a> | 60 | NOC:Physics of Linear and Nonlinear Optical Waveguides                      | Y   | Y | --- | 5.3 |
| 70 | <a href="#">115106124</a> | 64 | NOC:Fluid Dynamics for Astrophysics   | Y   | Y | --- | 5.5 |
| 71 | <a href="#">115106125</a> | 33 | NOC:Quantum Transport   | --- | Y | --- | 3.6 |
| 72 | <a href="#">115106126</a> | 65 | NOC:Statistical Mechanics (2021)  | Y   | Y | --- | 4.5 |
| 73 | <a href="#">115105127</a> | 51 | NOC:Physics of Renewable Energy Systems                                     | Y   | Y | Y   | 7.2 |
| 74 | <a href="#">115106127</a> | 70 | NOC:Solid State Physics   | Y   | Y | Y*  | 3.2 |
| 75 | <a href="#">115106128</a> | 51 | NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields)          | Y   | Y | Y   | 3.1 |
| 76 | <a href="#">115108127</a> | 60 | NOC:Bonds and Bands in Solids   | --- | Y | --- | 5.0 |
| 77 | <a href="#">115103129</a> | 44 | NOC:Quantum Technology and Quantum Phenomena in Macroscopic Systems         | Y   | Y | Y   | 3.9 |
| 78 | <a href="#">115105129</a> | 60 | NOC:Thermal Physics   | --- | Y | --- | 7.6 |
| 79 | <a href="#">115107129</a> | 60 | NOC:Advanced Atmospheric Physics  | --- | Y | --- | 5.4 |
| 80 | <a href="#">115107130</a> | 40 | NOC:Nuclear Astrophysics  | Y   | Y | Y   | 5.5 |
| 81 | <a href="#">115108129</a> | 60 | NOC:Advanced NMR Techniques in Solution and Solid-State                     | Y   | Y | Y   | 11  |
| 82 | <a href="#">115101131</a> | 69 | NOC:Neutron Scattering for Condensed Matter Studies                         | --- | Y | --- | 4.6 |
| 83 | <a href="#">115101132</a> | 72 | NOC:Accelerator Physics   | --- | Y | --- | 5.7 |
| 84 | <a href="#">115103131</a> | 48 | NOC:Dynamics of Classical and Quantum Fields                                | --- | Y | --- | 5.1 |
| 85 | <a href="#">115105131</a> | 40 | NOC:Concepts in Magnetism and Superconductivity                             | --- | Y | --- | 3.4 |
| 86 | <a href="#">115105132</a> | 73 | NOC:Foundations of Classical Electrodynamics                                | Y   | Y | Y   | 5.4 |
| 87 | <a href="#">115107131</a> | 60 | NOC:Applied Optics  | Y   | Y | Y   | 5.7 |
| 88 | <a href="#">115106133</a> | 39 | NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields) - Part 2 | Y   | Y | --- | 2.7 |
| 89 | <a href="#">115103134</a> | 22 | NOC:Quantum Hall Effects  | --- | Y | --- | 3.0 |
| 90 | <a href="#">115104134</a> | 53 | NOC:Introduction to Electromagnetic Theory (Hindi)                          | --- | Y | --- | 3.8 |
| 91 | <a href="#">115104135</a> | 71 | NOC:Scientific Computing Using Python                                       | --- | Y | Y   | 1.8 |

|     |                           |     |  |     |     |     |     |
|-----|---------------------------|-----|--|-----|-----|-----|-----|
| 92  | <a href="#">115105134</a> | 50  | NOC:Physics of Functional Materials and Devices  | --- | Y   | --- | 5.9 |
| 93  | <a href="#">115106134</a> | 34  | NOC:Radio Astronomy  | --- | Y   | --- | 5.3 |
| 94  | <a href="#">115107134</a> | 44  | NOC:Newtonian Mechanics With Examples  | Y   | Y   | Y   | 4.9 |
| 95  | <a href="#">115103444</a> | 17  | NOC:Quantum Entanglement: Fundamentals, Measures and Applications                                | Y   | Y   | Y   | 1.5 |
| 96  | <a href="#">115103445</a> | 28  | NOC:Topology and Condensed Matter Physics  | Y   | Y   | Y   | 3.6 |
| 97  | <a href="#">115104446</a> | 73  | NOC:Tapestry of Field theory: Classical and Quantum, Equilibrium and Nonequilibrium Perspectives | --- | Y   | --- | 3.1 |
| 98  | <a href="#">115104448</a> | 27  | NOC:Coherence and Quantum Entanglement   | --- | Y   | --- | 1.6 |
| 99  | <a href="#">115107447</a> | 62  | NOC:Plasma Physics and Applications  | --- | Y   | --- | 4.7 |
| 100 | <a href="#">115105451</a> | 77  | NOC:Fundamentals of Attosecond Science and Technology (FAST)                                     | --- | Y   | --- | 7.6 |
| 101 | <a href="#">115103538</a> | --- | NOC:Statistical Physics of Non-Interacting and Interacting Systems                               | --- | --- | --- | --- |
| 102 | <a href="#">115104535</a> | --- | NOC:Classical Motion of a Single Particle  | --- | --- | --- | --- |
| 103 | <a href="#">115105537</a> | --- | NOC:Wave Optics  | --- | --- | --- | --- |
| 104 | <a href="#">115106536</a> | --- | NOC:Foundations of Quantum Theory: Non-Relativistic Approach                                     | --- | --- | --- | --- |

**Discipline : Textile Engineering**

[Go to Top](#)

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|    |                           |    |   |     |   |     |     |
|----|---------------------------|----|---|-----|---|-----|-----|
| 1  | <a href="#">116102034</a> | 20 | Theory of Yarn Structures                                     | Y   | Y | Y   | 15  |
| 2  | <a href="#">116104044</a> | 40 | Natural Dyes  | Y   | Y | Y   | 12  |
| 3  | <a href="#">116102047</a> | 40 | NOC:Science of Clothing Comfort                               | Y   | Y | Y   | 28  |
| 4  | <a href="#">116102048</a> | 35 | NOC:Yarn Manufacture-I: Principle of Carding and Drawing      | Y*  | Y | Y*  | 8.2 |
| 5  | <a href="#">116102049</a> | 40 | NOC:Evaluations of Textile Materials                          | Y   | Y | Y   | 31  |
| 6  | <a href="#">116102050</a> | 24 | NOC:Testing of Functional and Technical Textiles              | Y   | Y | Y   | 19  |
| 7  | <a href="#">116102051</a> | 24 | NOC:Theory of Yarn Structure                                  | Y   | Y | Y   | 20  |
| 8  | <a href="#">116102052</a> | 21 | NOC:Advanced Textile Printing Technology                      | Y   | Y | Y   | 16  |
| 9  | <a href="#">116102053</a> | 34 | NOC:Textured Yarn Technology                                  | Y   | Y | Y   | 24  |
| 10 | <a href="#">116102054</a> | 32 | NOC:Textile Finishing   | Y   | Y | Y   | 27  |
| 11 | <a href="#">116102055</a> | 30 | NOC:Principles of Combing, Roving preparation & Ring spinning | --- | Y | Y   | 21  |
| 12 | <a href="#">116102056</a> | 50 | NOC:Science and Technology of Weft and Warp Knitting          | Y   | Y | Y   | 26  |
| 13 | <a href="#">116102057</a> | 40 | NOC:Technical Textiles  | Y   | Y | Y   | 37  |
| 14 | <a href="#">116102058</a> | 29 | NOC:Textile Product Design and Development                    | --- | Y | --- | 5.6 |
| 15 | <a href="#">116102059</a> | 29 | NOC:New Spinning Technologies                                 | Y   | Y | Y   | 4.9 |

