

# DIGIMAT LEARNING MANAGEMENT PLATFORM

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

The HTML-5 based Assistive Technology Platform for Streaming

1,19,237 NPTEL Video Lectures in LAN / WiFi (PCs, Laptops, Smartphones & Tablets)

**WATCH NPTEL VIDEO WITHOUT PLAYING**  
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- \* Stream 1,19,200+ Educational Videos without
- \* Two Different Learning Experience in a Single Platform
- \* 24 Million+ Thumbnails from 77,000+ Hours of Video
- \* Enhanced through Browser based Assistive Technology for Impaired, Deaf, Learning Disability Students

**1.2 LAKH+ VIDEOS**

Languages: Hindi, Tamil, Kannada, Malayalam, English

**DIGIMAT - OER INTEGRATED LEARNING MANAGEMENT PLATFORM**  
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- HTML5
- Assistive Technology
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Embracing the usage of Technology in the field of Education as per NEP 2020

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## NPTEL Video Courses Information in Supplementary Formats

(Document Last Updated : November 19, 2024)

No	NPTEL Information Summary	Status	Courses	Lectures
1	NPTEL Video Courses (2003 to October 2024)	Completed	2,563	1,19,237
2	NPTEL Video Courses (PDF Transcription)	Completed	2,169	98,102
3	NPTEL Video Courses (English Subtitles)	Completed	2,094	94,289
4	NPTEL Video Courses (Tamil Subtitles)	Completed	2,094	94,193
5	NPTEL Video Courses (January to April 2025)	New Courses	105	---

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## NPTEL VIDEO COURSES INFORMATION IN SUPPLEMENTARY FORMATS

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

Total NPTEL Video Courses : 2,668 | Total NPTEL Video Lectures : 1,19,237 (Updated: November 19, 2024)

No.	ID	Name of the Engineering Discipline	Total Video Courses	Total Video Lectures	Size (GB)
1	101	Aerospace Engineering	63	2,938	900
2	102	Biotechnology	103	4,431	1,488
3	103	Chemical Engineering	141	6,387	2,246
4	104	Chemistry and Biochemistry	109	5,133	2,096
5	105	Civil Engineering	210	9,519	2,807
6	106	Computer Science and Engineering	235	11,552	3,081
7	107	Engineering Design	23	743	320
8	108	Electrical Engineering	229	12,004	3,621
9	109	Humanities and Social Sciences	257	9,581	3,406
10	110	Management	196	9,085	2,246
11	111	Mathematics	191	9,372	2,336
12	112	Mechanical Engineering	304	12,513	3,504
13	113	Metallurgy and Material Science	98	4,127	1,204
14	114	Ocean Engineering	33	1,531	568
15	115	Physics	109	5,121	1,531
16	116	Textile Engineering	15	488	295
17	117	Electronics and Communication Engineering	100	4,461	1,131
18	118	Nanotechnology	2	85	54
19	119	Atmospheric Science	3	121	51
20	120	Environmental Science	2	---	---
21	121	General	16	568	273
22	122	Basic Courses (Semester 1 and 2)	21	657	170
23	123	Mining Engineering	8	336	57
24	124	Architecture	34	1,342	335
25	126	Agriculture	35	1,664	280
26	127	Multi-Disciplinary	67	2,761	630
27	128	Special Lecture Series	33	1,102	483
28	129	Law	15	632	80
29	130	Economics	10	588	57
30	MED	Medical Courses	6	395	83
Total :			2,668	1,19,237	35,333

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

35	<a href="#">101104075</a>	28	NOC:Advance Aircraft Maintenance	Y	Y	Y	19
36	<a href="#">101104076</a>	40	NOC:Introduction to Finite Volume Methods-II	Y	Y	Y	16
37	<a href="#">101105077</a>	73	NOC:Satellite Attitude Dynamics and Control	Y	Y	Y	25
38	<a href="#">101101079</a>	67	NOC:Introduction to Aerospace Engineering	Y	Y	Y	34
39	<a href="#">101104078</a>	60	NOC:Introduction to Rocket Propulsion	---	Y	Y	15
40	<a href="#">101105081</a>	40	NOC:Vibration and Structural Dynamics	---	Y	Y	11
41	<a href="#">101106082</a>	36	NOC:Rocket Propulsion	Y	Y	Y	77
42	<a href="#">101105084</a>	42	NOC:Aircraft Structures - I	Y	Y	Y	21
43	<a href="#">101104084</a>	60	NOC:Introduction to Airbreathing Propulsion	Y	Y	Y	41
44	<a href="#">101101083</a>	86	NOC:Introduction to Aircraft Design	Y	Y	Y	9.0
45	<a href="#">101105085</a>	65	NOC:Introduction to CFD	Y	Y	---	30
46	<a href="#">101105083</a>	99	NOC:Space Flight Mechanics	Y	Y	Y	52
47	<a href="#">101104083</a>	26	NOC:UAV Design - Part II	Y	Y	Y	9.1
48	<a href="#">101101086</a>	36	NOC:Introduction to Launch Vehicle Analysis and Design	Y	Y	Y	2.2
49	<a href="#">101101087</a>	121	NOC:Lighter than Air Systems	Y	Y	Y	2.9
50	<a href="#">101104086</a>	40	NOC:Computational Science in Engineering	Y	Y	Y	3.1
51	<a href="#">101108086</a>	60	NOC:Gasdynamics: Fundamentals and Applications	Y	Y	Y	5.7
52	<a href="#">101105088</a>	69	NOC:Fundamentals of Theoretical and Experimental Aerodynamics	---	Y	---	6.5
53	<a href="#">101105089</a>	69	NOC:Aerodynamic Design of Axial Flow Compressors and Fans	Y	Y	Y	8.8
54	<a href="#">101102090</a>	48	NOC:Elements of Mechanical Vibration	---	Y	---	6.9
55	<a href="#">101105090</a>	62	NOC:Smart Structures	---	Y	---	4.6
56	<a href="#">101105091</a>	64	NOC:Aeroengine Gas Turbine Cycles	---	Y	---	6.9
57	<a href="#">101104330</a>	60	NOC:Introduction to Aircraft Control System	Y	Y	Y	3.1
58	<a href="#">101105331</a>	40	NOC:Combustion of Solid Fuels and Propellants	Y	Y	Y	3.0
59	<a href="#">101105332</a>	40	NOC:Aerospace Structural Analysis	---	Y	---	3.1
60	<a href="#">101105333</a>	60	NOC:Fundamentals of Supersonic and Hypersonic Flow	---	Y	---	5.3
61	<a href="#">101104450</a>	62	NOC:Applied Computational Fluid Dynamics	---	Y	---	6.6
62	<a href="#">101104545</a>	---	NOC:Advanced Aircraft Control Systems with MATLAB-SIMULINK	---	---	---	---
63	<a href="#">101104546</a>	---	NOC:Wind Energy	---	---	---	---

### Discipline : Biotechnology

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

1	<a href="#">102101003</a>	39	Biomathematics	Y	Y	Y	29
2	<a href="#">102101007</a>	40	Proteomics: Principles and Techniques	Y	Y	Y	34
3	<a href="#">102102033</a>	28	Enzyme Science and Engineering	Y	Y	Y	4.9
4	<a href="#">102104042</a>	40	Animal Physiology	Y	Y	Y	15
5	<a href="#">102104043</a>	40	Bio electricity	Y	Y	Y	12
6	<a href="#">102106022</a>	36	Downstream Processing	Y	Y	Y	17
7	<a href="#">102106026</a>	40	Thermodynamics	Y	Y	Y	17

8	102107028	41	Analytical Technologies in Biotechnology	Y	Y	Y	24
9	102101050	21	NOC:Mass spectrometry based proteomics	Y	Y	Y	1.5
10	102106048	20	NOC:Principles of Downstream techniques in Bioprocess	Y	Y	Y	2.4
11	102101049	21	NOC:Proteins and Gel-Based Proteomics	Y	Y	Y	1.7
12	102106051	40	NOC:Biostatistics and Design of Experiments	Y	Y	Y	14
13	102106053	21	NOC:Bioreactors	Y	Y	Y	5.3
14	102104052	15	NOC:Human Molecular Genetics	Y	Y	Y	1.2
15	102101054	40	NOC:Interactomics: Protein Arrays and Label-free Biosensors	Y	Y	Y	28
16	102106057	40	NOC:Medical Biomaterials	Y	Y	Y	15
17	102104056	19	NOC:Functional Genomics	Y	Y	Y	1.6
18	102101056	40	NOC:Introduction to Biostatistics	Y	Y	Y	18
19	102103056	24	NOC:Introduction to Dynamical Models in Biology	Y	Y	Y	5.2
20	102104057	40	NOC:Bioenergy	Y	Y	Y	2.2
21	102107058	20	NOC:Biomedical Nanotechnology	Y	Y	Y	4.7
22	102101058	40	NOC:Introduction to Mechanobiology	Y	Y	Y	34
23	102104058	60	NOC:Animal Physiology	Y	Y	Y	2.3
24	102104059	40	NOC:Cell Culture Technologies	Y	Y	Y	1.4
25	102104060	40	NOC:Forest Biometry	Y	Y	Y	1.8
26	102105058	60	NOC:Industrial Biotechnology	Y	Y	Y	15
27	102106066	18	NOC:Demystifying the Brain	Y	Y	Y	30
28	102104061	20	NOC:Introduction To Professional and Scientific Communication	Y	Y	Y	5.3
29	102104062	20	NOC:Bioelectrochemistry	Y	Y	Y	3.9
30	102104063	20	NOC:Bioenergetics Of Life Processes	Y	Y	Y	3.9
31	102101067	40	NOC:Introductory Mathematical Methods for Biologists	Y	Y	Y	36
32	102101055	40	NOC:Introduction to Proteomics	Y	Y	Y	16
33	102106065	69	NOC:BioInformatics:Algorithms and Applications	Y	Y	Y	34
34	102105064	60	NOC:Aspects Of Biochemical Engineering	Y	Y	Y	16
35	102101068	40	NOC:Bioengineering: An Interface with Biology and Medicine	Y	Y	Y	35
36	102104068	40	NOC:Wildlife Conservation	Y	Y	Y	13
37	102104069	40	NOC:Nanotechnology in Agriculture	Y	Y	Y	6.4
38	102105068	20	NOC:Biomicrofluidics	Y	Y	Y	5.7
39	102106068	103	NOC:Computational Systems Biology	Y	Y	Y	126
40	102106069	69	NOC:Material and Energy Balances	Y	Y	Y	60
41	102106070	40	NOC:Computer Aided Drug Design	Y	Y	Y	38
42	102101072	40	NOC:Applications of Interactomics using Genomics and Proteomics Technologies	Y	Y	Y	42
43	102104073	36	NOC:Wild Life Ecology	Y	Y	Y.	25
44	102108071	20	NOC:Learning about Learning: A Course on Neurobiology of Learning and Memory	Y	Y	Y	3.8

45	102101076	80	NOC:Introduction to Proteogenomics	Y	Y	Y	55
46	102103074	41	NOC:Genetic Engineering: Theory and Application	Y	Y	Y	34
47	102106080	29	NOC:Plant Cell Bioprocessing	Y	Y	Y	39
48	102106081	37	NOC:Tissue Engineering	Y	Y	Y	53
49	102107075	20	NOC:Plant Developmental Biology	Y	Y	Y	3.3
50	102108077	63	NOC:Drug Delivery: Principles and Engineering	Y	Y	Y	9.5
51	102108078	61	NOC:Fundamentals of Micro and Nanofabrication	Y	Y	Y	14
52	102104082	36	NOC:Forests and their Management	Y	Y	Y	36
53	102101082	60	NOC:Interactomics: Basics and Applications	Y	Y	Y	58
54	102108082	58	NOC:Optical Spectroscopy and Microscopy: Fundamentals of Optical Measurements and Instrumentation	Y	Y	Y	11
55	102106082	87	NOC:Thermodynamics for Biological Systems: Classical and Statistical Aspect	Y	Y	Y	39
56	102103083	45	NOC:Experimental Biotechnology	Y	Y	Y	26
57	102105083	60	NOC:Immunology	Y	Y	---	23
58	102106084	28	NOC:Introduction to Developmental Biology	Y	Y	Y	5.4
59	102106083	81	NOC:Transport Phenomena in Biological Systems	Y	Y	Y	11
60	102103086	24	NOC:Biointerface Engineering	---	Y	---	3.2
61	102104086	36	NOC:Conservation Economics	Y	Y	Y	11
62	102105086	37	NOC:Metabolic Engineering	Y	Y	Y	4.2
63	102105087	63	NOC:Environmental Chemistry and Microbiology	Y	Y	Y	6.8
64	102106086	40	NOC:Bioreactor Design and Analysis	Y	Y	Y	2.6
65	102106087	34	NOC:Biochemistry (IITM)	Y	Y	Y	3.9
66	102107086	60	NOC:Structural Biology	---	Y	Y	20
67	102108086	33	NOC:Cell Biology: Cellular Organization, Division and Processes	Y	Y	Y	2.9
68	102104088	36	NOC:Conservation Geography	Y	Y	Y	8.4
69	102105088	52	NOC:Environmental Biotechnology	Y	Y	---	8.3
70	102105089	60	NOC:Fundamentals of Protein Chemistry	Y	Y	Y	5.3
71	102105090	53	NOC:Introduction to Biomedical Imaging Systems	Y	Y	---	7.1
72	102101091	61	NOC:Maternal Infant Young Child Nutrition	Y	Y	Y	8.0
73	102103091	50	NOC:Basics of Biology	Y	Y	Y	9.8
74	102103092	49	NOC:Data Analysis for Biologists	Y	Y	Y	8.3
75	102103093	49	NOC:Genome Editing and Engineering	---	Y	Y	4.8
76	102106093	60	NOC:Cellular Biophysics: A Framework for Quantitative Biology	Y	Y	Y	3.3
77	102106094	51	NOC:Medical Image Analysis	Y	Y	Y	3.6
78	102106095	37	NOC:Organ Printing	---	Y	---	3.3
79	102106096	58	NOC:Introduction to Cell Biology	Y	Y	Y	3.0
80	102101097	62	NOC:Maternal Infant Young Child Nutrition (Hindi)	---	Y	---	8.9
81	102103097	47	NOC:Enzyme Sciences and Technology	Y	Y	Y	9.7

82	102106097	62	NOC:RNA Biology	Y	Y	Y	9.8
83	102106098	84	NOC:Biomechanics	Y	Y	Y	6.6
84	102104099	34	NOC:Neurobiology	Y	Y	---	1.0
85	102105099	60	NOC:Next Generation Sequencing Technologies: Data Analysis and Applications	Y	Y	Y	4.9
86	102105100	60	NOC:Computational Neuroscience	---	Y	---	5.1
87	102105101	20	NOC:Electrophysiology of Heart	Y	Y	Y	1.9
88	102103341	52	NOC:Molecular Biology	Y	Y	Y	11
89	102105342	63	NOC:Pharmacognosy and Metabolic Engineering	---	Y	---	4.9
90	102106339	44	NOC:Computational Genomics	---	Y	---	5.8
91	102106340	60	NOC:Human Physiology	Y	Y	---	6.9
92	102106343	63	NOC:I Think Biology	Y	Y	Y	6.4
93	102106345	97	NOC:Classics in Neuroscience	---	Y	Y	4.4
94	102108344	55	NOC:Microsensors, Implantable Devices and Rodent Surgeries for Biomedical Applications	Y	Y	---	5.7
95	102106102	33	Introduction to Synthetic Biology	---	Y	---	4.1
96	102104459	60	NOC:Design for Biosecurity	Y	Y	---	16
97	102106456	40	NOC:Advances in Omics	---	Y	---	9.1
98	102106457	66	NOC:Statistics for Biomedical Engineers	---	Y	---	13
99	102103555	---	NOC:Microbial Biotechnology	---	---	---	---
100	102105554	---	NOC:Introduction to Complex Biological Systems	---	---	---	---
101	102105556	---	NOC:Biological Data Analysis and Visualization with R	---	---	---	---
102	102106553	---	NOC:Advanced Fluorescence Microscopy and Image Processing	---	---	---	---
103	102107557	---	NOC:Experimental Nanobiotechnology	---	---	---	---

**Discipline : Chemical Engineering**

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

1	103101001	41	Advanced Chemical Reaction Engineering (PG)	Y	Y	Y	31
2	103101003	26	Advanced Process Control	Y	Y	Y	34
3	103101008	39	Chemical Reaction Engineering II	Y	Y	Y	34
4	103101111	49	Advanced Numerical Analysis	Y	Y	Y	41
5	103102012	40	Heterogeneous Catalysis and Catalytic Processes	Y	Y	Y	19
6	103103034	39	Mass Transfer Operations I	Y	Y	Y	14
7	103103039	46	Process Design Decisions and Project Economics	Y	Y	Y	27
8	103104044	40	Fluid Mechanics	Y	Y	Y	15
9	103104046	40	Mass Transfer II	Y	Y	Y	16
10	103104050	41	Plantwide Control of Chemical Processes	Y	Y	Y	16
11	103105054	40	Biochemical Engineering	Y	Y	Y	8.5
12	103105057	40	Microscale Transport Processes	Y	Y	Y	12
13	103105059	40	Multiphase Flow	Y	Y	Y	11

