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1.2 LAKH+ VIDEOS

Languages: Hindi, Tamil, Kannada, Malayalam, English

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YouTube Alternative for Streaming 1,20,000+ NPTEL Video Lectures in LAN, WiFi Devices
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Embracing the usage of Technology in the field of Education as per NEP 2020

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NPTEL Video Courses Information in Supplementary Formats

(Document Last Updated : November 13, 2024)

| No | NPTEL Information Summary | Status | Courses | Lectures |
|----|--|-----------|---------|----------|
| 1 | NPTEL Video Courses (2003 to October 2024) | Completed | 2,563 | 1,19,237 |
| 2 | NPTEL Video Courses (PDF Transcription) | Completed | 2,169 | 98,102 |
| 3 | NPTEL Video Courses (English Subtitles) | Completed | 2,094 | 94,289 |
| 4 | NPTEL Video Courses (Tamil Subtitles) | Completed | 2,094 | 94,193 |

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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 : 1,19,237 (Updated: November 13, 2024)

| No. | ID | Name of the Engineering Discipline | Total Video Courses | Total Video Lectures | Size (GB) |
|---------|-----|---|---------------------|----------------------|-----------|
| 1 | 101 | Aerospace Engineering | 61 | 2,938 | 900 |
| 2 | 102 | Biotechnology | 98 | 4,431 | 1,488 |
| 3 | 103 | Chemical Engineering | 138 | 6,387 | 2,246 |
| 4 | 104 | Chemistry and Biochemistry | 109 | 5,133 | 2,096 |
| 5 | 105 | Civil Engineering | 202 | 9,519 | 2,807 |
| 6 | 106 | Computer Science and Engineering | 226 | 11,552 | 3,081 |
| 7 | 107 | Engineering Design | 19 | 743 | 320 |
| 8 | 108 | Electrical Engineering | 223 | 12,004 | 3,621 |
| 9 | 109 | Humanities and Social Sciences | 239 | 9,581 | 3,406 |
| 10 | 110 | Management | 189 | 9,085 | 2,246 |
| 11 | 111 | Mathematics | 184 | 9,372 | 2,336 |
| 12 | 112 | Mechanical Engineering | 295 | 12,513 | 3,504 |
| 13 | 113 | Metallurgy and Material Science | 92 | 4,127 | 1,204 |
| 14 | 114 | Ocean Engineering | 32 | 1,531 | 568 |
| 15 | 115 | Physics | 104 | 5,121 | 1,531 |
| 16 | 116 | Textile Engineering | 15 | 488 | 295 |
| 17 | 117 | Electronics and Communication Engineering | 100 | 4,461 | 1,131 |
| 18 | 118 | Nanotechnology | 2 | 85 | 54 |
| 19 | 119 | Atmospheric Science | 3 | 121 | 51 |
| 20 | 121 | General | 16 | 568 | 273 |
| 21 | 122 | Basic Courses (Semester 1 and 2) | 21 | 657 | 170 |
| 22 | 123 | Mining Engineering | 7 | 336 | 57 |
| 23 | 124 | Architecture | 32 | 1,342 | 335 |
| 24 | 126 | Agriculture | 31 | 1,664 | 280 |
| 25 | 127 | Multi-Disciplinary | 62 | 2,761 | 630 |
| 26 | 128 | Special Lecture Series | 33 | 1,102 | 483 |
| 27 | 129 | Law | 14 | 632 | 80 |
| 28 | 130 | Economics | 10 | 588 | 57 |
| 29 | MED | Medical Courses | 6 | 395 | 83 |
| Total : | | | 2,563 | 1,19,237 | 35,333 |

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

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|----|---------------------------|-----|---|-----|---|-----|-----|
| 35 | 101104075 | 28 | NOC:Advance Aircraft Maintenance | Y | Y | Y | 19 |
| 36 | 101104076 | 40 | NOC:Introduction to Finite Volume Methods-II | Y | Y | Y | 16 |
| 37 | 101105077 | 73 | NOC:Satellite Attitude Dynamics and Control | Y | Y | Y | 25 |
| 38 | 101101079 | 67 | NOC:Introduction to Aerospace Engineering | Y | Y | Y | 34 |
| 39 | 101104078 | 60 | NOC:Introduction to Rocket Propulsion | --- | Y | Y | 15 |
| 40 | 101105081 | 40 | NOC:Vibration and Structural Dynamics | --- | Y | Y | 11 |
| 41 | 101106082 | 36 | NOC:Rocket Propulsion | Y | Y | Y | 77 |
| 42 | 101105084 | 42 | NOC:Aircraft Structures - I | Y | Y | Y | 21 |
| 43 | 101104084 | 60 | NOC:Introduction to Airbreathing Propulsion | Y | Y | Y | 41 |
| 44 | 101101083 | 86 | NOC:Introduction to Aircraft Design | Y | Y | Y | 9.0 |
| 45 | 101105085 | 65 | NOC:Introduction to CFD | Y | Y | --- | 30 |
| 46 | 101105083 | 99 | NOC:Space Flight Mechanics | Y | Y | Y | 52 |
| 47 | 101104083 | 26 | NOC:UAV Design - Part II | Y | Y | Y | 9.1 |
| 48 | 101101086 | 36 | NOC:Introduction to Launch Vehicle Analysis and Design | Y | Y | Y | 2.2 |
| 49 | 101101087 | 121 | NOC:Lighter than Air Systems | Y | Y | Y | 2.9 |
| 50 | 101104086 | 40 | NOC:Computational Science in Engineering | Y | Y | Y | 3.1 |
| 51 | 101108086 | 60 | NOC:Gasdynamics: Fundamentals and Applications | Y | Y | Y | 5.7 |
| 52 | 101105088 | 69 | NOC:Fundamentals of Theoretical and Experimental Aerodynamics | --- | Y | --- | 6.5 |
| 53 | 101105089 | 69 | NOC:Aerodynamic Design of Axial Flow Compressors and Fans | Y | Y | Y | 8.8 |
| 54 | 101102090 | 48 | NOC:Elements of Mechanical Vibration | --- | Y | --- | 6.9 |
| 55 | 101105090 | 62 | NOC:Smart Structures | --- | Y | --- | 4.6 |
| 56 | 101105091 | 64 | NOC:Aeroengine Gas Turbine Cycles | --- | Y | --- | 6.9 |
| 57 | 101104330 | 60 | NOC:Introduction to Aircraft Control System | Y | Y | Y | 3.1 |
| 58 | 101105331 | 40 | NOC:Combustion of Solid Fuels and Propellants | Y | Y | Y | 3.0 |
| 59 | 101105332 | 40 | NOC:Aerospace Structural Analysis | --- | Y | --- | 3.1 |
| 60 | 101105333 | 60 | NOC:Fundamentals of Supersonic and Hypersonic Flow | --- | Y | --- | 5.3 |
| 61 | 101104450 | 62 | NOC:Applied Computational Fluid Dynamics | --- | Y | --- | 6.6 |