**Discipline : Electronics and Communication Engineering**

[Go to Top](#)

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|   |                           |    |   |   |   |   |     |
|---|---------------------------|----|---|---|---|---|-----|
| 1 | <a href="#">117101001</a> | 50 | Adv. Digital Signal Processing - Multirate and wavelets | Y | Y | Y | 28  |
| 2 | <a href="#">117101002</a> | 41 | Advanced Optical Communication                          | Y | Y | Y | 24  |
| 3 | <a href="#">117101050</a> | 32 | Broadband Networks: Concepts and Technology             | Y | Y | Y | 7.7 |
| 4 | <a href="#">117101051</a> | 32 | Digital Communication                                   | Y | Y | Y | 8.4 |

|    |                           |     |   |     |   |     |     |
|----|---------------------------|-----|---|-----|---|-----|-----|
| 5  | <a href="#">117101053</a> | 41  | Information Theory and Coding                     | Y   | Y | Y   | 19  |
| 6  | <a href="#">117101056</a> | 60  | Transmission Lines and EM Waves                   | Y   | Y | Y   | 14  |
| 7  | <a href="#">117102012</a> | 40  | RF Integrated Circuits                            | Y   | Y | Y   | 18  |
| 8  | <a href="#">117102059</a> | 41  | Communication Engineering                         | Y   | Y | Y   | 11  |
| 9  | <a href="#">117102060</a> | 43  | Digital Signal Processing                         | Y   | Y | Y   | 11  |
| 10 | <a href="#">117102062</a> | 38  | Wireless Communication                            | Y   | Y | Y   | 7.7 |
| 11 | <a href="#">117103063</a> | 40  | Basic Electronics                                 | Y   | Y | Y   | 9.7 |
| 12 | <a href="#">117104074</a> | 45  | Signals and Systems                               | Y   | Y | Y   | 8.4 |
| 13 | <a href="#">117104099</a> | 40  | Advanced 3G and 4G Wireless Mobile Communications | Y   | Y | Y   | 17  |
| 14 | <a href="#">117104104</a> | 37  | Digital Switching                                 | Y   | Y | Y   | 16  |
| 15 | <a href="#">117105075</a> | 41  | Adaptive Signal Processing                        | Y   | Y | Y   | 8.5 |
| 16 | <a href="#">117105078</a> | 28  | Digital Computer Organization                     | Y   | Y | Y   | 4.9 |
| 17 | <a href="#">117105079</a> | 40  | Digital Image Processing                          | Y   | Y | Y   | 8.5 |
| 18 | <a href="#">117105080</a> | 40  | Digital Systems Design                            | Y   | Y | Y   | 8.8 |
| 19 | <a href="#">117105081</a> | 40  | Digital Voice and Picture Communication           | Y   | Y | Y   | 8.2 |
| 20 | <a href="#">117105082</a> | 32  | MEMS and Microsystems                             | Y   | Y | Y   | 9.2 |
| 21 | <a href="#">117105084</a> | 37  | Neural Networks and Applications                  | Y   | Y | Y   | 8.0 |
| 22 | <a href="#">117105085</a> | 40  | Probability and Random Processes                  | Y   | Y | Y   | 12  |
| 23 | <a href="#">117105101</a> | 40  | Pattern Recognition and Application               | Y   | Y | Y   | 12  |
| 24 | <a href="#">117106030</a> | 60  | Analog IC Design                                  | Y   | Y | Y   | 26  |
| 25 | <a href="#">117106031</a> | 38  | Coding Theory                                     | Y   | Y | Y   | 19  |
| 26 | <a href="#">117106033</a> | 57  | Semiconductor Device Modeling                     | Y   | Y | Y   | 39  |
| 27 | <a href="#">117106034</a> | 60  | VLSI Data Conversion Circuits                     | Y   | Y | Y   | 27  |
| 28 | <a href="#">117106086</a> | 40  | Digital Circuits and Systems                      | Y   | Y | Y   | 9.3 |
| 29 | <a href="#">117106087</a> | 38  | Electronics for Analog Signal Processing - I      | Y   | Y | Y   | 9.6 |
| 30 | <a href="#">117106088</a> | 39  | Electronics for Analog Signal Processing - II     | Y   | Y | Y   | 9.2 |
| 31 | <a href="#">117106089</a> | 41  | High Speed Devices and Circuits                   | Y   | Y | Y   | 11  |
| 32 | <a href="#">117106091</a> | 42  | Solid State Devices                               | Y   | Y | Y   | 11  |
| 33 | <a href="#">117106092</a> | 55  | VLSI Circuits                                     | Y   | Y | Y   | 14  |
| 34 | <a href="#">117106093</a> | 40  | VLSI Technology                                   | Y   | Y | Y   | 7.1 |
| 35 | <a href="#">117106101</a> | 21  | Basic Electrical Circuits                         | Y   | Y | --- | 9.9 |
| 36 | <a href="#">117106108</a> | 150 | NOC:Basic Electrical Circuits                     | Y   | Y | Y   | 3.9 |
| 37 | <a href="#">117106114</a> | 53  | NOC:Digital Circuits and Systems                  | Y   | Y | Y   | 18  |
| 38 | <a href="#">117108038</a> | 40  | Circuits for Analog System Design                 | Y   | Y | Y   | 19  |
| 39 | <a href="#">117108040</a> | 44  | Digital System design with PLDs and FPGAs         | Y   | Y | Y   | 20  |
| 40 | <a href="#">117108044</a> | 42  | Error Correcting Codes                            | Y   | Y | Y   | 20  |
| 41 | <a href="#">117108048</a> | 42  | Pattern Recognition                               | Y   | Y | Y   | 12  |
| 42 | <a href="#">117106111</a> | 37  | ARM Based Development                             | --- | Y | Y   | 0.5 |