14	103105061	41	Novel Separation Processes	Y	Y	Y	19
15	103105064	44	Process Control and Instrumentation	Y	Y	Y	11
16	103105066	40	Instability and Patterning of Thin Polymer Films	Y	Y	Y	12
17	103105106	41	Advanced Mathematical Techniques in Chemical Engineering	Y	Y	Y	12
18	103106070	35	Chemical Engineering Thermodynamics	Y	Y	Y	3.1
19	103106073	47	Computational Fluid Dynamics	Y	Y	Y	21
20	103106074	40	Computational Techniques	Y	Y	Y	20
21	103106103	40	Particle Characterization (PG)	Y	Y	Y	16
22	103106113	45	Multiphase flows: Analytical solutions and Stability Analysis	Y	Y	Y	34
23	103106114	59	NOC: Introduction to Time-Frequency Analysis and Wavelet Transforms	Y	Y	Y	5.3
24	103107081	40	Chemical Technology - I	Y	Y	Y	29
25	103107093	43	Process Integration	Y	Y	Y	55
26	103108097	40	Chemical Reaction Engineering	Y	Y	Y	16
27	103108098	40	Fundamentals of Transport Processes	Y	Y	Y	19
28	103108099	40	Fundamentals of Transport Processes - II	Y	Y	Y	9.2
29	103108100	43	Modern Instrumental Methods of Analysis	Y	Y	Y	20
30	103106112	55	Statistics for Experimentalists	Y	Y	Y	28
31	103106118	45	NOC: MATLAB Programming for Numerical Computation	Y	Y	Y	9.9
32	103106115	39	Chemical Engineering Principles of CVD Processes	Y	Y	Y	18
33	103106119	62	NOC: Computational Fluid Dynamics	Y	Y	Y	21
34	103105121	20	NOC: Introduction to Process Modeling in Membrane Separation Process	Y	Y	Y	5.2
35	103106120	19	NOC: Introduction to Statistical Hypothesis Testing	Y	Y	Y	6.4
36	103106116	60	Chemical Reaction Engineering 1 (Homogeneous Reactors)	Y	Y	Y	59
37	103106117	43	Chemical Reaction Engineering 2 (Heterogeneous Reactors)	Y	Y	Y	41
38	103105122	40	NOC: Soft Nano Technology	Y	Y	Y	10
39	103105124	25	NOC: Adiabatic Two-Phase Flow & Flow Boiling in Microchannel	Y	Y	Y	6.0
40	103107123	20	Mechanical Operations	Y	Y	Y	4.3
41	103108124	41	NOC: Atomic and Molecular Absorption Spectrometry for Pollution Monitoring	Y	Y	Y	8.7
42	103106123	112	NOC: Applied Time-Series Analysis	Y	Y	Y	30
43	103107125	40	NOC: Waste to Energy Conversion	Y	Y	Y	11
44	103108123	71	NOC: Transport Processes I: Heat and Mass Transfer	Y	Y	Y	12
45	103108127	38	NOC: Trace and Ultra-trace Analysis of Metals using Atomic Absorption Spectrometry	Y	Y	Y	11
46	103101127	40	NOC: Introduction to Evolutionary Dynamics	Y	Y	Y	35
47	103105127	65	NOC: Phase Equilibrium Thermodynamics	Y	Y	Y	5.0
48	103105128	60	NOC: Transport Phenomena	Y	Y	Y	18
49	103107127	20	NOC: Unit Operations of Particulate Matter	Y	Y	Y	3.9
50	103106131	63	NOC: Rheology of Complex Materials	Y	Y	Y	30



51	103103135	12	NOC:Measurement Technique in Multiphase Flows	Y	Y	Y	3.3
52	103103133	12	NOC:An Introduction to Cardiovascular Fluid Mechanics	Y	Y	Y	1.1
53	103108138	22	NOC:Inductive Couple Plasma Atomic Emmission Spectrometry (ICP-AES) for Pollution Monitoring	Y	Y	Y	5.9
54	103103134	24	NOC:Multiphase Microfluidics	Y	Y	Y	4.0
55	103104129	51	NOC:Thermodynamics Of Fluid Phase Equilibria	Y	Y	Y	7.2
56	103101137	60	NOC:Heat Transfer	Y	Y	Y	24
57	103103132	31	NOC:Fluidization Engineering	Y	Y	Y	4.5
58	103105130	60	NOC:Chemical Process Instrumentation	Y	Y	Y	16
59	103103136	22	NOC:Multiphase Flows	Y	Y	Y	6.7
60	103103139	24	NOC:Introduction to Polymer Physics (IIT-G)	Y	Y	Y	11
61	103103140	22	NOC:Natural Gas Engineering	Y	Y	Y	8.3
62	103105139	60	NOC:Optimization in Chemical Engineering	Y	Y	Y	19
63	103105140	60	NOC:Heat Transfer (2018)	Y	Y	Y	18
64	103107139	60	NOC:Introduction to Polymer Physics (IIT-R)	Y	Y	Y	11
65	103108139	21	NOC:Infrared Spectroscopy for Pollution Monitoring	Y	Y	Y	5.2
66	103101141	60	NOC:Chemical Reaction Engineering-II	Y	Y	Y.	37
67	103101142	48	NOC:Chemical Process Control	Y	Y	Y	17
68	103103144	42	NOC:Chemical Engineering Thermodynamics	Y	Y	Y	13
69	103103145	41	NOC:Mass Transfer Operations-I	Y	Y	Y	27
70	103103146	41	NOC:Transport Phenomena of Non-Newtonian Fluids	Y	Y	Y	6.6
71	103103147	33	NOC:Fluid Flow Operations	Y	Y	Y	20
72	103106148	52	NOC:Process Control - Design, Analysis and Assessment	Y	Y	Y	68
73	103107143	20	NOC:Equipment Design: Mechanical Aspects	Y	Y	Y	4.0
74	103106149	121	System Identification	Y	Y	---	153
75	103103152	35	NOC:Chemical Process Intensification	Y	Y	Y	22
76	103103153	30	NOC:Chemical Reaction Engineering - I	Y	Y	Y	17
77	103103154	32	NOC:Mass Transfer Operations II	Y	Y	Y	19
78	103103155	37	NOC:Mechanical Unit Operations	Y	Y	Y	26
79	103104151	63	NOC:Chemical Engineering Thermodynamics	Y	Y	Y	15
80	103105160	60	NOC:Flow through Porous Media	Y	Y	Y	16
81	103105161	60	NOC:Fundamentals of Particle and Fluid Solid Processing	Y	Y	Y	16
82	103106158	70	NOC:Fluid and Particle Mechanics	Y	Y	Y	90
83	103106159	116	NOC:Continuum Mechanics and Transport Phenomena	Y	Y	Y	84
84	103107156	60	NOC:Chemical Process Safety	Y	Y	Y	9.9
85	103107157	40	NOC:Technologies For Clean And Renewable Energy Production	Y	Y	Y	8.3
86	103102016	37	Interfacial Engineering	---	Y	---	8.7
87	103103162	31	NOC:Advanced Thermodynamics	Y	Y	Y	25
88	103103165	35	NOC:Basic Principles and Calculations in Chemical Engineering	Y	Y	Y	15

89	<a href="#">103103164</a>	37	NOC:Computer Aided Applied Single Objective Optimization	Y	Y	Y	20
90	<a href="#">103108162</a>	35	NOC:Electrochemical Technology in Pollution Control	Y	Y	Y	21
91	<a href="#">103106162</a>	61	NOC:Environmental Quality Monitoring and Analysis	Y	Y	Y	51
92	<a href="#">103103163</a>	36	NOC:Membrane Technology	Y	Y	Y	17
93	<a href="#">105106204</a>	48	NOC:Colloids and Surfaces	Y	Y	Y	9.2
94	<a href="#">103105166</a>	60	NOC:Plant Design and Economics	Y	Y	---	25
95	<a href="#">105106205</a>	87	NOC:Polymers: Concepts, Properties, Uses and Sustainability	Y	Y	Y	13
96	<a href="#">103103206</a>	38	NOC:Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	Y	Y	---	5.2
97	<a href="#">103103207</a>	37	NOC:Biomass Conversion and Biorefinery	Y	Y	Y	5.8
98	<a href="#">103107206</a>	60	NOC:Polymer Reaction Engineering	Y	Y	Y	6.0
99	<a href="#">103107207</a>	60	NOC:Process Equipment Design	Y	Y	Y	11
100	<a href="#">103107208</a>	60	NOC:Advanced Thermodynamics and Molecular Simulations	Y	Y	Y	12
101	<a href="#">103101209</a>	61	NOC:Introduction to Interfacial Waves	Y	Y	---	5.4
102	<a href="#">103103209</a>	35	NOC:Aspen Plus® Simulation Software-A basic course for beginners	Y	Y	Y	6.3
103	<a href="#">103105209</a>	60	NOC:Material and Energy Balance Computations	Y	Y	Y	6.9
104	<a href="#">103105210</a>	64	NOC:Principles and Practices of Process Equipment and Plant Design	Y	Y	Y	7.2
105	<a href="#">103102211</a>	65	NOC:Fluid Mechanics and its Applications	---	Y	Y	3.4
106	<a href="#">103103211</a>	25	NOC:Physical and Electrochemical Characterizations in Chemical Engineering	---	Y	---	3.3
107	<a href="#">103107211</a>	60	NOC:Chemical Process Utilities	Y	Y	Y	6.2
108	<a href="#">103107212</a>	60	NOC:Physico-Chemical Processes for Waste Water Treatment	Y	Y	Y	6.1
109	<a href="#">103103031</a>	40	Heat Transfer	---	Y	Y	20
110	<a href="#">103101215</a>	69	NOC:Hydrogen Energy:Production,Storage,Transportation and Safety	Y	Y	Y	7.8
111	<a href="#">103105215</a>	60	NOC:Mathematical Modelling and Simulation of Chemical Engineering Process	Y	Y	Y	5.2
112	<a href="#">103105216</a>	60	NOC:Advanced Process Dynamics	Y	Y	Y	7.0
113	<a href="#">103106214</a>	40	Synthetic and Natural Supramolecular Architectures: An Approach Towards Molecular Technology	---	Y	---	6.1
114	<a href="#">103107215</a>	60	NOC:Basic Environmental Engineering and Pollution Abatement	Y	Y	Y	5.6
115	<a href="#">103103217</a>	43	NOC:Chemical Process Technology	---	Y	Y	4.5
116	<a href="#">103103218</a>	35	NOC:Inorganic Chemical Technology	Y	Y	Y	5.7
117	<a href="#">103105217</a>	40	NOC:Metallocene and Metal-Carbene based Organometallic Compounds as Industrially Important Advanced Polyolefin Catalysts	Y	Y	---	4.2
118	<a href="#">103105218</a>	60	NOC:Chemical Engineering Fluid Dynamics and Heat Transfer	Y	Y	Y	5.0
119	<a href="#">103105219</a>	60	NOC:Characterization of Polymers, Elastomers and Composites	---	Y	---	8.2
120	<a href="#">103107217</a>	40	NOC:Biological Process Design for Wastewater Treatment	Y	Y	Y	3.9
121	<a href="#">103103220</a>	35	NOC:Organic Chemical Technology	Y	Y	Y	6.7
122	<a href="#">103103221</a>	36	NOC:Solid-Fluid Operations	Y	Y	---	5.5
123	<a href="#">103103222</a>	30	NOC:Energy Conversion Technologies (Biomass and Coal)	Y	Y	Y	3.4

124	103103223	21	NOC:Petroleum Reservoir Engineering	Y	Y	Y	3.7
125	103105220	60	NOC:Matlab-Based Programming Lab in Chemical Engineering	---	Y	---	6.5
126	103105221	40	NOC:Petroleum Technology	Y	Y	Y	4.3
127	103105222	48	NOC:Rheology and Processing of Paints, Plastic and Elastomer Based Composites	Y	Y	Y	6.3
128	103105223	60	NOC:Petroleum Formation Evaluation	---	Y	---	5.4
129	103106220	62	NOC:Artificial Lift	Y	Y	Y	6.4
130	103107220	60	NOC:Advanced Reaction Engineering	---	Y	---	7.2
131	103107221	60	NOC:Polymer Process Engineering	Y	Y	Y	7.0
132	103108220	60	NOC:Transport Processes	---	Y	---	8.3
133	103101354	60	NOC:Modeling Stochastic Phenomena for Engineering Applications: Part-1	---	Y	---	4.0
134	103102352	19	NOC:Computational Process Design	---	Y	---	4.5
135	103103355	38	NOC:Applied Statistical Thermodynamics	---	Y	---	3.8
136	103105353	60	NOC:Momentum Transfer in Fluids	Y	Y	---	5.1
137	103105460	60	NOC:Enhanced Oil Recovery Techniques	---	Y	---	11
138	103105461	40	NOC:Adsorption Science and Technology: Fundamentals and Applications	---	Y	---	6.9
139	103101568	---	NOC:Computational Quantum Chemistry	---	---	---	---
140	103104569	---	NOC:Methods of Adhesion Measurement for Pressure Sensitive Adhesives: Theory and Practice	---	---	---	---
141	103106570	---	NOC:Interfacial Engineering	---	---	---	---

**Discipline : Chemistry and Biochemistry**

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1	104104011	40	Chemistry of Materials	Y	Y	Y	18
2	104104026	40	Mathematics for Chemistry	Y	Y	Y	9.1
3	104104066	40	Advance Analytical Course	Y	Y	Y	13
4	104105031	40	Bio-inorganic chemistry	Y	Y	Y	12
5	104105033	40	Co-ordination chemistry (chemistry of transition elements)	Y	Y	Y	9.6
6	104105034	40	Heterocyclic Chemistry	Y	Y	Y	12
7	104105038	40	Organic photochemistry and pericyclic reactions	Y	Y	Y	11
8	104105039	41	Polymer Chemistry	Y	Y	Y	12
9	104105041	40	Rate processes	Y	Y	Y	11
10	104106048	25	Principles and Applications of Electron Paramagnetic Resonance Spectroscopy	Y	Y	Y	15
11	104108055	40	Essentials in Immunology	Y	Y	Y	11
12	104108056	40	Eukaryotic Gene Expression - basics and benefits	Y	Y	Y	20
13	104108057	49	Introductory Quantum Chemistry	Y	Y	Y	20
14	104108062	40	Introduction to Organometallic Chemistry	Y	Y	Y	18
15	104106072	25	NOC:Chemistry - I	Y	Y	Y	3.7

16	102105034	28	Bio-Chemistry I	Y	Y	Y	7.2
17	104105076	27	NOC:Biochemistry	Y	Y	Y	2.9
18	104106075	36	NOC:Application of Spectroscopic Methods in Molecular Structure Determination	Y	Y	Y	3.8
19	104106074	27	NOC:Chemistry-II	Y	Y	Y	8.0
20	104108078	40	NOC:Principles and Applications of NMR Spectroscopy	Y	Y	Y	11
21	104106077	34	NOC:Pericyclic Reactions and Organic Photochemistry	Y	Y	Y	7.1
22	104101079	20	NOC:Organo Metallic Chemistry	Y	Y	Y	8.1
23	104104080	40	NOC:Chemical Applications of Symmetry and Group Theory	Y	Y	Y	6.0
24	104106083	40	NOC:Chemistry I:Introduction To Quantum Chemistry and Molecular Spectroscopy	Y	Y	Y	10
25	104104082	45	NOC:Quantum Computing	Y	Y	Y	3.0
26	104104081	40	NOC:Mathematics for Chemistry	Y	Y	Y	2.4
27	104104084	40	NOC:Basics of Fluorescence Spectroscopy	Y	Y	Y	2.1
28	104104085	40	NOC:Laser: Fundamentals and Applications	Y	Y	Y	2.0
29	104101084	60	NOC:Chemical and Biological Thermodynamics: Principles to Applications	Y	Y	Y	55
30	104105084	60	NOC:Analytical Chemistry	Y	Y	Y	16
31	104105086	40	NOC:Stereochemistry	Y	Y	Y	11
32	104104086	55	NOC:Advanced Mathematical Methods for Chemistry	Y	Y	Y	38
33	104101092	20	NOC:Metal Mediated Synthesis - I	Y	Y	Y	19
34	104105088	40	NOC:Introduction to Molecular Thermodynamics	Y	Y	Y	12
35	104101090	60	NOC:Chemistry of Main Group Elements	Y	Y	Y	53
36	104101091	60	NOC:Transition Metal Organometallic Chemistry: Principles to Applications	Y	Y	Y	54
37	104105087	60	NOC:A Study Guide In Organic Retrosynthesis: Problem Solving Approach	Y	Y	Y	16
38	104106089	55	NOC:Introduction to Chemical Thermodynamics and Kinetics	Y	Y	Y	29
39	104101093	60	NOC:Inorganic Chemistry of Life: Principles and Perspectives	Y	Y	Y	42
40	104101094	68	NOC:Symmetry and Group Theory	Y	Y	Y	32
41	104101095	41	NOC:Computational Chemistry and Classical Molecular Dynamics	Y	Y	Y	28
42	104105093	40	NOC:Molecules in Motion	Y	Y	Y	11
43	104106093	62	NOC:Chemical Crystallography	Y	Y	Y	66
44	104106094	44	NOC:Advanced Chemical Thermodynamics and Kinetics	Y	Y	Y	63
45	104106096	56	NOC:Chemistry: Atomic Structure and Chemical Bonding	Y	Y	Y	37
46	104101099	63	NOC:Molecular Spectroscopy: A Physical Chemists Perspective	Y	Y	Y*	43
47	104101100	60	NOC:Advanced Transition Metal Organometallic Chemistry	Y	Y	Y	57
48	104104101	60	NOC:Solid State Chemistry	Y	Y	Y	22
49	104105102	53	NOC:Experimental Biochemistry	Y	Y	Y	24
50	104105103	60	NOC:Industrial Inorganic Chemistry	Y	Y	Y	17
51	104105104	20	NOC:Reactive Intermediates Carbene and Nitrene	Y	Y	Y	5.1

