Aerospace Engineering

1	101101001	Introduction to Aerospace Propulsion
2	101101002	Jet Aircraft Propulsion
3	101101058	Turbomachinery Aerodynamics
4	101101079	NOC:Introduction to Aerospace Engineering
5	101101083	NOC:Introduction to Aircraft Design
6	101101086	NOC:Introduction to Launch Vehicle Analysis and Design
7	101101087	NOC:Lighter than Air Systems
8	101104005	Aero elasticity
9	101104013	Foundation of Scientific Computing
10	101104015	Instability and Transition of Fluid Flows
11	101104017	Introduction to Helicopter Aerodynamics and Dynamics
12	101104018	Introduction to Propulsion
13	101104019	Jet and Rocket Propulsion
14	101104061	NOC:Introduction to Airplane Performance
15	101104062	NOC:Stability and control of aircraft
16	101104063	NOC:Engineering Thermodynamics
17	101104064	NOC:Aircraft Dynamic Stability and Design Stability
18	101104065	NOC:Introduction to Ancient Indian Technology
19	101104066	NOC:Introduction to Experiments in Flight
20	101104067	NOC:Engineering Thermodynamics (2017)
21	101104069	NOC:Aircraft Design
22	101104070	NOC:Fundamentals Of Combustion-I
23	101104071	NOC:Aircraft Maintenance
24	101104072	NOC:Fundamentals of Combustion - Part 2
25	101104073	NOC:Design of Fixed Wing Unmanned Aerial Vehicles
26	101104074	NOC:Introduction to Finite Volume Methods-I
27	101104075	NOC:Advance Aircraft Maintenance

28	101104076	NOC:Introduction to Finite Volume Methods-II
29	101104078	NOC:Introduction to Rocket Propulsion
30	101104083	NOC:UAV Design - Part II
31	101104084	NOC:Introduction to Airbreathing Propulsion
32	101104086	NOC:Computational Science in Engineering
33	101105024	High Speed Aero Dynamics
34	101105030	Space Flight Mechanics
35	101105059	Introduction to Aerodynamics
36	101105077	NOC:Satellite Attitude Dynamics and Control
37	101105081	NOC:Vibration and Structural Dynamics
38	101105083	NOC:Space Flight Mechanics
39	101105084	NOC:Aircraft Structures - I
40	101105085	NOC:Introduction to CFD
41	101106031	Acoustic Instabilities in Aerospace Propulsion
42	101106033	Aerospace Propulsion
43	101106037	Combustion
44	101106042	Flight Dynamics II (Stability)
45	101106044	Gas Dynamics
46	101106045	Introduction to CFD
47	101106082	NOC:Rocket Propulsion
48	101108047	Advanced Control System Design for Aerospace Vehicles
49	101108057	Optimal Control, Guidance and Estimation
50	101108068	NOC:Combustion in Air Breathing Aero Engines
51	101108086	NOC:Gasdynamics: Fundamentals and Applications
	Biotechnology	
1	102101003	Biomathematics
2	102101007	Proteomics: Principles and Techniques

3	102101049	NOC:Proteins and Gel-Based Proteomics
4	102101050	NOC:Mass spectrometry based proteomics
5	102101054	NOC:Interactomics: Protein Arrays and Label-free Biosensors
6	102101055	NOC:Introduction to Proteomics
7	102101056	NOC:Introduction to Biostatistics
8	102101058	NOC:Introduction to Mechanobiology
9	102101067	NOC:Introductory Mathematical Methods for Biologists
10	102101068	NOC:Bioengineering: An Interface with Biology and Medicine
11	102101072	NOC:Applications of Interactomics using Genomics and Proteomics Technologies
12	102101076	NOC:Introduction to Proteogenomics
13	102101082	NOC:Interactomics: Basics and Applications
14	102102033	Enzyme Science and Engineering
15	102103056	NOC:Introduction to Dynamical Models in Biology
16	102103074	NOC:Genetic Engineering: Theory and Application
17	102103083	NOC:Experimental Biotechnology
18	102103086	NOC:Biointerface Engineering
19	102104042	Animal Physiology
20	102104043	Bio electricity
21	102104052	NOC:Human Molecular Genetics
22	102104056	NOC:Functional Genomics
23	102104057	NOC:Bioenergy
24	102104058	NOC:Animal Physiology
25	102104059	NOC:Cell Culture Technologies
26	102104060	NOC:Forest Biometry
27	102104061	NOC:Introduction to Professional and Scientific Communication
28	102104062	NOC:Bioelectrochemistry
29	102104063	NOC:Bioenergetics of Life Processes
30	102104068	NOC:WildLife Conservation
31	102104069	NOC:Nanotechnology in Agriculture

32	102104073	NOC:Wild Life Ecology
33	102104082	NOC:Forests and their Management
34	102104086	NOC:Conservation Economics
35	102104088	NOC:Conservation Geography
36	102105034	BioChemistry I
37	102105058	NOC:Industrial Biotechnology
38	102105064	NOC:Aspects Of Biochemical Engineering
39	102105068	NOC:Biomicrofluidics
40	102105083	NOC:Immunology
41	102105086	NOC:Metabolic Engineering
42	102105087	NOC:Environmental Chemistry and Microbiology
43	102105088	NOC:Environmental Biotechnology
44	102105089	NOC:Fundamentals of Protein Chemistry
45	102105090	NOC:Introduction to Biomedical Imaging Systems
46	102106022	Downstream Processing
47	102106026	Thermodynamics
48	102106048	NOC:Principles of Downstream Techniques in Bioprocess
49	102106051	NOC:Biostatistics and Design of Experiments
50	102106053	NOC:Bioreactors
51	102106057	NOC:Medical Biomaterials
52	102106065	NOC:BioInformatics - Algorithms and Applications
53	102106066	NOC:Demystifying the Brain
54	102106068	NOC:Computational Systems Biology
55	102106069	NOC:Material and Energy Balances
56	102106070	NOC:Computer Aided Drug Design
57	102106080	NOC:Plant Cell Bioprocessing
58	102106081	NOC:Tissue Engineering
59	102106082	NOC:Thermodynamics for Biological Systems: Classical and Statistical Aspect
60	102106083	NOC:Transport Phenomena in Biological Systems

61	102106084	NOC:Introduction to Developmental Biology
62	102106086	NOC:Bioreactor Design and Analysis
63	102106087	NOC:Biochemistry (IITM)
64	102107028	Analytical Technologies in Biotechnology
65	102107058	NOC:Biomedical Nanotechnology
66	102107075	NOC:Plant Developmental Biology
67	102107086	NOC:Structural Biology
68	102108071	NOC:Learning about Learning: A Course on Neurobiology of Learning and Memory
69	102108077	NOC:Drug Delivery: Principles and Engineering
70	102108078	NOC:Fundamentals of Micro and Nanofabrication
71	102108082	NOC:Optical Spectroscopy and Microscopy: Fundamentals of Optical Measurements and Instrumentation
72	102108086	NOC:Cell Biology: Cellular Organization, Division and Processes
Chemical Engineering		
1	103101001	Advanced Chemical Reaction Engineering (PG)
2	103101003	Advanced Process Control
3	103101008	Chemical Reaction Engineering II
4	103101111	Advanced Numerical Analysis
5	103101127	NOC:Introduction to Evolutionary Dynamics
6	103101137	NOC:Heat Transfer
7	103101141	NOC:Chemical Reaction Engineering-II
8	103101142	NOC:Chemical Process Control
9	103101209	NOC:Introduction to Interfacial Waves
10	103102012	Heterogeneous Catalysis and Catalytic Processes
11	103102016	Interfacial Engineering
12	103103034	Mass Transfer Operations I
13	103103039	Process Design Decisions and Project Economics

14	103103132	NOC:Fluidization Engineering
15	103103133	NOC:An Introduction to Cardiovascular Fluid Mechanics
16	103103134	NOC:Multiphase Microfluidics
17	103103135	NOC:Measurement Technique in Multiphase Flows
18	103103136	NOC:Multiphase Flows
19	103103139	NOC:Introduction to Polymer Physics (IIT-G)
20	103103140	NOC:Natural Gas Engineering
21	103103144	NOC:Chemical Engineering Thermodynamics
22	103103145	NOC:Mass Transfer Operations-I
23	103103146	NOC:Transport Phenomena of Non-Newtonian Fluids
24	103103147	NOC:Fluid Flow Operations
25	103103152	NOC:Chemical Process Intensification
26	103103153	NOC:Chemical Reaction Engineering-I
27	103103154	NOC:Mass Transfer Operations-II
28	103103155	NOC:Mechanical Unit Operations
29	103103162	NOC:Advanced Thermodynamics
30	103103163	NOC:Membrane Technology
31	103103164	NOC:Computer Aided Applied Single Objective Optimization
32	103103165	NOC:Basic Principles and Calculations in Chemical Engineering
33	103103206	NOC:Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems
34	103103207	NOC:Biomass Conversion and Biorefinery
35	103103209	NOC:Aspen Plus® Simulation Software - A basic course for beginners
36	103104044	Fluid Mechanics (Chemical Engineering)
37	103104046	Mass Transfer II
38	103104050	Plantwide Control of Chemical Processes
39	103104129	NOC:Thermodynamics Of Fluid Phase Equilibria
40	103104151	NOC:Chemical Engineering Thermodynamics (2019)
41	103105054	Biochemical Engineering
42	103105057	Microscale Transport Processes

43	103105059	Multiphase Flow
44	103105061	Novel Separation Processes
45	103105064	Process Control and Instrumentation
46	103105066	Instability and Patterning of Thin Polymer Films
47	103105106	Advanced Mathematical Techniques in Chemical Engineering
48	103105121	NOC:Introduction to Process Modeling in Membrane Separation Process
49	103105122	NOC:Soft Nano Technology
50	103105124	NOC:Adiabatic Two-Phase Flow & Flow Boiling in Microchannel
51	103105127	NOC:Phase Equilibrium Thermodynamics
52	103105128	NOC:Transport Phenomena
53	103105130	NOC:Chemical Process Instrumentation
54	103105139	NOC:Optimization in Chemical Engineering
55	103105140	NOC:Heat Transfer (2018)
56	103105160	NOC:Flow through Porous Media
57	103105161	NOC:Fundamentals of Particle and Fluid Solid Processing
58	103105166	NOC:Plant Design and Economics
59	103105209	NOC:Material and Energy Balance Computations
60	103105210	NOC:Principles and Practices of Process Equipment and Plant Design
61	103106070	Chemical Engineering Thermodynamics
62	103106073	Computational Fluid Dynamics
63	103106074	Computational Techniques
64	103106103	Particle Characterization (PG)
65	103106112	Statistics for Experimentalists
66	103106113	Multiphase flows:Analytical solutions and Stability Analysis
67	103106114	NOC:Introduction to Time-Frequency Analysis and Wavelet Transforms
68	103106115	Chemical Engineering Principles of CVD Processes
69	103106116	Chemical Reaction Engineering 1 (Homogeneous Reactors)
70	103106117	Chemical Reaction Engineering 2 (Heterogeneous Reactors)
71	103106118	NOC:MATLAB Programming for Numerical Computation

72	103106119	NOC:Computational Fluid Dynamics (Chemical Engineering)
73	103106120	NOC:Introduction to Statistical Hypothesis Testing
74	103106123	NOC:Applied Time-Series Analysis
75	103106131	NOC:Rheology of Complex Materials
76	103106148	NOC:Process Control - Design, Analysis and Assessment
77	103106149	System Identification
78	103106158	NOC:Fluid and Particle Mechanics
79	103106159	NOC:Continuum Mechanics and Transport Phenomena
80	103106162	NOC:Environmental Quality Monitoring and Analysis
81	103107081	Chemical Technology - I
82	103107093	Process Integration
83	103107123	Mechanical Operations
84	103107125	NOC:Waste to Energy Conversion
85	103107127	NOC:Unit Operations of Particulate Matter
86	103107139	NOC:Introduction to Polymer Physics (IIT-R)
87	103107143	NOC:Equipment Design: Mechanical Aspects
88	103107156	NOC:Chemical Process Safety
89	103107157	NOC:Technologies for Clean and Renewable Energy Production
90	103107206	NOC:Polymer Reaction Engineering
91	103107207	NOC:Process Equipment Design
92	103107208	NOC:Advanced Thermodynamics and Molecular Simulations
93	103108097	Chemical Reaction Engineering
94	103108098	Fundamentals of Transport Processes
95	103108099	Fundamentals of Transport Processes - II
96	103108100	Modern Instrumental Methods of Analysis
97	103108123	NOC:Transport Processes I: Heat and Mass Transfer
98	103108124	NOC:Atomic and Molecular Absorption Spectrometry for Pollution Monitoring
99	103108127	NOC:Trace and Ultra-trace Analysis of Metals using Atomic Absorption Spectrometry
100	103108138	NOC:Inductive Couple Plasma Atomic Emmission Spectrometry for Pollution Monitoring