|    |                           |     |  |     |   |     |     |
|----|---------------------------|-----|--|-----|---|-----|-----|
| 43 | <a href="#">117106112</a> | 44  | Embedded Software Testing  | Y   | Y | Y   | 0.6 |
| 44 | <a href="#">117106109</a> | 34  | Advanced Logic Synthesis   | --- | Y | --- | 0.6 |
| 45 | <a href="#">117106113</a> | 43  | Linux Programming and Scripting  | Y   | Y | Y   | 0.4 |
| 46 | <a href="#">117104115</a> | 50  | NOC:Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications                                  | Y   | Y | Y   | 8.0 |
| 47 | <a href="#">117106116</a> | 78  | NOC:Networks and Systems   | Y   | Y | Y   | 4.5 |
| 48 | <a href="#">117104117</a> | 23  | NOC:Probability and Random Variables, Processes for Wireless Communications                        | Y   | Y | Y   | 4.1 |
| 49 | <a href="#">117108107</a> | 39  | Analog Circuits and Systems 1  | Y   | Y | Y   | 18  |
| 50 | <a href="#">117101106</a> | 25  | Analog Circuits  | Y   | Y | Y   | 25  |
| 51 | <a href="#">117101004</a> | 42  | Advanced VLSI Design   | Y   | Y | Y   | 44  |
| 52 | <a href="#">117101105</a> | 29  | CMOS Analog VLSI Design  | Y   | Y | Y   | 26  |
| 53 | <a href="#">117101119</a> | 34  | NOC: Microwave Integrated Circuits   | Y   | Y | Y   | 15  |
| 54 | <a href="#">117104118</a> | 39  | NOC: Estimation for Wireless Communications / MIMO / OFDM Cellular and Sensor Networks             | Y   | Y | Y   | 2.0 |
| 55 | <a href="#">117105122</a> | 20  | NOC: Basic Tools of Microwave Engineering  | Y   | Y | Y   | 4.9 |
| 56 | <a href="#">117108124</a> | 24  | NOC: Design and Simulation of DC-DC converters using Open Source Tools                             | Y   | Y | Y   | 2.8 |
| 57 | <a href="#">117101123</a> | 31  | NOC: Foundations of Wavelets and Multirate Digital Signal Processing                               | Y   | Y | Y   | 8.1 |
| 58 | <a href="#">117104121</a> | 18  | NOC: Error Control Coding: An Introduction to Linear Block code                                    | Y   | Y | Y   | 1.2 |
| 59 | <a href="#">117104120</a> | 17  | NOC: Error Control Coding: An Introduction to Convolutional Codes                                  | Y   | Y | Y   | 1.3 |
| 60 | <a href="#">117105135</a> | 59  | NOC: Digital Image Processing  | Y   | Y | Y   | 15  |
| 61 | <a href="#">117105133</a> | 24  | NOC: Audio System Engineering  | Y   | Y | Y   | 7.4 |
| 62 | <a href="#">117105132</a> | 40  | NOC: Fundamentals of MIMO Wireless Communication   | Y   | Y | Y   | 11  |
| 63 | <a href="#">117105131</a> | 40  | NOC: Satellite Communication Systems   | Y   | Y | Y   | 8.9 |
| 64 | <a href="#">117104128</a> | 35  | NOC: Digital Switching-I   | Y   | Y | Y   | 3.3 |
| 65 | <a href="#">117104126</a> | 35  | NOC: Bayesian/MMSE Estimation for Wireless Communications MIMO / OFDM Cellular and Sensor Networks | Y   | Y | Y   | 1.6 |
| 66 | <a href="#">117105130</a> | 20  | NOC: Basic Building Blocks of Microwave Engineering  | Y   | Y | Y   | 5.2 |
| 67 | <a href="#">117105134</a> | 40  | NOC: Discrete Time Signal Processing   | Y   | Y | Y   | 11  |
| 68 | <a href="#">117104129</a> | 24  | NOC: An Introduction to Information Theory   | Y   | Y | Y   | 2.6 |
| 69 | <a href="#">117104127</a> | 54  | NOC: Optical Communications  | Y   | Y | Y   | 2.9 |
| 70 | <a href="#">117103125</a> | 54  | NOC: VLSI Design Verification and Test   | Y   | Y | Y   | 16  |
| 71 | <a href="#">117108047</a> | 41  | Nanoelectronics: Devices and Materials   | Y   | Y | Y   | 14  |
| 72 | <a href="#">117105139</a> | 40  | NOC: Millimeter Wave Technology  | Y   | Y | Y   | 11  |
| 73 | <a href="#">117105138</a> | 20  | NOC: Design Principles of RF and Microwave Filters and Amplifiers                                  | Y   | Y | Y   | 5.5 |
| 74 | <a href="#">117105137</a> | 60  | NOC: Digital VLSI Testing  | Y   | Y | Y   | 14  |
| 75 | <a href="#">117105136</a> | 69  | NOC: Spread Spectrum Communications and Jamming  | Y   | Y | Y   | 16  |
| 76 | <a href="#">117108140</a> | 61  | NOC: Enclosure Design of Electronics Equipment   | Y   | Y | Y   | 12  |
| 77 | <a href="#">117108141</a> | 118 | NOC: Design of Photovoltaic Systems  | Y   | Y | Y   | 11  |

|     |                           |     |  |     |     |     |     |
|-----|---------------------------|-----|--|-----|-----|-----|-----|
| 78  | <a href="#">117108142</a> | 14  | NOC:Photonic Integrated Circuits                                 | Y   | Y   | Y   | 4.7 |
| 79  | <a href="#">117105140</a> | 60  | NOC:Power System Analysis  | Y   | Y   | Y   | 16  |
| 80  | <a href="#">117105143</a> | 60  | NOC:Analog Communication   | Y   | Y   | Y   | 16  |
| 81  | <a href="#">117105144</a> | 60  | NOC:Modern Digital Communication Techniques                      | Y   | Y   | Y   | 16  |
| 82  | <a href="#">117105145</a> | 44  | NOC:Digital Speech Processing                                    | Y   | Y   | Y   | 12  |
| 83  | <a href="#">117105147</a> | 58  | NOC:Analog Circuits and Systems through SPICE Simulation         | Y   | Y   | Y   | 21  |
| 84  | <a href="#">108107107</a> | 20  | NOC:Basics of Software Defined Radios and Practical Applications | Y   | Y   | Y   | 4.3 |
| 85  | <a href="#">108106105</a> | 57  | NOC:Analog IC Design   | Y   | Y   | Y   | 42  |
| 86  | <a href="#">117103148</a> | 70  | NOC:Design of Power Electronic Converters                        | Y   | Y   | Y   | 4.0 |
| 87  | <a href="#">117103149</a> | 35  | NOC:Operation and Planning of Power Distribution Systems         | Y   | Y   | Y   | 6.3 |
| 88  | <a href="#">117105148</a> | 58  | NOC:Communication Networks                                       | --- | Y   | --- | 5.1 |
| 89  | <a href="#">117105149</a> | 60  | NOC:Signal Processing Techniques and its Applications            | --- | Y   | --- | 6.0 |
| 90  | <a href="#">117106148</a> | 63  | NOC:Circuit Analysis for Analog Designers                        | --- | Y   | Y   | 5.3 |
| 91  | <a href="#">117106149</a> | 94  | NOC:Design and Analysis of VLSI Subsystems                       | Y   | Y   | Y   | 5.8 |
| 92  | <a href="#">117107148</a> | 40  | NOC:Digital Protection of Power System                           | Y   | Y   | Y   | 4.6 |
| 93  | <a href="#">117107149</a> | 60  | NOC:Physics of Nanoscale Devices                                 | --- | Y   | Y   | 5.3 |
| 94  | <a href="#">117108148</a> | 53  | NOC:Neural Science for Engineers                                 | Y   | Y   | Y   | 7.7 |
| 95  | <a href="#">117103150</a> | 36  | NOC:Nanophotonics, Plasmonics, and Metamaterials                 | --- | Y   | --- | 5.0 |
| 96  | <a href="#">117103488</a> | --- | NOC:Power Electronics Applications in Power Systems              | --- | --- | --- | --- |
| 97  | <a href="#">117104484</a> | --- | NOC:5G Wireless Standard Design                                  | --- | --- | --- | --- |
| 98  | <a href="#">117106483</a> | --- | NOC:Nonlinear Dynamical Systems and Control                      | --- | --- | --- | --- |
| 99  | <a href="#">117107485</a> | --- | NOC:Low Voltage CMOS Circuit Operation                           | --- | --- | --- | --- |
| 100 | <a href="#">117108486</a> | --- | NOC:Analog Circuits and Systems                                  | --- | --- | --- | --- |