52	104106105	52	NOC:Electrochemical Impedance Spectroscopy	Y	Y	Y	69
53	104106106	69	NOC:Medicinal Chemistry	Y	Y	Y	78
54	104106107	68	NOC:Chemical Principles-II	Y	Y	Y	74
55	104108097	42	NOC:Multidimensional NMR Spectroscopy for Structural Studies of Biomolecules	Y	Y	Y	3.9
56	104108098	61	NOC:Symmetry and Structure in the Solid State	Y	Y	Y	18
57	104106108	8	Organic Chemistry Lab Certification	---	Y	---	18
58	104101115	40	NOC:Mechanisms in Organic Chemistry	Y	Y	Y	33
59	104101116	38	NOC:Metals In Biology	Y	Y	Y	34
60	104101117	60	NOC:NMR spectroscopy for Chemists and Biologists	Y	Y	Y	47
61	104102113	34	NOC:Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Y	Y	Y	30
62	104102114	15	NOC:Introductory Non-Linear Dynamics	Y	Y	Y	8.0
63	104103110	30	NOC:Principles Of Organic Synthesis	Y	Y	Y	27
64	104103111	32	NOC:Reagents In Organic Synthesis	Y	Y	Y	19
65	104103112	37	NOC:Thermodynamics: Classical to Statistical	Y	Y	Y	4.8
66	104104109	20	NOC:Bioinorganic Chemistry	Y	Y	Y	12
67	104105120	63	NOC:Organic Chemistry in Biology and Drug Development	Y	Y	Y	27
68	104106119	52	NOC:Introductory Organic Chemistry I	Y	Y	Y	56
69	104108118	43	NOC:Ultrafast Optics and Spectroscopy	Y	Y	Y	6.5
70	104102009	42	Bio-Physical Chemistry	Y	Y	---	46
71	104101121	19	NOC:Basics in Inorganic Chemistry	Y	Y	Y	11
72	104103121	35	NOC:Essentials of Biomolecules: Nucleic Acids and Peptides	Y	Y	Y	18
73	104106122	61	NOC:Fundamentals of Spectroscopy	Y	Y	Y	41
74	104106121	51	NOC:Quantitative Methods in Chemistry	Y	Y	Y	39
75	104101123	60	NOC:Transition Metal Organometallics in Catalysis and Biology	Y	Y	Y	44
76	104101122	67	NOC:Ultrafast Laser Spectroscopy	Y	Y	Y	55
77	104101125	61	NOC:Basic Statistical Mechanics	Y	Y	Y	14
78	104105124	42	NOC:Introduction to Polymer Science	Y	Y	Y	22
79	104108124	65	NOC:One and Two Dimensional NMR Spectroscopy for Chemists	Y	Y	Y	4.5
80	104101124	67	NOC:Quantum Chemistry of Atoms and Molecules	Y	Y	Y	37
81	104101126	38	NOC:Quantum Mechanics and Molecular Spectroscopy	Y	Y	Y	9.0
82	104101127	60	NOC:Essentials of Oxidation, Reduction and C_C Bond Formation. Application in Organic Synthesis	Y	Y	Y	5.1
83	104101128	46	NOC:Chemical Kinetics and Transition State Theory	Y	Y	Y	4.2
84	104105127	40	NOC:Structure, Stereochemistry and Reactivity of Organic Compounds and Intermediates: A Problem Solving Approach	Y	Y	---	7.3
85	104105128	42	NOC:Approximate Methods in Quantum Chemistry	Y	Y	Y	3.4
86	104106127	56	NOC:Symmetry, Stereochemistry and Applications	Y	Y	Y	3.8
87	104106128	64	NOC:Symmetry and Group Theory (2021)	Y	Y	Y	3.5

88	<a href="#">104101130</a>	77	NOC:Concepts of Chemistry for Engineering	Y	Y	Y	9.2
89	<a href="#">104104130</a>	40	NOC:Chemistry and Physics of Surfaces and Interfaces	Y	Y	Y	4.1
90	<a href="#">104105130</a>	60	NOC:Biological Inorganic Chemistry	Y	Y	---	4.7
91	<a href="#">104106131</a>	61	NOC:Introductory Organic Chemistry - II	Y	Y	Y	2.4
92	<a href="#">104108132</a>	56	NOC:Time Dependent Quantum Chemistry	Y	Y	Y	4.3
93	<a href="#">104101133</a>	58	NOC:Classics in Total Synthesis-I	---	Y	---	4.7
94	<a href="#">104101134</a>	62	NOC:Circular Dichroism and Mossbauer Spectroscopy for Chemists	Y	Y	Y	3.7
95	<a href="#">104101135</a>	60	NOC:NMR Spectroscopy for Structural Biology	---	Y	---	6.8
96	<a href="#">104101136</a>	60	NOC:Transition Metal Chemistry	Y	Y	Y	7.6
97	<a href="#">104105133</a>	40	NOC:Principles and Applications of Enolate Alkylation	Y	Y	Y	3.5
98	<a href="#">104101137</a>	60	NOC:Nuclear and Radiochemistry	---	Y	---	7.4
99	<a href="#">104106137</a>	43	NOC:Elementary Electrochemistry	Y	Y	Y	4.6
100	<a href="#">104106138</a>	26	NOC:Organic Chemistry-I (Tamil)	---	Y	---	2.0
101	<a href="#">104101139</a>	60	NOC:Fundamentals of Statistical Thermodynamics	Y	Y	Y	6.7
102	<a href="#">104105139</a>	60	NOC:Overview and Integration of Cellular Metabolism	Y	Y	Y	6.8
103	<a href="#">104101362</a>	60	NOC:Interpretative Molecular Spectroscopy	---	Y	---	4.7
104	<a href="#">104101366</a>	75	NOC:Many Body Methods in Quantum Chemistry	---	Y	---	19
105	<a href="#">104104364</a>	40	NOC:Supramolecular Chemistry-I	Y	Y	Y	3.1
106	<a href="#">104105365</a>	60	NOC:Elementary Thermodynamics for All	---	Y	---	4.3
107	<a href="#">104108363</a>	60	NOC:One and Two Dimensional NMR Spectroscopy: Concepts and Spectral Analysis	Y	Y	Y	7.8
108	<a href="#">104105085</a>	40	NOC:Co-ordination Chemistry (Chemistry of Transition Elements)	---	Y	---	19
109	<a href="#">104105462</a>	61	NOC:Molecular Rearrangements and Reactive Intermediates in Organic Synthesis	---	Y	---	7.3

### Discipline : Civil Engineering

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1	<a href="#">105101005</a>	38	Soil Dynamics	Y	Y	Y	19
2	<a href="#">105101006</a>	38	Structural Dynamics	Y	Y	Y	19
3	<a href="#">105101010</a>	40	Watershed Management	Y	Y	Y	41
4	<a href="#">105101082</a>	42	Fluid Mechanics	Y	Y	Y	9.6
5	<a href="#">105101084</a>	57	Soil Mechanics	Y	Y	Y	15
6	<a href="#">105101086</a>	40	Structural Analysis II	Y	Y	Y	9.8
7	<a href="#">105101134</a>	43	Geotechnical Earthquake Engineering	Y	Y	Y	37
8	<a href="#">105101143</a>	63	Geosynthetics Engineering: In Theory and Practice	Y	Y	Y	59
9	<a href="#">105102012</a>	41	Concrete Technology	Y	Y	Y	37
10	<a href="#">105102016</a>	30	Seismic Analysis of Structures	Y	Y	Y	27
11	<a href="#">105102088</a>	41	Building Materials and Construction	Y	Y	Y	12
12	<a href="#">105103021</a>	43	Advanced Hydraulics	Y	Y	Y	22
13	<a href="#">105103094</a>	40	Design of Steel Structures	Y	Y	---	9.1

14	105103096	40	Hydraulics	Y	Y	Y	20
15	105104029	44	Advanced Hydrology	Y	Y	Y	21
16	105104030	40	Concrete Engineering and Technology	Y	Y	Y	16
17	105104099	39	Environmental Air Pollution	Y	Y	Y	7.0
18	105104101	40	Surveying	Y	Y	Y	6.8
19	105104103	29	Water Resources Engineering	Y	Y	Y	3.5
20	105104131	40	Geotechnical Measurements and Explorations	Y	Y	Y	11
21	105104135	40	Application of Soil Mechanics	Y	Y	Y	11
22	105105039	40	Advanced Foundation Engineering	Y	Y	Y	12
23	105105043	40	Numerical Methods in Civil Engineering	Y	Y	Y	11
24	105105045	40	Probability Methods in Civil Engineering	Y	Y	Y	19
25	105105105	30	Design of Reinforced Concrete Structures	Y	Y	Y	6.3
26	105105106	40	Engineering Geology	Y	Y	Y	12
27	105105107	41	Introduction to Transportation Engineering	Y	Y	Y	8.2
28	105105108	40	Strength of Materials	Y	Y	Y	12
29	105106050	41	Advanced Structural Analysis	Y	Y	Y	18
30	105106051	40	Finite Element Analysis	Y	Y	Y	27
31	105106052	40	Geosynthetics and Reinforced Soil Structures	Y	Y	Y	17
32	105106053	42	Modern Construction Materials	Y	Y	Y	7.2
33	105106058	40	Urban Transportation Planning	Y	Y	Y	19
34	105106116	39	Mechanics of solids	Y	Y	Y	3.5
35	105106118	40	Pre-stressed Concrete Structures	Y	Y	Y	11
36	105106119	40	Water and Waste Water Engineering	Y	Y	Y	11
37	105107120	40	Foundation Engineering	Y	Y	Y	7.8
38	105107121	40	Modern Surveying Techniques	Y	Y	Y	1.9
39	105107123	40	Transportation Engineering II	Y	Y	Y	8.2
40	105108075	40	Ground Improvement Techniques	Y	Y	Y	11
41	105108079	40	Stochastic Hydrology	Y	Y	Y	19
42	105108080	42	Stochastic Structural Dynamics	Y	Y	Y	19
43	105108130	40	Water Resources Systems : Modeling Techniques and Analysis	Y	Y	Y	20
44	105105042	40	Ground Water Hydrology	Y	Y	Y	9.0
45	105101001	60	Advanced Geotechnical Engineering	Y	Y	Y	53
46	105106145	40	NOC:Sustainable River Basin Management	Y	Y	Y	2.8
47	105106149	57	NOC:Project Planning and Control	Y	Y	Y	6.5
48	105105150	25	NOC:Probability Methods in Civil Engineering	Y	Y	Y	2.8
49	105104147	65	NOC:Geology and Soil Mechanics	Y	Y	Y	4.9
50	105104148	32	NOC:Engineering Graphics	Y	Y	Y	1.6
51	105106151	68	NOC:Structural Dynamics	Y	Y	Y	12

52	105104152	20	NOC:Earth Sciences for Civil Engineering	Y	Y	Y	1.6
53	105108141	40	Finite Element method for vibration and Stability analyses	Y	Y	Y	14
54	105107155	20	NOC:Introduction to Geographic Information Systems	Y	Y	Y	5.3
55	105107156	20	NOC:Principles and Applications of Building Science	Y	Y	Y	6.2
56	105107157	20	NOC:GPS Surveying	Y	Y	Y	6.4
57	105105156	20	NOC:Visual Semiotics for Visual Communication	Y	Y	Y	7.6
58	105104156	20	NOC:Earth Sciences for Civil Engineering - Part 2	Y	Y	Y	2.1
59	105102159	40	Water Management	Y	Y	Y	27
60	105107158	40	NOC:Digital Land Surveying And Mapping	Y	Y	Y	11
61	105105157	40	NOC:Life Cycle Assessment	Y	Y	Y	11
62	105104157	32	NOC:Hydration, Porosity and Strength of Cementitious Materials	Y	Y	Y	2.4
63	105101160	22	NOC:Geotechnical Engineering Laboratory	Y	Y	Y	11
64	105104160	60	NOC:Mechanics of Solids	Y	Y	Y	4.6
65	105104161	37	NOC:Principles of Construction Management	Y	Y	Y	5.4
66	105104162	40	NOC:Foundation Design	Y	Y	Y	2.6
67	105105160	62	NOC:Integrated Waste Management for a Smart City	Y	Y	Y	16
68	105105161	51	NOC:Computational Hydraulics	Y	Y	Y	13
69	105105162	63	NOC:Design of Steel Structures	Y	Y	Y	18
70	105105165	20	NOC:Reinforced Concrete Road Bridges	Y	Y	Y	5.8
71	105105166	61	NOC:Structural Analysis - I	Y	Y	Y	17
72	105107160	20	NOC:Digital Image Processing of Remote Sensing Data	Y	Y	Y	5.2
73	105102160	42	NOC:Geoenvironmental Engineering (Environmental Geotechnology) Landfills, Slurry Ponds and Contaminated Sites	Y	Y	Y	29
74	105105169	22	NOC:Electronic Waste Management: Issues And Challenges	Y	Y	Y	5.9
75	105107174	20	NOC:Digital Elevation Models and Applications	Y	Y	Y	5.7
76	105104167	21	NOC:Photogeology In Terrain Evaluation	Y	Y	Y	4.7
77	105102175	55	NOC:Energy Efficiency, Acoustics and Daylighting in Building	Y	Y	Y	27
78	105106172	102	NOC:Mechanics of Materials	Y	Y	Y	18
79	105107173	60	NOC:Applied Environmental Microbiology	Y	Y	Y	15
80	105105168	61	NOC:Soil Mechanics, Geotechnical Engineering-I	Y	Y	Y	15
81	105105170	60	NOC:Mineral Resources: Geology, Exploration, Economics and Environment	Y	Y	Y	16
82	105105171	64	NOC:Introduction to Mineral Processing	Y	Y	Y	17
83	105101176	21	NOC:Geosynthetics Testing Laboratory	Y	Y	Y	20
84	105102176	56	NOC:Fire Protection, Services and Maintenance Management of Building	Y	Y	Y	28
85	105103176	36	NOC:Higher Surveying	Y	Y	Y	20
86	105103177	36	NOC:Unsaturated Soil Mechanics	Y	Y	Y	9.3
87	105104177	20	NOC:Photogeology In Terrain Evaluation - Part 2	Y	Y	Y	5.7
88	105104178	38	NOC:Introduction to Accounting and Finance for Civil Engineers	Y	Y	Y	11
89	105105176	60	NOC:Foundation Engineering	Y	Y	Y	18



90	105105177	60	NOC:Theory of Elasticity	Y	Y	Y	17
91	105105178	62	NOC:Wastewater Treatment and Recycling	Y	Y	Y	15
92	105105179	40	NOC:Fluid Inclusion in Mineral Principles, Methodology, Practice and Application	Y	Y	Y	12
93	105105180	42	NOC:Matrix Method of Structural Analysis	Y	Y	Y	9.0
94	105106176	44	NOC:Advanced Concrete Technology	Y	Y	Y	78
95	105106177	87	NOC:Glass in buildings: Design and Application	Y	Y	Y	64
96	105106178	75	NOC:Glass Processing Technology	Y	Y	Y	50
97	105107176	60	NOC:Environmental Engineering-Chemical Processes	Y	Y	Y	12
98	105103182	21	NOC:Subsurface Exploration: Importance and Techniques Involved	Y	Y	Y	8.8
99	105104183	43	NOC:Natural Hazards - Part 1	Y	Y	Y*	14
100	105105184	40	NOC:Plastic Waste Management	Y	Y	Y	11
101	105105185	60	NOC:Geotechnical Engineering-II Foundation Engineering	Y	Y	Y	16
102	105105186	43	NOC:Mass, Momentum and Energy Balances in Engineering Analysis	Y	Y	Y	11
103	105106187	29	NOC:Advanced Topics in the Science and Technology of Concrete	Y	Y	Y	39
104	105106188	47	NOC:Infrastructure Planning and Managements	Y	Y	Y	64
105	105107181	63	NOC:Environmental Remediation of Contaminated Sites	Y	Y	Y	16
106	105101196	53	NOC:Environmental Geotechnics	Y	Y	Y	17
107	105102195	47	NOC:Sustainable Materials and Green Buildings	Y	Y	Y	23
108	105102199	12	NOC:Scheduling Techniques in Projects	Y	Y	Y	9.1
109	105103192	37	NOC:Fluid Mechanics	Y*	Y	Y	15
110	105103193	24	NOC:Remote Sensing and GIS	Y	Y	Y	9.8
111	105104189	13	NOC:Structural Dynamics for Civil Engineers - SDOF systems	Y	Y	Y	6.4
112	105104190	38	NOC:Geomorphic Processes: Landforms and Landscapes	Y	Y	Y	13
113	105104191	48	NOC:Structural Geology	Y	Y	Y	38
114	105106197	40	NOC:Design of Masonry Structures	Y	Y	Y	85
115	105107194	20	NOC:Global Navigation Satellite Systems And Applications	Y	Y	Y	4.7
116	105106200	67	NOC:Characterization of Construction Materials	Y	Y	Y	53
117	105104200	57	NOC:Earthquake Geology: A tool for Seismic Hazard Assessment	Y	Y	Y	34
118	105101200	56	NOC:Environmental Geomechanics	Y	Y	Y	25
119	105107200	60	NOC:Geomorphology	Y	Y	Y	13
120	105105202	19	NOC:Geo Spatial Analysis in Urban Planning	Y	Y	Y	5.3
121	105101201	28	NOC:Geotechnical Engineering - 1	Y	Y	Y	47
122	105105203	63	NOC:Hydraulic Engineering	Y	Y	Y	17
123	105106201	20	NOC:Introduction to Civil Engineering Profession	Y	Y	Y	23
124	105106202	35	NOC:Maintenance and Repair of Concrete Structures	Y	Y	Y	26
125	105106203	56	NOC:Mechanical Characterization of Bituminous Materials	Y	Y	Y	40
126	105107201	56	NOC:Remote Sensing Essentials	Y	Y	Y	14
127	105105200	66	NOC:Soil Structure Interaction	Y	Y	Y	28