Discipline : Biotechnology

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

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

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

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

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|----|---------------------------|----|--|-----|---|-----|-----|
| 84 | 102104099 | 34 | NOC:Neurobiology | Y | Y | --- | 1.0 |
| 85 | 102105099 | 60 | NOC:Next Generation Sequencing Technologies: Data Analysis and Applications | Y | Y | Y | 4.9 |
| 86 | 102105100 | 60 | NOC:Computational Neuroscience | --- | Y | --- | 5.1 |
| 87 | 102105101 | 20 | NOC:Electrophysiology of Heart | Y | Y | Y | 1.9 |
| 88 | 102103341 | 52 | NOC:Molecular Biology | Y | Y | Y | 11 |
| 89 | 102105342 | 63 | NOC:Pharmacognosy and Metabolic Engineering | --- | Y | --- | 4.9 |
| 90 | 102106339 | 44 | NOC:Computational Genomics | --- | Y | --- | 5.8 |
| 91 | 102106340 | 60 | NOC:Human Physiology | Y | Y | --- | 6.9 |
| 92 | 102106343 | 63 | NOC:I Think Biology | Y | Y | Y | 6.4 |
| 93 | 102106345 | 97 | NOC:Classics in Neuroscience | --- | Y | Y | 4.4 |
| 94 | 102108344 | 55 | NOC:Microsensors, Implantable Devices and Rodent Surgeries for Biomedical Applications | Y | Y | --- | 5.7 |
| 95 | 102106102 | 33 | Introduction to Synthetic Biology | --- | Y | --- | 4.1 |
| 96 | 102104459 | 60 | NOC:Design for Biosecurity | Y | Y | --- | 16 |
| 97 | 102106456 | 40 | NOC:Advances in Omics | --- | Y | --- | 9.1 |
| 98 | 102106457 | 66 | NOC:Statistics for Biomedical Engineers | --- | Y | --- | 13 |

Discipline : Chemical Engineering

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

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

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

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

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|-----|---------------------------|----|--|-----|---|-----|-----|
| 129 | 103106220 | 62 | NOC:Artificial Lift | Y | Y | Y | 6.4 |
| 130 | 103107220 | 60 | NOC:Advanced Reaction Engineering | --- | Y | --- | 7.2 |
| 131 | 103107221 | 60 | NOC:Polymer Process Engineering | Y | Y | Y | 7.0 |
| 132 | 103108220 | 60 | NOC:Transport Processes | --- | Y | --- | 8.3 |
| 133 | 103101354 | 60 | NOC:Modeling Stochastic Phenomena for Engineering Applications: Part-1 | --- | Y | --- | 4.0 |
| 134 | 103102352 | 19 | NOC:Computational Process Design | --- | Y | --- | 4.5 |
| 135 | 103103355 | 38 | NOC:Applied Statistical Thermodynamics | --- | Y | --- | 3.8 |
| 136 | 103105353 | 60 | NOC:Momentum Transfer in Fluids | Y | Y | --- | 5.1 |
| 137 | 103105460 | 60 | NOC:Enhanced Oil Recovery Techniques | --- | Y | --- | 11 |
| 138 | 103105461 | 40 | NOC:Adsorption Science and Technology: Fundamentals and Applications | --- | Y | --- | 6.9 |

Discipline : Chemistry and Biochemistry

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

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|----|-----------|----|--|-----|---|-----|-----|
| 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 |

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

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| 96 | 104101136 | 60 | NOC:Transition Metal Chemistry | Y | Y | Y | 7.6 |
| 97 | 104105133 | 40 | NOC:Principles and Applications of Enolate Alkylation | Y | Y | Y | 3.5 |
| 98 | 104101137 | 60 | NOC:Nuclear and Radiochemistry | --- | Y | --- | 7.4 |
| 99 | 104106137 | 43 | NOC:Elementary Electrochemistry | Y | Y | Y | 4.6 |
| 100 | 104106138 | 26 | NOC:Organic Chemistry-I (Tamil) | --- | Y | --- | 2.0 |
| 101 | 104101139 | 60 | NOC:Fundamentals of Statistical Thermodynamics | Y | Y | Y | 6.7 |
| 102 | 104105139 | 60 | NOC:Overview and Integration of Cellular Metabolism | Y | Y | Y | 6.8 |
| 103 | 104101362 | 60 | NOC:Interpretative Molecular Spectroscopy | --- | Y | --- | 4.7 |
| 104 | 104101366 | 75 | NOC:Many Body Methods in Quantum Chemistry | --- | Y | --- | 19 |
| 105 | 104104364 | 40 | NOC:Supramolecular Chemistry-I | Y | Y | Y | 3.1 |
| 106 | 104105365 | 60 | NOC:Elementary Thermodynamics for All | --- | Y | --- | 4.3 |
| 107 | 104108363 | 60 | NOC:One and Two Dimensional NMR Spectroscopy: Concepts and Spectral Analysis | Y | Y | Y | 7.8 |
| 108 | 104105085 | 40 | NOC:Co-ordination Chemistry (Chemistry of Transition Elements) | --- | Y | --- | 19 |
| 109 | 104105462 | 61 | NOC:Molecular Rearrangements and Reactive Intermediates in Organic Synthesis | --- | Y | --- | 7.3 |

Discipline : Civil Engineering

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

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| 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 |