### Discipline : Nanotechnology

[Go to Top](#)

Video Lecture Topics @ <http://www.digimat.in/downloads/topics/nanotechnology.pdf>

|   |                           |    |   |   |   |   |    |
|---|---------------------------|----|---|---|---|---|----|
| 1 | <a href="#">118102003</a> | 40 | Nano structured materials-synthesis, properties, self assembly and applications | Y | Y | Y | 34 |
| 2 | <a href="#">118104008</a> | 45 | Nanostructures and Nanomaterials: Characterization and Properties               | Y | Y | Y | 20 |

### Discipline : Atmospheric Science

[Go to Top](#)

Video Lecture Topics @ <http://www.digimat.in/downloads/topics/atmospheric-science.pdf>

|   |                           |    |                                     |   |   |   |    |
|---|---------------------------|----|-------------------------------------|---|---|---|----|
| 1 | <a href="#">119106008</a> | 41 | Introduction to Atmospheric Science | Y | Y | Y | 29 |
| 2 | <a href="#">119108004</a> | 38 | Radiation Heat Transfer             | Y | Y | Y | 11 |
| 3 | <a href="#">119108006</a> | 42 | The monsoon and its variability     | Y | Y | Y | 11 |

### Discipline : General

[Go to Top](#)

Video Lecture Topics @ <http://www.digimat.in/downloads/topics/general.pdf>

|   |                           |    |  |   |   |   |     |
|---|---------------------------|----|--|---|---|---|-----|
| 1 | <a href="#">121104005</a> | 40 | Introduction to Japanese Language and Culture                    | Y | Y | Y | 18  |
| 2 | <a href="#">121106003</a> | 20 | Ayurvedic Inheritance of India                                   | Y | Y | Y | 9.3 |
| 3 | <a href="#">121104006</a> | 5  | Astronomy in Ancient, Medieval and Early Telescopic Era of India | Y | Y | Y | 3.6 |

|    |                           |     |  |     |     |     |     |
|----|---------------------------|-----|--|-----|-----|-----|-----|
| 4  | <a href="#">121106007</a> | 48  | NOC:Introduction to Research   | Y   | Y   | Y   | 13  |
| 5  | <a href="#">121106008</a> | 22  | NOC:Biology for engineers and other non-biologists                               | Y   | Y   | Y   | 11  |
| 6  | <a href="#">121105009</a> | 20  | NOC:Stress Management  | Y   | Y   | Y   | 5.5 |
| 7  | <a href="#">121105010</a> | 20  | NOC:Outcome Based Pedagogic Principles for Effective Teaching                    | Y   | Y   | Y   | 5.2 |
| 8  | <a href="#">121107009</a> | 20  | NOC:Introduction to Remote Sensing   | Y   | Y   | Y   | 5.5 |
| 9  | <a href="#">121106011</a> | 22  | NOC:Digital and the Everyday: from Codes to Cloud                                | Y   | Y   | Y   | 26  |
| 10 | <a href="#">121106012</a> | 25  | NOC:Effective Engineering Teaching in Practice                                   | Y   | Y   | Y   | 32  |
| 11 | <a href="#">121106013</a> | 90  | NOC:Virtual Reality Engineering  | Y   | Y   | Y   | 35  |
| 12 | <a href="#">121106014</a> | 40  | NOC:Non-Conventional Energy Resources  | Y   | Y   | Y   | 77  |
| 13 | <a href="#">121101490</a> | --- | NOC:Risk-Based Engineering   | --- | --- | --- | --- |
| 14 | <a href="#">121104452</a> | --- | NOC:Carbon Accounting and Sustainable Designs in Product Lifecycle Management    | --- | --- | --- | --- |
| 15 | <a href="#">121107451</a> | --- | NOC:Technical Communications for Engineers                                       | --- | --- | --- | --- |
| 16 | <a href="#">121108458</a> | --- | NOC:Biomedical Ultrasound: Fundamentals of Imaging and Micromachined Transducers | --- | --- | --- | --- |

**Discipline : Basic Courses (Semester 1 and 2)**

[Go to Top](#)

**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/basic-courses-semester-1-and-2.pdf>**

|    |                           |    |   |   |   |   |     |
|----|---------------------------|----|---|---|---|---|-----|
| 1  | <a href="#">122102004</a> | 16 | Applied mechanics   | Y | Y | Y | 4.4 |
| 2  | <a href="#">122102007</a> | 39 | Management Science I                                      | Y | Y | Y | 11  |
| 3  | <a href="#">122102008</a> | 36 | Materials Science   | Y | Y | Y | 15  |
| 4  | <a href="#">122102009</a> | 41 | Numerical Methods and Computation                         | Y | Y | Y | 9.1 |
| 5  | <a href="#">122104015</a> | 31 | Engineering Mechanics                                     | Y | Y | Y | 6.8 |
| 6  | <a href="#">122104016</a> | 29 | Engineering Physics II                                    | Y | Y | Y | 6.2 |
| 7  | <a href="#">122104017</a> | 32 | Mathematics I   | Y | Y | Y | 3.4 |
| 8  | <a href="#">122105020</a> | 22 | Human Resource Management-I                               | Y | Y | Y | 4.6 |
| 9  | <a href="#">122105021</a> | 13 | Leadership  | Y | Y | Y | 2.7 |
| 10 | <a href="#">122105022</a> | 29 | Management Information System                             | Y | Y | Y | 5.8 |
| 11 | <a href="#">122105023</a> | 44 | Physics I - Oscillations and Waves                        | Y | Y | Y | 9.2 |
| 12 | <a href="#">122105024</a> | 11 | Strategic Management                                      | Y | Y | Y | 2.3 |
| 13 | <a href="#">122106025</a> | 40 | Basic Electronics and Lab                                 | Y | Y | Y | 11  |
| 14 | <a href="#">122106027</a> | 38 | Classical Physics   | Y | Y | Y | 8.6 |
| 15 | <a href="#">122106028</a> | 10 | Engineering Chemistry - I                                 | Y | Y | Y | 2.7 |
| 16 | <a href="#">122106033</a> | 38 | Numerical Methods and Programming                         | Y | Y | Y | 9.8 |
| 17 | <a href="#">122106034</a> | 31 | Quantum Physics   | Y | Y | Y | 7.2 |
| 18 | <a href="#">122107035</a> | 40 | Engineering Physics - I                                   | Y | Y | Y | 24  |
| 19 | <a href="#">122107036</a> | 38 | Mathematics - II  | Y | Y | Y | 7.5 |
| 20 | <a href="#">122107037</a> | 39 | Mathematics - III   | Y | Y | Y | 7.7 |
| 21 | <a href="#">122108038</a> | 40 | Concept of Management and Evolution of Management thought | Y | Y | Y | 11  |