128	105105201	62	NOC:Water Supply Engineering	Y	Y	Y	20
129	105107204	40	NOC:Earthquake Resistant Design of Foundations	---	Y	---	5.9
130	105108204	64	NOC:Introduction to Engineering Seismology	Y	Y	Y	9.9
131	105105204	60	NOC:Introduction to Multimodal Urban Transportation Systems	Y	Y	Y	17
132	105103205	43	NOC:Municipal Solid Waste Management	Y	Y	Y	9.7
133	105103204	24	NOC:River Engineering	Y	Y	Y	6.6
134	105101206	67	NOC:Remote Sensing: Principles and Applications	Y	Y	Y	16
135	105102206	27	NOC:Safety in Construction	Y	Y	Y	5.4
136	105103206	22	NOC:Construction Methods and Equipment Management	Y	Y	Y	4.7
137	105103207	57	NOC:Advanced Soil Mechanics	Y	Y	Y	5.7
138	105104206	32	NOC:Development and Applications of Special Concretes	Y	Y	Y	3.9
139	105105207	70	NOC:Advanced Foundation Engineering	Y	Y	Y	7.8
140	105105208	60	NOC:Urban Transport Systems Planning	Y	Y	Y	7.1
141	105106206	51	NOC:Basic Construction Materials	Y	Y	Y	6.4
142	105107206	60	NOC:Geographic Information Systems	Y	Y	Y	13
143	105107207	60	NOC:Water and Waste Water Treatment	Y	Y	Y	8.1
144	105107208	60	NOC:Rock Engineering	Y	Y	Y	7.1
145	105101209	29	NOC:Dynamics of Structures	Y	Y	Y	2.9
146	105103209	36	NOC:Plates and Shells	Y	Y	Y	5.3
147	105103210	38	NOC:Optimization methods for Civil engineering	Y	Y	---	4.1
148	105105209	252	NOC:Structural Reliability	Y	Y	Y	4.2
149	105105210	60	NOC:Ground Improvement	Y	Y	Y	8.2
150	105105211	20	NOC:Remote Sensing of Leaf Area Index and Primary Productivity	Y	Y	Y	2.5
151	105105212	61	NOC:Rock Mechanics and Tunneling	Y	Y	Y	6.3
152	105107209	60	NOC:Finite Element Method and Computational Structural Dynamics	Y	Y	Y	12
153	105107210	60	NOC:Sustainable Transportation Systems	Y	Y	Y	7.1
154	105101213	58	NOC:Microwave Remote Sensing in Hydrology	---	Y	---	11
155	105101214	60	NOC:Groundwater Hydrology and Management	Y	Y	Y	4.8
156	105101215	60	NOC:Rural Water Resources Management	Y	Y	Y	4.4
157	105103213	83	NOC:Engineering Hydrology	Y	Y	Y	8.8
158	105103214	28	NOC:Expansive Soil	Y	Y	Y	2.9
159	105105213	63	NOC:Retrofitting and Rehabilitation of Civil Infrastructure	Y	Y	---	6.5
160	105105214	62	NOC:Surface Water Hydrology	Y	Y	Y	11
161	105105215	66	NOC:Traffic Engineering	---	Y	Y	11
162	105106213	77	NOC:Introduction to Lean Construction	Y	Y	Y	3.4
163	105107213	60	NOC:Air Pollution and Control	Y	Y	Y	6.8
164	105101216	52	NOC:Geotechnical Engineering-II	Y	Y	Y	12
165	105104216	17	NOC:Introductory Field Structural Geology	---	Y	---	4.3

166	105105216	43	NOC:Bridge Engineering	---	Y	---	5.3
167	105105217	60	NOC:Elastic Stability of Structures	---	Y	Y	4.0
168	105105218	35	NOC:Radiogenic Isotope Geology	---	Y	---	2.5
169	105105219	60	NOC:Availability and Management of Groundwater Resources	Y	Y	Y	5.0
170	105106216	23	NOC:Design of Connections in Steel Structures	Y	Y	Y	1.8
171	105107216	60	NOC:Underground Space Technology	Y	Y	Y	6.1
172	105107217	60	NOC:Environmental Modeling and Simulation	---	Y	---	6.4
173	105107218	60	NOC:Advanced Geomatics Engineering	---	Y	---	7.9
174	105107219	60	NOC:Pavement Materials (Under Pavement Engineering)	Y	Y	Y	8.0
175	105107220	62	NOC:Geometric Design of Highways	---	Y	---	5.9
176	105101221	60	NOC:Remote Sensing and GIS for Rural Development	Y	Y	Y	6.4
177	105103221	38	NOC:Vibration of Continuous Systems	---	Y	---	4.5
178	105105221	60	NOC:Soil Dynamics	Y	Y	---	5.2
179	105106221	54	NOC:Analysis and Design of Bituminous Pavements	Y	Y	---	8.1
180	105106222	44	NOC:FEM and Constitutive Modelling in Geomechanics	Y	Y	Y	6.4
181	105106223	65	NOC:The Evolution of the Earth and life	Y	Y	---	5.2
182	105103224	36	NOC:Reliability-Based Structural Design	---	Y	---	3.9
183	105104224	44	NOC:Earth Sciences for Civil Engineering (Hindi)	---	Y	---	4.5
184	105105224	69	NOC:Geotechnical Earthquake Engineering	---	Y	---	7.7
185	105105225	57	NOC:Earthquake Seismology	Y	Y	---	5.0
186	105105226	60	NOC:Engineering Geology	---	Y	---	8.6
187	105106224	67	NOC:Advanced Reinforced Concrete Design	---	Y	---	8.3
188	105106225	76	NOC:Admixtures and Special Concretes	Y	Y	Y	12
189	105107224	60	NOC:Plate Tectonics	Y	Y	Y	9.5
190	105107225	60	NOC:Earthquake Geotechnical Engineering	Y	Y	---	7.3
191	105103346	30	NOC:Applied Seismology for Engineers	---	Y	---	8.1
192	105103347	41	NOC:Structural Vibration	---	Y	---	3.6
193	105104348	42	NOC:Construction Management	---	Y	---	4.2
194	105104349	39	NOC:Laboratory Practices in Earth Sciences: Landscape Mapping	Y	Y	Y	5.5
195	105105350	60	NOC:Industrial Wastewater Treatment	---	Y	---	6.0
196	105106351	22	NOC:Advanced Topics in Science and Technology of Concrete	Y	Y	Y	2.4
197	105101474	60	NOC:Stress and Strain Issues in Structural Geology	---	Y	---	25
198	105105464	60	NOC:Geoengineering	---	Y	---	23
199	105106465	69	NOC:An Introduction to Climate Dynamics, Variability and Monitoring	Y	Y	---	19
200	105106491	53	NOC:Indoor Air Pollution: Sources, Effects, Monitoring, Control and Modeling	---	Y	Y	6.5
201	105107463	64	NOC:Railway Engineering	---	Y	---	14
202	105107473	62	NOC:Groundwater Engineering	---	Y	---	12

203	105104562	---	NOC:Natural Hazards (Hindi)	---	---	---	---
204	105104565	---	NOC:Environmental Fluid Mechanics	---	---	---	---
205	105105560	---	NOC:Free Surface Flows	---	---	---	---
206	105105563	---	NOC:Reservoir Geophysics for Hydrocarbon Exploration	---	---	---	---
207	105105566	---	NOC:Mathematical Geophysics	---	---	---	---
208	105105567	---	NOC:Tectonics and Geodynamics	---	---	---	---
209	105106561	---	NOC:Geophysical Exploration Methods	---	---	---	---
210	105106564	---	NOC:Stability Aspects of Structural Steel Design: Concepts and Applications	---	---	---	---

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1	106101007	40	Natural Language Processing	Y	Y	Y	31
2	106101060	34	Design and Analysis of Algorithms	Y	Y	Y	8.3
3	106101061	39	Software Engineering	Y	Y	Y	11
4	106102011	40	Computational Geometry	Y	Y	Y	26
5	106102013	39	Logic for CS	Y	Y	Y	31
6	106102062	38	Computer Architecture (Prof. Anshul Kumar)	Y	Y	Y	9.0
7	106102064	36	Data Structures And Algorithms	Y	Y	Y	9.3
8	106102065	35	Introduction to Computer Graphics	Y	Y	Y	7.7
9	106102067	40	Principles of Programming Languages	Y	Y	Y	9.8
10	106102114	34	Parallel Computing	Y	Y	Y	8.8
11	106103116	44	Design Verification and Test of Digital VLSI Circuits	Y	Y	Y	25
12	106104019	35	Computer Algorithms - 2	Y	Y	Y	18
13	106104028	42	Theory of Computation	Y	Y	Y	20
14	106104074	24	Introduction to Problem Solving and Programming	Y	Y	Y	2.5
15	106104118	30	Riemann Hypothesis and its Applications	Y	Y	Y	6.9
16	106104119	26	Biometrics	Y	Y	Y	11
17	106104120	25	Parallel Algorithm	Y	Y	Y	13
18	106104122	36	Computer Architecture (Dr. Mainak Chaudhuri)	Y	Y	Y	15
19	106104123	30	Compiler Design (Prof. Sanjeev K Aggarwal)	Y	Y	Y	12
20	106104128	59	NOC:Introduction to Programming in C	Y	Y	Y	3.1
21	106105031	41	Cryptography and Network Security	Y	Y	Y	19
22	106105033	41	High Performance Computer Architecture	Y	Y	Y	11
23	106105034	40	Low Power VLSI Circuits and Systems	Y	Y	Y	19
24	106105036	40	Real Time Systems	Y	Y	Y	8.1
25	106105077	40	Artificial Intelligence (Prof. S. Sarkar, Prof. Anupam Basu)	Y	Y	Y	8.8
26	106105079	28	Artificial Intelligence (Prof.P. Dasgupta)	Y	Y	Y	7.6
27	106105081	40	Computer Networks	Y	Y	Y	12

28	106105082	41	Data Communication	Y	Y	Y	9.4
29	106105083	35	Electronic Design Automation	Y	Y	Y	7.5
30	106105084	40	Internet Technology	Y	Y	Y	12
31	106105085	32	Programming and Data Structure	Y	Y	Y	4.8
32	106106046	43	Pattern Recognition	Y	Y	Y	19
33	106106048	42	Performance Evaluation of Computer Systems	Y	Y	Y	17
34	106106049	42	Theory of Automata, Formal Languages and Computation	Y	Y	Y	19
35	106106090	43	Computer Graphics	Y	Y	Y	11
36	106106092	33	Computer Organization	Y	Y	Y	7.6
37	106106093	43	Database Design	Y	Y	Y	12
38	106106094	40	Discrete Mathematical Structures	Y	Y	Y	11
39	106106126	48	Artificial Intelligence (Prof. Deepak Khemani)	Y	Y	Y	36
40	106106127	61	NOC:Programming, Data Structures and Algorithms	Y	Y	Y	13
41	106106129	65	NOC:Introduction to Information Security I	Y	Y	Y	8.8
42	106106130	18	NOC:Programming and Data structures (PDS)	Y	Y	Y	3.2
43	106106131	56	NOC:Design and Analysis of Algorithms	Y	Y	Y	2.2
44	106106133	55	NOC:Programming, Data Structures and Algorithms (Aricent)	---	Y	Y	5.2
45	106108051	41	Combinatorics	Y	Y	Y	12
46	106108052	50	Compiler Design (Prof. Y.N. Srikanth)	Y	Y	Y	18
47	106108054	40	Graph Theory	Y	Y	Y	19
48	106108055	41	High Performance Computing	Y	Y	Y	16
49	106108056	41	Numerical Optimization	Y	Y	Y	11
50	106108058	43	Storage Systems	Y	Y	Y	12
51	106108102	40	System Analysis and Design	Y	Y	Y	11
52	106108113	46	Principles of Compiler Design	Y	Y	Y	13
53	106106134	33	NOC:Computer Architecture	Y	Y	Y	3.0
54	106106136	55	NOC:Model Checking	Y	Y	Y	2.2
55	106106137	28	NOC:Functional Programming in Haskell	Y	Y	Y	1.8
56	106104135	48	NOC:Fundamentals of Database Systems	Y	Y	Y	3.1
57	106106141	42	NOC:Information Security - II	Y	Y	Y	8.8
58	106106139	86	NOC:Introduction to Machine Learning (Sponsored by Arihant)	Y	Y	Y	28
59	106106140	113	NOC:Artificial Intelligence: Knowledge Representation & Reasoning	Y	Y	Y	6.1
60	106106138	71	Virtual Reality	---	Y	Y	20
61	106106142	48	NOC:Algorithms for Big Data	Y	Y	Y	11
62	106105154	21	NOC:Complex Network : Theory and Application	Y	Y	Y	5.1
63	106105153	52	NOC:Object-Oriented Analysis and Design	Y	Y	Y	12
64	106105152	44	NOC:Introduction to Machine Learning	Y	Y	Y	11
65	106105151	56	NOC:Programming in C++	Y	Y	Y	13

66	106105150	20	NOC:Software Testing	Y	Y	Y	4.7
67	106104148	40	NOC:Theory of Computation	Y	Y	Y	3.7
68	106107155	20	NOC:Introduction to Cryptology	Y	Y	Y	5.4
69	106104149	18	NOC:Modern Algebra	Y	Y	Y	1.9
70	106106146	34	NOC:Privacy and Security in Online Social Networks	Y	Y	Y	5.5
71	106106145	45	NOC:Programming, Data Structures and Algorithms in Python	Y	Y	Y	2.5
72	106106144	39	NOC:Introduction to Operating Systems	Y	Y	Y	13
73	106106147	39	NOC:Mobile Computing	Y	Y	Y	4.6
74	106106143	64	NOC:Reinforcement Learning	Y	Y	Y	36
75	106106156	37	NOC:Introduction to Modern Application Development	Y	Y	Y	1.4
76	106105157	20	Fundamental Algorithms:Design and Analysis	Y	Y	Y	5.2
77	106106158	42	NOC:AI:Constraint Satisfaction	Y	Y	Y*	31
78	106102157	33	NOC:Computer Architecture	Y	Y	Y	12
79	106106157	60	NOC:Information Security-3	Y	Y	Y	20
80	106105160	40	NOC:Wireless Ad Hoc and Sensor Networks	Y	Y	Y	9.9
81	106105158	65	NOC:Natural Language Processing	Y	Y	Y	16
82	106105161	64	NOC:VLSI Physical Design	Y	Y	Y	17
83	106105159	49	NOC:Embedded Systems Design	Y	Y	Y	8.5
84	106105162	60	NOC:Cryptography and Network Security	Y	Y	Y	15
85	106105163	64	NOC:Computer Architecture and Organization	Y	Y	Y	18
86	106105164	60	NOC:Introduction to Algorithms and Analysis	Y	Y	Y	15
87	106105165	41	NOC:Hardware Modeling using Verilog	Y	Y	Y	11
88	106105166	60	NOC:Introduction to Internet of Things	Y	Y	Y	13
89	106105167	60	NOC:Cloud Computing	Y	Y	Y	12
90	106101163	60	NOC:Software Testing	Y	Y	Y	28
91	106106166	52	NOC:Computer Organization	Y	Y	Y	23
92	106106167	56	NOC:Introduction to Wireless and Cellular Communications	Y	Y	Y	40
93	106102163	84	NOC:Introduction to Parallel Programming in OpenMP	Y	Y	Y	4.8
94	106106168	27	NOC:Distributed Systems	Y	Y	Y	2.6
95	106106169	166	NOC:Social Networks	Y	Y	Y	43
96	106105172	20	NOC:Real Time Operating System	Y	Y	Y	5.0
97	106106176	26	NOC:An Introduction to Probability in Computing	Y	Y	Y	8.5
98	106104170	23	NOC:Advanced Graph Theory	Y	Y	Y	11
99	106105173	40	NOC:Introduction to Soft Computing	Y	Y	Y	10
100	106105174	44	NOC:Data Mining	Y	Y	Y	11
101	106105175	42	NOC:Data Base Management System	Y	Y	Y	13
102	106106177	28	NOC:Introduction to Human Computer Interaction	Y	Y	Y	12
103	106106178	60	NOC:Information Security - IV	Y	Y	Y	43