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| 60 | 105107158 | 40 | NOC:Digital Land Surveying And Mapping | Y | Y | Y | 11 |
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| 62 | 105104157 | 32 | NOC:Hydration, Porosity and Strength of Cementitious Materials | Y | Y | Y | 2.4 |
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| 65 | 105104161 | 37 | NOC:Principles of Construction Management | Y | Y | Y | 5.4 |
| 66 | 105104162 | 40 | NOC:Foundation Design | Y | Y | Y | 2.6 |
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| 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 |
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| 74 | 105105169 | 22 | NOC:Electronic Waste Management: Issues And Challenges | Y | Y | Y | 5.9 |
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| 76 | 105104167 | 21 | NOC:Photogeology In Terrain Evaluation | Y | Y | Y | 4.7 |
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| 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 |
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| 84 | 105102176 | 56 | NOC:Fire Protection, Services and Maintenance Management of Building | Y | Y | Y | 28 |
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| 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 |
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| 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, 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 |
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| 96 | 105106178 | 75 | NOC:Glass Processing Technology | Y | Y | Y | 50 |

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| 103 | 105106187 | 29 | NOC:Advanced Topics in the Science and Technology of Concrete | Y | Y | Y | 39 |
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| 117 | 105104200 | 57 | NOC:Earthquake Geology: A tool for Seismic Hazard Assessment | Y | Y | Y | 34 |
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| 120 | 105105202 | 19 | NOC:Geo Spatial Analysis in Urban Planning | Y | Y | Y | 5.3 |
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| 122 | 105105203 | 63 | NOC:Hydraulic Engineering | Y | Y | Y | 17 |
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| 126 | 105107201 | 56 | NOC:Remote Sensing Essentials | Y | Y | Y | 14 |
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| 128 | 105105201 | 62 | NOC:Water Supply Engineering | Y | Y | Y | 20 |
| 129 | 105107204 | 40 | NOC:Earthquake Resistant Design of Foundations | --- | Y | --- | 5.9 |
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| 134 | 105101206 | 67 | NOC:Remote Sensing: Principles and Applications | Y | Y | Y | 16 |

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| 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 |
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| 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 |
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| 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 |
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| 186 | 105105226 | 60 | NOC:Engineering Geology | --- | Y | --- | 8.6 |
| 187 | 105106224 | 67 | NOC:Advanced Reinforced Concrete Design | --- | Y | --- | 8.3 |
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| 189 | 105107224 | 60 | NOC:Plate Tectonics | Y | Y | Y | 9.5 |
| 190 | 105107225 | 60 | NOC:Earthquake Geotechnical Engineering | Y | Y | --- | 7.3 |
| 191 | 105103346 | 30 | NOC:Applied Seismology for Engineers | --- | Y | --- | 8.1 |
| 192 | 105103347 | 41 | NOC:Structural Vibration | --- | Y | --- | 3.6 |
| 193 | 105104348 | 42 | NOC:Construction Management | --- | Y | --- | 4.2 |
| 194 | 105104349 | 39 | NOC:Laboratory Practices in Earth Sciences: Landscape Mapping | Y | Y | Y | 5.5 |
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| 198 | 105105464 | 60 | NOC:Geoengineering | --- | Y | --- | 23 |
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| 201 | 105107463 | 64 | NOC:Railway Engineering | --- | Y | --- | 14 |
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| 7 | 106102064 | 36 | Data Structures And Algorithms | Y | Y | Y | 9.3 |
| 8 | 106102065 | 35 | Introduction to Computer Graphics | Y | Y | Y | 7.7 |
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| 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 |
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| 142 | 106105216 | 60 | NOC:Computer Vision | Y | Y | Y | 17 |
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| 28 | 111108081 | 40 | Ordinary Differential Equations and Applications | Y | Y | Y | 25 |
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| 75 | 112106198 | 32 | NOC:Experimental Stress Analysis:An Overview | Y | Y | Y | 4.0 |
| 76 | 112108201 | 44 | NOC:Variational Methods in Mechanics | Y | Y | Y | 13 |
| 77 | 112105206 | 39 | NOC:Fluid Machines | Y | Y | Y | 9.5 |
| 78 | 112104203 | 40 | NOC:Nature and Property of Materials | Y | Y | Y | 2.9 |
| 79 | 112104204 | 48 | NOC:Manufacturing Process Technology - II | Y | Y | Y | 3.3 |
| 80 | 112104205 | 48 | NOC:Basics of Finite Element Analysis - II | Y | Y | Y | 1.8 |
| 81 | 112107209 | 40 | NOC:Engineering Economic Analysis | Y | Y | Y | 11 |
| 82 | 112107208 | 40 | NOC:Refrigeration and Air-Conditioning | Y | Y | Y | 9.6 |
| 83 | 112107207 | 20 | NOC:Two Phase Flow and Heat Transfer | Y | Y | Y | 3.9 |
| 84 | 112106200 | 34 | NOC:Fluid Dynamics and Turbomachines | Y | Y | Y | 15 |
| 85 | 112103202 | 19 | NOC:Advanced Machining Processes | Y | Y | Y | 6.9 |
| 86 | 112105211 | 20 | NOC:Computer Numerical Control (CNC) of Machine Tools and Processes | Y | Y | Y | 4.5 |
| 87 | 112106179 | 44 | Metrology | Y | Y | Y | 29 |
| 88 | 112107083 | 40 | Metal Casting | Y | Y | Y | 28 |
| 89 | 112108212 | 40 | NOC:Heat Transfer and Combustion in Multiphase Systems | Y | Y | Y | 7.9 |
| 90 | 112108211 | 72 | NOC:Compliant Mechanisms: Principles and Design | Y | Y | Y | 16 |
| 91 | 112107212 | 40 | NOC:Introduction to Mechanical Vibration | Y | Y | Y | 11 |
| 92 | 112107216 | 40 | NOC:Steam and Gas Power Systems | Y | Y | Y | 9.3 |
| 93 | 112107215 | 40 | NOC:Principles of Casting Technology | Y | Y | Y | 11 |
| 94 | 112107214 | 40 | NOC:Modelling and Simulation of Dynamic Systems | Y | Y | Y | 9.4 |
| 95 | 112107213 | 60 | NOC:Joining Technologies of Metals | Y | Y | Y | 7.8 |
| 96 | 112105212 | 20 | NOC:Non Traditional Abrasive Machining Processes - Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining | Y | Y | Y | 5.4 |
| 97 | 112107217 | 20 | NOC:Product Design and Development | Y | Y | Y | 5.7 |
| 98 | 112107211 | 20 | NOC:Convective Heat Transfer | Y | Y | Y | 5.7 |
| 99 | 112105218 | 60 | NOC:Introduction to Fluid Mechanics | Y | Y | Y* | 17 |
| 100 | 112104212 | 72 | NOC:Fundamentals of Acoustics | Y | Y | Y | 3.1 |
| 101 | 112104211 | 21 | NOC:Principles of Vibration Control | Y | Y | Y | 1.6 |
| 102 | 112104219 | 40 | NOC:Heat Treatment and Surface Hardening - II | Y | Y | Y | 4.4 |
| 103 | 112104220 | 50 | NOC:Phase Transformation in Materials | Y | Y | Y | 3.3 |
| 104 | 112107219 | 60 | NOC:Fundamentals of Manufacturing Processes | Y | Y | Y | 17 |
| 105 | 112106222 | 42 | NOC:Micro and Nano Scale Energy Transport | Y | Y | Y | 34 |
| 106 | 112104221 | 31 | NOC:Manufacturing of Composites | Y | Y | Y | 2.5 |
| 107 | 112104222 | 54 | NOC:Applied Ergonomics | Y | Y | Y | 4.7 |
| 108 | 112106223 | 40 | NOC:Electron Diffraction and Imaging | Y | Y | Y | 31 |
| 109 | 112106225 | 42 | NOC:Acoustic and Noise Control | Y | Y | Y | 21 |