**Discipline : Mining Engineering**[Go to Top](#)**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/mining-engineering.pdf>**

|   |                           |    |  |     |   |     |     |
|---|---------------------------|----|--|-----|---|-----|-----|
| 1 | <a href="#">123105001</a> | 36 | Fundamentals of Environmental Pollution and Control    | Y   | Y | Y   | 11  |
| 2 | <a href="#">123105003</a> | 40 | NOC:Drilling and Blasting Technology                   | Y   | Y | Y   | 11  |
| 3 | <a href="#">123105004</a> | 20 | NOC:Network Analysis for Mines and Mineral Engineering | Y   | Y | Y   | 5.3 |
| 4 | <a href="#">123105005</a> | 60 | NOC:Mining Machinery                                   | Y   | Y | --- | 8.3 |
| 5 | <a href="#">123105006</a> | 60 | NOC:Underground Mining of Metalliferous Deposits       | Y   | Y | Y   | 8.1 |
| 6 | <a href="#">123105007</a> | 60 | NOC:Surface Mining Technology                          | Y   | Y | Y   | 7.4 |
| 7 | <a href="#">123105442</a> | 60 | NOC:Mine Automation and Data Analytics                 | --- | Y | --- | 5.4 |

**Discipline : Architecture**[Go to Top](#)**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/architecture.pdf>**

|    |                           |    |   |     |   |     |     |
|----|---------------------------|----|---|-----|---|-----|-----|
| 1  | <a href="#">124107001</a> | 40 | NOC:Housing Policy and Planning   | Y   | Y | Y   | 11  |
| 2  | <a href="#">124105001</a> | 40 | NOC:Landscape Architecture and Site Planning - Basic Fundamentals                         | Y   | Y | Y   | 12  |
| 3  | <a href="#">124107002</a> | 20 | NOC:Visual Communication Design for Digital Media   | Y   | Y | Y   | 4.6 |
| 4  | <a href="#">124105003</a> | 43 | NOC:Architectural Conservation and Historic Preservation                                  | Y   | Y | Y   | 11  |
| 5  | <a href="#">124105004</a> | 40 | NOC:Architectural Acoustics   | Y   | Y | Y   | 11  |
| 6  | <a href="#">124107004</a> | 40 | NOC:Culturally Responsive Built Environments  | Y   | Y | Y   | 12  |
| 7  | <a href="#">124107005</a> | 40 | NOC:Contemporary Architecture and Design  | Y   | Y | Y   | 10  |
| 8  | <a href="#">124107006</a> | 40 | NOC:Role of Craft and Technology in Interior-Architecture                                 | Y   | Y | Y   | 11  |
| 9  | <a href="#">124106009</a> | 20 | NOC:Introduction to History of Architecture in India                                      | Y   | Y | Y   | 17  |
| 10 | <a href="#">124107007</a> | 60 | NOC:Urban Governance and Development Management   | Y   | Y | Y   | 12  |
| 11 | <a href="#">124107008</a> | 20 | NOC>User Interface Design   | Y   | Y | Y   | 5.8 |
| 12 | <a href="#">124107010</a> | 40 | NOC:Disaster Recovery and Build Back Better   | Y   | Y | Y   | 8.1 |
| 13 | <a href="#">124107012</a> | 40 | NOC:Structure, Form and Architecture: The Synergy   | Y   | Y | Y   | 9.9 |
| 14 | <a href="#">124107011</a> | 60 | NOC:Sustainable Architecture  | Y   | Y | Y   | 14  |
| 15 | <a href="#">124105013</a> | 40 | NOC:Building Materials and Composites   | Y   | Y | Y   | 19  |
| 16 | <a href="#">124105014</a> | 60 | NOC:Environmental Soil Chemistry  | Y   | Y | Y   | 31  |
| 17 | <a href="#">124105015</a> | 40 | NOC:Structural System in Architecture   | Y   | Y | Y   | 12  |
| 18 | <a href="#">124105016</a> | 60 | NOC:Urban Landuse and Transportation Planning   | Y   | Y | Y   | 20  |
| 19 | <a href="#">124106157</a> | 43 | NOC:Strategies for Sustainable Design   | Y   | Y | Y   | 4.6 |
| 20 | <a href="#">124107157</a> | 40 | NOC:Engineering/Architectural Graphics - Part I: Orthographic projection                  | Y   | Y | Y   | 11  |
| 21 | <a href="#">124105158</a> | 60 | NOC:Urban utilities Planning : Water Supply, Sanitation and Drainage                      | Y   | Y | Y   | 8.0 |
| 22 | <a href="#">124107158</a> | 40 | NOC:Introduction to Urban Planning  | Y   | Y | --- | 5.6 |
| 23 | <a href="#">124107159</a> | 20 | NOC:Engineering, Architectural Graphics - Part II<br>(Isometric and Axonometric Drawings) | --- | Y | --- | 2.6 |
| 24 | <a href="#">124107160</a> | 60 | NOC:Environmental Impact Assessment   | --- | Y | --- | 12  |
| 25 | <a href="#">124107161</a> | 40 | NOC:Modern Indian Architecture  | Y   | Y | Y   | 8.9 |
| 26 | <a href="#">124107162</a> | 20 | NOC:International Studies in Vernacular Architecture                                      | Y   | Y | Y   | 3.2 |