104	106106179	50	NOC:Data Science for Engineers	Y	Y	Y	15
105	106103180	39	NOC:Computer Organization and Architecture - A Pedagogical Aspect	Y	Y	Y	9.8
106	106105171	61	NOC:Problem Solving through Programming in C	Y	Y	Y	15
107	106102181	26	NOC:Synthesis of Digital Systems	Y	Y	Y	27
108	106101182	22	NOC:Design and Pedagogy of the Introductory Programming Course	Y	Y	Y	17
109	106103182	37	NOC:Embedded Systems-Design Verification and Test	Y	Y	Y	14
110	106103183	29	NOC:Multi-Core Computer Architecture-Storage and Interconnects	Y	Y	Y	12
111	106104182	21	NOC:Cloud Computing and Distributed Systems	Y	Y	Y	9.0
112	106105182	60	NOC:Software Engineering	Y	Y	Y	15
113	106105183	60	NOC:Computer Networks and Internet Protocol	Y	Y	Y	15
114	106105184	60	NOC:Blockchain Architecture Design and Use Cases	Y	Y	Y	32
115	106105185	60	NOC:Switching Circuits and Logic Design	Y	Y	Y	15
116	106105186	40	NOC:Scalable Data Science	Y	Y	Y	8.0
117	106106182	226	NOC:The Joy of Computing using Python	Y	Y	Y	44
118	106106183	465	NOC:Discrete Mathematics	Y	Y	Y	31
119	106106184	117	NOC:Deep Learning	Y	Y	Y	41
120	106103187	40	NOC:Randomized Algorithms	Y	Y	Y	28
121	106103188	37	NOC:Parallel Algorithms	Y	Y	Y	14
122	106104189	34	NOC:Big Data Computing	Y	Y	Y	14
123	106105190	61	NOC:Compiler Design	Y	Y	Y	16
124	106105191	60	NOC:Programming in Java	Y	Y	Y	17
125	106105192	60	NOC:Discrete Structures	Y	Y	Y	20
126	106105193	42	NOC:Embedded System Design with ARM	Y	Y	Y	9.6
127	106105194	60	NOC:Hardware Security	Y	Y	Y	16
128	106105195	65	NOC:Introduction to Industry 4.0 and Industrial Internet of Things	Y	Y	Y	25
129	106105196	60	NOC:Introduction to Automata, Languages and Computation	Y	Y	Y	15
130	106106197	77	NOC:Foundations to Computer Systems Design	Y	Y	Y*	121
131	106106198	106	NOC:Machine Learning for Engineering and Science Applications	Y	Y	Y	70
132	106106199	59	NOC:Information Security 5 - Secure Systems Engineering	Y	Y	Y	27
133	106106200	56	NOC:Multimodal Interaction	Y	Y	Y	30
134	106106201	37	NOC:Deep Learning - Part 2	Y	Y	Y	18
135	106106202	50	NOC:Machine Learning, ML	Y	Y	Y	21
136	106101208	120	NOC:An Introduction to Programming Through C++	Y	Y	Y	47
137	106101209	100	NOC:Demystifying Networking	Y	Y	Y	7.6
138	106103205	43	NOC:Discrete Mathematics	Y	Y	Y	26
139	106103206	33	NOC:Advanced Computer Architecture	Y	Y	Y	6.7
140	106105214	60	NOC:Operating System Fundamentals	Y	Y	Y	16
141	106105215	60	NOC:Deep Learning (2019)	Y	Y	Y	16

142	106105216	60	NOC:Computer Vision	Y	Y	Y	17
143	106105217	62	NOC:Ethical Hacking	Y	Y	Y	12
144	106105218	60	NOC:Software Project Management	Y	Y	Y	16
145	106105219	40	NOC:Spatial Informatics	Y	Y	Y	12
146	106106210	22	NOC:C Programming and Assembly Language	Y	Y	Y	33
147	106106211	92	NOC:Applied Natural Language Processing	Y	Y	Y	69
148	106106212	40	NOC:Python for Data Science	Y	Y	Y	50
149	106106213	38	NOC:Practical Machine Learning with Tensorflow	Y	Y	Y	21
150	106102132	40	Operating Systems	Y	Y	Y	5.0
151	106102220	96	NOC:An Introduction to Artificial Intelligence	Y	Y	Y	24
152	106104221	24	NOC:Arithmetic Circuit Complexity	Y	Y	Y	21
153	106107220	60	NOC:Data Analytics with Python	Y	Y	Y	4.4
154	106106221	59	NOC:Foundations of Cryptography	Y	Y	Y	8.3
155	106105220	63	NOC:GPU Architectures and Programming	Y	Y	Y	13
156	106104220	29	NOC:Introduction to Blockchain Technology and Applications	Y	Y	Y	9.5
157	106106220	41	NOC:Introduction to Database Systems	Y	Y	Y	32
158	106106222	37	NOC:Modern Application Development (2020.S1)	Y	Y	Y	20
159	106103220	31	NOC:User-centric Computing for Human-Computer Interaction	Y	Y	Y	22
160	106105223	83	NOC:Google Cloud Computing Foundation Course	Y	Y	---	1.2
161	110101145	60	NOC:Bandit Algorithm (Online Machine Learning)	Y	Y	Y	37
162	106103224	32	NOC:Computer Graphics	Y	Y	Y	6.0
163	106105225	60	NOC:Data Structure and Algorithms using Java	Y	Y	---	32
164	106106224	79	NOC:Deep Learning for Computer Vision	Y	Y	Y	6.1
165	106105224	60	NOC:Object Oriented System Development using UML, Java and Patterns	Y	Y	Y	19
166	106106226	95	NOC:Artificial Intelligence Search Methods For Problem Solving	Y	Y	---	11
167	106104227	41	NOC:Computational Complexity Theory	Y	Y	---	9.5
168	106104228	26	NOC:Randomized Methods in Complexity	Y	Y	Y	5.4
169	106108227	72	NOC:Discrete Mathematics (IIITB)	Y	Y	Y	5.2
170	106102229	33	NOC:Advanced Computer Architecture	Y	Y	Y	3.6
171	106103229	43	NOC:C-Based VLSI Design	Y	Y	Y	5.6
172	106105229	61	NOC:Real-Time Systems	Y	Y	Y	5.5
173	106105230	60	NOC:Algorithms for Protein Modelling and Engineering	Y	Y	---	7.0
174	106106229	63	NOC:Computational Complexity	Y	Y	---	6.2
175	106106230	50	NOC:Parameterized Algorithms	Y	Y	---	5.3
176	106106231	54	NOC:Getting Started with Competitive Programming	Y	Y	Y	1.9
177	106106232	25	NOC:Introduction to Quantum Computing: Quantum Algorithms and Qiskit	---	Y	---	1.8
178	106108229	59	NOC:Secure Computation: Part I	Y	Y	Y	5.1
179	106104233	32	NOC:Probability for Computer Science	Y	Y	---	4.7



180	106101234	55	NOC:Design and Engineering of Computer Systems	Y	Y	Y	5.6
181	106101235	25	NOC:Software Conceptual Design	Y	Y	Y	0.4
182	106105234	75	NOC:Programming in Modern C++	Y	Y	Y	8.9
183	106105235	60	NOC:Blockchain and its Applications	---	Y	Y	7.1
184	106106234	18	NOC:Systems and Usable Security	---	Y	---	1.4
185	106106235	25	NOC:Online Privacy	Y	Y	Y	4.0
186	106106236	62	NOC:Introduction to Machine Learning (Tamil)	---	Y	---	3.6
187	106106237	48	Compiler Design	---	Y	---	4.1
188	106101237	62	NOC:Introduction to Game Theory and Mechanism Design	---	Y	---	3.3
189	106101238	20	NOC:Introduction to Computer and Network Performance Analysis using Queuing Systems	---	Y	---	2.3
190	106102237	28	NOC:Advanced Distributed systems	Y	Y	Y	3.5
191	106103237	44	NOC:Design and Implementation of Human-Computer Interfaces	Y	Y	Y	5.8
192	106105237	60	NOC:Algorithmic Game Theory	Y	Y	Y	4.2
193	106105238	40	NOC:Machine Learning for Earth System Sciences	Y	Y	Y	4.3
194	106105239	60	NOC:Statistical Learning for Reliability Analysis	Y	Y	Y	6.7
195	106106238	61	NOC:Applied Accelerated Artificial Intelligence	Y	Y	Y	4.2
196	106106239	74	NOC:Social Network Analysis	Y	Y	Y	5.5
197	106108237	62	NOC:Secure Computation - Part II	Y	Y	Y	5.1
198	106104241	60	NOC:Circuit Complexity Theory	---	Y	---	11
199	106104242	22	NOC:Foundation of Cloud IoT Edge ML	Y	Y	---	4.9
200	106105241	59	NOC:Foundations of Cyber Physical Systems	Y	Y	Y	6.0
201	106105242	60	NOC:Selected Topics in Algorithms	Y	Y	Y	3.6
202	106106241	59	NOC:Quantum Algorithms and Cryptography	---	Y	---	5.2
203	106106242	69	NOC:Theory of Computation (2023)	---	Y	---	12
204	106106243	67	NOC:Advanced Computer Networks	Y	Y	Y	6.8
205	106106244	39	NOC:Affective Computing	Y	Y	---	4.6
206	106106245	36	NOC:Optimisation for Machine Learning: Theory and Implementation (Hindi)	---	Y	---	3.3
207	106106246	82	ACM India - RBCDSAI Summer School on DS/AI/ML	---	Y	---	7.3
208	106105247	40	NOC:Foundations and Applications of Machine Learning (Bengali)	---	Y	---	3.5
209	106106247	55	NOC:Machine Learning (ML) in Hindi	---	Y	---	5.3
210	106106248	42	NOC:Cyber Security and Privacy	Y	Y	Y	4.4
211	106103184	48	NOC:Multi-Core Computer Architecture	---	Y	---	7.4
212	106101360	61	NOC:Games and Information	---	Y	---	7.7
213	106103358	41	NOC:Digital Design with Verilog	---	Y	---	4.5
214	106103359	65	NOC:Parallel Computer Architecture	Y	Y	Y	6.5
215	106104356	49	NOC:Linear Programming and its Applications to Computer Science	Y	Y	Y	8.7
216	106104357	48	NOC:Basics of Computational Complexity	---	Y	---	4.3

217	<a href="#">106104449</a>	16	NOC:Edge Computing	---	Y	---	2.1
218	<a href="#">106106361</a>	46	NOC:Business Intelligence and Analytics	Y	Y	Y	6.7
219	<a href="#">106101466</a>	47	NOC:Distributed Optimization and Machine Learning	---	Y	---	4.6
220	<a href="#">106104467</a>	31	NOC:Practical Cyber Security for Cyber Security Practitioners	---	Y	---	11
221	<a href="#">106104469</a>	27	NOC:Computational Arithmetic - Geometry for Algebraic Curves	---	Y	---	6.4
222	<a href="#">106105470</a>	40	NOC:Artificial Intelligence for Economics	---	Y	---	5.3
223	<a href="#">106105471</a>	60	NOC:Approximation Algorithm	Y	Y	---	7.8
224	<a href="#">106106472</a>	56	NOC:Responsible and Safe AI Systems	---	Y	---	13
225	<a href="#">106108468</a>	37	NOC:Introduction to Graph Algorithms	---	Y	---	8.0
226	<a href="#">106108482</a>	62	NOC:Linear Algebra Through Geometry	---	Y	---	13
227	<a href="#">106101578</a>	---	NOC:Time Series Modelling and Forecasting with Applications in R	---	---	---	---
228	<a href="#">106102576</a>	---	NOC:Introduction to Large Language Models (LLMs)	---	---	---	---
229	<a href="#">106104573</a>	---	NOC:Discrete Mathematics for CS	---	---	---	---
230	<a href="#">106104577</a>	---	NOC:Practical High-Performance Computing	---	---	---	---
231	<a href="#">106105572</a>	---	NOC:Deep Learning for Natural Language Processing	---	---	---	---
232	<a href="#">106106575</a>	---	NOC:Human Computer Interaction (Hindi and English)	---	---	---	---
233	<a href="#">106106579</a>	---	NOC:Large Applications Practicum	---	---	---	---
234	<a href="#">106107574</a>	---	NOC:Fundamentals of Object Oriented Programming	---	---	---	---
235	<a href="#">106108571</a>	---	NOC:Algorithms in Computational Biology and Sequence Analysis	---	---	---	---

### Discipline : Engineering Design

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

1	<a href="#">107103004</a>	40	Ergonomics for beginners: Industrial design perspective	Y	Y	Y	17
2	<a href="#">107106009</a>	30	Principles of Engineering System Design	Y	Y	Y	12
3	<a href="#">107106080</a>	32	Vehicle Dynamics	Y	Y	Y	26
4	<a href="#">107103081</a>	38	NOC:System Design for Sustainability	Y	Y	Y	21
5	<a href="#">107103082</a>	15	NOC:Product Design and Innovation	Y	Y	Y	6.8
6	<a href="#">107103083</a>	15	NOC:Interaction Design	Y	Y	Y	7.8
7	<a href="#">107106081</a>	72	NOC:Control Systems	Y	Y	Y	40
8	<a href="#">107103084</a>	12	NOC:Ergonomics In Automotive Design	Y	Y	Y	13
9	<a href="#">107103085</a>	14	NOC:Ergonomics Workplace Analysis	Y	Y	Y	4.6
10	<a href="#">107101086</a>	55	NOC:Innovation by Design	Y	Y	Y	17
11	<a href="#">107101087</a>	42	NOC:Understanding Design	Y	Y	Y	6.0
12	<a href="#">107101088</a>	23	NOC:Design, Technology and Innovation	Y	Y	Y	20
13	<a href="#">107106088</a>	74	NOC:Fundamentals of Automotive Systems	Y	Y	Y	57
14	<a href="#">107105088</a>	64	NOC:Geographic Information System	Y	Y	Y	31
15	<a href="#">107106089</a>	38	NOC:Functional and Conceptual Design	Y	Y	Y	9.7
16	<a href="#">107106090</a>	43	NOC:Introduction to Robotics	Y	Y	Y	5.9
17	<a href="#">107101091</a>	67	NOC:Understanding Ethnography	Y	Y	Y	14

18	<a href="#">107101092</a>	27	NOC:Understanding Incubation and Entrepreneurship	Y	Y	---	4.3
19	<a href="#">107103093</a>	42	NOC:Ergonomics Research Techniques	---	Y	---	6.6
20	<a href="#">107104581</a>	---	NOC:Design Practices for Intelligent Product Design	---	---	---	---
21	<a href="#">107106583</a>	---	NOC:Introduction to Graphic Design	---	---	---	---
22	<a href="#">107107580</a>	---	NOC:Augmenting Design Thinking with Human-Computer Interaction	---	---	---	---
23	<a href="#">107107582</a>	---	NOC:Interior Design	---	---	---	---
<b>Discipline : Electrical Engineering</b>							
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1	<a href="#">108101002</a>	35	Nonlinear Dynamical Systems	Y	Y	Y	29
2	<a href="#">108101004</a>	45	Power System Dynamics and Control	Y	Y	Y	41
3	<a href="#">108101037</a>	47	Control Engineering (Prof. S.D. Agashe)	Y	Y	Y	13
4	<a href="#">108101038</a>	43	Power Electronics	Y	Y	Y	12
5	<a href="#">108102042</a>	51	Circuit Theory	Y	Y	Y	13
6	<a href="#">108102043</a>	41	Control Engineering (Prof. M. Gopal)	Y	Y	Y	9.2
7	<a href="#">108102045</a>	37	Embedded Systems	Y	Y	Y	9.4
8	<a href="#">108102047</a>	35	Power System Generation, Transmission and Distribution	Y	Y	Y	7.2
9	<a href="#">108102080</a>	40	Power System Dynamics	Y	Y	Y	9.8
10	<a href="#">108103007</a>	40	Advanced Control Systems	Y	Y	Y	17
11	<a href="#">108104011</a>	40	Advanced Electric Drives	Y	Y	Y	18
12	<a href="#">108104013</a>	37	High Voltage DC Transmission	Y	Y	Y	16
13	<a href="#">108104049</a>	32	Intelligent Systems and Control	Y	Y	Y	6.1
14	<a href="#">108104052</a>	35	Power Systems Operation and Control	Y	Y	Y	4.8
15	<a href="#">108105017</a>	40	Electrical Machines - I	Y	Y	Y	8.5
16	<a href="#">108105019</a>	60	Optimal Control	Y	Y	Y	12
17	<a href="#">108105054</a>	40	Chaos, Fractals and Dynamic Systems	Y	Y	Y	8.6
18	<a href="#">108105055</a>	35	Digital Signal Processing	Y	Y	Y	7.6
19	<a href="#">108105056</a>	34	Dynamics of Physical Systems	Y	Y	Y	7.4
20	<a href="#">108105058</a>	40	Energy Resources and Technology	Y	Y	Y	8.5
21	<a href="#">108105059</a>	30	Estimation of Signals and Systems	Y	Y	Y	6.1
22	<a href="#">108105060</a>	20	Illumination Engineering	Y	Y	Y	4.1
23	<a href="#">108105062</a>	40	Industrial Automation and Control	Y	Y	Y	12
24	<a href="#">108105064</a>	40	Industrial Instrumentation	Y	Y	Y	12
25	<a href="#">108105065</a>	36	Networks Signals and Systems	Y	Y	Y	11
26	<a href="#">108105067</a>	40	Power System Analysis	Y	Y	Y	12
27	<a href="#">108106023</a>	43	Modelling and Analysis of Electric Machines	---	Y	Y	19
28	<a href="#">108106068</a>	28	Analog ICs	Y	Y	Y	6.1
29	<a href="#">108106069</a>	40	Digital Integrated Circuits	Y	Y	Y	9.2
30	<a href="#">108106073</a>	42	Electromagnetic Fields	Y	Y	Y	11