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

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

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| 185 | 112105287 | 59 | NOC:Advanced Concepts in Fluid Mechanics | Y | Y | Y | 28 |
| 186 | 112106286 | 37 | NOC:Engineering Mechanics | Y | Y | Y | 127 |
| 187 | 112107282 | 20 | NOC:Product Design Using Value Engineering | Y | Y | Y | 9.1 |
| 188 | 112107283 | 20 | NOC:Selection of Nanomaterials for Energy Harvesting and Storage Application | Y | Y | Y | 4.8 |
| 189 | 112108285 | 25 | NOC:A Short Lecture Series on Contour Integration in the Complex Plane | Y | Y | Y | 3.5 |
| 190 | 112105254 | 60 | NOC:Computational Fluid Dynamics | --- | Y | --- | 5.9 |
| 191 | 112105271 | 65 | NOC:Conduction and Convection Heat Transfer | Y | Y | --- | 11 |
| 192 | 112106253 | 55 | NOC: Steel Quality: Role of Secondary Refining and Continuous Casting | --- | Y | Y | 4.9 |
| 193 | 112107290 | 39 | NOC:Acoustic Metamaterials | Y | Y | Y | 6.8 |
| 194 | 112103289 | 37 | NOC:Computational Fluid Dynamics for Incompressible Flows | Y | Y | Y | 22 |
| 195 | 112104289 | 50 | NOC:Computer Integrated Manufacturing | Y | Y | Y | 40 |
| 196 | 112103290 | 43 | NOC:Experimental Methods in Fluid Mechanics | Y | Y | Y | 14 |
| 197 | 112106289 | 34 | NOC:Foundations of Computational Materials Modelling | Y | Y | Y | 29 |
| 198 | 112106290 | 33 | NOC:Fundamentals of Combustion for Propulsion | Y | Y | Y | 26 |
| 199 | 112108289 | 43 | NOC:Introduction to Soft Matter | Y | Y | Y | 5.2 |
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| 203 | 112107289 | 40 | NOC:Robotics and Control: Theory and Practice | Y | Y | Y | 3.4 |
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| 207 | 112106294 | 42 | NOC:Computational Fluid Dynamics using Finite Volume Method | Y | Y | Y | 7.7 |
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| 210 | 112104293 | 14 | NOC:Foundations of Cognitive Robotics | Y | Y | Y | 7.6 |
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| 214 | 112101298 | 67 | NOC:Optimization from Fundamentals | Y | Y | --- | 5.4 |
| 215 | 112102298 | 29 | NOC:Introduction to Uncertainty Analysis and Experimentation | Y | Y | --- | 5.0 |
| 216 | 112103298 | 28 | NOC:Theory of Composite Shells | Y | Y | Y | 3.1 |
| 217 | 112103299 | 40 | NOC:Finite Element Modeling of Welding Processes | Y | Y | --- | 7.6 |
| 218 | 112103300 | 36 | NOC:Nonlinear Vibration | Y | Y | --- | 4.7 |
| 219 | 112103301 | 26 | NOC:Evolutionary Computation for Single and Multi Objective Optimization | Y | Y | Y | 4.7 |
| 220 | 112103302 | 44 | NOC:Viscous Fluid Flow | Y | Y | --- | 5.3 |