101	103108139	NOC:Infrared Spectroscopy for Pollution Monitoring
102	103108162	NOC:Electrochemical Technology in Pollution Control
	Chemistry and Biochemistry	
1	104101079	NOC:Organo Metallic Chemistry
2	104101084	NOC:Chemical and Biological Thermodynamics - Principles to Applications
3	104101090	NOC:Chemistry of Main Group Elements
4	104101091	NOC:Transition Metal Organometallic Chemistry - Principles to Applications
5	104101092	NOC:Metal Mediated Synthesis-I
6	104101093	NOC:Inorganic Chemistry of Life: Principles and Perspectives
7	104101094	NOC:Symmetry and Group Theory
8	104101095	NOC:Computational Chemistry and Classical Molecular Dynamics
9	104101099	NOC:Molecular Spectroscopy: A Physical Chemists Perspective
10	104101100	NOC:Advanced Transition Metal Organometallic Chemistry
11	104101115	NOC:Mechanisms in Organic Chemistry
12	104101116	NOC:Metals in Biology
13	104101117	NOC:NMR Spectroscopy for Chemists and Biologists
14	104101121	NOC:Basics in Inorganic Chemistry
15	104101122	NOC:Ultrafast Laser Spectroscopy
16	104101123	NOC:Transition Metal Organometallics in Catalysis and Biology
17	104101124	NOC:Quantum Chemistry of Atoms and Molecules
18	104101125	NOC:Basic Statistical Mechanics
19	104101126	NOC:Quantum Mechanics and Molecular Spectroscopy
20	104101127	NOC:Essentials of Oxidation, Reduction and C_C Bond Formation. Application in Organic Synthesis
21	104101128	NOC:Chemical Kinetics and Transition State Theory
22	104101130	NOC:Concepts of Chemistry for Engineering
23	104102009	Bio-Physical Chemistry

24	104102113	NOC:Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries
25	104102114	NOC:Introductory Non-Linear Dynamics
26	104103110	NOC:Principles of Organic Synthesis
27	104103111	NOC:Reagents in Organic Synthesis
28	104103112	NOC:Thermodynamics: Classical to Statistical
29	104103121	NOC:Essentials of Biomolecules: Nucleic Acids and Peptides
30	104104011	Chemistry of Materials
31	104104026	Mathematics for Chemistry
32	104104066	Advance Analytical Course
33	104104080	NOC:Chemical Applications of Symmetry and Group Theory
34	104104081	NOC:Mathematics for Chemistry
35	104104082	NOC:Quantum Computing
36	104104084	NOC:Basics of Fluroscence Spectroscopy
37	104104085	NOC:Laser - Fundamentals and Applications
38	104104086	NOC:Advanced Mathematical Methods for Chemistry
39	104104101	NOC:Solid State Chemistry
40	104104109	NOC:Bioinorganic Chemistry
41	104104130	NOC:Chemistry and Physics of Surfaces and Interfaces
42	104105031	Bio-inorganic chemistry
43	104105033	Co-ordination Chemistry (Chemistry of Transition Elements)
44	104105034	Heterocyclic Chemistry
45	104105038	Organic Photochemistry and Pericyclic Reactions
46	104105039	Polymer Chemistry
47	104105041	Rate processes
48	104105076	NOC:Biochemistry
49	104105084	NOC:Analytical Chemistry
50	104105086	NOC:Stereochemistry
51	104105087	NOC:A Study Guide in Organic Retrosynthesis - Problem Solving Approach
52	104105088	NOC:Introduction to Molecular Thermodynamics

53	104105093	NOC:Molecules in Motion
54	104105102	NOC:Experimental Biochemistry
55	104105103	NOC:Industrial Inorganic Chemistry
56	104105104	NOC:Reactive Intermediates Carbene and Nitrene
57	104105120	NOC:Organic Chemistry in Biology and Drug Development
58	104105124	NOC:Introduction to Polymer Science
59	104105127	NOC:Structure, Stereochemistry and Reactivity of Organic Compounds and Intermediates: A Problem Solving Approach
60	104105128	NOC:Approximate Methods in Quantum Chemistry
61	104105130	NOC:Biological Inorganic Chemistry
62	104106048	Principles and Application of Electron Paramagnetic Resonance
63	104106072	NOC:Chemistry-I
64	104106074	NOC:Chemistry-II
65	104106075	NOC:Application of Spectroscopic Methods in Molecular Structure Determination
66	104106077	NOC:Pericyclic Reactions and Organic Photochemistry
67	104106083	NOC:Chemistry I:Introduction To Quantum Chemistry And Molecular Spectroscopy
68	104106089	NOC:Introduction to Chemical Thermodynamics and Kinetics
69	104106093	NOC:Chemical Crystallography
70	104106094	NOC:Advanced Chemical Thermodynamics and Kinetics
71	104106096	NOC:Chemistry: Atomic Structure and Chemical Bonding
72	104106105	NOC:Electrochemical Impedance Spectroscopy
73	104106106	NOC:Medicinal Chemistry
74	104106107	NOC:Chemical Principles-II
75	104106108	Organic Chemistry Lab Certification
76	104106119	NOC:Introductory Organic Chemistry-I
77	104106121	NOC:Quantitative Methods in Chemistry
78	104106122	NOC:Fundamentals of Spectroscopy
79	104106127	NOC:Symmetry, Stereochemistry and Applications
80	104106128	NOC:Symmetry and Group Theory (2021)

81	104106131	NOC:Introductory Organic Chemistry - II
82	104108055	Essentials in Immunolgy
83	104108056	Eukaryotic Gene Expression - basics and benefits
84	104108057	Introductory Quantum Chemistry
85	104108062	Introduction to Organometallic Chemistry
86	104108078	NOC:Principles and Applications of NMR Spectroscopy
87	104108097	NOC:Multidimensional NMR Spectroscopy for Structural Studies of Biomolecules
88	104108098	NOC:Symmetry and Structure in the Solid State
89	104108118	NOC:Ultrafast Optics and Spectroscopy
90	104108124	NOC:One and two dimensional NMR Spectroscopy for Chemists

Civil Engineering

1	105101001	Advanced Geotechnical Engineering
2	105101005	Soil Dynamics
3	105101006	Structural Dynamics
4	105101010	Watershed Management
5	105101082	Fluid Mechanics (Civil Engineering)
6	105101084	Soil Mechanics
7	105101086	Structural Analysis II
8	105101134	Geotechnical Earthquake Engineering
9	105101143	Geosynthetics Engineering: In Theory and Practice
10	105101160	NOC:Geotechnical Engineering Laboratory
11	105101176	NOC:Geosynthetics Testing Laboratory
12	105101196	NOC:Environmental Geotechnics
13	105101200	NOC:Environmental Geomechanics
14	105101201	NOC:Geotechnical Engineering - 1
15	105101206	NOC:Remote Sensing: Principles and Applications
16	105101209	NOC:Dynamics of Structures

17	105102012	Concrete Technology
18	105102016	Seismic Analysis of Structures
19	105102088	Building materials and Construction
20	105102159	Water Management
21	105102160	NOC:Geoenvironmental Engineering (Environmental Geotechnology) Landfills, Slurry Ponds and Contaminated Sites
22	105102175	NOC:Energy Efficiency, Acoustics and Daylighting in Building
23	105102176	NOC:Fire Protection, Services and Maintenance Management of Building
24	105102195	NOC:Sustainable Materials and Green Buildings
25	105102199	NOC:Scheduling Techniques in Projects
26	105102206	NOC:Safety in Construction
27	105103021	Advanced Hydraulics
28	105103094	Design of Steel Structures
29	105103096	Hydraulics
30	105103176	NOC:Higher Surveying
31	105103177	NOC:Unsaturated Soil Mechanics
32	105103182	NOC:Subsurface Exploration: Importance and Techniques Involved
33	105103192	NOC:Fluid Mechanics
34	105103193	NOC:Remote Sensing and GIS
35	105103204	NOC:River Engineering
36	105103205	NOC:Municipal Solid Waste Management
37	105103206	NOC:Construction Methods and Equipment Management
38	105103207	NOC:Advanced Soil Mechanics
39	105103209	NOC:Plates and Shells
40	105103210	NOC:Optimization methods for Civil engineering
41	105104029	Advanced Hydrology
42	105104030	Concrete Engineering and Technology
43	105104099	Environmental Air Pollution
44	105104101	Surveying

45	105104103	Water Resources Engineering
46	105104131	Geotechnical Measurements and Explorations
47	105104135	Application of Soil Mechanics
48	105104147	NOC:Geology and Soil Mechanics
49	105104148	NOC:Engineering Graphics
50	105104152	NOC:Earth Sciences for Civil Engineering
51	105104156	NOC:Earth Sciences for Civil Engineering - Part 2
52	105104157	NOC:Hydration, Porosity and Strength of Cementitious Materials
53	105104160	NOC:Mechanics of Solids
54	105104161	NOC:Principles of Construction Management
55	105104162	NOC:Foundation Design
56	105104167	NOC:Photogeology In Terrain Evaluation
57	105104177	NOC:Photogeology In Terrain Evaluation - Part 2
58	105104178	NOC:Introduction to Accounting and Finance for Civil Engineers
59	105104183	NOC:Natural Hazards - Part 1
60	105104189	NOC:Structural Dynamics for Civil Engineers - SDOF Systems
61	105104190	NOC:Geomorphic Processes: Landforms and Landscapes
62	105104191	NOC:Structural Geology
63	105104200	NOC:Earthquake Geology: A tool for Seismic Hazard Assessment
64	105104206	NOC:Development and Applications of Special Concretes
65	105105039	Advanced Foundation Engineering
66	105105042	Ground Water Hydrology
67	105105043	Numerical Methods in Civil Engineering
68	105105045	Probability Methods in Civil Engineering
69	105105105	Design of Reinforced Concrete Structures
70	105105106	Engineering Geology
71	105105107	Introduction to Transportation Engineering
72	105105108	Strength of Materials (Civil Engineering)
73	105105150	NOC:Probability Methods in Civil Engineering

74	105105156	NOC:Visual Semiotics for Visual Communication
75	105105157	NOC:Life Cycle Assessment
76	105105160	NOC:Integrated Waste Management for a Smart City
77	105105161	NOC:Computational Hydraulics
78	105105162	NOC:Design of Steel Structures
79	105105165	NOC:Reinforced Concrete Road Bridges
80	105105166	NOC:Structural Analysis - I
81	105105168	NOC:Soil Mechanics, Geotechnical Engineering-I
82	105105169	NOC:Electronic Waste Management - Issues and Challenges
83	105105170	NOC:Mineral Resources - Geology, Exploration, Economics and Environment
84	105105171	NOC:Introduction to Mineral Processing
85	105105176	NOC:Foundation Engineering
86	105105177	NOC:Theory of Elasticity
87	105105178	NOC:Wastewater Treatment and Recycling
88	105105179	NOC:Fluid Inclusion in Mineral Principles, Methodology, Practice and Application
89	105105180	NOC:Matrix Method of Structural Analysis
90	105105184	NOC:Plastic Waste Management
91	105105185	NOC:Geotechnical Engineering-II Foundation Engineering
92	105105186	NOC:Mass, Momentum and Energy Balances in Engineering Analysis
93	105105200	NOC:Soil Structure Interaction
94	105105201	NOC:Water Supply Engineering
95	105105202	NOC:Geo Spatial Analysis in Urban Planning
96	105105203	NOC:Hydraulic Engineering
97	105105204	NOC:Introduction to Multimodal Urban Transportation Systems
98	105105207	NOC:Advanced Foundation Engineering
99	105105208	NOC:Urban Transport Systems Planning
100	105105209	NOC:Structural Reliability
101	105105210	NOC:Ground Improvement
102	105105211	NOC:Remote Sensing of Leaf Area Index and Primary Productivity

103	105105212	NOC:Rock Mechanics and Tunneling
104	105106050	Advanced Structural Analysis
105	105106051	Finite Element Analysis
106	105106052	Geosynthetics and Reinforced Soil Structures
107	105106053	Modern Construction Materials
108	105106058	Urban transportation planning
109	105106116	Mechanics of Solids
110	105106118	Pre-stressed Concrete Structures
111	105106119	Water and Waste Water Engineering
112	105106145	NOC:Sustainable River Basin Management
113	105106149	NOC:Project Planning and Control
114	105106151	NOC:Structural Dynamics
115	105106172	NOC:Mechanics of Materials
116	105106176	NOC:Advanced Concrete Technology
117	105106177	NOC:Glass in Buildings: Design and Application
118	105106178	NOC:Glass Processing Technology
119	105106187	NOC:Advanced Topics in the Science and Technology of Concrete
120	105106188	NOC:Infrastructure Planning and Managements
121	105106197	NOC:Design of Masonry Structures
122	105106200	NOC:Characterization of Construction Materials
123	105106201	NOC:Introduction to Civil Engineering Profession
124	105106202	NOC:Maintenance and Repair of Concrete Structures
125	105106203	NOC:Mechanical Characterization of Bituminous Materials
126	105106204	NOC:Colloids and Surfaces
127	105106205	NOC:Polymers: Concepts, Properties, Uses and Sustainability
128	105106206	NOC:Basic Construction Materials
129	105107120	Foundation Engineering
130	105107121	Modern Surveying Techniques
131	105107123	Transportation Engineering II

132	105107155	NOC:Introduction to Geographic Information Systems
133	105107156	NOC:Principles and Applications of Building Science
134	105107157	NOC:GPS Surveying
135	105107158	NOC:Digital Land Surveying And Mapping
136	105107160	NOC:Digital Image Processing of Remote Sensing Data
137	105107173	NOC:Applied Environmental Microbiology
138	105107174	NOC:Digital Elevation Models and Applications
139	105107176	NOC:Environmental Engineering-Chemical Processes
140	105107181	NOC:Environmental Remediation of Contaminated Sites
141	105107194	NOC:Global Navigation Satellite Systems and Applications
142	105107200	NOC:Geomorphology
143	105107201	NOC:Remote Sensing Essentials
144	105107204	NOC:Earthquake Resistant Design of Foundations
145	105107206	NOC:Geographic Information Systems
146	105107207	NOC:Water and Waste Water Treatment
147	105107208	NOC:Rock Engineering
148	105107209	NOC:Finite Element Method and Computational Structural Dynamics
149	105107210	NOC:Sustainable Transportation systems
150	105108075	Ground Improvement Techniques
151	105108079	Stochastic Hydrology
152	105108080	Stochastic Structural Dynamics
153	105108130	Water Resources Systems : Modeling Techniques and Analysis
154	105108141	Finite Element method for vibration and Stability analyses
155	105108204	NOC:Introduction to Engineering Seismology
Computer Science and Engineering		
1	106101007	Natural Language Processing
2	106101060	Design and Analysis of Algorithms