31	108106075	50	Networks and Systems	Y	Y	Y	12
32	108106083	96	Probability Foundation for Electrical Engineers	Y	Y	Y	36
33	108108031	42	An Introduction to Electronics Systems Packaging	Y	Y	Y	20
34	108108034	40	Power Electronics and Distributed Generation	Y	Y	Y	14
35	108108035	40	Pulse width Modulation for Power Electronic Converters	Y	Y	Y	12
36	108108036	40	Switched Mode Power Conversion	Y	Y	Y	19
37	108108076	39	Basic Electrical Technology	Y	Y	Y	11
38	108108077	37	Industrial Drives - Power Electronics	Y	Y	Y	7.6
39	108106084	131	NOC:Analog Circuits	Y	Y	Y	8.7
40	108106085	29	NOC:Introduction to Non Linear Dynamics	Y	Y	Y	0.5
41	108105088	52	NOC:Industrial Automation and Control	Y	Y	Y	13
42	108104087	85	NOC:Electromagnetic Theory	Y	Y	Y	4.6
43	108101089	28	Fabrication of Silicon VLSI Circuits using the MOS technology	Y	Y	Y	31
44	108101090	83	NOC:Computational Electromagnetics and Applications	Y	Y	Y	29
45	108101092	60	NOC:Antennas	Y	Y	Y	22
46	108101094	41	NOC:Analog Circuits	Y	Y	Y	14
47	108101093	71	NOC:Fundamentals of Wavelets, Filter Banks and Time Frequency Analysis	Y	Y	Y	21
48	108101091	72	NOC:Basic Electronics	Y	Y	Y	3.5
49	108104092	33	NOC:An Introduction to Coding Theory	Y	Y	Y	2.6
50	108102095	51	Analog Electronic Circuits	Y	Y	Y	63
51	108102096	38	Digital Communication	Y	Y	Y	62
52	108102097	40	Introduction To Electronic Circuits	Y	Y	Y	32
53	108105091	20	NOC:Medical Image Analysis	Y	Y	Y	6.0
54	108104091	52	NOC:Principles of Communication - Part I	Y	Y	Y	2.8
55	108107098	40	NOC:Optimal Control	Y	Y	Y	9.7
56	108106098	55	NOC:Control Engineering	Y	Y	Y	23
57	108104098	56	NOC:Principles of Communication Systems - Part II	Y	Y	Y	3.1
58	108104099	66	NOC:Applied Engineering Electromagnetics	Y	Y	Y	4.3
59	108108098	31	NOC:Design for Internet of Things	Y	Y	Y	13
60	108108099	40	NOC:Advances in UHV Transmission and Distribution	Y	Y	Y	10
61	108103108	24	NOC:Optimization Techniques for Digital VLSI Design	Y	Y	Y	9.5
62	108108110	34	NOC:Electronics Enclosures Thermal Issues	Y	Y	Y	10
63	108106106	73	NOC:Probability Foundations for Electrical Engineers	Y	Y	Y	74
64	108105104	61	NOC:Power System Engineering	Y	Y	Y	16
65	108104100	75	NOC:Principles of Signals and Systems	Y	Y	Y	16
66	108105103	60	NOC:Deep Learning for Visual Computing	Y	Y	Y	13
67	108105101	68	NOC:Biomedical Signal Processing	Y	Y	Y	17
68	108105102	64	NOC:Microprocessors and Microcontrollers	Y	Y	Y	15

69	108108109	79	NOC:Mathematical Methods and Techniques in Signal Processing	Y	Y	Y	19
70	108108111	59	NOC:Integrated Circuits, MOSFETs, Op-Amps and their Applications	Y	Y	Y	20
71	108101112	60	NOC:Microwave Theory and Techniques	Y	Y	Y	49
72	108101113	65	NOC:Principles of Digital Communications	Y	Y	Y	56
73	108102112	40	NOC:Analog Electronic Circuit	Y	Y	Y	34
74	108102113	10	NOC:Nonlinear and Adaptive Control	Y	Y	Y	8.1
75	108103112	24	NOC:Advanced Topics in Probability and Random Processes	Y	Y	Y	4.0
76	108104112	79	NOC:Applied Optimization for Wireless, Machine Learning, Big Data	Y	Y	Y	14
77	108104113	61	NOC:Fiber-Optic Communication Systems and Techniques	Y	Y	Y	13
78	108105112	64	NOC:Fundamentals of Electrical Engineering	Y	Y	Y	19
79	108105113	65	NOC:Digital Circuits	Y	Y	Y	13
80	108105114	40	NOC:Analysis and Design Principles of Microwave Antennas	Y	Y	Y	11
81	108105118	67	NOC:Architectural Design of Digital Integrated Circuits	Y	Y	Y	4.9
82	108107112	60	NOC:Electrical Distribution System Analysis	Y	Y	Y	11
83	108107113	40	NOC:Introduction to Smart Grid	Y	Y	Y	10
84	108107114	40	NOC:Facts Devices	Y	Y	Y	8.1
85	108107115	40	NOC:Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	Y	Y	Y	6.7
86	108108112	55	NOC:Semiconductor Devices and Circuits	Y	Y	Y	5.2
87	108108113	55	NOC:Fabrication Techniques for MEMs-based Sensors: Clinical Perspective	Y	Y	Y	21
88	108108114	48	NOC:Op-Amp Practical Applications:Design,Simulation and Implementation	Y	Y	Y	18
89	108108115	39	NOC:Physical Modelling for Electronics Enclosures using Rapid Prototyping	Y	Y	Y	25
90	108108116	13	NOC:Recent Advances in Transmission Insulators	Y	Y	Y	3.0
91	108102117	39	NOC:Information Theory, Coding and Cryptography	Y	Y	Y	17
92	108101126	98	NOC:Fundamental of Power Electronics	Y	Y	Y	24
93	108102120	38	NOC:Principles of Digital Communications	Y	Y	Y	34
94	108102121	32	NOC:Electric Vehicles - Part 1	Y	Y	Y	3.6
95	108104130	41	NOC:Electromagnetic Waves in Guided and Wireless Media	Y	Y	Y	14
96	108105131	90	NOC:Electrical Machines-II	Y	Y	Y	24
97	108105132	60	NOC:Digital Electronic Circuits	Y	Y	Y	17
98	108105133	60	NOC:Power System Dynamics, Control and Monitoring	Y	Y	Y	16
99	108105134	40	NOC:Evolution of Air Interface towards 5G	Y	Y	Y	11
100	108106135	48	NOC:Introduction to Photonics	Y	Y	Y	87
101	108106136	69	NOC:Multirate DSP	Y	Y	Y	126
102	108106137	37	NOC:LDPC and Polar Codes in 5G Standard	Y	Y	Y	64
103	108106138	29	NOC:Electromagnetic Compatibility, EMC	Y	Y	Y	37
104	108107127	60	NOC:Computer Aided Power System Analysis	Y	Y	Y	9.3
105	108107128	40	NOC:Advance Power Electronics and Control	Y	Y	Y	6.9
106	108107129	40	NOC:CMOS Digital VLSI Design	Y	Y	Y	9.9

107	108108122	59	NOC:Fundamentals of Semiconductor Devices	Y	Y	Y	6.1
108	108108123	44	NOC:Advanced IOT Applications	Y	Y	Y	16
109	108108124	71	NOC:Electronic Systems for Cancer Diagnosis	Y	Y	Y	17
110	108108125	53	NOC:Electronic Modules for Industrial Applications using Op-Amps	Y	Y	Y	13
111	108108148	66	NOC:Neural Networks for Signal Processing - I	---	Y	Y	13
112	108102145	24	NOC:Power Electronics	Y	Y	Y	25
113	108102146	41	NOC:Electrical Machines	Y	Y	Y	29
114	108103141	37	NOC:Microwave Engineering	Y	Y	Y	22
115	108104139	60	NOC:Basic Electric Circuits	Y	Y	Y	26
116	108104140	40	NOC:Fundamentals of Electric Drives	---	Y	Y	14
117	108105153	84	NOC:Electrical Measurement and Electronic Instruments	Y	Y	Y	32
118	108105154	60	NOC:Principles and Techniques of Modern Radar Systems	Y	Y	Y	17
119	108105155	94	NOC:Electrical Machines - I	Y	Y	Y	27
120	108106149	103	NOC:Mapping Signal Processing Algorithms to Architectures	---	Y	Y	64
121	108106150	47	NOC:Linear System Theory	Y	Y	Y	29
122	108106151	82	NOC:Digital Signal Processing	Y	Y	Y	63
123	108106152	117	NOC:Computational Electromagnetics	Y	Y	Y	85
124	108107142	60	NOC:Microelectronics: Devices to Circuits	Y	Y	Y	12
125	108107143	40	NOC:DC Microgrid	Y	Y	Y	11
126	108108147	63	NOC:Sensors and Actuators	Y	Y	Y	35
127	108102119	41	Engineering Electromagnetics	---	Y	---	5.4
128	108106165	23	NOC:A Brief Introduction of Micro-Sensors	Y	Y	Y	22
129	108105158	99	NOC:Analog Electronic Circuits	Y	Y	Y	65
130	108106160	67	NOC:DC Power Transmission Systems	Y	Y	Y	42
131	108106158	80	NOC:Digital IC Design	Y	Y	Y	74
132	108108157	39	NOC:Electronics Equipment Integration and Prototype Building	Y	Y	Y	21
133	108104157	60	NOC:Fuzzy Sets, Logic and Systems and Applications	Y	Y	Y	18
134	108102157	43	NOC:High Power Multilevel Converters - Analysis, Design and Operational Issues	Y	Y	Y	53
135	108106164	43	NOC:Linear Dynamical Systems	Y	Y	Y	47
136	108103157	34	NOC:Microprocessors and Interfacing	Y	Y	Y	14
137	108105159	82	NOC:Network Analysis	Y	Y	Y	39
138	108106162	51	NOC:Nonlinear System Analysis	Y	Y	Y	19
139	108106161	44	NOC:Optical Engineering	Y	Y	Y	49
140	108106159	103	NOC:Power Management Integrated Circuits	Y	Y	Y	57
141	108107157	40	NOC:Power Quality Improvement Technique	Y	Y	Y	5.2
142	108106163	87	NOC:Signals and Systems	---	Y	---	54
143	108103158	39	NOC:Statistical Signal Processing	Y	Y	Y	16
144	108106157	33	NOC:Transmission Lines and Electromagnetic Waves	Y	Y	Y	35

145	108105157	39	NOC:VLSI Signal Processing	Y	Y	Y	15
146	108102156	34	Special Electromechanical Systems	---	Y	---	6.0
147	108108166	53	NOC:Design and Simulation of Power conversion using open source tools	---	Y	---	4.1
148	108101167	40	NOC:Electrical Equipment and Machines: Finite Element Analysis	Y	Y	Y	9.0
149	108106167	120	NOC:Fiber Optic Communication Technology	---	Y	---	7.2
150	108106168	83	NOC:Image Signal Processing	Y	Y	---	7.2
151	108108168	68	NOC:Information Theory	---	Y	---	4.2
152	108102169	40	NOC:Introduction to Embedded System Design	Y	Y	Y	5.9
153	108108167	65	NOC:Introductory Neuroscience and Neuro-Instrumentation	Y	Y	Y	6.2
154	108104167	34	NOC:Peer to Peer Networks	Y	Y	Y	5.4
155	108105167	52	NOC:Power System Protection	Y	Y	Y	27
156	108107167	40	NOC:Power System Protection and Switchgear	Y	Y	Y	4.6
157	108106170	76	NOC:Fundamentals of Electric Vehicles: Technology and Economics	Y	Y	---	8.3
158	108106171	48	NOC:Applied Linear Algebra	Y	Y	Y	5.9
159	108106172	143	NOC:Basic Electrical Circuits	---	Y	---	3.4
160	108106173	42	NOC:Optical Fiber Sensors	Y	Y	---	5.0
161	108101174	94	NOC:Digital Signal Processing and its Applications	Y	Y	Y	3.6
162	108103174	41	NOC:Computer Vision and Image Processing - Fundamentals and Applications	Y	Y	Y	4.4
163	108104174	70	NOC:Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	Y	Y	---	7.2
164	108106174	78	NOC:Introduction to Time - Varying Electrical Networks	Y	Y	---	9.3
165	108106177	71	NOC:Digital System Design	Y	Y	Y	4.5
166	108108174	51	NOC:Photonic Integrated Circuit	Y	Y	Y	6.1
167	108102179	45	NOC:Power Quality	Y	Y	---	7.0
168	108103179	27	NOC:System Design through VERILOG	Y	Y	Y	2.2
169	108105179	64	NOC:Signal Processing for mm Wave communication for 5G and beyond	Y	Y	---	5.5
170	108105180	60	NOC:Control and Tuning Methods in Switched Mode Power Converters	Y	Y	Y	8.5
171	108105181	69	NOC:Advanced Microwave Guided-Structures and Analysis	Y	Y	Y	4.5
172	108106179	81	NOC:Stochastic Modeling and the Theory of Queues	Y	Y	---	5.8
173	108106180	40	NOC:Integrated Photonics Devices and Circuits	Y	Y	---	9.6
174	108106181	78	NOC:Introduction to Semiconductor Devices	Y	Y	Y	5.6
175	108108179	52	NOC:Design for Internet of Things	Y	Y	Y	6.9
176	108108180	42	NOC:Mathematical Aspects of Biomedical Electronic System Design	Y	Y	Y	4.1
177	108108181	26	NOC:Concentration Inequalities	Y	Y	Y	2.7
178	108106182	97	NOC:Electric Vehicles and Renewable Energy	---	Y	---	8.5
179	108103183	44	NOC:Usability Engineering	Y	Y	Y	6.0
180	108101185	65	NOC:Stochastic Control and Communication	---	Y	---	5.6

181	108102185	42	NOC:Introduction to Electrical Engineering	---	Y	Y	6.5
182	108103185	85	NOC:Probability and Random Processes	---	Y	---	3.5
183	108105185	60	NOC:Cognition and its Computation	---	Y	---	5.9
184	108105186	120	NOC:Digital Control in Switched Mode Power Converters and FPGA-based Prototyping	Y	Y	Y	7.6
185	108105187	41	NOC:VLSI Interconnects	---	Y	---	3.8
186	108106184	65	Phase-locked loops	Y	Y	Y	6.9
187	108106186	64	NOC:Fundamentals of Nano and Quantum Photonics	---	Y	Y	5.2
188	108108185	56	NOC:Real-Time Digital Signal Processing	Y	Y	Y	4.7
189	108105188	63	NOC:Semiconductor Device Modeling and Simulation	Y	Y	---	6.2
190	108105189	75	NOC:RF and Microwave Networks	---	Y	---	4.0
191	108106188	84	NOC:Analog Electronic Circuits (IITM)	Y	Y	Y	6.9
192	108106189	90	NOC:Modern Computer Vision	Y	Y	Y	6.1
193	108106190	46	NOC:Optical Wireless Communications for Beyond 5G Networks and IoT	Y	Y	---	4.0
194	108108188	54	NOC:Advanced Neural Science for Engineers	Y	Y	Y	7.4
195	108102191	36	NOC:Transducers for Instrumentation	Y	Y	Y	7.6
196	108103191	64	NOC:Simulation of Communication Systems using Matlab	---	Y	---	5.1
197	108103192	48	NOC:Machine Learning and Deep Learning - Fundamentals and Applications	Y	Y	Y	4.1
198	108104191	60	NOC:Economic Operations and Control of Power Systems	Y	Y	Y	6.7
199	108104192	38	NOC:Digital Switching	---	Y	---	3.0
200	108104193	65	NOC:Analog VLSI Design	Y	Y	Y	6.2
201	108105191	41	NOC:Introduction to Adaptive Signal Processing	Y	Y	Y	2.7
202	108105192	60	NOC:Nanobiophotonics: Touching Our Daily Life	Y	Y	Y	5.4
203	108106191	54	NOC:VLSI Design Flow: RTL to GDS	Y	Y	Y	6.1
204	108106192	40	NOC:Fundamentals of Wireless Communication (Hindi)	---	Y	---	5.3
205	108106193	40	NOC:Sensor Technologies: Physics, Fabrication, and Circuits	---	Y	---	4.8
206	108108191	67	NOC:Design of Electric Motors	Y	Y	Y	5.7
207	108101371	85	NOC:Applied Linear Algebra (2024)	---	Y	---	20
208	108101373	62	NOC:Digital Communication using GNU Radio	Y	Y	---	6.2
209	108102372	42	NOC:Computer-Aided Design of Electrical Machines	---	Y	---	5.9
210	108103378	44	NOC:Integrated Circuits and Applications	---	Y	---	3.2
211	108105375	59	NOC:EMI-EMC and Signal Integrity: Principles, Techniques and Applications	---	Y	---	5.0
212	108105376	60	NOC:Embedded Sensing, Actuation and Interfacing Systems	---	Y	---	7.2
213	108106370	46	NOC:Advanced topics in Wireless Communication (Hindi)	---	Y	---	4.6
214	108106374	39	NOC:State Space Approach to Control System Analysis and Design	---	Y	---	3.9
215	108107379	61	NOC:RF Transceiver of Design	---	Y	---	5.7
216	108107380	60	NOC:VLSI Physical Design with Timing Analysis	Y	Y	Y	4.8



217	<a href="#">108108377</a>	61	NOC:Basics of Semiconductor Microwave Devices	---	Y	---	4.7
218	<a href="#">108102481</a>	36	NOC:Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software	---	Y	---	15
219	<a href="#">108103487</a>	38	NOC:Photonic Crystals: Fundamentals and Applications	---	Y	---	7.5
220	<a href="#">108105479</a>	43	NOC:A Basic Course on Electric and Magnetic Circuits	---	Y	---	7.1
221	<a href="#">108106478</a>	82	NOC:Optimization Theory and Algorithms	---	Y	---	14
222	<a href="#">108106480</a>	36	NOC:Power Electronics with Wide Band Gap Devices	---	Y	---	7.6
223	<a href="#">108107477</a>	60	NOC:Modeling, Analysis and Estimation of Three Phase Unbalanced Power Network	---	Y	---	8.6
224	<a href="#">108101585</a>	---	NOC:Network Security	---	---	---	---
225	<a href="#">108101587</a>	---	NOC:Behavioural Theory of Systems with a View Toward Data Driven Control	---	---	---	---
226	<a href="#">108102584</a>	---	NOC:Advance Power Electronics	---	---	---	---
227	<a href="#">108106588</a>	---	NOC:Enabling Technologies for 6G Communications Networks	---	---	---	---
228	<a href="#">108107586</a>	---	NOC:Semiconductor Devices for Next Generation Field Effect Transistors (More than Moore): A Physics Perspective	---	---	---	---
229	<a href="#">108107589</a>	---	NOC:Intelligent Control of Robotic Systems	---	---	---	---