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

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| 259 | 112108313 | 32 | NOC:Dynamics and Control of Mechanical Systems | Y | Y | Y | 3.5 |
| 260 | 112102316 | 15 | NOC:Ideal Fluid Flows using Complex Analysis | Y | Y | Y | 1.3 |
| 261 | 112103316 | 66 | NOC:Thermal Engineering: Basic and Applied | --- | Y | --- | 12 |
| 262 | 112104316 | 30 | NOC:Advanced Robotics | --- | Y | --- | 3.2 |
| 263 | 112105316 | 40 | NOC:Product Engineering and Design Thinking | Y | Y | Y | 4.7 |
| 264 | 112106316 | 67 | NOC:Inverse Methods in Heat Transfer | Y | Y | --- | 4.7 |
| 265 | 112108316 | 43 | NOC:Optical Methods for Solid and Fluid Mechanics | Y | Y | --- | 3.8 |
| 266 | 112108317 | 59 | NOC:Statistical Thermodynamics for Engineers | Y | Y | Y | 3.6 |
| 267 | 112102318 | 40 | NOC:Experimental Modal Analysis | --- | Y | --- | 5.6 |
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| 270 | 112104319 | 52 | NOC:Social Innovation in Industry 4.0 | Y | Y | Y | 6.2 |
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| 272 | 112105319 | 50 | NOC:Industrial Robotics: Theories for Implementation | Y | Y | Y | 6.3 |
| 273 | 112106318 | 89 | NOC:Sustainable Energy Technology | --- | Y | --- | 8.0 |
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| 275 | 112106320 | 70 | NOC:Engineering Thermodynamics | --- | Y | --- | 7.9 |
| 276 | 112106321 | 61 | NOC:Theory of Fire Propagation (Fire Dynamics) | Y | Y | Y | 8.5 |
| 277 | 112101429 | 73 | NOC:Nonlinear Control Design | Y | Y | --- | 6.0 |
| 278 | 112102428 | 36 | NOC:Data-Enabled Tribological Engineering: From Experiments to Predictive Models | --- | Y | --- | 12 |
| 279 | 112103420 | 21 | NOC:Mechanics of Sheet Metal Forming | Y | Y | Y | 3.2 |
| 280 | 112103421 | 34 | NOC:Power Plant System Engineering | Y | Y | Y | 4.6 |
| 281 | 112103427 | 23 | NOC:Introduction to Solidification Processing | --- | Y | --- | 3.4 |
| 282 | 112104418 | 55 | NOC:Engineering Thermodynamics in Hindi | Y | Y | Y | 4.7 |
| 283 | 112104425 | 33 | NOC:Advanced Machining Processes (2024) | Y | Y | Y | 5.5 |
| 284 | 112105422 | 40 | NOC:Cryogenic Hydrogen Technology | Y | Y | Y | 3.1 |
| 285 | 112105423 | 60 | NOC:Industrial Hydraulics and Automation | --- | Y | --- | 5.5 |
| 286 | 112106419 | 72 | NOC:Applied Thermodynamics (2024) | --- | Y | --- | 8.2 |
| 287 | 112106424 | 34 | NOC:Design of Mechanical Transmission Systems | Y | Y | Y | 5.4 |
| 288 | 112106315 | 41 | Heat Transfer (Dr. C. Balaji) | --- | Y | --- | 6.4 |
| 289 | 112104197 | 96 | Manufacturing Systems Technology - I and II | --- | Y | Y | 15 |
| 290 | 112106322 | 5 | Data-Driven Models for Unsteady Fluid Flow | --- | Y | Y | 1.2 |
| 291 | 112103528 | 50 | NOC:Materials Processing (Casting, Forming and Welding) | --- | Y | --- | 11 |
| 292 | 112104526 | 50 | NOC:Basics of Mechanical Engineering - 1 | --- | Y | --- | 7.3 |
| 293 | 112106453 | 74 | NOC:Turbulence Modeling | Y | Y | --- | 7.6 |
| 294 | 112107539 | 60 | NOC:Mechanics | --- | Y | --- | 6.4 |
| 295 | 112108527 | 61 | NOC:Fundamentals of Acoustics (2024) | --- | Y | --- | 5.6 |

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

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

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|----|---------------------------|----|--|-----|---|-----|-----|
| 74 | 113104104 | 45 | NOC:Mechanical Behaviour of Materials - Part I | --- | Y | Y | 3.4 |
| 75 | 113105104 | 60 | NOC:Bulk Material Transport and Handling Systems | Y | Y | --- | 11 |
| 76 | 113104105 | 27 | NOC:Mechanical Behaviour of Materials - Part II | --- | Y | Y | 2.4 |
| 77 | 113104106 | 39 | NOC:Electronic Properties of the Materials: Computational Approach | --- | Y | --- | 2.4 |
| 78 | 113105105 | 60 | NOC:Environmental Degradation and Surface Engineering | --- | Y | --- | 9.0 |
| 79 | 113105106 | 60 | NOC:Fracture, Fatigue and Failure of Materials | Y | Y | --- | 5.8 |
| 80 | 113105107 | 60 | NOC:Mine Closure and Sustainability Planning | --- | Y | --- | 11 |
| 81 | 113106105 | 60 | NOC:Aluminium based Alloys and Metal Matrix Composites | --- | Y | --- | 3.1 |
| 82 | 113106106 | 26 | NOC:Welding Science and Technology (In Tamil) | --- | Y | --- | 2.9 |
| 83 | 113102108 | 93 | NOC:Crystals, Symmetry and Tensors | Y | Y | --- | 5.6 |
| 84 | 113104108 | 41 | NOC:Corrosion Protection Methods | --- | Y | --- | 4.6 |
| 85 | 113102109 | 35 | NOC:Corrosion/Environmental Degradation/Surface Engineering | --- | Y | --- | 9.6 |
| 86 | 113105109 | 60 | NOC:Fundamentals of Composite and Cellular Materials | --- | Y | --- | 5.9 |
| 87 | 113106109 | 38 | NOC:Thermodynamics and Kinetics of Materials | --- | Y | --- | 7.8 |
| 88 | 113105441 | 60 | NOC:Principles of Extractive Metallurgy | --- | Y | --- | 9.7 |
| 89 | 113104516 | 45 | NOC:Phase Diagrams in Single Component and Binary Systems in Bengali | --- | Y | --- | 7.0 |
| 90 | 113104517 | 78 | NOC:Artificial Intelligence and Machine Learning in Materials Engineering | --- | Y | --- | 10 |
| 91 | 113104529 | 41 | NOC:Metallurgical and Electronic Waste Recycling | Y | Y | --- | 6.4 |
| 92 | 113108515 | 56 | NOC:Materials Design for Electronic, Electromechanical and Optical Functions | --- | Y | --- | 16 |