|   |                           |     |   |     |     |     |     |
|---|---------------------------|-----|---|-----|-----|-----|-----|
| 27  | <a href="#">124105163</a> | 60  | NOC:Urban Services Planning   | Y   | Y   | --- | 13  |
| 28  | <a href="#">124107164</a> | 20  | NOC:Introduction to Interaction Design  | Y   | Y   | Y   | 2.1 |
| 29  | <a href="#">124107165</a> | 40  | NOC:Understanding and Reducing Ghg Emissions - Focus on Scope 1 and 2 Emission Reduction through Building Design and Construction | --- | Y   | --- | 5.8 |
| 30  | <a href="#">124107338</a> | 60  | NOC:Research Methodology for Planning and Architectural Studies   | --- | Y   | --- | 7.8 |
| 31  | <a href="#">124106454</a> | --- | NOC:Architectural Approaches to Decarbonization of Buildings  | --- | --- | --- | --- |
| 32  | <a href="#">124106455</a> | --- | NOC:Building Materials as a Cornerstone to Sustainability   | --- | --- | --- | --- |
| <b>Discipline : Agriculture</b>   |                           |     |   |     |     |     |     |
| <a href="#">Go to Top</a>   |                           |     |   |     |     |     |     |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/agriculture.pdf">http://www.digimat.in/downloads/topics/agriculture.pdf</a></b> |                           |     |   |     |     |     |     |
| 1   | <a href="#">126104001</a> | 26  | NOC:Basic Crop Production Practices (BCPP)  | --- | Y   | --- | 1.9 |
| 2   | <a href="#">126104002</a> | 46  | NOC:GIS in Ag-Essentials and Applications (GIS)   | Y   | Y   | Y   | 3.9 |
| 3   | <a href="#">126104003</a> | 47  | NOC:Integrated Pest Management (IPM)  | --- | Y   | --- | 5.7 |
| 4   | <a href="#">126104004</a> | 49  | NOC:Nutrition, Therapeutics and Health (NM)   | Y   | Y   | --- | 4.7 |
| 5   | <a href="#">126104005</a> | 36  | NOC:Weather Forecast in Agriculture and Agro-advisory (WF)  | Y   | Y   | Y   | 3.2 |
| 6   | <a href="#">126104006</a> | 45  | NOC:ICT Basics  | Y   | Y   | Y   | 3.2 |
| 7   | <a href="#">126105008</a> | 60  | NOC:Momentum Transfer in Process Engineering  | Y   | Y   | Y   | 16  |
| 8   | <a href="#">126105009</a> | 60  | NOC:Farm Machinery  | Y   | Y   | Y   | 14  |
| 9   | <a href="#">126105010</a> | 60  | NOC:Irrigation and Drainage   | Y   | Y   | Y   | 17  |
| 10  | <a href="#">126105011</a> | 60  | NOC:Fundamentals of Food Process Engineering  | Y   | Y   | Y   | 17  |
| 11  | <a href="#">126105012</a> | 56  | NOC:Soil and Water Conservation Engineering   | Y   | Y   | Y   | 11  |
| 12  | <a href="#">126105013</a> | 60  | NOC:Dairy and Food Process and Products Technology  | Y   | Y   | Y   | 16  |
| 13  | <a href="#">126105014</a> | 40  | NOC:Organic Farming for Sustainable Agricultural Production   | Y   | Y   | Y   | 10  |
| 14  | <a href="#">126105015</a> | 60  | NOC:Novel Technologies for Food Processing and Shelf Life Extension   | Y   | Y   | Y   | 18  |
| 15  | <a href="#">126105016</a> | 60  | NOC:Soil Science and Technology   | Y   | Y   | Y   | 16  |
| 16  | <a href="#">126103017</a> | 31  | NOC:Thermal Processing of Foods   | Y   | Y   | Y   | 19  |
| 17  | <a href="#">126105018</a> | 60  | NOC:Thermal Operations in Food Process Engineering: Theory and Applications   | Y   | Y   | Y   | 16  |
| 18  | <a href="#">126105019</a> | 60  | NOC:Micro Irrigation Engineering  | Y   | Y   | --- | 11  |
| 19  | <a href="#">126105020</a> | 44  | NOC:Instrumentation and Process Control in Food Industry  | --- | Y   | --- | 3.4 |
| 20  | <a href="#">126105021</a> | 60  | NOC:Machine Learning for Soil and Crop Management   | Y   | Y   | Y   | 6.8 |
| 21  | <a href="#">126103022</a> | 65  | NOC:Natural Resources Management  | --- | Y   | --- | 6.8 |
| 22  | <a href="#">126105022</a> | 61  | NOC:Advanced Aquaculture Technology   | Y   | Y   | Y   | 6.1 |
| 23  | <a href="#">126105023</a> | 60  | NOC:Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products                             | Y   | Y   | Y   | 7.9 |
| 24  | <a href="#">126105024</a> | 60  | NOC:Soil Fertility and Fertilizers  | Y   | Y   | Y   | 6.0 |
| 25  | <a href="#">126105025</a> | 60  | NOC:Cooling Technology: Why and How utilized in Food Processing and Allied Industries   | Y   | Y   | Y   | 6.4 |
| 26  | <a href="#">126105026</a> | 40  | NOC:Traction Engineering  | Y   | Y   | Y   | 2.8 |
| 27  | <a href="#">126105027</a> | 60  | NOC:Food Oils and Fats : Chemistry and Technology   | Y   | Y   | Y   | 7.5 |

|   |                           |     |   |     |   |     |     |
|---|---------------------------|-----|---|-----|---|-----|-----|
| 28  | <a href="#">126105334</a> | 60  | NOC:Watershed Hydrology   | Y   | Y | Y   | 6.2 |
| 29  | <a href="#">126105335</a> | 60  | NOC:Water Quality Management Practices  | --- | Y | --- | 6.7 |
| 30  | <a href="#">126105336</a> | 60  | NOC:Modern Food Packaging Technologies: Regulatory Aspects and Global Trends  | Y   | Y | --- | 4.6 |
| 31  | <a href="#">126105337</a> | 58  | NOC:Basics of Crop Breeding and Plant Biotechnology   | Y   | Y | --- | 4.9 |
| <b>Discipline : Multi-Disciplinary</b>  |                           |     |   |     |   |     |     |
| <a href="#">Go to Top</a>   |                           |     |   |     |   |     |     |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/multi-disciplinary.pdf">http://www.digimat.in/downloads/topics/multi-disciplinary.pdf</a></b> |                           |     |   |     |   |     |     |
| 1   | <a href="#">127106001</a> | 83  | NOC:Neuroscience of Human Movement  | Y   | Y | Y   | 71  |
| 2   | <a href="#">127106003</a> | 76  | NOC:Manage TB   | Y   | Y | Y   | 40  |
| 3   | <a href="#">127106004</a> | 45  | NOC:Ecology and Environment   | Y   | Y | Y   | 38  |
| 4   | <a href="#">127101010</a> | 43  | NOC:Designing Learner-Centric MOOCs   | Y   | Y | Y   | 6.3 |
| 5   | <a href="#">127105006</a> | 42  | NOC:Fuzzy Logic and Neural Networks   | Y   | Y | Y   | 11  |
| 6   | <a href="#">127105007</a> | 60  | NOC:Entrepreneurship Essentials   | Y   | Y | --- | 15  |
| 7   | <a href="#">127105008</a> | 39  | NOC:Roadmap for Patent Creation   | Y   | Y | Y   | 20  |
| 8   | <a href="#">127106009</a> | 13  | NOC:Current Regulatory Requirements for Conducting Clinical Trials in India   | Y   | Y | Y   | 4.6 |
| 9   | <a href="#">127106010</a> | 11  | NOC:Regulatory Requirements for Medical Devices and IVD kits in India   | Y   | Y | Y   | 5.8 |
| 10  | <a href="#">127108005</a> | 20  | NOC:Teaching and Learning in Engineering (TALE)   | Y   | Y | Y   | 3.4 |
| 11  | <a href="#">127101012</a> | 18  | NOC:Introduction to Learning Analytics  | Y   | Y | Y   | 3.5 |
| 12  | <a href="#">127101013</a> | 33  | NOC:Designing Learner-Centric e-Learning in STEM Disciplines  | Y   | Y | Y   | 9.3 |
| 13  | <a href="#">127101014</a> | 25  | NOC:Sustainable and Affordable Sanitation Solutions for Small Towns: Policy, Planning and Practice                      | Y   | Y | Y   | 17  |
| 14  | <a href="#">127105017</a> | 41  | NOC:Accreditation and Outcome based Learning  | --- | Y | Y   | 15  |
| 15  | <a href="#">127105018</a> | 60  | NOC:Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts                     | --- | Y | Y   | 18  |
| 16  | <a href="#">127106019</a> | 113 | NOC:Numerical Methods for Engineers   | --- | Y | --- | 44  |
| 17  | <a href="#">127108015</a> | 19  | NOC:Teaching and Learning in General Programs: TALG   | Y   | Y | Y   | 4.7 |
| 18  | <a href="#">127108016</a> | 35  | NOC:TALE 2: Course Design and Instruction of Engineering Courses  | Y   | Y | Y   | 9.0 |
| 19  | <a href="#">127106134</a> | 22  | Basic Course in Biomedical Research   | --- | Y | Y   | 6.6 |
| 20  | <a href="#">127106137</a> | 28  | NOC:Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs (Version 2.0) | Y   | Y | Y   | 15  |
| 21  | <a href="#">127108135</a> | 62  | NOC:NBA Accreditation and Teaching Learning in Engineering (NATE)   | Y   | Y | Y   | 14  |
| 22  | <a href="#">127106136</a> | 14  | NOC:Regulatory Requirements for Medical Devices including in Vitro Diagnostics in India (Version 2.0)                   | Y   | Y | Y   | 6.8 |
| 23  | <a href="#">127106135</a> | 89  | NOC:Thermodynamics  | Y   | Y | Y   | 47  |
| 24  | <a href="#">106101224</a> | 61  | NOC:Learning Analytics Tools  | Y   | Y | Y   | 10  |
| 25  | <a href="#">127103225</a> | 43  | NOC:Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers  | Y   | Y | Y   | 5.8 |
| 26  | <a href="#">127105225</a> | 60  | NOC:Biophotonics  | --- | Y | --- | 6.9 |