3	106101061	Software Engineering
4	106101163	NOC:Software Testing (2017)
5	106101182	NOC:Design and Pedagogy of the Introductory Programming Course
6	106101208	NOC:An Introduction to Programming through C++
7	106101209	NOC:Demystifying Networking
8	106101224	NOC:Learning Analytics Tools
9	106102011	Computational Geometry
10	106102013	Logic for CS
11	106102062	Computer Architecture (Prof. Anshul Kumar)
12	106102064	Data Structures And Algorithms
13	106102065	Introduction to Computer Graphics
14	106102067	Principles of Programming Languages
15	106102114	Parallel Computing
16	106102132	Operating Systems
17	106102157	NOC:Computer Architecture (2017)
18	106102163	NOC:Introduction to Parallel Programming in OpenMP
19	106102181	NOC:Synthesis of Digital Systems
20	106102220	NOC:An Introduction to Artificial Intelligence
21	106102229	NOC:Advanced Computer Architecture (2021)
22	106103116	Design Verification and Test of Digital VLSI Circuits
23	106103180	NOC:Computer Organization and Architecture - A Pedagogical Aspect
24	106103182	NOC:Embedded Systems-Design Verification and Test
25	106103183	NOC:Multi-Core Computer Architecture-Storage and Interconnects
26	106103187	NOC:Randomized Algorithms
27	106103188	NOC:Parallel Algorithms
28	106103205	NOC:Discrete Mathematics (Prof. Sajith Gopalan)
29	106103206	NOC:Advanced Computer Architecture
30	106103220	NOC:User-centric Computing for Human-Computer Interaction
31	106103224	NOC:Computer Graphics

32	106103229	NOC:C-Based VLSI Design
33	106104019	Computer Algorithms - 2
34	106104028	Theory of Computation
35	106104074	Introduction to Problem Solving and Programming
36	106104118	Riemann Hypothesis and its Applications
37	106104119	Biometrics
38	106104120	Parallel Algorithm
39	106104122	Computer Architecture (Dr. Mainak Chaudhuri)
40	106104123	Compiler Design (Prof. Sanjeev K Aggarwal)
41	106104128	NOC : Introduction to programming in C
42	106104135	NOC:Fundamentals of Database Systems
43	106104148	NOC:Theory of Computation
44	106104149	NOC:Modern Algebra
45	106104170	NOC:Advanced Graph Theory
46	106104182	NOC:Cloud Computing and Distributed Systems
47	106104189	NOC:Big Data Computing
48	106104220	NOC:Introduction to Blockchain Technology and Applications
49	106104221	NOC:Arithmetic Circuit Complexity
50	106104227	NOC:Computational Complexity Theory
51	106104228	NOC:Randomized Methods in Complexity
52	106104233	NOC:Probability for Computer Science
53	106105031	Cryptography and Network Security
54	106105033	High Performance Computer Architecture
55	106105034	Low Power VLSI Circuits and Systems
56	106105036	Real Time Systems
57	106105077	Artificial Intelligence (Prof. Anupam Basu)
58	106105079	Artificial Intelligence (Prof. P. Dasgupta)
59	106105081	Computer Networks
60	106105082	Data Communication

61	106105083	Electronic Design Automation
62	106105084	Internet Technology
63	106105085	Programming and Data Structure
64	106105150	NOC:Software Testing
65	106105151	NOC:Programming in C++
66	106105152	NOC:Introduction to Machine Learning
67	106105153	NOC:Object-Oriented Analysis and Design
68	106105154	NOC:Complex Network : Theory and Application
69	106105157	Fundamental Algorithms:Design and Analysis
70	106105158	NOC:Natural Language Processing
71	106105159	NOC:Embedded Systems Design
72	106105160	NOC:Wireless Ad Hoc and Sensor Networks
73	106105161	NOC:VLSI Physical Design
74	106105162	NOC:Internetwork Security
75	106105163	NOC:Computer Architecture and Organization
76	106105164	NOC:Introduction to Algorithms and Analysis
77	106105165	NOC:Hardware Modeling using Verilog
78	106105166	NOC:Introduction to Internet of Things
79	106105167	NOC:Cloud Computing
80	106105171	NOC:Problem Solving through Programming in C
81	106105172	NOC:Real Time Operating System
82	106105173	NOC:Introduction to Soft Computing
83	106105174	NOC:Data Mining
84	106105175	NOC:Data Base Management System
85	106105182	NOC:Software Engineering
86	106105183	NOC:Computer Networks and Internet Protocol
87	106105184	NOC:Blockchain Architecture Design and Use Cases
88	106105185	NOC:Switching Circuits and Logic Design
89	106105186	NOC:Scalable Data Science

90	106105190	NOC:Compiler Design
91	106105191	NOC:Programming in Java
92	106105192	NOC:Discrete Structures
93	106105193	NOC:Embedded System Design with ARM
94	106105194	NOC:Hardware Security
95	106105195	NOC:Introduction to Industry 4.0 and Industrial Internet of Things
96	106105196	NOC:Introduction to Automata, Languages and Computation
97	106105214	NOC:Operating System Fundamentals
98	106105215	NOC:Deep Learning (Prof. P.K. Biswas)
99	106105216	NOC:Computer Vision
100	106105217	NOC:Ethical Hacking
101	106105218	NOC:Software Project Management
102	106105219	NOC:Spatial Informatics
103	106105220	NOC:GPU Architectures and Programming
104	106105223	NOC:Google Cloud Computing Foundation Course
105	106105224	NOC:Object Oriented System Development using UML, Java and Patterns
106	106105225	NOC:Data Structure and Algorithms using Java
107	106105229	NOC:Real-Time Systems
108	106105230	NOC:Algorithms for Protein Modelling and Engineering
109	106106046	Pattern Recognition (Computer Science)
110	106106048	Performance Evaluation of Computer Systems
111	106106049	Theory of Automata, Formal Languages and Computation
112	106106090	Computer Graphics
113	106106092	Computer Organization
114	106106093	Database Design
115	106106094	Discrete Mathematical Structures
116	106106126	Artificial Intelligence (Prof. Deepak Khemani)
117	106106127	NOC:Programming, Data Structures and Algorithms
118	106106129	NOC:Introduction to Information Security I

119	106106130	NOC:Programming and Data structures (PDS)
120	106106131	NOC:Design and Analysis of Algorithms
121	106106133	NOC:Programming, Data Structures and Algorithms (Aricent)
122	106106134	NOC:Computer Architecture
123	106106136	NOC:Model Checking
124	106106137	NOC:Functional Programming in Haskell
125	106106138	Virtual Reality
126	106106139	NOC:Introduction to Machine Learning (Sponsored by Arihant)
127	106106140	NOC:Artificial Intelligence - Knowledge Representation and Reasoning
128	106106141	NOC:Information Security - II
129	106106142	NOC:Algorithms for Big Data
130	106106143	NOC:Reinforcement Learning
131	106106144	NOC:Introduction to Operating Systems
132	106106145	NOC:Programming, Data Structures and Algorithms in Python
133	106106146	NOC:Privacy and Security in Online Social Networks
134	106106147	NOC:Mobile Computing
135	106106156	NOC:Introduction to Modern Application Development
136	106106157	NOC:Information Security-3
137	106106158	NOC:AI:Constraint Satisfaction
138	106106166	NOC:Computer Organization
139	106106167	NOC:Introduction to Wireless and Cellular Communications
140	106106168	NOC:Distributed Systems
141	106106169	NOC:Social Networks
142	106106176	NOC:An Introduction to Probability in Computing
143	106106177	NOC:Introduction to Human Computer Interaction
144	106106178	NOC:Information Security-IV
145	106106179	NOC:Data Science for Engineers
146	106106182	NOC:The Joy of Computing using Python
147	106106183	NOC:Discrete Mathematics (Computer Science)

148	106106184	NOC:Deep Learning
149	106106197	NOC:Foundations to Computer Systems Design
150	106106198	NOC:Machine Learning for Engineering and Science Applications
151	106106199	NOC:Information Security 5 - Secure Systems Engineering
152	106106200	NOC:Multimodal Interaction
153	106106201	NOC:Deep Learning - Part 2
154	106106202	NOC:Machine Learning
155	106106210	NOC:C Programming and Assembly Language
156	106106211	NOC:Applied Natural Language Processing
157	106106212	NOC:Python for Data Science
158	106106213	NOC:Practical Machine Learning with Tensorflow
159	106106220	NOC:Introduction to Database Systems
160	106106221	NOC:Foundations of Cryptography
161	106106222	NOC:Modern Application Development
162	106106224	NOC:Deep Learning for Computer Vision
163	106106226	NOC:Artificial Intelligence Search Methods For Problem Solving
164	106106229	NOC:Computational Complexity
165	106106230	NOC:Parameterized Algorithms
166	106106231	NOC:Getting Started with Competitive Programming
167	106106232	NOC:Introduction to Quantum Computing: Quantum Algorithms and Qiskit
168	106107155	NOC:Introduction to Cryptology
169	106107220	NOC:Data Analytics with Python
170	106108051	Combinatorics
171	106108052	Compiler Design (Prof. Y.N. Srikanth)
172	106108054	Graph Theory
173	106108055	High Performance Computing
174	106108056	Numerical Optimization
175	106108058	Storage Systems
176	106108102	System Analysis and Design

177	106108113	Principles of Compiler Design
178	106108227	NOC:Discrete Mathematics (IIITB)
179	106108229	NOC:Secure Computation: Part I

Engineering Design

1	107101086	NOC:Innovation by Design
2	107101087	NOC:Understanding Design
3	107101088	NOC:Design, Technology and Innovation
4	107101091	NOC:Understanding Ethnography
5	107103004	Ergonomics for beginners: Industrial design perspective
6	107103081	NOC:System Design for Sustainability
7	107103082	NOC:Product Design and Innovation
8	107103083	NOC:Interaction Design
9	107103084	NOC:Ergonomics in Automotive Design
10	107103085	NOC:Ergonomics Workplace Analysis
11	107105088	NOC:Geographic Information System
12	107106009	Principles of Engineering System Design
13	107106080	Vehicle Dynamics
14	107106081	NOC:Control Systems
15	107106088	NOC:Fundamentals of Automotive Systems
16	107106089	NOC:Functional and Conceptual Design
17	107106090	NOC:Introduction to Robotics (Engineering Design)

Electrical Engineering

1	108101002	Nonlinear Dynamical Systems
2	108101004	Power System Dynamics and Control
3	108101037	Control Engineering (Prof. S.D. Agashe)

4	108101038	Power Electronics
5	108101089	Fabrication of Silicon VLSI Circuits using the MOS technology
6	108101090	NOC:Computational Electromagnetics and Applications
7	108101091	NOC:Basic Electronics
8	108101092	NOC:Antennas
9	108101093	NOC:Fundamentals of Wavelets, Filter Banks and Time Frequency Analysis
10	108101094	NOC:Analog Circuits (2017)
11	108101112	NOC:Microwave Theory and Techniques
12	108101113	NOC:Principles of Digital Communications
13	108101126	NOC:Fundamental of Power Electronics
14	108101167	NOC:Electrical Equipment and Machines: Finite Element Analysis
15	108101174	NOC:Digital Signal Processing and its Applications
16	108102042	Circuit Theory
17	108102043	Control Engineering (Prof. M. Gopal)
18	108102045	Embedded Systems
19	108102047	Power System Generation, Transmission and Distribution (Encapsulated from earlier Video)
20	108102080	Power System Dynamics
21	108102095	Analog Electronic Circuits
22	108102096	Digital Communication (EEE)
23	108102097	Introduction To Electronic Circuits
24	108102112	NOC:Analog Electronic Circuit
25	108102113	NOC:Nonlinear and Adaptive Control
26	108102117	NOC:Information Theory, Coding and Cryptography
27	108102119	Engineering Electromagnetics
28	108102120	NOC:Principles of Digital Communications (2018)
29	108102121	NOC:Electric Vehicles - Part 1
30	108102145	NOC:Power Electronics
31	108102146	NOC:Electrical Machines
32	108102156	Special Electromechanical Systems

33	108102157	NOC:High Power Multilevel Converters - Analysis, Design and Operational Issues
34	108102169	NOC:Introduction to Embedded System Design
35	108102179	NOC:Power Quality
36	108103007	Advanced Control Systems
37	108103108	NOC:Optimization Techniques for Digital VLSI Design
38	108103112	NOC:Advanced Topics in Probability and Random Processes
39	108103141	NOC:Microwave Engineering
40	108103157	NOC:Microprocessors and Interfacing
41	108103158	NOC:Statistical Signal Processing
42	108103174	NOC:Computer Vision and Image Processing - Fundamentals and Applications
43	108103179	NOC:System Design through VERILOG
44	108104011	Advanced Electric Drives
45	108104013	High Voltage DC Transmission
46	108104049	Intelligent Systems and Control
47	108104052	Power Systems Operation and Control
48	108104087	NOC:Electromagnetic theory
49	108104091	NOC:Principles of Communication - Part 1
50	108104092	NOC:An Introduction to Coding Theory
51	108104098	NOC:Principles of Communication Systems - Part II
52	108104099	NOC:Applied Engineering Electromagnetics
53	108104100	NOC:Principles of Signals and Systems
54	108104112	NOC:Applied Optimization for Wireless, Machine Learning, Big Data
55	108104113	NOC:Fiber-Optic Communication Systems and Techniques
56	108104130	NOC:Electromagnetic Waves in Guided and Wireless Media
57	108104139	NOC:Basic Electric Circuits
58	108104140	NOC:Fundamentals of Electric Drives
59	108104157	NOC:Fuzzy Sets, Logic and Systems and Applications
60	108104167	NOC:Peer to Peer Networks
61	108104174	NOC:Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning

62	108105017	Electrical Machines I
63	108105019	Optimal Control
64	108105054	Chaos, Fractals and Dynamic Systems
65	108105055	Digital Signal Processing (EEE)
66	108105056	Dynamics of Physical Systems
67	108105058	Energy Resources and Technology
68	108105059	Estimation of Signals and Systems
69	108105060	Illumination Engineering
70	108105062	Industrial Automation and Control
71	108105064	Industrial Instrumentation
72	108105065	Networks Signals and Systems
73	108105067	Power System Analysis
74	108105088	NOC:Industrial Automation and Control
75	108105091	NOC:Medical Image Analysis
76	108105101	NOC:Biomedical Signal Processing
77	108105102	NOC:Microprocessors and Microcontrollers
78	108105103	NOC:Deep Learning For Visual Computing
79	108105104	NOC:Power System Engineering
80	108105112	NOC:Fundamentals of Electrical Engineering
81	108105113	NOC:Digital Circuits
82	108105114	NOC:Analysis and Design Principles of Microwave Antennas
83	108105118	NOC:Architectural Design of Digital Integrated Circuits
84	108105131	NOC:Electrical Machines-II
85	108105132	NOC:Digital Electronic Circuits
86	108105133	NOC:Power System Dynamics, Control and Monitoring
87	108105134	NOC:Evolution of Air Interface towards 5G
88	108105153	NOC:Electrical Measurement and Electronic Instruments
89	108105154	NOC:Principles and Techniques of Modern Radar Systems
90	108105155	NOC:Electrical Machines-I

91	108105157	NOC:VLSI Signal Processing
92	108105158	NOC:Analog Electronic Circuits
93	108105159	NOC:Network Analysis
94	108105167	NOC:Power System Protection
95	108105179	NOC:Signal Processing for mm Wave communication for 5G and beyond
96	108105180	NOC:Control and Tuning Methods in Switched Mode Power Converters
97	108105181	NOC:Advanced Microwave Guided-Structures and Analysis
98	108106023	Modelling and Analysis of Electric Machines
99	108106068	Analog ICs
100	108106069	Digital Integrated Circuits
101	108106073	Electromagnetic Fields
102	108106075	Networks and Systems
103	108106083	Probability Foundation for Electrical Engineers
104	108106084	NOC:Analog Circuits
105	108106085	NOC:Introduction to Non Linear Dynamics
106	108106098	NOC:Control Engineering
107	108106105	NOC:Analog IC Design
108	108106106	NOC:Probability Foundations for Electrical Engineers
109	108106135	NOC:Introduction to Photonics
110	108106136	NOC:Multirate DSP
111	108106137	NOC:LDPC and Polar Codes in 5G Standard
112	108106138	NOC:Electromagnetic Compatibility, EMC
113	108106149	NOC:Mapping Signal Processing Algorithms to Architectures
114	108106150	NOC:Linear System Theory
115	108106151	NOC:Digital Signal Processing
116	108106152	NOC:Computational Electromagnetics
117	108106157	NOC:Transmission Lines and Electromagnetic Waves
118	108106158	NOC:Digital IC Design
119	108106159	NOC:Power Management Integrated Circuits

120	108106160	NOC:DC Power Transmission Systems
121	108106161	NOC:Optical Engineering
122	108106162	NOC:Nonlinear System Analysis
123	108106163	NOC:Signals and Systems
124	108106164	NOC:Linear Dynamical Systems
125	108106165	NOC:A brief Introduction of Micro-Sensors
126	108106167	NOC:Fiber Optic Communication Technology
127	108106168	NOC:Image Signal Processing
128	108106170	NOC:Fundamentals of Electric Vehicles: Technology and Economics
129	108106171	NOC:Applied Linear Algebra
130	108106172	NOC:Basic Electrical Circuits (EEE)
131	108106173	NOC:Optical Fiber Sensors
132	108106174	NOC:Introduction to Time - Varying Electrical Networks
133	108106177	NOC:Digital System Design
134	108106179	NOC:Stochastic Modeling and the Theory of Queues
135	108106180	NOC:Integrated Photonics Devices and Circuits
136	108106181	NOC:Introduction to Semiconductor Devices
137	108106182	NOC:Electric Vehicles and Renewable Energy
138	108107098	NOC:Optimal Control
139	108107107	NOC:Basics of Software Defined Radios and Practical Applications
140	108107112	NOC:Electrical Distribution System Analysis
141	108107113	NOC:Introduction to Smart Grid
142	108107114	NOC:Facts Devices
143	108107115	NOC:Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink
144	108107127	NOC:Computer Aided Power System Analysis
145	108107128	NOC:Advance Power Electronics and Control
146	108107129	NOC:CMOS Digital VLSI Design
147	108107142	NOC:Microelectronics: Devices to Circuits

148	108107143	NOC:DC Microgrid
149	108107157	NOC:Power Quality Improvement Technique
150	108107167	NOC:Power System Protection and Switchgear
151	108108031	An Introduction to Electronics Systems Packaging
152	108108034	Power Electronics and Distributed Generation
153	108108035	Pulse width Modulation for Power Electronic Converters
154	108108036	Switched Mode Power Conversion
155	108108076	Basic Electrical Technology
156	108108077	Industrial Drives - Power Electronics
157	108108098	NOC:Design for Internet of Things
158	108108099	NOC:Advances in UHV Transmission and Distribution
159	108108109	NOC:Mathematical Methods and Techniques in Signal Processing
160	108108110	NOC:Electronics Enclosures Thermal Issues
161	108108111	NOC:Integrated Circuits, MOSFETs, Op-Amps and their Applications
162	108108112	NOC:Semiconductor Devices and Circuits
163	108108113	NOC:Fabrication Techniques for MEMs-based Sensors: Clinical Perspective
164	108108114	NOC:Op-Amp Practical Applications: Design, Simulation and Implementation
165	108108115	NOC:Physical Modelling for Electronics Enclosures using Rapid prototyping
166	108108116	NOC:Recent Advances in Transmission Insulators
167	108108122	NOC:Fundamentals of Semiconductor Devices
168	108108123	NOC:Advanced IOT Applications
169	108108124	NOC:Electronic Systems for Cancer Diagnosis
170	108108125	NOC:Electronic Modules for Industrial Applications using Op-Amps
171	108108147	NOC:Sensors and Actuators
172	108108148	NOC:Neural Networks for Signal Processing-I
173	108108157	NOC:Electronics Equipment Integration and Prototype Building
174	108108166	NOC:Design and Simulation of Power Conversion using Open Source Tools
175	108108167	NOC:Introductory Neuroscience and Neuro-Instrumentation
176	108108168	NOC:Information Theory

177	108108174	NOC:Photonic Integrated Circuit
178	108108179	NOC:Design for Internet of Things (2021)
179	108108180	NOC:Mathematical Aspects of Biomedical Electronic System Design
180	108108181	NOC:Concentration Inequalities
Humanities and Social Sciences	
1	109101004	Contemporary Issues in Philosophy of Mind and Cognition
2	109101017	Understanding Creativity and Creative Writing
3	109101171	NOC:Energy Resources, Economics and Environment
4	109102156	NOC:Text, Texuality and Digital Media
5	109102157	NOC:Positive Psychology
6	109103019	Cultural Studies
7	109103020	English Language and Literature
8	109103021	Game Theory for Economists
9	109103101	NOC:Digital Human Modeling and Simulation for Virtual Ergonomics Evaluation
10	109103121	NOC:Science, Technology and Society
11	109103122	NOC:Gender and Literature
12	109103123	NOC:Ecology and Society
13	109103133	NOC:Sociological Perspectives on Modernity
14	109103134	NOC:Introduction to Cognitive Psychology
15	109103135	NOC:Introduction to Modern Indian Political Thought
16	109103136	NOC:Consumer Psychology
17	109103140	NOC:Introduction to Modern Indian Drama
18	109103141	NOC:Introduction to Political Theory
19	109103142	NOC:Human Behaviour
20	109103152	NOC:The Psychology of Language
21	109103153	NOC:Development Research Methods
22	109103171	NOC:Indian Business History

23	109103176	NOC:Introduction to Western Political Thought
24	109103182	NOC:Psychology of Stress, Health and Well-being
25	109103183	NOC:Phonetics and Phonology: A Broad Overview
26	109103184	NOC:Philosophical Foundations of Social Research
27	109103185	NOC:Sociology of Development
28	109103186	NOC:Environment and Development
29	109103187	NOC:Introduction to Market Structures
30	109103188	NOC:Mathematics for Economics - I
31	109104031	Communication Skills
32	109104032	Ethics
33	109104035	International Economics
34	109104040	Introduction to Logic
35	109104045	Population and Society
36	109104073	Macro Economics
37	109104074	Introduction to Sociology
38	109104076	Money and Banking
39	109104081	Human Adjustment Processes
40	109104082	Selected Topics in Psychology
41	109104088	NOC:Elements of Visual Representation
42	109104090	NOC:Practical English: Learning and Teaching
43	109104093	NOC:Brief introduction to Psychology
44	109104096	NOC:Psychiatry - An overview
45	109104102	NOC:Introduction to Indian Art - An appreciation
46	109104103	NOC:Basic Concepts of Modal Logic
47	109104104	NOC:Probability and Stochastic for Finance II
48	109104105	NOC:Introduction to Psychology
49	109104106	NOC:Folk and Minor Art in India
50	109104107	NOC:Developing Soft Skills and Personality
51	109104108	NOC:How the Brain Creates Mind

52	109104109	NOC:Understanding Design Thinking and People Centred Design
53	109104115	NOC:Enhancing Soft Skills and Personality
54	109104116	NOC:Postcolonial Literature
55	109104117	NOC:Introducing Modern Western Art: Movements and Artists
56	109104121	NOC:Cognition, Transformation and Lives
57	109104122	NOC:Visual Perception and Art - A Survey Across the Cultures
58	109104123	NOC:Introduction to Basic Cognitive Processes
59	109104124	NOC:Calculus of One Real Variable
60	109104125	NOC:An Introduction to Microeconomics
61	109104126	NOC:Introduction to Advanced Cognitive Processes
62	109104135	NOC:Introduction to Literary Theory
63	109104136	NOC:Development of Sociology in India
64	109104143	NOC:Introduction to the Pyschology of Language
65	109104150	NOC:Population Studies
66	109104151	NOC:Psychology of Everyday
67	109104171	NOC:Introduction to Brain and Behaviour
68	109104176	NOC:Modern Indian Art From the Colonial Period to the Present
69	109104181	NOC:Introduction to Japanese Language and Culture
70	109104182	NOC:Applied Statistics and Econometrics
71	109104183	NOC:Literature and Coping Skills
72	109104184	NOC:Indian Economy: Some Contemporary Perspectives
73	109105097	NOC:Technology Transfer through Joint Venture
74	109105098	NOC:Legal Compliance for Incorporating Startup
75	109105110	NOC:Soft Skill Development
76	109105111	NOC:Symbolic Logic
77	109105112	NOC:Introduction on Intellectual Property to Engineers and Technologists
78	109105113	NOC:Globalization and Culture
79	109105115	NOC:Qualitative Research Methods
80	109105116	NOC:Emotional Intelligence

81	109105117	NOC:Speaking Effectively
82	109105118	NOC:Great Experiments in Psychology
83	109105121	NOC:Human Resource Development
84	109105122	NOC:Educational Leadership
85	109105127	NOC:Strategic Performance Management
86	109105135	NOC:Introduction to Basic Spoken Sanskrit
87	109105136	NOC:Water, Society and Sustainability
88	109105144	NOC:Employment Communication A Lab based course
89	109105169	NOC:Intermediate Level of Spoken Sanskrit
90	109105176	NOC:Entrepreneurship and IP strategy
91	109105185	NOC:Urbanization and Environment
92	109106052	Aspects of Western Philosophy
93	109106053	Contemporary Literature
94	109106058	History of Economic Theory
95	109106059	Indian Philosophy
96	109106067	Better Spoken English
97	109106079	Introduction to Film Studies
98	109106080	Introduction to Modern Linguistics
99	109106083	Principles and Parameters in Natural Language
100	109106084	NOC:Literary Criticism and Literary Theory
101	109106085	NOC:Language and Mind
102	109106086	NOC:Film Appreciation
103	109106087	NOC:Appreciating Carnatic Music
104	109106089	NOC:Infrastructure Economics
105	109106091	NOC:Language and Society
106	109106092	NOC:Issues in Bioethics
107	109106094	NOC:Technical English for Engineers
108	109106095	NOC:Health Research Fundamentals
109	109106099	NOC:American Literature and Culture

110	109106100	NOC:Economics of IPR
111	109106114	NOC:Applied Linguistics
112	109106116	NOC:English Language for Competitive Exams
113	109106117	NOC:Ethics
114	109106120	NOC:The Renaissance and Shakespeare
115	109106122	NOC:Literature for Competitive Exams
116	109106124	NOC:History of English Language and Literature
117	109106128	NOC:Patent Drafting for Beginners
118	109106129	NOC:Business English Communication
119	109106130	NOC:Postmodernism in Literature
120	109106135	NOC:Indian Fiction in English
121	109106136	NOC:Introduction to Cultural Studies
122	109106137	NOC:Intellectual Property
123	109106138	NOC:Short Fiction in Indian Literature
124	109106145	NOC:The Nineteenth-Century English Novel
125	109106146	NOC:Feminist Writings
126	109106147	NOC:Introduction to World Literature
127	109106148	NOC:Managing Intellectual Property in Universities
128	109106149	NOC:English Literature of the Romantic Period, 1798-1832
129	109106159	NOC:Appreciating Linguistics: A Typological Approach
130	109106160	NOC:Inclusion and Technology Design
131	109106161	NOC:Energy Economics and Policy
132	109106163	NOC:The Victorian Gothic Short Story
133	109106165	NOC:German-II
134	109106166	NOC:German-I
135	109106168	NOC:Disability Studies: An Introduction
136	109106170	Introduction to Film Studies (2019)
137	109106171	NOC:Literary Criticism (From Plato to Leavis)
138	109106172	NOC:Twentieth Century Fiction