Discipline : Ocean Engineering

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

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| 15 | 114106033 | 25 | Wave Hydrodynamics | Y | Y | Y | 9.8 |
| 16 | 114106035 | 38 | Ocean Structures and Materials | Y | Y | Y | 12 |
| 17 | 114106036 | 49 | Dynamics of Ocean Structures | Y | Y | Y | 20 |
| 18 | 114106037 | 53 | Advanced Marine Structures | Y | Y | Y | 21 |
| 19 | 114106038 | 47 | NOC:Dynamics of Ocean Structures | Y | Y | Y | 23 |
| 20 | 114106039 | 37 | NOC:Health, Safety and Environmental Management in Offshore and Petroleum Engineering | Y | Y | Y | 8.1 |
| 21 | 114106042 | 55 | NOC:HSE for offshore and petroleum engineers | Y | Y | Y | 24 |
| 22 | 114106041 | 58 | NOC:Risk and Reliability of offshore structures | Y | Y | Y | 25 |
| 23 | 114106043 | 53 | NOC:Offshore Structures Under Special Loads Including Fire Resistance | Y | Y | Y | 33 |
| 24 | 114106045 | 118 | NOC:Computer Methods Of Structural Analysis of Offshore Structures | Y | Y | Y | 103 |
| 25 | 114105044 | 65 | NOC:Water Economics and Governance | Y | Y | Y | 16 |
| 26 | 114106046 | 84 | NOC:Structural Health Monitoring | Y | Y | Y | 67 |
| 27 | 114105047 | 40 | NOC:Marine Propulsion | Y | Y | Y | 3.2 |
| 28 | 114105048 | 60 | NOC:Numerical Ship and Offshore Hydrodynamics | Y | Y | Y | 4.7 |
| 29 | 114106047 | 64 | NOC:Advanced Design of Steel Structures | Y | Y | Y | 7.3 |
| 30 | 114106443 | 73 | NOC:Surface Facilities for Oil and Gas Handling | Y | Y | --- | 6.9 |
| 31 | 114106049 | 7 | Marine Instrumentation - Laboratory | --- | Y | --- | 1.3 |
| 32 | 114106534 | 80 | NOC:Marine Engineering | --- | Y | --- | 15 |
| Discipline : Physics Go to Top | | | | | | | |
| Video Lecture Topics @ http://www.digimat.in/downloads/topics/physics.pdf | | | | | | | |
| 1 | 115101005 | 40 | Electromagnetic Theory (Prof. D.K. Ghosh) | Y | Y | Y | 29 |
| 2 | 115101011 | 24 | Special Theory of Relativity | Y | Y | Y | 22 |
| 3 | 115102014 | 42 | Electronics | Y | Y | Y | 19 |
| 4 | 115102020 | 42 | Fundamentals and Applications | Y | Y | Y | 19 |
| 5 | 115102022 | 42 | Quantum Electronics | Y | Y | Y | 17 |
| 6 | 115102023 | 42 | Quantum Mechanics and Applications | Y | Y | Y | 19 |
| 7 | 115102026 | 46 | Semiconductor Optoelectronics | Y | Y | Y | 32 |
| 8 | 115104043 | 43 | Nuclear Physics: Fundamentals and Applications | Y | Y | Y | 12 |
| 9 | 115104088 | 78 | NOC:Introduction to Electromagnetism | Y | Y | Y | 2.1 |
| 10 | 115105046 | 40 | Astrophysics and Cosmology | Y | Y | Y | 9.7 |
| 11 | 115106057 | 40 | Special / Select Topics in Atomic Physics | Y | Y | Y | 16 |
| 12 | 115106058 | 39 | Classical Field Theory | Y | Y | Y | 17 |
| 13 | 115106059 | 29 | Topics in Nonlinear Dynamics | Y | Y | Y | 15 |
| 14 | 115106061 | 58 | Condensed Matter Physics | Y | Y | Y | 18 |
| 15 | 115106065 | 38 | Quantum Field Theory | Y | Y | Y | 27 |
| 16 | 115106066 | 41 | Quantum Mechanics I | Y | Y | Y | 20 |
| 17 | 115106068 | 40 | Special / Select Topics in Classical Mechanics | Y | Y | Y | 13 |

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

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

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| 92 | 115105134 | 50 | NOC:Physics of Functional Materials and Devices | --- | Y | --- | 5.9 |
| 93 | 115106134 | 34 | NOC:Radio Astronomy | --- | Y | --- | 5.3 |
| 94 | 115107134 | 44 | NOC:Newtonian Mechanics With Examples | Y | Y | Y | 4.9 |
| 95 | 115103444 | 17 | NOC:Quantum Entanglement: Fundamentals, Measures and Applications | Y | Y | Y | 1.5 |
| 96 | 115103445 | 28 | NOC:Topology and Condensed Matter Physics | Y | Y | Y | 3.6 |
| 97 | 115104446 | 73 | NOC:Tapestry of Field theory: Classical and Quantum, Equilibrium and Nonequilibrium Perspectives | Y | Y | Y | 3.1 |
| 98 | 115104448 | 27 | NOC:Coherence and Quantum Entanglement | --- | Y | --- | 1.6 |
| 99 | 115107447 | 62 | NOC:Plasma Physics and Applications | Y | Y | Y | 4.7 |
| 100 | 115105451 | 77 | NOC:Fundamentals of Attosecond Science and Technology (FAST) | --- | Y | --- | 7.6 |
| 101 | 115103538 | 30 | NOC:Statistical Physics of Non-Interacting and Interacting Systems | --- | Y | --- | 6.3 |
| 102 | 115104535 | 58 | NOC:Classical Motion of a Single Particle | --- | Y | --- | 8.7 |
| 103 | 115105537 | 66 | NOC:Wave Optics | --- | Y | --- | 7.8 |
| 104 | 115106536 | 34 | NOC:Foundations of Quantum Theory: Non-Relativistic Approach | --- | Y | --- | 6.1 |

Discipline : Textile Engineering

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

Discipline : Electronics and Communication Engineering

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

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

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

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|-----|---------------------------|----|--|-----|---|-----|-----|
| 78 | 117108142 | 14 | NOC:Photonic Integrated Circuits | Y | Y | Y | 4.7 |
| 79 | 117105140 | 60 | NOC:Power System Analysis | Y | Y | Y | 16 |
| 80 | 117105143 | 60 | NOC:Analog Communication | Y | Y | Y | 16 |
| 81 | 117105144 | 60 | NOC:Modern Digital Communication Techniques | Y | Y | Y | 16 |
| 82 | 117105145 | 44 | NOC:Digital Speech Processing | Y | Y | Y | 12 |
| 83 | 117105147 | 58 | NOC:Analog Circuits and Systems through SPICE Simulation | Y | Y | Y | 21 |
| 84 | 108107107 | 20 | NOC:Basics of Software Defined Radios and Practical Applications | Y | Y | Y | 4.3 |
| 85 | 108106105 | 57 | NOC:Analog IC Design | Y | Y | Y | 42 |
| 86 | 117103148 | 70 | NOC:Design of Power Electronic Converters | Y | Y | Y | 4.0 |
| 87 | 117103149 | 35 | NOC:Operation and Planning of Power Distribution Systems | Y | Y | Y | 6.3 |
| 88 | 117105148 | 58 | NOC:Communication Networks | --- | Y | --- | 5.1 |
| 89 | 117105149 | 60 | NOC:Signal Processing Techniques and its Applications | --- | Y | --- | 6.0 |
| 90 | 117106148 | 63 | NOC:Circuit Analysis for Analog Designers | --- | Y | Y | 5.3 |
| 91 | 117106149 | 94 | NOC:Design and Analysis of VLSI Subsystems | Y | Y | Y | 5.8 |
| 92 | 117107148 | 40 | NOC:Digital Protection of Power System | Y | Y | Y | 4.6 |
| 93 | 117107149 | 60 | NOC:Physics of Nanoscale Devices | Y | Y | Y | 5.3 |
| 94 | 117108148 | 53 | NOC:Neural Science for Engineers | Y | Y | Y | 7.7 |
| 95 | 117103150 | 36 | NOC:Nanophotonics, Plasmonics, and Metamaterials | --- | Y | Y | 5.0 |
| 96 | 117103488 | 36 | NOC:Power Electronics Applications in Power Systems | --- | Y | --- | 8.7 |
| 97 | 117104484 | 60 | NOC:5G Wireless Standard Design | --- | Y | --- | 15 |
| 98 | 117106483 | 63 | NOC:Nonlinear Dynamical Systems and Control | --- | Y | --- | 7.2 |
| 99 | 117107485 | 40 | NOC:Low Voltage CMOS Circuit Operation | --- | Y | --- | 6.3 |
| 100 | 117108486 | 39 | NOC:Analog Circuits and Systems | --- | Y | Y | 6.1 |