|    |           |     |   |     |     |     |     |
|----|-----------|-----|---|-----|-----|-----|-----|
| 27 | 127106225 | 78  | NOC:Model Predictive Control: Theory and Applications   | --- | Y   | --- | 5.6 |
| 28 | 127106227 | 72  | NOC:Research Methodology  | Y   | Y   | Y   | 7.0 |
| 29 | 127106228 | 24  | NOC:Management of Medical Emergencies in Dental Practice                                      | --- | Y   | --- | 1.7 |
| 30 | 127106229 | 44  | NOC:Basic Course in Ornithology   | Y   | Y   | Y   | 4.6 |
| 31 | 127106230 | 31  | NOC:Oral Biology  | Y   | Y   | Y   | 4.3 |
| 32 | 127105231 | 60  | NOC:Vacuum Technology and Process Application   | --- | Y   | --- | 12  |
| 33 | 127105232 | 40  | NOC:Basics of Health Promotion and Education Intervention                                     | Y   | Y   | Y   | 3.6 |
| 34 | 127106231 | 40  | NOC:Introduction to Biomimicry  | Y   | Y   | Y   | 3.4 |
| 35 | 127106232 | 20  | NOC:Electrocardiogram - Interpretation and Application in Clinical Practice                   | --- | Y   | Y   | 1.9 |
| 36 | 127101233 | 60  | NOC:Engineering Statistics  | Y   | Y   | Y   | 4.6 |
| 37 | 127104233 | 110 | NOC:Foundation Certificate in Palliative Care   | --- | Y   | --- | 6.0 |
| 38 | 127105233 | 40  | NOC:Basics of Mental Health and Clinical Psychiatry   | Y   | Y   | Y   | 3.6 |
| 39 | 127105234 | 40  | NOC:Introduction to Reliability Engineering   | Y   | Y   | Y   | 4.2 |
| 40 | 127105235 | 40  | NOC:Nanobio Technology Enabled Point-of-Care Devices  | Y   | Y   | --- | 5.0 |
| 41 | 127106233 | 23  | NOC:One Health  | Y   | Y   | Y   | 2.2 |
| 42 | 127102236 | 27  | NOC:Similitude and Approximations in Engineering  | --- | Y   | Y   | 2.1 |
| 43 | 127103236 | 37  | NOC:Sustainable Power Generation Systems  | --- | Y   | --- | 4.3 |
| 44 | 127105236 | 20  | NOC:Adolescent Health and Well-Being : A Holistic Approach                                    | Y   | Y   | Y   | 1.7 |
| 45 | 127105237 | 60  | NOC:Research Methods in Health Promotion  | Y   | Y   | Y   | 5.9 |
| 46 | 127106236 | 31  | NOC:Canning Technology, Value Addition of Seafood (Fish Processing)                           | Y   | Y   | Y   | 2.1 |
| 47 | 127106237 | 43  | NOC:Food Packaging Technology   | Y   | Y   | Y   | 3.3 |
| 48 | 127104381 | 60  | NOC:Multi-Criteria Decision Making and Applications   | --- | Y   | --- | 6.2 |
| 49 | 127104385 | 78  | NOC:Basic Certificate in Palliative Care  | --- | Y   | --- | 5.6 |
| 50 | 127105382 | 19  | NOC:Urban Ecological Heritagescapes through Interactive Governance: Theories and Applications | --- | Y   | --- | 2.9 |
| 51 | 127105386 | 18  | NOC:Experimental Robotics   | --- | Y   | --- | 2.4 |
| 52 | 127105388 | 40  | NOC:Medical Law   | --- | Y   | --- | 4.4 |
| 53 | 127105389 | 68  | NOC:An Overview on Maternal Health Antenatal, Intranatal and Postnatal Care                   | --- | Y   | --- | 9.0 |
| 54 | 127105390 | 40  | NOC:Recommender Systems   | --- | Y   | --- | 3.4 |
| 55 | 127105391 | 60  | NOC:Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis                 | --- | Y   | --- | 6.2 |
| 56 | 127106383 | 40  | NOC:Vulnerability Studies: An Introduction  | Y   | Y   | --- | 5.8 |
| 57 | 127106384 | 23  | NOC:Pulmonary Function Tests - Interpretation and Application in Clinical Practice            | Y   | Y   | Y   | 2.0 |
| 58 | 127101530 | --- | NOC:Intelligent Feedback and Control  | --- | --- | --- | --- |
| 59 | 127105531 | --- | NOC:Thin Film Technology  | --- | --- | --- | --- |
| 60 | 127105532 | --- | NOC:An Integrated Approach to Common Childhood Diseases and Developmental Disorders in India  | --- | --- | --- | --- |