139	109106173	NOC:Modern Indian Writing in Translation	
140	109106174	NOC:Introduction to Political Ideologies: Contexts, Ideas and Practices	
141	109106175	NOC:Feminism: Concepts and Theories	
142	109106176	NOC:Poetry	
143	109106177	NOC:The Popular Gothic Novel	
144	109106180	NOC:Classical Sociological Theory	
145	109106182	NOC:Basics of Language Science	
146	109106183	NOC:Globalization: Theoretical Perspectives	
147	109106184	NOC:Towards an Ethical Digital Society: From Theory to Practice	
148	109106185	NOC:Literary and Cultural Disability Studies: An Exploration	
149	109106186	NOC:Trauma and Literature	
150	109106187	NOC:Twentieth Century American Drama	
151	109106188	NOC:Fundamental Concepts in Sociolinguistics	
152	109107115	NOC:Time value of money-Concepts and Calculations	
153	109107119	NOC:Depreciation, Alternate Investment and Profitability Analysis	
154	109107121	NOC:Soft Skills	
155	109107131	NOC:Sociology of Science	
156	109107132	NOC:Perspectives on Neurolinguistic	
157	109107139	NOC:Literature, Culture and Media	
158	109107154	NOC:Body Language: Key to Professional Success	
159	109107155	NOC:Interpersonal Skills	
160	109107171	NOC:Introduction to Environmental Economics	
161	109107172	NOC:Effective Writing	
162	109107173	NOC:Strategic Trade and Protectionism - Theories and Empirics	
163	109107182	NOC:Handling Large Scale Unit Level Data Using STATA	
164	109108158	NOC:Artistic Exploration in Scientific Research and Technology	
Management			

1	110101003	Managerial Accounting
2	110101005	Managerial Economics
3	110101131	NOC:Financial Accounting
4	110101132	NOC:Cost Accounting
5	110101133	NOC:Game Theory
6	110101141	NOC:Introduction to Stochastic Processes
7	110101142	NOC:Introduction to System Dynamics Modeling
8	110101145	NOC:Bandit Algorithm (Online Machine Learning)
9	110101146	NOC:Organization Development and Change in 21st Century
10	110101149	NOC:Managerial Economics
11	110101150	NOC:Quality Control and Improvement with MINITAB
12	110101153	NOC:Business and Sustainable Development
13	110102016	Organisation Management
14	110102058	Organisation of Engineering Systems and Human Resources Management
15	110103093	NOC:Economic Growth and Development
16	110104055	Strategic Marketing - Contemporary Issues
17	110104063	NOC:Strategy: An Introduction to game Theory
18	110104065	NOC:Managing Services
19	110104066	NOC:Quantitative Finance
20	110104068	NOC:Marketing Management-I
21	110104070	NOC:Marketing Management-II
22	110104073	NOC:Project Management
23	110104074	NOC:Systems Engineering: Theory and Practice
24	110104080	NOC:Total Quality Management - I
25	110104084	NOC:Management of New Products and Services
26	110104085	NOC:Total Quality Management-II
27	110104086	NOC:Practitioners Course In Descriptive, Predictive and Prescriptive Analytics
28	110104093	NOC:Microeconomics: Theory and Applications
29	110104094	NOC:Data Analysis and Decision Making-I

30	110104095	NOC:Economics of Health and Health Care
31	110104096	NOC:Simulation of Business Systems: An Applied Approach
32	110104117	NOC:Management of Field Sales
33	110104118	NOC:Data Analysis and Decision Making-II
34	110104119	NOC:Advanced Green Manufacturing Systems
35	110104125	NOC:Data Analysis and Decision Making-III
36	110105030	Econometric Modelling
37	110105033	Organizational Behaviour
38	110105035	Security Analysis and Portfolio Management
39	110105039	Six Sigma
40	110105052	International Business Communication
41	110105054	Consumer Behaviour
42	110105057	International Finance
43	110105060	Applied Multivariate Statistical Modeling
44	110105067	Economics, Management, Entrepreneurship
45	110105069	NOC:Principles of Human Resource Management
46	110105071	NOC:Commodity Derivatives and Risk Management
47	110105073	NOC:Strategic Communication for Sustainable Development
48	110105074	NOC:Consumer Behaviour
49	110105075	NOC:Foundation Course in Managerial Economics
50	110105076	NOC:Knowledge Management
51	110105078	NOC:Services Marketing: A Practical Approach
52	110105079	NOC:Business Ethics
53	110105080	NOC:Gender Justice and Workplace Security
54	110105081	NOC:Corporate Social Responsibility
55	110105082	NOC:Decision Modeling
56	110105083	NOC:E-Business
57	110105087	NOC:Design and Analysis of Experiments
58	110105088	NOC:Quality Design and Control

59	110105089	NOC:Business Analytics for Management Decision
60	110105090	NOC:Soft Skills for Business Negotiations and Marketing Strategies
61	110105091	NOC:Research Writing
62	110105093	NOC:Engineering Econometrics
63	110105094	NOC:Industrial Safety Engineering
64	110105095	NOC:Management of Inventory Systems
65	110105096	NOC:Selected Topics in Decision Modeling
66	110105097	NOC:Ethics in Engineering Practice
67	110105120	NOC:Managing Change in Organizations
68	110105121	NOC:Financial Institutions and Markets
69	110105122	NOC:Sales and Distribution Management
70	110105123	NOC:Six Sigma
71	110105137	NOC:Performance and Reward Management
72	110105138	NOC:The Ethical Corporation
73	110105139	NOC:Intellectual Property Rights and Competition Law
74	110105140	NOC:Patent Search for Engineers and Lawyers
75	110105141	NOC:Modelling and Analytics for Supply Chain Management
76	110105142	NOC:Marketing Analytics
77	110105143	NOC:Management of Commercial Banking
78	110105144	NOC:Behavioral and Personal Finance
79	110105145	NOC:Customer Relationship Management
80	110105146	NOC:Principles of Management
81	110105147	NOC:Decision Support System for Managers
82	110105148	NOC:Management Information System
83	110105153	NOC:Applied Econometrics
84	110105154	NOC:Organizational Behaviour - II
85	110105155	NOC:Automation in Production Systems and Management
86	110105156	NOC:Corporate Finance
87	110106043	Infrastructure Finance

88	110106044	Manufacturing Systems Management
89	110106045	Operations and Supply Chain Management
90	110106050	Business Analysis for Engineers
91	110106062	NOC:Introduction to Operations Research
92	110106064	NOC:Introduction to Data Analytics
93	110106072	NOC:Introduction to Data analytics
94	110106081	NOC:Patent Law for Engineers and Scientists
95	110106124	NOC:Design Thinking - A Primer
96	110106134	NOC:Decision-Making Under Uncertainty
97	110106135	NOC:Decision making using Financial Accounting
98	110106141	NOC:Entrepreneurship
99	110106145	NOC:Organizational Behaviour
100	110106146	NOC:The Future of Manufacturing Business: Role of Additive Manufacturing
101	110106147	NOC:Financial Accounting (IIT Mandi)
102	110106150	NOC:Technology Forecasting for Strategic Decision Making - An Introduction
103	110106151	NOC:Leadership for India Inc: Practical Concepts and Constructs
104	110107073	NOC:Financial Statement Analysis and Reporting
105	110107074	NOC:Supply Chain Analytics
106	110107080	NOC:Marketing Research and Analysis
107	110107081	NOC:Project Management for Managers
108	110107092	NOC:Business Analytics and Data Mining Modeling using R
109	110107093	NOC:Working Capital Management
110	110107094	NOC:Innovation, Business Models and Entrepreneurship
111	110107095	NOC:Business Analytics and Data Mining Modeling Using R - Part II
112	110107112	NOC:Global Marketing Management
113	110107113	NOC:Marketing Research and Analysis-II
114	110107114	NOC:Business Statistics
115	110107115	NOC:MCDM Techniques Using R
116	110107116	NOC:Manufacturing Strategy

117	110107126	NOC:Training of Trainers
118	110107127	NOC:Management Accounting
119	110107128	NOC:Financial Derivatives and Risk Management
120	110107129	NOC:Business Analytics and Text Mining Modeling Using Python
121	110107130	NOC:Toyota Production System
122	110107141	NOC:Production and Operation Management (Prof. Rajat Agarwal)
123	110107142	NOC:Services Marketing: Integrating People, Technology, Strategy
124	110107143	NOC:Production and Operation Management (Prof. Santosh Rangnekar)
125	110107144	NOC:Financial Management for Managers
126	110107145	NOC:International Business
127	110107146	NOC:Path Integral Methods in Physics and Finance
128	110107147	NOC:Introduction to Marketing Essentials
129	110107150	NOC:Principles of Management (2021)
130	110107151	NOC:Organization Theory-Structure and Design (2021)
131	110107152	NOC:Talent Acquisition and Management
132	110107153	NOC:Econometric Modelling
133	110107154	NOC:Security Analysis and Portfolio Management
134	110108047	Strategic Management (Management)
135	110108056	Global Supply Chain Management
136	110108141	NOC:Integrated Marketing Management
Mathematics		
1	111101003	Elementary Numerical Analysis
2	111101005	Measure and Integration
3	111101080	Mathematics in India - From Vedic Period to Modern Times
4	111101100	NOC:Measure Theory
5	111101109	NOC:Calculus for Economics, Commerce and Management
6	111101115	NOC:Basic Linear Algebra

7	111101116	NOC:Commutative Algebra
8	111101117	NOC:Galois Theory
9	111101134	NOC:Basic Real Analysis
10	111101137	NOC:A Basic Course in Number Theory
11	111101144	NOC:Introduction to Algebraic Topology - Part I
12	111101152	NOC:Introduction to Algebraic Topology - Part II
13	111101153	NOC:Partial Differential Equations
14	111102014	Stochastic Processes
15	111102096	NOC:Stochastic Processes - 1
16	111102098	NOC:Stochastic Processes
17	111102110	NOC:Chaotic Dynamical Systems
18	111102111	NOC:Introduction to Probability Theory and Stochastic Processes
19	111102112	NOC:Statistical Inference
20	111102129	NOC:Integral Transforms and their Applications
21	111102130	NOC:Introduction to Fuzzy Set Theory, Arithmetic and Logic
22	111102133	NOC:Introduction to Methods of Applied Mathematics
23	111102134	NOC:Advanced Probability Theory
24	111102137	NOC:Scientific Computing using Matlab
25	111102143	NOC:Non-parametric Statistical Inference
26	111102152	NOC:Matrix Computation and its applications
27	111103016	Formal Languages and Automata Theory
28	111103070	Complex Analysis
29	111103126	NOC:Mathematical Finance
30	111103137	NOC:Mathematical Portfolio Theory
31	111104024	Applied Multivariate Analysis
32	111104025	Calculus of Variations and Integral Equations
33	111104027	Linear programming and Extensions
34	111104068	Convex Optimization
35	111104071	Foundations of Optimization

36	111104079	Probability Theory and Applications
37	111104085	NOC:Basic Calculus for Engineers, Scientists and Economists
38	111104089	NOC:Probability and Stochastics for finance
39	111104092	NOC:Differential Calculus in Several Variables
40	111104095	NOC:Curves and Surfaces
41	111104098	NOC:Linear Regression Analysis and Forecasting
42	111104100	NOC:Introduction to R Software
43	111104120	NOC:Descriptive Statistics with R Software
44	111104125	NOC:Calculus of Several Real Variables
45	111104137	NOC:Linear Algebra (Prof. A.K. Lal)
46	111104138	NOC:Computational Number Theory and Algebra
47	111104144	NOC:Basic Calculus 1 and 2
48	111104145	NOC:Advanced Partial Differential Equations
49	111104146	NOC:Essentials of Data Science With R Software 1: Probability and Statistical Inference
50	111104147	NOC:Essentials of Data Science With R Software 2: Sampling Theory and Linear Regression Analysis
51	111104152	NOC:Measure Theoretic Probability 1
52	111105035	Advanced Engineering Mathematics
53	111105037	Functional Analysis
54	111105038	Numerical methods of Ordinary and Partial Differential Equations
55	111105039	Optimization
56	111105041	Probability and Statistics
57	111105042	Regression Analysis
58	111105043	Statistical Inference
59	111105069	A Basic Course in Real Analysis
60	111105077	Statistical Methods for Scientists and Engineers
61	111105090	NOC:Probability and Statistics
62	111105091	NOC:Applied Multivariate Statistical Modeling
63	111105093	NOC:Partial Differential Equations (PDE) for Engineers - Solution by Separation of Variables