Discipline : Nanotechnology

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| | | | | | | | |
|---|---------------------------|----|---|---|---|---|----|
| 1 | 118102003 | 40 | Nano structured materials-synthesis, properties, self assembly and applications | Y | Y | Y | 34 |
| 2 | 118104008 | 45 | Nanostructures and Nanomaterials: Characterization and Properties | Y | Y | Y | 20 |

Discipline : Atmospheric Science

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

| | | | | | | | |
|---|---------------------------|----|-------------------------------------|---|---|---|----|
| 1 | 119106008 | 41 | Introduction to Atmospheric Science | Y | Y | Y | 29 |
| 2 | 119108004 | 38 | Radiation Heat Transfer | Y | Y | Y | 11 |
| 3 | 119108006 | 42 | The monsoon and its variability | Y | Y | Y | 11 |

Discipline : General

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

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

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|----|---------------------------|----|--|-----|---|-----|-----|
| 4 | 121106007 | 48 | NOC:Introduction to Research | Y | Y | Y | 13 |
| 5 | 121106008 | 22 | NOC:Biology for engineers and other non-biologists | Y | Y | Y | 11 |
| 6 | 121105009 | 20 | NOC:Stress Management | Y | Y | Y | 5.5 |
| 7 | 121105010 | 20 | NOC:Outcome Based Pedagogic Principles for Effective Teaching | Y | Y | Y | 5.2 |
| 8 | 121107009 | 20 | NOC:Introduction to Remote Sensing | Y | Y | Y | 5.5 |
| 9 | 121106011 | 22 | NOC:Digital and the Everyday: from Codes to Cloud | Y | Y | Y | 26 |
| 10 | 121106012 | 25 | NOC:Effective Engineering Teaching in Practice | Y | Y | Y | 32 |
| 11 | 121106013 | 90 | NOC:Virtual Reality Engineering | Y | Y | Y | 35 |
| 12 | 121106014 | 40 | NOC:Non-Conventional Energy Resources | Y | Y | Y | 77 |
| 13 | 121101490 | 60 | NOC:Risk-Based Engineering | --- | Y | --- | 6.9 |
| 14 | 121104452 | 54 | NOC:Carbon Accounting and Sustainable Designs in Product Lifecycle Management | --- | Y | --- | 5.5 |
| 15 | 121107451 | 20 | NOC:Technical Communications for Engineers | --- | Y | --- | 8.3 |
| 16 | 121108458 | 62 | NOC:Biomedical Ultrasound: Fundamentals of Imaging and Micromachined Transducers | Y | Y | --- | 11 |

Discipline : Basic Courses (Semester 1 and 2)

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|----|---------------------------|----|---|---|---|---|-----|
| 1 | 122102004 | 16 | Applied mechanics | Y | Y | Y | 4.4 |
| 2 | 122102007 | 39 | Management Science I | Y | Y | Y | 11 |
| 3 | 122102008 | 36 | Materials Science | Y | Y | Y | 15 |
| 4 | 122102009 | 41 | Numerical Methods and Computation | Y | Y | Y | 9.1 |
| 5 | 122104015 | 31 | Engineering Mechanics | Y | Y | Y | 6.8 |
| 6 | 122104016 | 29 | Engineering Physics II | Y | Y | Y | 6.2 |
| 7 | 122104017 | 32 | Mathematics I | Y | Y | Y | 3.4 |
| 8 | 122105020 | 22 | Human Resource Management-I | Y | Y | Y | 4.6 |
| 9 | 122105021 | 13 | Leadership | Y | Y | Y | 2.7 |
| 10 | 122105022 | 29 | Management Information System | Y | Y | Y | 5.8 |
| 11 | 122105023 | 44 | Physics I - Oscillations and Waves | Y | Y | Y | 9.2 |
| 12 | 122105024 | 11 | Strategic Management | Y | Y | Y | 2.3 |
| 13 | 122106025 | 40 | Basic Electronics and Lab | Y | Y | Y | 11 |
| 14 | 122106027 | 38 | Classical Physics | Y | Y | Y | 8.6 |
| 15 | 122106028 | 10 | Engineering Chemistry - I | Y | Y | Y | 2.7 |
| 16 | 122106033 | 38 | Numerical Methods and Programming | Y | Y | Y | 9.8 |
| 17 | 122106034 | 31 | Quantum Physics | Y | Y | Y | 7.2 |
| 18 | 122107035 | 40 | Engineering Physics - I | Y | Y | Y | 24 |
| 19 | 122107036 | 38 | Mathematics - II | Y | Y | Y | 7.5 |
| 20 | 122107037 | 39 | Mathematics - III | Y | Y | Y | 7.7 |
| 21 | 122108038 | 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 | 123105001 | 36 | Fundamentals of Environmental Pollution and Control | Y | Y | Y | 11 |
| 2 | 123105003 | 40 | NOC:Drilling and Blasting Technology | Y | Y | Y | 11 |
| 3 | 123105004 | 20 | NOC:Network Analysis for Mines and Mineral Engineering | Y | Y | Y | 5.3 |
| 4 | 123105005 | 60 | NOC:Mining Machinery | Y | Y | --- | 8.3 |
| 5 | 123105006 | 60 | NOC:Underground Mining of Metalliferous Deposits | Y | Y | Y | 8.1 |
| 6 | 123105007 | 60 | NOC:Surface Mining Technology | Y | Y | Y | 7.4 |
| 7 | 123105442 | 60 | NOC:Mine Automation and Data Analytics | Y | Y | Y | 5.4 |