**Discipline : Humanities and Social Sciences**

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1	<a href="#">109101004</a>	42	Contemporary Issues in Philosophy of Mind and Cognition	Y	Y	Y	30
2	<a href="#">109101017</a>	41	Understanding Creativity and Creative Writing	Y	Y	Y	28
3	<a href="#">109103019</a>	40	Cultural Studies	Y	Y	Y	22
4	<a href="#">109103020</a>	38	English Language and Literature	Y	Y	Y	18
5	<a href="#">109103021</a>	40	Game Theory and Economics	Y	Y	Y	22
6	<a href="#">109104031</a>	40	Communication Skills	Y	Y	Y	12
7	<a href="#">109104035</a>	43	International Economics	Y	Y	Y	9.9
8	<a href="#">109104040</a>	44	Introduction to Logic	Y	Y	Y	18
9	<a href="#">109104045</a>	40	Population and Society	Y	Y	Y	8.6
10	<a href="#">109104073</a>	22	Macro Economics	Y	Y	Y	7.7
11	<a href="#">109104074</a>	41	Introduction to Sociology	Y	Y	Y	9.8
12	<a href="#">109104076</a>	40	Money and Banking	Y	Y	Y	7.6
13	<a href="#">109104081</a>	40	Human Adjustment Processes	Y	Y	Y	8.4
14	<a href="#">109104082</a>	35	Selected Topics in Psychology	Y	Y	Y	9.2
15	<a href="#">109104088</a>	48	NOC:Elements of Visual Representation	Y	Y	Y	5.8
16	<a href="#">109106052</a>	40	Aspects of Western Philosophy	Y	Y	Y	31
17	<a href="#">109106053</a>	40	Contemporary Literature	Y	Y	Y	11
18	<a href="#">109106058</a>	36	History of Economic Theory	Y	Y	Y	15
19	<a href="#">109106059</a>	42	Indian Philosophy	Y	Y	Y	14
20	<a href="#">109106067</a>	38	Better Spoken English	Y	Y	Y	15

21	<a href="#">109106079</a>	40	Introduction to Film Studies	Y	Y	Y	16
22	<a href="#">109106080</a>	41	Introduction to Modern Linguistics	Y	Y	Y	30
23	<a href="#">109106083</a>	41	Principles and Parameters in Natural Language	Y	Y	Y	32
24	<a href="#">109106084</a>	41	NOC:Literary Criticism and Literary Theory	Y	Y	Y	9.1
25	<a href="#">109106085</a>	40	NOC:Language and Mind	Y	Y	Y	5.9
26	<a href="#">109106086</a>	43	NOC:Film Appreciation	Y	Y	Y	11
27	<a href="#">109106087</a>	74	NOC:Appreciating Carnatic Music	Y	Y	Y	16
28	<a href="#">109106089</a>	38	NOC:Infrastructure Economics	Y	Y	Y	5.5
29	<a href="#">109104090</a>	40	NOC:Practical English: Learning and Teaching	Y	Y	Y	11
30	<a href="#">109106091</a>	20	NOC:Language and Society	Y	Y	Y	3.6
31	<a href="#">109104093</a>	24	NOC:Brief introduction to Psychology	Y	Y	Y	5.0
32	<a href="#">109106092</a>	20	NOC:Issues in Bioethics	Y	Y	Y	5.6
33	<a href="#">109106094</a>	38	NOC:Technical English for Engineers	Y	Y	Y	19
34	<a href="#">109106095</a>	22	NOC:Health Research Fundamentals	Y	Y	Y	7.3
35	<a href="#">109104032</a>	39	Ethics	Y	Y	Y	12
36	<a href="#">109105098</a>	20	NOC:Legal Compliance for Incorporating Startup	Y	Y	Y	4.9
37	<a href="#">109105097</a>	20	NOC:Technology Transfer through Joint Venture	Y	Y	Y	5.0
38	<a href="#">109104096</a>	20	NOC:Psychiatry:An overview	Y	Y	Y	1.4
39	<a href="#">109105111</a>	40	NOC:Symbolic Logic	Y	Y	Y	8.9
40	<a href="#">109105110</a>	40	NOC:Soft Skill Development	Y	Y	Y	9.4
41	<a href="#">109105113</a>	39	NOC:Globalization and Culture	Y	Y	Y	11
42	<a href="#">109104107</a>	48	NOC:Developing Soft Skills and Personality	Y	Y	Y	5.1
43	<a href="#">109104106</a>	44	NOC:Folk and Minor Art in India	Y	Y	Y	3.4
44	<a href="#">109104105</a>	43	NOC:Introduction to Psychology	Y	Y	Y	2.7
45	<a href="#">109104108</a>	20	NOC:How the Brain Creates Mind	Y	Y	Y	1.8
46	<a href="#">109104102</a>	20	NOC:Introduction to Indian Art - An appreciation	Y	Y	Y	1.6
47	<a href="#">109104109</a>	20	NOC:Understanding Design Thinking and People Centered Design	Y	Y	Y	1.5
48	<a href="#">109104104</a>	20	NOC:Probability and Stochastic for Finance II	Y	Y	Y	1.8
49	<a href="#">109104103</a>	25	NOC:Basic Concepts of Modal Logic	Y	Y	Y	2.1
50	<a href="#">109106099</a>	45	NOC:American Literature and Culture	Y	Y	Y	30
51	<a href="#">109103101</a>	24	NOC:Digital Human Modeling and Simulation for Virtual Ergonomics Evaluation	Y	Y	Y	34
52	<a href="#">109106114</a>	32	NOC:Applied Linguistics	Y	Y	Y	24
53	<a href="#">109106100</a>	20	NOC:Economics of IPR	Y	Y	Y	8.0
54	<a href="#">109105112</a>	40	NOC:Introduction on Intellectual Property to Engineers and Technologists	Y	Y	Y	11
55	<a href="#">109107115</a>	15	NOC:Time value of money-Concepts and Calculations	Y	Y	Y	3.5
56	<a href="#">109107119</a>	20	NOC:Depreciation, Alternate Investment and Profitability Analysis	Y	Y	Y	5.4
57	<a href="#">109104116</a>	20	NOC:Postcolonial Literature	Y	Y	Y	1.5

58	109105116	40	NOC:Emotional Intelligence	Y	Y	Y	11
59	109104117	20	NOC:Introducing Modern Western Art: Movements and Artists	Y	Y	Y	1.7
60	109104115	40	NOC:Enhancing Soft Skills and Personality	Y	Y	Y	3.5
61	109105118	20	NOC:Great Experiments in Psychology	Y	Y	Y	5.5
62	109106117	20	NOC:Ethics	Y	Y	Y	12
63	109105115	46	NOC:Qualitative Research Methods	Y	Y	Y	9.5
64	109106120	17	NOC:The Renaissance and Shakespeare	Y	Y	Y	1.7
65	109106116	60	NOC:English Language for Competitive Exams	Y	Y	Y	27
66	109105117	39	NOC:Speaking Effectively	Y	Y	Y	8.7
67	109107121	60	NOC:Soft Skills	Y	Y	Y	19
68	109106122	33	NOC:Literature for Competitive Exams	Y	Y	Y	18
69	109104121	20	NOC:Cognition, Transformation and Lives	Y	Y	Y	1.5
70	109104122	20	NOC:Visual Perception and Art: A Survey Across the Cultures	Y	Y	Y	1.7
71	109104123	39	NOC:Introduction to Basic Cognitive Processes	Y	Y	Y	3.0
72	109104124	40	NOC:Calculus of One Real Variable	Y	Y	Y	2.5
73	109103121	36	NOC:Science, Technology and Society	Y	Y	Y	15
74	109103122	21	NOC:Gender and Literature	Y	Y	Y	14
75	109103123	31	NOC:Ecology and Society	Y	Y	Y	13
76	109106124	68	NOC:History of English Language and Literature	Y	Y	Y	24
77	109105121	60	NOC:Human Resource Development	Y	Y	Y	16
78	109105122	58	NOC:Educational Leadership	Y	Y	Y	14
79	109107131	20	NOC:Sociology of Science	Y	Y	Y	6.0
80	109107132	20	NOC:Perspectives on Neurolinguistic	Y	Y	Y	5.3
81	109106128	53	NOC:Patent Drafting for Beginners	Y	Y	Y	8.2
82	109106129	19	NOC:Business English Communication	Y	Y	Y	18
83	109105127	40	NOC:Strategic Performance Management	Y	Y	Y	12
84	109106130	40	NOC:Postmodernism in Literature	Y	Y	Y	33
85	109104126	40	NOC:Introduction to Advanced Cognitive Processes	Y	Y	Y	11
86	109104125	141	NOC:An Introduction to Microeconomics	Y	Y	Y	15
87	109103133	30	NOC:Sociological Perspectives on Modernity	Y	Y	Y	13
88	109103134	30	NOC:Introduction to Cognitive Psychology	Y	Y	Y	9.4
89	109103135	30	NOC:Introduction to Modern Indian Political Thought	Y	Y	Y	23
90	109103136	20	NOC:Consumer Psychology	Y	Y	Y	19
91	109104135	35	NOC:Introduction to Literary Theory	Y	Y	Y	10
92	109104136	20	NOC:Development of Sociology in India	Y	Y	Y	5.0
93	109105135	20	NOC:Introduction to Basic Spoken Sanskrit	---	Y	---	6.7
94	109105136	20	NOC:Water, Society and Sustainability	Y	Y	Y	6.5
95	109106135	47	NOC:Indian Fiction in English	Y	Y	Y	60

96	109106136	58	NOC:Introduction to Cultural Studies	Y	Y	Y	45
97	109106137	78	NOC:Intellectual Property	Y	Y	Y	15
98	109106138	54	NOC:Short Fiction in Indian Literature	Y	Y	Y	54
99	109103140	27	NOC:Introduction to Modern Indian Drama	Y	Y	Y	10
100	109103141	30	NOC:Introduction to Political Theory	Y	Y	Y	26
101	109103142	21	NOC:Human Behaviour	Y	Y	Y	21
102	109104143	38	NOC:Introduction to the Psychology of Language	Y	Y	Y	19
103	109105144	40	NOC:Employment Communication A Lab based course	Y	Y	Y	15
104	109106145	57	NOC:The Nineteenth-Century English Novel	Y	Y	Y	94
105	109106146	51	NOC:Feminist Writings	Y	Y	Y	80
106	109106147	50	NOC:Introduction to World Literature	Y	Y	Y	77
107	109106148	44	NOC:Managing Intellectual Property in Universities	Y	Y	Y	3.7
108	109106149	40	NOC:English Literature of the Romantic Period, 1798-1832	Y	Y	Y	27
109	109107139	60	NOC:Literature, Culture and Media	Y	Y	Y	12
110	109106170	80	Introduction to Film Studies (2019)	---	Y	---	85
111	109102156	38	NOC:Text, Textuality and Digital Media	Y	Y	Y	30
112	109102157	23	NOC:Positive Psychology	Y	Y	Y	12
113	109103152	20	NOC:The Psychology of Language	Y	Y	Y	8.9
114	109103153	25	NOC:Development Research Methods	Y	Y	Y	10
115	109104150	20	NOC:Population Studies	Y	Y	Y	9.1
116	109104151	15	NOC:Psychology of Everyday	Y	Y	Y	14
117	109105169	45	NOC:Intermediate Level of Spoken Sanskrit	Y	Y	Y	12
118	109106159	65	NOC:Appreciating Linguistics: A Typological Approach	Y	Y	Y	121
119	109106160	15	NOC:Inclusion and Technology Design	Y	Y	Y	39
120	109106161	28	NOC:Energy Economics and Policy	Y	Y	Y	25
121	109106163	19	NOC:The Victorian Gothic Short Story	Y	Y	Y	38
122	109106165	51	NOC:German-II	Y	Y	Y	74
123	109106166	46	NOC:German-I	Y	Y	Y	80
124	109106168	33	NOC:Disability Studies: An Introduction	Y	Y	Y	50
125	109107154	20	NOC:Body language: Key to professional Success	Y	Y	Y	4.0
126	109107155	40	NOC:Interpersonal Skills	Y	Y	Y	8.9
127	109108158	23	NOC:Artistic Exploration in Scientific Research and Technology	Y	Y	Y	4.7
128	109107172	20	NOC:Effective Writing	Y	Y	Y	6.5
129	109101171	56	NOC:Energy Resources, Economics and Environment	Y	Y	Y	43
130	109106175	34	NOC:Feminism: Concepts and Theories	Y	Y	Y	38
131	109103171	22	NOC:Indian Business History	Y	Y	Y	11
132	109104171	40	NOC:Introduction to Brain and Behaviour	Y	Y	Y	15
133	109107171	60	NOC:Introduction to Environmental Economics	Y	Y	Y	9.7

134	109106174	46	NOC:Introduction to Political Ideologies: Contexts, Ideas and Practices	Y	Y	Y	38
135	109106171	53	NOC:Literary Criticism (From Plato to Leavis)	Y	Y	Y	34
136	109106173	44	NOC:Modern Indian Writing in Translation	Y	Y	Y	27
137	109107173	60	NOC:Strategic Trade and Protectionism - Theories and Empirics	Y	Y	Y	9.8
138	109106172	61	NOC:Twentieth Century Fiction	Y	Y	Y	62
139	109106180	60	NOC:Classical Sociological Theory	Y	Y	Y	7.1
140	109105176	40	NOC:Entrepreneurship and IP strategy	Y	Y	Y	29
141	109103176	30	NOC:Introduction to Western Political Thought	Y	Y	Y	15
142	109104176	20	NOC:Modern Indian Art From the Colonial Period to the Present	Y	Y	Y	1.8
143	109106176	76	NOC:Poetry	Y	Y	Y	16
144	109106177	62	NOC:The Popular Gothic Novel	Y	Y	Y	4.9
145	109104181	45	NOC:Introduction to Japanese Language and Culture	---	Y	---	7.5
146	109103182	34	NOC:Psychology of Stress, Health and Well-being	Y	Y	Y	7.9
147	109103183	27	NOC:Phonetics and Phonology: A Broad Overview	Y	Y	Y	2.9
148	109103184	23	NOC:Philosophical Foundations of Social Research	Y	Y	Y	6.5
149	109104182	42	NOC:Applied Statistics and Econometrics	Y	Y	---	6.9
150	109104183	40	NOC:Literature and Coping Skills	Y	Y	Y	12
151	109104184	40	NOC:Indian Economy: Some Contemporary Perspectives	Y	Y	Y	3.7
152	109106182	41	NOC:Basics of Language Science	Y	Y	Y	14
153	109106183	60	NOC:Globalization: Theoretical Perspectives	Y	Y	Y	8.2
154	109106184	10	NOC:Towards an Ethical Digital Society: From Theory to Practice	Y	Y	Y	3.5
155	109107182	40	NOC:Handling Large Scale Unit Level Data Using STATA	Y	Y	Y	7.5
156	109103185	30	NOC:Sociology of Development	---	Y	---	8.0
157	109103186	31	NOC:Environment and Development	---	Y	---	8.2
158	109103187	43	NOC:Introduction to Market Structures	Y	Y	Y	4.4
159	109103188	34	NOC:Mathematics for Economics - I	Y	Y	Y	3.8
160	109105185	40	NOC:Urbanization and Environment	Y	Y	Y	5.1
161	109106185	43	NOC:Literary and Cultural Disability Studies: An Exploration	Y	Y	Y	12
162	109106186	65	NOC:Trauma and Literature	Y	Y	Y	10
163	109106187	57	NOC:Twentieth Century American Drama	Y	Y	---	8.1
164	109106188	68	NOC:Fundamental Concepts in Sociolinguistics	Y	Y	Y	9.5
165	109101189	60	NOC:Introduction to Paninian Grammar	---	Y	---	7.7
166	109103189	20	NOC:Language, Culture and Cognition: An Introduction	Y	Y	Y	4.4
167	109105189	27	NOC:Advanced Level of Spoken Sanskrit	---	Y	---	4.5
168	109105190	61	NOC:Education for Sustainable Development	Y	Y	Y	7.2
169	109105191	60	NOC:Elements of Literature and Creative Communication	Y	Y	Y	6.7
170	109105192	65	NOC:Training and Development	Y	Y	Y	8.3
171	109106189	50	NOC:Literature and Life	---	Y	---	9.8