64	111105098	NOC:Introductory Course in Real Analysis
65	111105099	NOC:Modeling Transport Phenomena of Microparticles
66	111105100	NOC:Constrained and Unconstrained Optimization
67	111105111	NOC:Matrix Solver
68	111105112	NOC:Introduction to Abstract and Linear Algebra
69	111105121	NOC:Engineering Mathematics-I
70	111105122	NOC:Integral and Vector Calculus
71	111105123	NOC:Transform Calculus and its applications in Differential Equations
72	111105124	NOC:Statistical Inference (2019)
73	111105132	NOC:Mathematical Methods for Boundary Value Problems
74	111105134	NOC:Engineering Mathematics-II
75	111106044	An Introduction to Riemann Surfaces and Algebraic Curves: Complex 1-Tori and Elliptic Curves
76	111106051	Linear Algebra
77	111106052	Mathematical Logic
78	111106053	Real Analysis
79	111106082	Dynamic Data Assimilation: An Introduction
80	111106083	NOC:An Invitation to Mathematics
81	111106084	Advanced Complex Analysis
82	111106086	NOC:Discrete Mathematics (Mathematics)
83	111106094	Advanced Complex Analysis - Part 2
84	111106097	Basic Algebraic Geometry : Varieties, Morphisms, Local Rings, Function Fields and Nonsingularity
85	111106098	NOC:Introduction to Commutative Algebra
86	111106100	NOC:Differential Equations
87	111106101	NOC:Numerical Analysis
88	111106102	NOC:Graph Theory
89	111106111	NOC:Transform Techniques for Engineers
90	111106112	NOC:Introduction to Probability and Statistics
91	111106113	NOC:Introduction to Abstract Group Theory
92	111106114	NOC:Groups: Motion, Symmetry and Puzzles

93	111106131	NOC:Introduction to Rings and Fields
94	111106134	NOC:Probabilistic Methods in PDE
95	111106135	NOC:Linear Algebra (Prof. Pranav Haridas)
96	111106137	NOC:Algebra - I
97	111106138	NOC:Computational Commutative Algebra
98	111106139	NOC:Laplace Transform
99	111106140	NOC:Measure Theory (Prof. Indrava Roy)
100	111106141	NOC:Complex Analysis
101	111106142	NOC:Real Analysis - I
102	111106144	NOC:Variational Calculus and its applications in Control Theory and Nanomechanics
103	111106145	NOC:Introduction to Galois Theory
104	111106146	NOC:Basic Calculus 1
105	111106147	NOC:Functional Analysis
106	111106148	NOC:Mathematical Methods in Physics 1
107	111106149	NOC:Computational Mathematics with SageMath
108	111106150	NOC:Introduction to Probability (with examples using R)
109	111106151	NOC:Algebra-II
110	111106152	NOC:Mathematical Methods in Physics 2
111	111106153	NOC:Real Analysis - II
112	111106154	NOC:Sobolev Spaces and Partial Differential Equations
113	111106155	NOC:Combinatorics
114	111106156	NOC:Our Mathematical Senses
115	111107058	Discrete Mathematics
116	111107098	NOC:Mathematical Methods and its Applications
117	111107103	NOC:Integral Equations, Calculus of Variations and its Applications
118	111107104	NOC:Nonlinear Programming
119	111107105	NOC:Numerical Methods
120	111107106	NOC:Numerical Linear Algebra
121	111107107	NOC:Numerical Methods - Finite Difference Approach

122	111107108	NOC:Multivariable Calculus
123	111107111	NOC:Ordinary and Partial Differential Equations and Applications
124	111107112	NOC:Matrix Analysis with Applications
125	111107113	NOC:Mathematical Modelling: Analysis and Applications
126	111107118	NOC:Dynamical System and Control
127	111107119	NOC:Advanced Engineering Mathematics
128	111107127	NOC:Higher Engineering Mathematics
129	111107128	NOC:Operations Research
130	111107137	NOC:Essential Mathematics for Machine Learning
131	111108066	Advanced Matrix Theory and Linear Algebra for Engineers
132	111108081	Ordinary Differential Equations and Applications
133	111108098	NOC:Linear Algebra
134	111108134	NOC:An Introduction to Smooth Manifolds
135	111108135	NOC:Measure Theory (Prof. E. K. Narayanan)
136	111108136	NOC:Introduction to Algebraic Geometry and Commutative Algebra
137	111108144	NOC:First Course on Partial Differential Equations-I
138	111108152	NOC:First Course on Partial Differential Equations - II
139	111108157	Matrix Theory
	Mechanical Engineering	
1	112101002	Convective Heat and Mass Transfer
2	112101004	Cryogenic Engineering
3	112101095	Advanced Strength of Materials
4	112101097	Heat and Mass Transfer
5	112101099	Robotics
6	112101298	NOC:Optimization from Fundamentals
7	112101304	NOC:Design of Mechatronic Systems
8	112102014	Tribology

9	112102101	Computer Aided Design and Manufacturing
10	112102106	Project and Production Management
11	112102248	NOC:RAC Product Design
12	112102255	NOC:Thermodynamics (Mechanical Engineering)
13	112102284	NOC:Solid Mechanics
14	112102298	NOC:Introduction to Uncertainty Analysis and Experimentation
15	112102304	NOC:Engineering Graphics and Design
16	112103023	Nonlinear Vibration
17	112103025	Theory and Practice of Rotor Dynamics
18	112103108	Engineering Mechanics (Mechanical Engineering)
19	112103112	Mechanical Vibrations
20	112103202	NOC:Advanced Machining Processes
21	112103243	NOC:Fundamentals of Nuclear Power Generation
22	112103244	NOC:Advances in Welding and Joining Technologies
23	112103245	NOC:Introduction to Machining and Machining Fluids
24	112103248	NOC:Mechanics of Machining
25	112103249	NOC:Principle of Hydraulic Machines and System Design
26	112103250	NOC:Introduction to Abrasive Machining and Finishing Processes
27	112103251	NOC:Theory of Rectangular Plates - Part 1
28	112103261	NOC:Principles of Mechanical Measurement
29	112103262	NOC:IC Engines and Gas Turbines
30	112103263	NOC:Fundamental of Welding Science and Technology
31	112103264	NOC:Polymer Assisted Abrasive Finishing Processes
32	112103273	NOC:Mathematical Modeling of Manufacturing Processes
33	112103274	NOC:Two-Phase flow with phase change in Conventional and Miniature Channels
34	112103275	NOC:Applied Thermodynamics for Engineers
35	112103276	NOC:Fundamentals of Conduction and Radiation
36	112103277	NOC:Steam Power Engineering
37	112103278	NOC:Dynamic Behaviour of Materials

38	112103279	NOC:Plastic Working of Metallic Materials
39	112103280	NOC:Fundamentals of Artificial Intelligence
40	112103281	NOC:Aircraft Propulsion
41	112103289	NOC:Computational Fluid Dynamics for Incompressible Flows
42	112103290	NOC:Experimental Methods in Fluid Mechanics
43	112103293	NOC:Automation in Manufacturing
44	112103294	NOC:Fundamentals of Compressible Flow
45	112103295	NOC:Finite Element Method: Variational Methods to Computer Programming
46	112103296	NOC:Computational Continuum Mechanics
47	112103297	NOC:Fundamentals of Convective Heat Transfer
48	112103298	NOC:Theory of Composite Shells
49	112103299	NOC:Finite Element Modeling of Welding Processes
50	112103300	NOC:Nonlinear Vibration
51	112103301	NOC:Evolutionary Computation for Single and Multi Objective Optimization
52	112103302	NOC:Viscous Fluid Flow
53	112103305	NOC:Welding Application Technology
54	112103306	NOC:Fundamentals of Additive Manufacturing Technologies
55	112103307	NOC:Applied Thermodynamics
56	112104026	Acoustics
57	112104028	Advanced Machining Processes
58	112104029	Biomicroelectromechanical systems
59	112104031	Computer Aided Engineering Design
60	112104035	Mathematical Methods in Engineering and Science
61	112104114	Dynamics of Machines
62	112104115	Finite Element Method
63	112104121	Kinematics of Machines
64	112104162	Advanced manufacturing process for micro sytem fabrication
65	112104172	Engineering Drawing (Dr. Anupam Saxena)
66	112104181	NOC:BioMEMS and Microsystems

67	112104188	NOC:Manufacturing Systems Technology
68	112104189	NOC:Manufacturing Systems Technology - Part II
69	112104193	NOC:Basics of Finite Element Analysis
70	112104194	NOC:Basics of Noise and Its Measurements
71	112104195	NOC:Manufacturing Process Technology - Part I
72	112104203	NOC:Nature and Property of Materials
73	112104204	NOC:Manufacturing Process Technology - Part II
74	112104205	NOC:Basics of Finite Element Analysis - II
75	112104211	NOC:Principles of Vibration Control
76	112104212	NOC:Fundamentals of Acoustics
77	112104219	NOC:Heat Treatment and Surface Hardening - II
78	112104220	NOC:Phase Transformation in Materials
79	112104221	NOC:Manufacturing of Composites
80	112104222	NOC:Applied Ergonomics
81	112104225	NOC:Sustainability through Green Manufacturing Systems - An Applied Approach
82	112104227	NOC:Noise Management and Control
83	112104228	NOC:Design Practice
84	112104229	NOC:Introduction to Composites
85	112104230	NOC:Product Design and Manufacturing
86	112104248	NOC:Phase Equilibria in Materials - Nature and Properties of Materials-II
87	112104249	NOC:Advanced Composites
88	112104250	NOC:Engineering Metrology
89	112104251	NOC:Smart Materials and Intelligent System Design
90	112104252	NOC:Design Practice-II
91	112104265	NOC:Rapid Manufacturing
92	112104272	NOC:Turbulent Combustion: Theory and Modelling
93	112104288	NOC:Manufacturing Automation
94	112104289	NOC:Computer Integrated Manufacturing
95	112104290	NOC:Machining Science

96	112104293	NOC:Foundations of Cognitive Robotics
97	112104298	NOC:Introduction to Robotics (Mechanical Engineering)
98	112104299	NOC:Muffler Acoustics - Application to Automotive Exhaust Noise Control
99	112104300	NOC:Elements of Solar Energy Conversion
100	112104301	NOC:Manufacturing Processes - Casting and Joining
101	112104302	NOC:Computational Fluid Dynamics and Heat Transfer
102	112104304	NOC:Production Technology: Theory and Practice
103	112104305	NOC:Introduction to Turbomachinery
104	112105045	Computational Fluid Dynamics (Prof. S. Chakraborty)
105	112105047	Fundamentals of Industrial Oil Hydraulics and Pneumatics
106	112105048	Machinery fault diagnosis and signal processing
107	112105051	Solar Energy Technology
108	112105053	Technology of Surface Coating
109	112105055	Vibration of Structures
110	112105123	Basic Thermodynamics
111	112105124	Design of Machine Elements I
112	112105126	Manufacturing Processes II
113	112105128	Refrigeration and Air Conditioning
114	112105171	Fluid Mechanics (Mechanical Engineering)
115	112105182	Introduction to Fluid Machines and Compressible Flow
116	112105183	Introduction to Fluid Mechanics and Fluid Engineering
117	112105187	Micro fluidics
118	112105192	NOC:Conduction and Convection Heat Transfer
119	112105197	NOC:Vibrations of Structures
120	112105206	NOC:Fluid Machines
121	112105211	NOC:Computer numerical control (CNC) of machine tools and processes
122	112105212	NOC:Non Traditional Abrasive Machining Processes - Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining
123	112105218	NOC:Introduction to Fluid Mechanics

124	112105219	NOC:Spur and Helical Gear Cutting
125	112105220	NOC:Laws of Thermodynamics
126	112105221	NOC:Energy Conservation and Waste Heat Recovery
127	112105231	NOC:Introduction to Mechanical Micro Machining
128	112105232	NOC:Machinery Fault Diagnosis and Signal Processing
129	112105233	NOC:Metal Cutting and Machine Tools
130	112105234	NOC:Gear and Gear Unit Design - Theory and Practice
131	112105235	NOC:Traditional and Non-Traditional Optimization Tools
132	112105236	NOC:Mechanism and Robot Kinematics
133	112105248	NOC:Heat Exchangers: Fundamentals and Design Analysis
134	112105249	NOC:Robotics
135	112105254	NOC:Computational Fluid Dynamics (Mechanical Engineering)
136	112105266	NOC:Concepts of Thermodynamics
137	112105267	NOC:Electronic Packaging and Manufacturing
138	112105268	NOC:Kinematics of Mechanisms and Machines
139	112105269	NOC:Introduction to Fluid Mechanics (2019)
140	112105271	NOC:Conduction and Convection Heat Transfer (Prof. S. Chakraborty)
141	112105287	NOC:Advanced Concepts in Fluid Mechanics
142	112105293	NOC:High Performance Computing for Scientists and Engineers
143	112105294	NOC:Engineering Drawing and Computer Graphics
144	112105299	NOC:Tools in Scientific Computing
145	112105304	NOC:Advanced Dynamics
146	112105305	NOC:Biomechanics of Joints and Orthopaedic Implants
147	112105306	NOC:Elements of Metal Cutting, Machine tools, Gear Cutting and CNC Machining
148	112106056	Advanced Gas Dynamics
149	112106064	Design and Optimization of Energy systems
150	112106065	Engineering Fracture Mechanics
151	112106068	Experimental Stress Analysis
152	112106073	Rocket Propulsion

153	112106130	Advanced Finite Elements Analysis
154	112106131	Advanced Operations Research
155	112106134	Fundamentals of Operations Research
156	112106135	Introduction to Finite Element Method
157	112106138	Mechanical Measurements and Metrology
158	112106140	Principles of Mechanical Measurements
159	112106154	Spray Theory and Applications
160	112106155	Conduction And Radiation
161	112106166	Gas Dynamics and Propulsion
162	112106169	Microfluidics
163	112106170	Convective Heat Transfer
164	112106177	Introduction to Explosions and Explosion Safety
165	112106179	Metrology
166	112106180	NOC:Engineering Mechanics Statics and Dynamics
167	112106186	NOC:Foundation of Computational Fluid Dynamics
168	112106190	NOC:Introduction to Boundary Layers
169	112106196	NOC:Fundamentals of Gas Dynamics
170	112106198	NOC:Experimental Stress Analysis - An Overview (Mechanical Engineering)
171	112106200	NOC:Fluid Dynamics and Turbomachines
172	112106222	NOC:Micro and Nano Scale Energy Transport
173	112106223	NOC:Electron Diffraction and Imaging
174	112106225	NOC:Acoustic and Noise Control
175	112106226	NOC:Steel Quality - Role of Secondary Refining and Continuous Casting
176	112106227	NOC:X-ray Crystallography and Diffraction
177	112106237	NOC:Transport Phenomena in Materials
178	112106247	NOC:Experimental Stress Analysis - An Overview - 2
179	112106248	NOC:Mechanics of Human Movement
180	112106249	NOC:Design for Quality, Manufacturing and Assembly
181	112106250	NOC:Surrogates and Approximations in Engineering Design