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

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

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|---|---------------------------|----|---|-----|---|-----|-----|
| 27 | 124105163 | 60 | NOC:Urban Services Planning | Y | Y | --- | 13 |
| 28 | 124107164 | 20 | NOC:Introduction to Interaction Design | Y | Y | Y | 2.1 |
| 29 | 124107165 | 40 | NOC:Understanding and Reducing Ghg Emissions - Focus on Scope 1 and 2 Emission Reduction through Building Design and Construction | --- | Y | --- | 5.8 |
| 30 | 124107338 | 60 | NOC:Research Methodology for Planning and Architectural Studies | --- | Y | --- | 7.8 |
| 31 | 124106454 | 48 | NOC:Architectural Approaches to Decarbonization of Buildings | Y | Y | Y | 9.5 |
| 32 | 124106455 | 48 | NOC:Building Materials as a Cornerstone to Sustainability | Y | Y | Y | 9.0 |
| Discipline : Agriculture | | | | | | | |
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| Video Lecture Topics @ http://www.digimat.in/downloads/topics/agriculture.pdf | | | | | | | |
| 1 | 126104001 | 26 | NOC:Basic Crop Production Practices (BCPP) | --- | Y | --- | 1.9 |
| 2 | 126104002 | 46 | NOC:GIS in Ag-Essentials and Applications (GIS) | Y | Y | Y | 3.9 |
| 3 | 126104003 | 47 | NOC:Integrated Pest Management (IPM) | --- | Y | --- | 5.7 |
| 4 | 126104004 | 49 | NOC:Nutrition, Therapeutics and Health (NM) | Y | Y | --- | 4.7 |
| 5 | 126104005 | 36 | NOC:Weather Forecast in Agriculture and Agro-advisory (WF) | Y | Y | Y | 3.2 |
| 6 | 126104006 | 45 | NOC:ICT Basics | Y | Y | Y | 3.2 |
| 7 | 126105008 | 60 | NOC:Momentum Transfer in Process Engineering | Y | Y | Y | 16 |
| 8 | 126105009 | 60 | NOC:Farm Machinery | Y | Y | Y | 14 |
| 9 | 126105010 | 60 | NOC:Irrigation and Drainage | Y | Y | Y | 17 |
| 10 | 126105011 | 60 | NOC:Fundamentals of Food Process Engineering | Y | Y | Y | 17 |
| 11 | 126105012 | 56 | NOC:Soil and Water Conservation Engineering | Y | Y | Y | 11 |
| 12 | 126105013 | 60 | NOC:Dairy and Food Process and Products Technology | Y | Y | Y | 16 |
| 13 | 126105014 | 40 | NOC:Organic Farming for Sustainable Agricultural Production | Y | Y | Y | 10 |
| 14 | 126105015 | 60 | NOC:Novel Technologies for Food Processing and Shelf Life Extension | Y | Y | Y | 18 |
| 15 | 126105016 | 60 | NOC:Soil Science and Technology | Y | Y | Y | 16 |
| 16 | 126103017 | 31 | NOC:Thermal Processing of Foods | Y | Y | Y | 19 |
| 17 | 126105018 | 60 | NOC:Thermal Operations in Food Process Engineering: Theory and Applications | Y | Y | Y | 16 |
| 18 | 126105019 | 60 | NOC:Micro Irrigation Engineering | Y | Y | Y | 11 |
| 19 | 126105020 | 44 | NOC:Instrumentation and Process Control in Food Industry | --- | Y | --- | 3.4 |
| 20 | 126105021 | 60 | NOC:Machine Learning for Soil and Crop Management | Y | Y | Y | 6.8 |
| 21 | 126103022 | 65 | NOC:Natural Resources Management | --- | Y | --- | 6.8 |
| 22 | 126105022 | 61 | NOC:Advanced Aquaculture Technology | Y | Y | Y | 6.1 |
| 23 | 126105023 | 60 | NOC:Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products | Y | Y | Y | 7.9 |
| 24 | 126105024 | 60 | NOC:Soil Fertility and Fertilizers | Y | Y | Y | 6.0 |
| 25 | 126105025 | 60 | NOC:Cooling Technology: Why and How utilized in Food Processing and Allied Industries | Y | Y | Y | 6.4 |
| 26 | 126105026 | 40 | NOC:Traction Engineering | Y | Y | Y | 2.8 |
| 27 | 126105027 | 60 | NOC:Food Oils and Fats : Chemistry and Technology | Y | Y | Y | 7.5 |

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

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|----|-----------|-----|---|-----|---|-----|-----|
| 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 | 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 | 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 | Y | --- | 2.9 |
| 51 | 127105386 | 18 | NOC:Experimental Robotics | Y | 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 | Y | Y | 3.4 |
| 55 | 127105391 | 60 | NOC:Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis | Y | Y | Y | 6.2 |
| 56 | 127106383 | 40 | NOC:Vulnerability Studies: An Introduction | Y | Y | Y | 5.8 |
| 57 | 127106384 | 23 | NOC:Pulmonary Function Tests - Interpretation and Application in Clinical Practice | Y | Y | Y | 2.0 |
| 58 | 127101530 | 27 | NOC:Intelligent Feedback and Control | Y | Y | --- | 5.2 |
| 59 | 127105531 | 60 | NOC:Thin Film Technology | --- | Y | --- | 11 |
| 60 | 127105532 | 60 | NOC:An Integrated Approach to Common Childhood Diseases and Developmental Disorders in India | --- | Y | --- | 9.3 |

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|---|---------------------------|-----|--|-----|---|-----|-----|
| 61 | 127106533 | 33 | NOC:Making Learning Engaging Through Interactive Games | Y | Y | Y | 7.1 |
| 62 | 127107502 | 40 | NOC:Intellectual Property Portfolio Management | Y | Y | --- | 12 |
| Discipline : Special Lecture Series | | | | | | | |
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| 5 | 130104116 | 60 | NOC:Economics of Banking and Finance Markets | Y | Y | Y | 4.5 |
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| 10 | 130107476 | 40 | NOC:Labour Economics-Theory and Practice | --- | Y | --- | 12 |