|   |                           |     |  |     |     |     |     |
|---|---------------------------|-----|--|-----|-----|-----|-----|
| 61  | <a href="#">127106533</a> | --- | NOC:Making Learning Engaging Through Interactive Games                           | --- | --- | --- | --- |
| 62  | <a href="#">127107502</a> | --- | NOC:Intellectual Property Portfolio Management                                   | --- | --- | --- | --- |
| <b>Discipline : Special Lecture Series</b>  |                           |     |  |     |     |     |     |
| <a href="#">Go to Top</a>   |                           |     |  |     |     |     |     |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/special.pdf">http://www.digimat.in/downloads/topics/special.pdf</a></b> |                           |     |  |     |     |     |     |
| 1   | <a href="#">128106001</a> | 103 | ACM Summer School on Graph Theory and Graph Algorithms                           | --- | Y   | --- | 105 |
| 2   | <a href="#">128106002</a> | 73  | ACM Summer School in Data Science (Goa)  | --- | Y   | --- | 47  |
| 3   | <a href="#">128106003</a> | 9   | Topics in Theoretical Computer Science   | --- | Y   | --- | 17  |
| 4   | <a href="#">128106004</a> | 20  | Researching Anglo-Indians in India and the Diaspora                              | --- | Y   | --- | 13  |
| 5   | <a href="#">128106005</a> | 94  | Dravidian Temple Architecture and Construction Techniques                        | --- | Y   | --- | 72  |
| 6   | <a href="#">128106006</a> | 20  | ACM Summer School in Data Science (Bangalore)                                    | --- | Y   | --- | 49  |
| 7   | <a href="#">128106007</a> | 36  | ACM Summer School on Algorithmic Game Theory                                     | --- | Y   | --- | 9.3 |
| 8   | <a href="#">128106008</a> | 33  | ACM Summer School on Graph Theory and Graph Algorithms                           | --- | Y   | --- | 21  |
| 9   | <a href="#">128106009</a> | 34  | ACM Summer School on Compiler Design and Construction                            | --- | Y   | --- | 9.8 |
| 10  | <a href="#">128106010</a> | 38  | ACM Summer School on Geometric Algorithms and their Applications                 | --- | Y   | --- | 10  |
| 11  | <a href="#">128106011</a> | 47  | ACM Summer School on Algorithmic and Theoretical Aspects of Machine Learning     | --- | Y   | --- | 12  |
| 12  | <a href="#">128106012</a> | 20  | ACM Winter School on Hybrid Cloud  | --- | Y   | --- | 5.8 |
| 13  | <a href="#">128106013</a> | 29  | ACM Indian Summer School on Programming Languages: Principles and Practice       | --- | Y   | --- | 18  |
| 14  | <a href="#">128106014</a> | 18  | ACM Winter School 2019 on High Performance Computing (HPC)                       | --- | Y   | --- | 4.4 |
| 15  | <a href="#">128106015</a> | 6   | Thermodynamics of Materials  | --- | Y   | --- | 0.5 |
| 16  | <a href="#">128108016</a> | 14  | ACM India Summer School on IoT and Embedded Systems                              | --- | Y   | --- | 2.1 |
| 17  | <a href="#">128106017</a> | 31  | ACM India Summer School on Program Execution                                     | --- | Y   | --- | 3.7 |
| 18  | <a href="#">128106018</a> | 55  | ACM India Summer School on Programming Language Analysis and Optimizations       | --- | Y   | --- | 3.6 |
| 19  | <a href="#">128106019</a> | 50  | ACM Summer School on Shape Modelling   | --- | Y   | --- | 3.6 |
| 20  | <a href="#">128106020</a> | 62  | ACM India Summer School on Shape Modelling                                       | --- | Y   | --- | 7.6 |
| 21  | <a href="#">128106021</a> | 47  | ACM India Winter School on Topics in Digital Trust                               | --- | Y   | --- | 9.0 |
| 22  | <a href="#">128106032</a> | 27  | ACM Winter School on Design, Implementation and Verification of Computer Systems | --- | Y   | --- | 4.5 |
| 23  | <a href="#">128106033</a> | 6   | Topics In Theoretical Computer Science (2023)                                    | --- | Y   | --- | 1.0 |
| 24  | <a href="#">128108017</a> | 34  | ACM India Summer School on Algorithms for Data Science (2023)                    | --- | Y   | --- | 7.2 |
| 25  | <a href="#">128108018</a> | 24  | ACM India Summer School on Cybersecurity for Women                               | --- | Y   | --- | 12  |
| 26  | <a href="#">128106143</a> | 18  | NPTEL Special Lectures Series  | --- | --- | --- | 4.4 |
| 27  | <a href="#">128108019</a> | 28  | ACM Winter Schools - Cryptography and Cybersecurity                              | --- | --- | --- | 8.1 |
| 28  | <a href="#">128108020</a> | 25  | ACM Winter School on Network Science   | --- | --- | --- | 5.6 |
| 29  | <a href="#">128108021</a> | 26  | ACM Winter School on Recent Trends in AI and ML                                  | --- | --- | --- | 5.4 |
| 30  | <a href="#">128108022</a> | 20  | ACM India Pingala Interactions in Computing (PIC) 2024                           | --- | --- | --- | 4.0 |
| 31  | <a href="#">128108023</a> | 17  | ACM INDIA ARCS 2024  | --- | --- | --- | 2.2 |

|   |                           |     |  |     |     |     |     |
|---|---------------------------|-----|--|-----|-----|-----|-----|
| 32  | <a href="#">128108024</a> | 9   | ACM INDIA Annual Event 2024  | --- | --- | --- | 1.6 |
| 33  | <a href="#">128108025</a> | 29  | ACM INDIA Winter School - Full-Stack Networking (FSN)  | --- | --- | --- | 3.1 |
| <b>Discipline : Law</b><br><a href="#">Go to Top</a>  |                           |     |  |     |     |     |     |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/law.pdf">http://www.digimat.in/downloads/topics/law.pdf</a></b>             |                           |     |  |     |     |     |     |
| 1   | <a href="#">129106001</a> | 75  | NOC:Right to Information and Good Governance   | Y   | Y   | Y   | 5.7 |
| 2   | <a href="#">129106002</a> | 59  | NOC:Constitution of India and Environmental Governance:<br>Administrative and Adjudicatory Process | Y   | Y   | Y   | 6.0 |
| 3   | <a href="#">129106003</a> | 18  | NOC:Constitutional Studies   | Y   | Y   | Y   | 3.8 |
| 4   | <a href="#">129105004</a> | 40  | NOC:Introduction to Law on Electricity   | Y   | Y   | Y   | 4.9 |
| 5   | <a href="#">129105005</a> | 17  | NOC:Legal and Regulatory Issues in Biotechnology   | Y   | Y   | Y   | 2.4 |
| 6   | <a href="#">129105006</a> | 60  | NOC:New Labour Codes of India  | Y   | Y   | Y   | 6.8 |
| 7   | <a href="#">129106006</a> | 56  | NOC:Advanced Contracts, Tendering and Public Procurement   | Y   | Y   | Y   | 4.6 |
| 8   | <a href="#">129105007</a> | 40  | NOC:IP Management and Technology Transfer  | Y   | Y   | --- | 9.3 |
| 9   | <a href="#">129105008</a> | 40  | NOC:Biodiversity Protection, Farmers and Breeders Rights   | Y   | Y   | Y   | 3.8 |
| 10  | <a href="#">129106008</a> | 48  | NOC:Conflict Management through Mediation  | --- | Y   | --- | 3.1 |
| 11  | <a href="#">129106411</a> | 64  | NOC:Constitution Law and Public Administration in India  | Y   | Y   | Y   | 6.5 |
| 12  | <a href="#">129105409</a> | 34  | NOC:International Trade Law  | Y   | Y   | Y   | 3.7 |
| 13  | <a href="#">129105410</a> | 40  | NOC:Centre-State Relations in India  | --- | Y   | --- | 4.0 |
| 14  | <a href="#">129105504</a> | --- | NOC:Intellectual Property Disputes: Court Practices and Enforcement                                | --- | --- | --- | --- |
| <b>Discipline : Economics</b><br><a href="#">Go to Top</a>  |                           |     |  |     |     |     |     |
| <b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/economics.pdf">http://www.digimat.in/downloads/topics/economics.pdf</a></b> |                           |     |  |     |     |     |     |
| 1   | <a href="#">130106001</a> | 65  | NOC:Introduction to Econometrics   | Y   | Y   | Y   | 5.5 |
| 2   | <a href="#">130106113</a> | 72  | NOC:Environmental and Resource Economics   | Y   | Y   | Y   | 5.9 |
| 3   | <a href="#">130104114</a> | 41  | NOC:Microfoundations of Macroeconomics   | Y   | Y   | Y   | 4.3 |
| 4   | <a href="#">130104115</a> | 118 | NOC:Introduction to Microeconomics in Hindi and without Calculus                                   | --- | Y   | --- | 4.2 |
| 5   | <a href="#">130104116</a> | 60  | NOC:Economics of Banking and Finance Markets   | Y   | Y   | Y   | 4.5 |
| 6   | <a href="#">130106115</a> | 49  | NOC:Spatial Statistics and Spatial Econometrics  | Y   | Y   | Y   | 4.8 |
| 7   | <a href="#">130106117</a> | 36  | NOC:Economics of Innovation  | --- | Y   | --- | 2.7 |
| 8   | <a href="#">130106118</a> | 47  | NOC:Principles of Economics  | --- | Y   | --- | 5.4 |
| 9   | <a href="#">130107369</a> | 60  | NOC:Health Economics   | Y   | Y   | --- | 7.2 |
| 10  | <a href="#">130107476</a> | --- | NOC:Labour Economics-Theory and Practice   | --- | --- | --- | --- |