182	112106253	NOC:Steel Quality: Role of Secondary Refining and Continuous Casting
183	112106270	Theory of Mechanism
184	112106286	NOC:Engineering Mechanics (Mechanical Engineering)
185	112106289	NOC:Foundations of Computational Materials Modelling
186	112106290	NOC:Fundamentals of Combustion for Propulsion
187	112106293	NOC:Basics of Materials Engineering
188	112106294	NOC:Computational Fluid Dynamics using Finite Volume Method
189	112106298	NOC:Wheeled Mobile Robots
190	112106299	NOC:Fundamentals of Combustion
191	112106300	NOC:Oil Hydraulics and Pneumatics
192	112106303	Introduction to Turbomachines
193	112106304	NOC:Mechanics and Control of Robotic Manipulators
194	112107078	Advanced Manufacturing Processes
195	112107079	Computational Fluid Dynamics (Dr. K.M. Singh)
196	112107083	Metal Casting
197	112107086	Processing of non metals
198	112107087	Vibration control
199	112107089	Welding Engineering
200	112107143	Industrial Engineering
201	112107145	Manufacturing Processes I
202	112107147	Strength of Materials (Mechanical Engineering)
203	112107207	NOC:Two Phase Flow and Heat Transfer
204	112107208	NOC:Refrigeration and Air-Conditioning
205	112107209	NOC:Engineering Economic Analysis
206	112107211	NOC:Convective Heat Transfer
207	112107212	NOC:Introduction to Mechanical Vibration
208	112107213	NOC:Joining Technologies of Commercial Importance
209	112107214	NOC:Modelling and Simulation of Dynamic Systems
210	112107215	NOC:Principles of Casting Technology

211	112107216	NOC:Steam and Gas Power Systems
212	112107217	NOC:Product Design and Development
213	112107219	NOC:Fundamentals of Manufacturing Processes
214	112107220	NOC:Modelling and Simulation of Discrete Event System
215	112107221	NOC:Processing of Polymers and Polymer Composites
216	112107238	NOC:Operations Management
217	112107239	NOC:Theory of Production Processes
218	112107240	NOC:Automatic Control
219	112107241	NOC:Failure Analysis and Prevention
220	112107242	NOC:Mechanical Measurement System
221	112107248	NOC:Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations
222	112107249	NOC:Work System Design
223	112107250	NOC:Principles of Metal Forming Technology
224	112107256	NOC:Radiative Heat Transfer
225	112107257	NOC:Weldability of Metals
226	112107258	NOC:Manufacturing Guidelines for Product Design
227	112107259	NOC:Inspection and Quality Control in Manufacturing
228	112107260	NOC:Financial Mathematics
229	112107282	NOC:Product Design Using Value Engineering
230	112107283	NOC:Selection of Nanomaterials for Energy Harvesting and Storage Application
231	112107289	NOC:Robotics and Control: Theory and Practice
232	112107290	NOC:Acoustic Metamaterials
233	112107291	NOC:Power Plant Engineering
234	112107292	NOC:Principles of Industrial Engineering
235	112107298	NOC:Mechatronics
236	112108092	Micro and Smart Systems
237	112108201	NOC:Variational Methods in Mechanics
238	112108211	NOC:Compliant Mechanisms: Principles and Design
239	112108212	NOC:Heat Transfer and Combustion in Multiphase Systems

240	112108246	NOC:Convective Heat Transfer (2018)
241	112108285	NOC:A Short Lecture series on Contour Integration in the Complex Plane
242	112108289	NOC:Introduction to Soft Matter
243	112108298	NOC:Robotics: Basics and Selected Advanced Concepts
Metallurgy and Material Science		
1	113101072	NOC:Phase Field Modelling: The Materials Science, Mathematics and Computational Aspects
2	113101096	NOC:Dealing with Materials Data: Collection, Analysis and Interpretation
3	113101098	NOC:Aqueous Corrosion and its Control
4	113101099	NOC:Cathodic Protection Engineering
5	113102080	NOC:Introduction to Materials Science and Engineering
6	113103072	NOC:Introduction to Crystal Elasticity and Crystal Plasticity
7	113104004	Advanced Characterization Techniques
8	113104006	Electroceramics
9	113104008	Fuels Refractory and Furnaces
10	113104009	Introduction to Biomaterials
11	113104010	Materials and Energy balance in Metallurgical Processes
12	113104012	Optoelectronic Materials and Devices
13	113104013	Steel Making
14	113104014	Structure of Materials
15	113104061	Environmental Degradation of Materials
16	113104068	NOC:Phase Diagrams in Materials Science and Engineering
17	113104073	NOC:Fundamentals of Material Processing - I
18	113104074	NOC:Heat Treatment and Surface Hardening - I
19	113104075	NOC:Fundamentals of Material Processing - Part 2
20	113104076	NOC:Nature and Properties of Materials - An Introductory Course
21	113104081	NOC:Defects in Crystalline Solids - Part I
22	113104082	NOC:Corrosion - Part I

23	113104084	NOC:Solar Photovoltaics: Principles, Technologies and Material
24	113104085	NOC:Defects in Crystalline Solids - Part II
25	113104089	NOC:Corrosion - Part II
26	113104090	NOC:Fundamentals and Applications of Dielectric Ceramics
27	113104096	NOC:Properties of Materials (Nature and Properties of Materials-III)
28	113104097	NOC:Diffusion in Multicomponent Solids
29	113104101	NOC:Corrosion Failures and Analysis
30	113104102	NOC:Nanomaterials and their Properties
31	113105015	Advanced ceramics for strategic applications
32	113105021	Non-ferrous Extractive Metallurgy
33	113105024	Principles of Physical Metallurgy
34	113105025	Processing of Semiconducting Materials
35	113105028	Science and Technology of Polymers
36	113105057	Advanced Materials and Processes
37	113105077	NOC:Principles of Polymer Synthesis
38	113105081	NOC:Advanced Materials and Processes
39	113105086	NOC:Surface Engineering for Corrosion and Wear Resistance Application
40	113105098	NOC:Ironmaking and Steelmaking
41	113105099	NOC:Non-Metallic Materials
42	113105100	NOC:Scanning Electron-Ion-Probe Microscopy in Materials Characterization
43	113105101	NOC:Techniques of Material Characterization
44	113105102	NOC:Electrochemical Energy Storage
45	113105103	NOC:Texture in Materials
46	113106031	Advanced Metallurgical Thermodynamics
47	113106034	Materials Characterization
48	113106039	Physics of Materials
49	113106062	Electronic materials, devices, and fabrication
50	113106064	NOC:Fundamentals of optical and scanning electron microscopy
51	113106065	NOC:Fundamentals of electronic materials and devices

52	113106066	NOC:Introduction to Reciprocal Space and its use in Solids
53	113106067	NOC:Analysis and Modeling of Welding
54	113106069	NOC:Fundamentals of X-ray Diffraction and Transmission Electron Microscopy
55	113106070	NOC:Theory and Practice of Non Destructive Testing
56	113106075	NOC:Defects in Materials
57	113106081	NOC:Elementary Stereology for Quantitative Metallography
58	113106082	NOC:Welding of Advanced High Strength Steels for Automotive Applications
59	113106087	NOC:Welding Processes
60	113106088	NOC:Creep Deformation of Materials
61	113106093	NOC:Nanotechnology, Science and Applications
62	113106098	NOC:Powder Metallurgy
63	113106099	NOC:Carbon Materials and Manufacturing
64	113106101	NOC:Mechanical Behavior of Materials
65	113107075	NOC:Surface Engineering of Nanomaterials
66	113107078	NOC:Material Science and Engineering
67	113107081	NOC:Structural Analysis of Nanomaterials
68	113107091	NOC:Thermo-Mechanical and Thermo-Chemical Processes
69	113107092	NOC:Welding Metallurgy
70	113107096	NOC:Modeling of Tundish Steelmaking Process in Continuous Casting
71	113108071	NOC:Biomaterials for Bone Tissue Engineering Applications
72	113108079	NOC:Iron Making
73	113108083	NOC:Friction and Wear of Materials: Principles and Case Studies
Ocean Engineering		
1	114105002	Elements of Ocean Engineering
2	114105003	Hydrostatics and Stability
3	114105004	Marine Construction and Welding
4	114105005	Marine Hydrodynamics

5	114105006	Seakeeping and Manoeuvring
6	114105029	Applied Thermodynamics for Marine Systems
7	114105030	Performance of Marine Vehicles at Sea
8	114105031	Strength and Vibration of Marine Structures
9	114105044	NOC:Water Economics and Governance
10	114106011	Design of Offshore Structures
11	114106015	Foundation for Offshore Structures
12	114106017	Health,Safety and Environmental Management in Petroleum and Offshore Engineering
13	114106025	Port and Harbour Structures
14	114106026	Ship Resistance and Propulsion
15	114106032	Coastal Engineering
16	114106033	Wave Hydrodynamics
17	114106035	Ocean Structures and Materials
18	114106036	Dynamics of Ocean Structures
19	114106037	Advanced Marine Structures
20	114106038	NOC:Dynamics of Ocean Structures
21	114106039	NOC:Health, Safety and Environmental Management in Offshore and Petroleum Engineering
22	114106041	NOC:Risk and Reliability of offshore structures
23	114106042	NOC:HSE for offshore and petroleum engineers-Practices
24	114106043	NOC:Offshore Structures Under Special Loads Including Fire Resistance
25	114106045	NOC:Computer Methods Of Structural Analysis of Offshore Structures
26	114106046	NOC:Structural Health Monitoring
	Physics	
1	115101005	Electromagnetic Theory (Prof. D.K. Ghosh)
2	115101011	Special Theory of Relativity
3	115101092	NOC:Quantum Information and Computing
4	115101104	NOC:Theory of Groups for Physics Applications

5	115101107	NOC:Quantum Mechanics-I
6	115101117	NOC:Path Integral and Functional Methods in Quantum Field Theory
7	115101121	NOC:Physics of Biological Systems
8	115101122	NOC:Group Theory Methods in Physics
9	115102014	Electronics
10	115102020	Plasma Physics: Fundamentals and Applications
11	115102022	Quantum Electronics
12	115102023	Quantum Mechanics and Applications
13	115102026	Semiconductor Optoelectronics
14	115102103	NOC:Semiconductor Optoelectronics
15	115102124	NOC:Introduction to LASER
16	115103101	NOC:Nuclear and Particle Physics
17	115103102	NOC:Advanced Condensed Matter Physics
18	115103104	NOC:Advanced Quantum Mechanics with Applications
19	115103108	NOC:A Brief Course on Superconductivity
20	115103113	NOC:Introduction to Statistical Mechanics
21	115103114	NOC:Numerical Methods and Simulation Techniques for Scientists and Engineers
22	115103115	NOC:Theoretical Mechanics
23	115103123	NOC:Solar Energy Engineering and Technology
24	115104043	Nuclear Physics: Fundamentals and Applications
25	115104088	NOC:Introduction to Electromagnetism
26	115104094	NOC:Engineering Mechanics (Physics)
27	115104095	NOC:Computational Science and Engineering Using Python
28	115104096	NOC:Introductory Quantum Mechanics
29	115104109	NOC:Introduction to Solid State Physics
30	115104112	NOC:Physics of Turbulence
31	115104124	NOC:Introduction to Astrophysical Fluids
32	115105046	Astrophysics and Cosmology
33	115105097	NOC:Mathematics Methods in Physics - I

34	115105098	NOC:Classical Mechanics - from Newtonian to Lagrangian Formulation
35	115105099	NOC:Solid State Physics
36	115105100	NOC:Atomic and Molecular Physics
37	115105104	NOC:Modern Optics
38	115105105	NOC:Introduction to Non-linear Optics and its Applications
39	115105106	NOC:Upstream LNG Technology
40	115105110	NOC:Experimental Physics-I
41	115105120	NOC:Experimental Physics-II
42	115105121	NOC:Experimental Physics-III
43	115105122	NOC:Electronic Theory of Solids
44	115105124	NOC:Physics of Linear and Nonlinear Optical Waveguides
45	115105127	NOC:Physics of Renewable Energy Systems
46	115106057	Special Topics in Atomic Physics
47	115106058	Classical Field Theory
48	115106059	Topics in Nonlinear Dynamics
49	115106061	Condensed Matter Physics
50	115106065	Quantum Field Theory
51	115106066	Quantum Mechanics I
52	115106068	Special Topics in Classical Mechanics
53	115106085	Special, Select Topics in the Theory of Atomic Collisions and Spectroscopy
54	115106086	Selected Topics in Mathematical Physics
55	115106087	Nuclear Reactors and Safety - An Introduction
56	115106089	Physical Applications of Stochastic Processes
57	115106090	NOC:Mechanics, Heat Oscillations and Waves
58	115106091	Nonequilibrium Statistical Mechanics
59	115106111	NOC:Statistical Mechanics
60	115106118	NOC:Computational Physics
61	115106119	NOC:Waves and Oscillations
62	115106121	NOC:Physics through Computational Thinking

63	115106122	NOC:Electromagnetism
64	115106123	NOC:Introduction to Classical Mechanics
65	115106124	NOC:Fluid Dynamics for Astrophysics
66	115106125	NOC:Quantum Transport
67	115106126	NOC:Statistical Mechanics (2021)
68	115106127	NOC:Solid State Physics (2021)
69	115106128	NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields)
70	115107095	NOC:Fiber Optics
71	115107116	NOC:Solar Photovoltaics Fundamentals, Technology and Applications
72	115107121	NOC:Introduction to Atmospheric and Space Sciences
73	115107122	NOC:Optical Sensors
74	115108074	Relativistic Quantum Mechanics
75	115108104	NOC:Control System Design
76	115108127	NOC:Bonds and Bands in Solids

Textile Engineering

1	116102034	Theory of Yarn Structures
2	116102047	NOC:Science of Clothing Comfort
3	116102048	NOC:Yarn Manufacture-I: Principle of Carding and Drawing
4	116102049	NOC:Evaluations of Textile Materials
5	116102050	NOC:Testing of Functional and Technical Textiles
6	116102051	NOC:Theory of Yarn Structure
7	116102052	NOC:Advanced Textile Printing Technology
8	116102053	NOC:Textured Yarn Technology
9	116102054	NOC:Textile Finishing
10	116102055	NOC:Principles of Combing, Roving preparation and Ring spinning
11	116102056	NOC:Science and Technology of Weft and Warp Knitting
12	116102057	NOC:Technical Textiles

13	116104044	Natural Dyes

Electronics and Communication Engineering

1	117101001	Adv. Digital Signal Processing - Multirate and wavelets
2	117101002	Advanced Optical Communication
3	117101004	Advanced VLSI Design
4	117101050	Broadband Networks: Concepts and Technology
5	117101051	Digital Communication (ECE)
6	117101053	Information Theory and Coding
7	117101056	Transmission Lines and EM Waves
8	117101105	CMOS Analog VLSI Design
9	117101106	Analog Circuits
10	117101119	NOC:Microwave Integrated Circuits
11	117101123	NOC:Foundations of Wavelets and Multirate Digital Signal Processing
12	117102012	RF Integrated Circuits
13	117102059	Communication Engineering
14	117102060	Digital Signal Processing (ECE)
15	117102062	Wireless Communication
16	117103063	Basic Electronics
17	117103125	NOC:VLSI Design Verification and Test
18	117104074	Signals and Systems
19	117104099	Advanced 3G and 4G Wireless Mobile Communications
20	117104104	Digital Switching
21	117104115	NOC:Principles of Modern CDMA-MIMO-OFDM Wireless Communications
22	117104117	NOC:Probability and Random Variables, Processes for Wireless Communications
23	117104118	NOC:Estimation for Wireless Communications, MIMO, OFDM Cellular and Sensor Networks
24	117104120	NOC:Error Control Coding - An Introduction to Convolutional Codes
25	117104121	NOC:Error Control Coding - An Introduction to Linear Block code

26	117104126	NOC:Bayesian, MMSE Estimation for Wireless Communications MIMO, OFDM Cellular and Sensor Networks
27	117104127	NOC:Optical communications
28	117104128	NOC:Digital Switching-I
29	117104129	NOC:An Introduction to Information Theory
30	117105075	Adaptive Signal Processing
31	117105078	Digital Computer Organization
32	117105079	Digital Image Processing
33	117105080	Digital Systems Design
34	117105081	Digital Voice and Picture Communication
35	117105082	MEMS and Microsystems
36	117105084	Neural Networks and Applications
37	117105085	Probability and Random Processes
38	117105101	Pattern Recognition and Application
39	117105122	NOC:Basic Tools of Microwave Engineering
40	117105130	NOC:Basic Building Blocks of Microwave Engineering
41	117105131	NOC:Satellite Communication Systems
42	117105132	NOC:Fundamentals of MIMO Wireless Communication
43	117105133	NOC:Audio System Engineering
44	117105134	NOC:Discrete Time Signal Processing
45	117105135	NOC:Digital Image Processing
46	117105136	NOC:Spread Spectrum Communications and Jamming
47	117105137	NOC:Digital VLSI Testing
48	117105138	NOC:Design Principles of RF and Microwave Filters and Amplifiers
49	117105139	NOC:Millimeter Wave Technology
50	117105140	NOC:Power System Analysis
51	117105143	NOC:Analog Communication
52	117105144	NOC:Modern Digital Communication Techniques
53	117105145	NOC:Digital Speech Processing

54	117105147	NOC:Analog Circuits and Systems through SPICE Simulation
55	117106030	Analog IC Design
56	117106031	Coding Theory
57	117106033	Semiconductor Device Modeling
58	117106034	VLSI Data Conversion Circuits
59	117106086	Digital Circuits and Systems
60	117106087	Electronics for Analog Signal Processing - I
61	117106088	Electronics for Analog Signal Processing - II
62	117106089	High Speed Devices and Circuits
63	117106091	Solid State Devices
64	117106092	VLSI Circuits
65	117106093	VLSI Technology
66	117106101	Basic Electrical Circuits
67	117106108	NOC:Basic Electrical Circuits (ECE)
68	117106109	Advanced Logic Synthesis
69	117106111	ARM Based Development
70	117106112	Embedded Software Testing
71	117106113	Linux Programming and Scripting
72	117106114	NOC:Digital Circuits and Systems
73	117106116	NOC:Networks and Systems
74	117108038	Circuits for Analog System Design
75	117108040	Digital System design with PLDs and FPGAs
76	117108044	Error Correcting Codes
77	117108047	Nanoelectronics: Devices and Materials
78	117108048	Pattern Recognition (ECE)
79	117108107	Analog Circuits and Systems 1
80	117108124	NOC:Design and Simulation of DC-DC converters using Open Source Tools
81	117108140	NOC:Enclosure Design of Electronics Equipment
82	117108141	NOC:Design of Photovoltaic Systems

83	117108142	NOC:Photonic Integrated Circuits

		Nanotechnology
1	118102003	Nano structured materials-synthesis, properties, self assembly and applications
2	118104008	Nanostructures and Nanomaterials: Characterization and Properties

		Atmospheric Science
1	119106008	Introduction to Atmospheric Science
2	119108004	Radiation Heat Transfer
3	119108006	The monsoon and its variability

		General
1	121104005	Introduction to Japanese Language and Culture
2	121104006	Astronomy in Ancient, Medieval and Early Telescopic Era of India
3	121105009	NOC:Stress Management
4	121105010	NOC:Outcome Based Pedagogic Principles for Effective Teaching
5	121106003	Ayurvedic Inheritance of India
6	121106007	NOC:Introduction to Research
7	121106008	NOC:Biology for engineers and other non-biologists
8	121106011	NOC:Digital and the Everyday - from Codes to Cloud
9	121106012	NOC:Effective Engineering Teaching in Practice
10	121106013	NOC:Virtual Reality Engineering
11	121106014	NOC:Non-Conventional Energy Resources
12	121107009	NOC:Introduction to Remote Sensing

Basic Courses (Semester 1 and 2)

1	122102004	Applied Mechanics
2	122102007	Management Science I
3	122102008	Materials Science
4	122102009	Numerical Methods and Computation
5	122104015	Engineering Mechanics (Basic Courses)
6	122104016	Engineering Physics II
7	122104017	Mathematics I
8	122105020	Human Resource Management-I
9	122105021	Leadership
10	122105022	Management Information System
11	122105023	Physics I - Oscillations and Waves
12	122105024	Strategic Management (Basic Courses)
13	122106025	Basic Electronics and Lab
14	122106027	Classical Physics
15	122106028	Engineering Chemistry I
16	122106033	Numerical Methods and Programing
17	122106034	Quantum Physics
18	122107035	Engineering Physics I
19	122107036	Mathematics II
20	122107037	Mathematics III
21	122108038	Concept of Management and Evolution of Management Thought
Mining Engineering		
1	123105001	Fundamentals of Environmental Pollution and Control
2	123105003	NOC:Drilling and Blasting Technology
3	123105004	NOC:Network Analysis for Mines and Mineral Engineering
4	123105005	NOC:Mining Machinery

5	123105006	NOC:Underground Mining of Metalliferous Deposits
6	123105007	NOC:Surface Mining Technology
Architecture	
1	124105001	NOC:Landscape Architecture and Site Planning - Basic Fundamentals
2	124105003	NOC:Architectural Conservation and Historic Preservation
3	124105004	NOC:Architectural Acoustics
4	124105013	NOC:Building Materials and Composites
5	124105014	NOC:Environmental Soil Chemistry
6	124105015	NOC:Structural System in Architecture
7	124105016	NOC:Urban Landuse and Transportation Planning
8	124105158	NOC:Urban utilities Planning : Water Supply, Sanitation and Drainage
9	124106009	NOC:Introduction to History of Architecture in India
10	124106157	NOC:Strategies for Sustainable Design
11	124107001	NOC:Housing Policy and Planning
12	124107002	NOC:Visual Communication Design for Digital Media
13	124107004	NOC:Culturally Responsive Built Environments
14	124107005	NOC:Contemporary Architecture and Design
15	124107006	NOC:Role of Craft and Technology in Interior-Architecture
16	124107007	NOC:Urban Governance and Development Management
17	124107008	NOC:User Interface Design
18	124107010	NOC:Disaster Recovery and Build Back Better
19	124107011	NOC:Sustainable Architecture
20	124107012	NOC:Structure, Form and Architecture: The Synergy
21	124107157	NOC:Engineering-Architectural Graphics - Part I: Orthographic projection
22	124107158	NOC:Introduction to Urban Planning
Agriculture	

1	126103017	NOC:Thermal Processing of Foods
2	126104001	NOC:Basic Crop Production Practices (BCPP)
3	126104002	NOC:GIS in Ag-Essentials and Applications (GIS)
4	126104003	NOC:Integrated Pest Management (IPM)
5	126104004	NOC:Nutrition, Therapeutics and Health (NM)
6	126104005	NOC:Weather Forecast in Agriculture and Agro-advisory (WF)
7	126104006	NOC:ICT Basics
8	126105008	NOC:Momentum Transfer in Process Engineering
9	126105009	NOC:Farm Machinery
10	126105010	NOC:Irrigation and Drainage
11	126105011	NOC:Fundamentals of Food Process Engineering
12	126105012	NOC:Soil and Water Conservation Engineering
13	126105013	NOC:Dairy and Food Process and Products Technology
14	126105014	NOC:Organic Farming for Sustainable Agricultural Production
15	126105015	NOC:Novel Technologies for Food Processing and Shelf Life Extension
16	126105016	NOC:Soil Science and Technology
17	126105018	NOC:Thermal Operations in Food Process Engineering: Theory and Applications
18	126105019	NOC:Micro Irrigation Engineering
	Multi-Disciplinary	
1	127101010	NOC:Designing Learner-Centric MOOCs
2	127101012	NOC:Introduction to Learning Analytics
3	127101013	NOC:Designing Learner-Centric e-Learning in STEM Disciplines
4	127101014	NOC:Sustainable and Affordable Sanitation Solutions for Small Towns: Policy, Planning and Practice
5	127103225	NOC:Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers
6	127105006	NOC:Fuzzy Logic and Neural Networks

7	127105007	NOC:Entrepreneurship Essentials
8	127105008	NOC:Roadmap for Patent Creation
9	127105017	NOC:Accreditation and Outcome based Learning
10	127105018	NOC:Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts
11	127105225	NOC:Biophotonics
12	127106001	NOC:Neuroscience of Human Movement
13	127106003	NOC:Manage TB
14	127106004	NOC:Ecology and Environment
15	127106009	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India
16	127106010	NOC:Regulatory Requirements for Medical Devices and IVD kits in India
17	127106019	NOC:Numerical Methods for Engineers
18	127106134	Basic Course in Biomedical Research
19	127106135	NOC:Thermodynamics (Multi-Disciplinary)
20	127106136	NOC:Regulatory Requirements for Medical Devices including in Vitro Diagnostics in India (Version 2.0)
21	127106137	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs (Version 2.0)
22	127106225	NOC:Model Predictive Control: Theory and Applications
23	127108005	NOC:Teaching and Learning in Engineering (TALE)
24	127108015	NOC:Teaching and Learning in General Programs
25	127108016	NOC:TALE 2 - Course Design and Instruction of Engineering Courses
26	127108135	NOC:NBA Accreditation and Teaching Learning in Engineering (NATE)
	Special Lecture Series	
1	128106001	ACM Summer School on Graph Theory and Graph Algorithms
2	128106002	ACM Summer School in Data Science
3	128106003	Topics in Theoritical Computer Science

4	128106004	Researching Anglo-Indians in India and the Diaspora
5	128106005	Dravidian Temple Architecture and Construction Techniques
6	128106006	ACM Summer School in Data Science (Bangalore)
7	128106007	ACM Summer School on Algorithmic Game Theory
8	128106008	ACM Summer School on Graph Theory and Graph Algorithms (Dr. N.S. Narayanaswamy)
9	128106009	ACM Summer School on Compiler Design and Construction
10	128106010	ACM Summer School on Geometric Algorithms and their Applications
11	128106011	ACM Summer School on Algorithmic and Theoretical Aspects of Machine Learning
12	128106012	ACM Winter School on Hybrid Cloud
13	128106013	ACM Indian Summer School on Programming Languages: Principles and Practice
14	128106014	ACM Winter School 2019 on High Performance Computing
15	128106015	Thermodynamics of Materials
16	128106017	ACM India Summer School on Program Execution
17	128108016	ACM India Summer School on IoT and Embedded Systems

Law

1	129105004	NOC:Introduction to Law on Electricity
2	129105005	NOC:Legal and Regulatory Issues in Biotechnology
3	129106001	NOC:Right to Information and Good Governance
4	129106002	NOC:Constitution of India and Environmental Governance: Administrative and Adjudicatory Process
5	129106003	NOC:Constitutional Studies

Economics

1	130106001	NOC:Introduction to Econometrics
2	130106113	NOC:Environmental and Resource Economics