172	109106190	69	NOC:German - III	---	Y	---	8.2
173	109106191	56	NOC:Appreciating Hindustani Music	Y	Y	Y	13
174	109107189	40	NOC:Indian Poetry in English	Y	Y	Y	9.4
175	109107190	40	NOC:Exploring Survey Data on Health Care	Y	Y	Y	5.1
176	109107191	60	NOC:Contextualizing Gender	Y	Y	Y	11
177	109104194	55	NOC:Japani Bhasha - Saral Swaroop	---	Y	---	4.2
178	109101195	60	NOC:Sandhi in Paninian Grammar	---	Y	---	6.7
179	109104195	42	NOC:Introduction to Japanese Language and Culture-II	Y	Y	Y	4.5
180	109104196	60	NOC:Indian Art: Materials, Techniques and Artistic Practices	Y	Y	Y	6.4
181	109104197	20	NOC:प्रमुख हिंदी कहानियां और भारतीय समाज	---	Y	---	3.8
182	109105195	20	NOC:Sociology and Resource Management	Y	Y	Y	2.1
183	109105196	20	NOC:Urban Sociology	Y	Y	Y	1.8
184	109105197	60	NOC:Management of Fixed Income Securities	Y	Y	Y	6.9
185	109106195	61	NOC:An Introduction to Indian Literary Theory	Y	Y	Y	7.6
186	109107195	60	NOC:Public Speaking	Y	Y	Y	15
187	109107196	62	NOC:Partition of India in Print Media and Cinema	Y	Y	Y	14
188	109101198	60	NOC:समास Samāsa in Pāṇinian Grammar-I	Y	Y	---	6.2
189	109103198	20	NOC:Bilingualism: A Cognitive and Psycholinguistic Perspective	Y	Y	Y	4.2
190	109104198	53	NOC:Computer Aided Decision Systems - Industrial Practices using Big Analytics	Y	Y	Y	4.9
191	109105198	60	NOC:Petroleum Economics and Management	Y	Y	Y	5.0
192	109105199	40	NOC:The Science of Happiness and Wellbeing	Y	Y	Y	3.5
193	109106198	80	NOC:Host-Pathogen Interaction (Immunology)	Y	Y	Y	7.6
194	109106199	29	NOC:Indian Feminisms: Concepts and Issues	Y	Y	Y	4.6
195	109106200	68	NOC:United Nations Sustainable Development Goals	Y	Y	---	6.8
196	109106201	47	NOC:Learning English in Hindi	---	Y	---	6.7
197	109107198	61	NOC:Narrative Mode and Fiction	Y	Y	Y	14
198	109107199	36	NOC:Group Dynamics	Y	Y	Y	7.7
199	109101203	60	NOC:समास Samāsa in Pāṇinian Grammar - II	---	Y	---	6.4
200	109104203	20	NOC:Introductory Rural Sociology: Continuity and Change	---	Y	Y	6.9
201	109104204	40	NOC:Threads of Visual Exploration: Textiles and Allied Practices	---	Y	---	4.3
202	109104206	23	NOC:Moral Thinking: An Introduction to Values and Ethics	Y	Y	Y	3.8
203	109105203	60	NOC:Environmental Science	---	Y	Y	7.5
204	109105204	60	NOC:Psychology of Learning	---	Y	---	8.2
205	109105205	60	NOC:Introduction to Language and Linguistics	---	Y	---	5.0
206	109106203	44	NOC:Social History of Medicine in Colonial India	Y	Y	Y	6.2
207	109106204	60	NOC:Indian Society: Sociological Perspectives	Y	Y	Y	8.8
208	109107203	20	NOC:Countering Stage Fright	---	Y	---	3.7
209	109107204	55	NOC:Advance Course in Social Psychology	Y	Y	Y	7.2

210	109107205	63	NOC:Performative Gender and Religions in South Asia	Y	Y	Y	9.2
211	109102392	40	NOC:Science Communication: Research Productivity and Data Analytics using Open Source Software	Y	Y	Y	8.0
212	109103395	31	NOC:Psychology of Emotion: Theory and Applications	Y	Y	Y	9.9
213	109104398	39	NOC:Psychology Of Bilingualism and Multilingualism	Y	Y	Y	4.7
214	109104400	10	NOC:Sociology and Sanitation: An Introduction	Y	Y	Y	2.6
215	109105396	58	NOC:Philosophy and Critical Thinking	Y	Y	Y	5.6
216	109106401	44	NOC:Human Movement Science	Y	Y	---	4.7
217	109106402	40	NOC:Sports and Performance Nutrition	Y	Y	Y	6.2
218	109106403	41	NOC:Sports Psychology	---	Y	---	9.1
219	109106404	59	NOC:Strength and Conditioning for the Indian Population	---	Y	---	15
220	109106405	39	NOC:Essentials of Sports Injury Prevention and Rehabilitation	Y	Y	Y	2.4
221	109106406	40	NOC:Introduction to Exercise Physiology and Sports Performance	Y	Y	Y	3.5
222	109106407	40	NOC:Fundamentals of Sports Training, Load Management and Recovery	---	Y	---	1.7
223	109106408	28	NOC:Forensic Linguistics	---	Y	---	2.2
224	109107394	60	NOC:Online Communication in the Digital Age	Y	Y	Y	11
225	109107397	42	NOC:Energy Resources, Economics and Sustainability	---	Y	---	4.6
226	109107399	20	NOC:Cognitive Ergonomics	---	Y	Y	2.6
227	109103501	33	NOC:Economics of Health and Education	---	Y	---	11
228	109103540	21	NOC:Engineering Psychology	---	Y	---	11
229	109104496	18	NOC:Business Japanese and Business Manner	---	Y	---	3.4
230	109104497	16	NOC:Threads of Visual Exploration: Textiles and Allied Practices - Part II	---	Y	---	11
231	109105493	40	NOC:Sustainable Happiness	Y	Y	Y	11
232	109105494	60	NOC:Logistics and Supply Chain Management	---	Y	---	12
233	109105495	40	NOC:Tools and Technologies of Language Documentation	---	Y	---	5.3
234	109106499	41	NOC:Korean - I	---	Y	---	20
235	109106500	20	NOC:Performance Traditions of the Mahabharata in Tamilnadu	---	Y	Y	84
236	109106503	44	NOC:Posthumanism: An Introduction	---	Y	---	5.5
237	109106505	40	NOC:Indian Popular Culture	Y	Y	---	7.3
238	109107498	40	NOC:The English Novel: Interdisciplinary Approaches	Y	Y	---	8.9
239	109107541	40	NOC:Memory	---	Y	---	9.7
240	109103598	---	NOC:Psychology of Personality and Individual Differences: Theory and Applications	---	---	---	---
241	109104604	---	NOC:Introduction to Economic Growth - I	---	---	---	---
242	109104607	---	NOC:Social Behavior and the Brain: An Introduction to Social Neuroscience	---	---	---	---
243	109105595	---	NOC:Educational Technology and ICT	---	---	---	---
244	109105596	---	NOC:Exercise and Sports Biomechanics	---	---	---	---

245	<a href="#">109105597</a>	---	NOC:Level-O Certificate Course in Cricket Coaching	---	---	---	---
246	<a href="#">109105605</a>	---	NOC:Mastering Speaking and Presentations: A Case Based Approach	---	---	---	---
247	<a href="#">109105606</a>	---	NOC:Modernisation and Creative Communication	---	---	---	---
248	<a href="#">109106594</a>	---	NOC:Contemporary Literature	---	---	---	---
249	<a href="#">109106600</a>	---	NOC:The Novel and Change	---	---	---	---
250	<a href="#">109106602</a>	---	NOC:Complete Guide for Campus Interviews: Step by Step Preparation for Internships and Full-time jobs	---	---	---	---
251	<a href="#">109106603</a>	---	NOC:Gender Inclusive Urban Spaces: Issues and Questions	---	---	---	---
252	<a href="#">109106645</a>	---	NOC:Anti-Doping Awareness in Sports	---	---	---	---
253	<a href="#">109106646</a>	---	NOC:Toolkit of PE Teachers: Basic	---	---	---	---
254	<a href="#">109106647</a>	---	NOC:Advanced Course in Performance Traditions of the Mahabharata in Tamilnadu - II	---	---	---	---
255	<a href="#">109106649</a>	---	NOC:Korean - II	---	---	---	---
256	<a href="#">109107599</a>	---	NOC:Refugee, Migration, Diaspora	---	---	---	---
257	<a href="#">109107601</a>	---	NOC:Victorian Literature: An Interdisciplinary Introduction	---	---	---	---

### Discipline : Management

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3	<a href="#">110102016</a>	40	Organisation Management	Y	Y	Y	16
4	<a href="#">110102058</a>	38	Organisation of Engineering Systems and Human Resources Management	Y	Y	Y	29
5	<a href="#">110104055</a>	37	Strategic Marketing - Contemporary Issues	Y	Y	Y	7.6
6	<a href="#">110104063</a>	58	NOC:Strategy: An Introduction to game Theory	Y	Y	Y	2.5
7	<a href="#">110105030</a>	40	Econometric Modelling	Y	Y	Y	19
8	<a href="#">110105033</a>	41	Organizational Behaviour	Y	Y	Y	12
9	<a href="#">110105035</a>	40	Security Analysis and Portfolio Management	Y	Y	Y	19
10	<a href="#">110105039</a>	40	Six Sigma	Y	Y	Y	8.3
11	<a href="#">110105052</a>	40	International Business Communication	Y	Y	Y	16
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13	<a href="#">110105057</a>	40	International Finance	Y	Y	Y	11
14	<a href="#">110105060</a>	42	Applied Multivariate Statistical Modeling	Y	Y	Y	12
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16	<a href="#">110106044</a>	40	Manufacturing Systems Management	Y	Y	Y	18
17	<a href="#">110106045</a>	41	Operations and Supply Chain Management	Y	Y	Y	18
18	<a href="#">110106050</a>	42	Business Analysis for Engineers	Y	Y	Y	16
19	<a href="#">110106062</a>	40	NOC:Introduction to Operations Research	Y	Y	Y	4.0
20	<a href="#">110108047</a>	37	Strategic Management	Y	Y	Y	16
21	<a href="#">110108056</a>	38	Global Supply Chain Management	Y	Y	Y	10
22	<a href="#">110104066</a>	50	NOC:Quantitative Finance	Y	Y	Y	8.7



23	<a href="#">110104065</a>	48	NOC:Managing Services	Y	Y	Y	12
24	<a href="#">110106064</a>	47	NOC:Introduction to Data Analytics	Y	Y	Y	2.4
25	<a href="#">110105067</a>	50	Economics / Management / Entrepreneurship	Y	Y	Y	13
26	<a href="#">110105069</a>	32	NOC:Principles of Human Resource Management	Y	Y	Y	9.6
27	<a href="#">110104068</a>	46	NOC:Marketing Management - I	Y	Y	Y	3.1
28	<a href="#">110106072</a>	50	NOC:Introduction to Data analytics	Y	Y	Y	2.6
29	<a href="#">110104070</a>	48	NOC:Marketing Management - II	Y	Y	Y	3.7
30	<a href="#">110105071</a>	40	NOC:Commodity Derivatives and Risk Management	Y	Y	Y	11
31	<a href="#">110105073</a>	24	NOC:Strategic Communication for Sustainable Development	Y	Y	Y	4.8
32	<a href="#">110107073</a>	60	NOC:Financial Statement Analysis and Reporting	Y	Y	Y	17
33	<a href="#">110105078</a>	39	NOC:Services Marketing: A Practical Approach	Y	Y	Y	4.9
34	<a href="#">110107074</a>	40	NOC:Supply Chain Analytics	Y	Y	Y	9.9
35	<a href="#">110105074</a>	40	NOC:Consumer Behaviour	Y	Y	Y	8.2
36	<a href="#">110105076</a>	40	NOC:Knowledge Management	Y	Y	Y	11
37	<a href="#">110105079</a>	61	NOC:Business Ethics	Y	Y	Y	17
38	<a href="#">110105075</a>	41	NOC:Foundation Course in Managerial Economics	Y	Y	Y	9.0
39	<a href="#">110104074</a>	27	NOC:Systems Engineering: Theory and Practice	Y	Y	Y	3.0
40	<a href="#">110104073</a>	40	NOC:Project Management	Y	Y	Y	2.6
41	<a href="#">110106081</a>	78	NOC:Patent Law for Engineers and Scientists	Y	Y	Y	27
42	<a href="#">110107080</a>	40	NOC:Marketing Research and Analysis	Y	Y	Y	11
43	<a href="#">110107081</a>	60	NOC:Project Management for Managers	Y	Y	Y	16
44	<a href="#">110104080</a>	34	NOC:Total Quality Management - I	Y	Y	Y	3.3
45	<a href="#">110105080</a>	20	NOC:Gender Justice and Workplace Security	Y	Y	Y	4.8
46	<a href="#">110105081</a>	58	NOC:Corporate Social Responsibility	Y	Y	Y	13
47	<a href="#">110105082</a>	40	NOC:Decision Modeling	Y	Y	Y	11
48	<a href="#">110105083</a>	60	NOC:E-Business	Y	Y	Y	15
49	<a href="#">110105091</a>	31	NOC:Research Writing	Y	Y	Y	5.7
50	<a href="#">110104084</a>	22	NOC:Management of New Products and Services	Y	Y	Y	4.7
51	<a href="#">110104085</a>	41	NOC:Total Quality Management-II	Y	Y	Y	8.6
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53	<a href="#">110105088</a>	60	NOC:Quality Design and Control	Y	Y	Y	17
54	<a href="#">110105087</a>	60	NOC:Design and Analysis of Experiments	Y	Y	Y	16
55	<a href="#">110105089</a>	60	NOC:Business Analytics for Management Decision	Y	Y	Y	20
56	<a href="#">110107092</a>	60	NOC:Business Analytics and Data Mining Modeling using R	Y	Y	Y	15
57	<a href="#">110105090</a>	56	NOC:Soft Skills for Business Negotiations and Marketing Strategies	Y	Y	Y	17
58	<a href="#">110103093</a>	23	NOC:Economic Growth and Development	Y	Y	Y	13
59	<a href="#">110104093</a>	61	NOC:Microeconomics: Theory and Applications	Y	Y	Y	13
60	<a href="#">110104094</a>	60	NOC:Data Analysis and Decision Making-I	Y	Y	Y	19

61	<a href="#">110104095</a>	51	NOC:Economics of Health and Health Care	Y	Y	Y	11
62	<a href="#">110104096</a>	26	NOC:Simulation of Business Systems: An Applied Approach	Y	Y	Y	7.8
63	<a href="#">110105093</a>	60	NOC:Engineering Econometrics	Y	Y	Y	18
64	<a href="#">110105094</a>	60	NOC:Industrial Safety Engineering	Y	Y	Y	16
65	<a href="#">110105095</a>	60	NOC:Management of Inventory Systems	Y	Y	Y	17
66	<a href="#">110105096</a>	40	NOC:Selected Topics in Decision Modeling	Y	Y	Y	8.3
67	<a href="#">110105097</a>	40	NOC:Ethics in Engineering Practice	Y	Y	Y	12
68	<a href="#">110107093</a>	60	NOC:Working Capital Management	Y	Y	Y	15
69	<a href="#">110107094</a>	40	NOC:Innovation, Business Models and Entrepreneurship	Y	Y	Y	12
70	<a href="#">110107095</a>	20	NOC:Business Analytics and Data Mining Modeling Using R - Part II	Y	Y	Y	5.3
71	<a href="#">110104117</a>	20	NOC:Management of Field Sales	Y	Y	Y	9.4
72	<a href="#">110104118</a>	60	NOC:Data Analysis and Decision Making-II	Y	Y	Y	25
73	<a href="#">110104119</a>	46	NOC:Advanced Green Manufacturing Systems	Y	Y	Y	23
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75	<a href="#">110105121</a>	60	NOC:Financial Institutions and Markets	Y	Y	Y	17
76	<a href="#">110105122</a>	40	NOC:Sales and Distribution Management	Y	Y	Y	17
77	<a href="#">110105123</a>	63	NOC:Six Sigma	Y	Y	Y*	19
78	<a href="#">110106124</a>	27	NOC:Design Thinking - A Primer	Y	Y	Y	21
79	<a href="#">110107112</a>	40	NOC:Global Marketing Management	Y	Y	Y	7.0
80	<a href="#">110107113</a>	60	NOC:Marketing Research and Analysis-II	Y	Y	Y	11
81	<a href="#">110107114</a>	60	NOC:Business Statistics	Y	Y	Y	11
82	<a href="#">110107115</a>	20	NOC:MCDM Techniques Using R	Y	Y	Y	4.7
83	<a href="#">110107116</a>	40	NOC:Manufacturing Strategy	Y	Y	Y	12
84	<a href="#">110101131</a>	40	NOC:Financial Accounting	Y	Y	Y	33
85	<a href="#">110101132</a>	20	NOC:Cost Accounting	Y	Y	Y	17
86	<a href="#">110101133</a>	40	NOC:Game Theory	Y	Y	Y	24
87	<a href="#">110104125</a>	60	NOC:Data Analysis and Decision Making - III	Y	Y	Y	15
88	<a href="#">110105137</a>	63	NOC:Performance and Reward Management	Y	Y	Y	15
89	<a href="#">110105138</a>	40	NOC:The Ethical Corporation	Y	Y	Y	20
90	<a href="#">110105139</a>	43	NOC:Intellectual Property Rights and Competition Law	Y	Y	Y	11
91	<a href="#">110105140</a>	40	NOC:Patent Search for Engineers and Lawyers	Y	Y	Y	11
92	<a href="#">110106134</a>	34	NOC:Decision-Making Under Uncertainty	Y	Y	Y	32
93	<a href="#">110106135</a>	34	NOC:Decision making using financial accounting	Y	Y	Y	52
94	<a href="#">110107126</a>	48	NOC:Training Of Trainers	Y	Y	Y	27
95	<a href="#">110107127</a>	60	NOC:Management Accounting	Y	Y	Y	10
96	<a href="#">110107128</a>	60	NOC:Financial Derivatives and Risk Management	Y	Y	Y	17
97	<a href="#">110107129</a>	40	NOC:Business Analytics and Text Mining Modeling Using Python	Y	Y	Y	5.8
98	<a href="#">110107130</a>	40	NOC:Toyota Production System	Y	Y	Y	13

99	110105144	41	NOC:Behavioral and Personal Finance	Y	Y	Y	19
100	110106141	61	NOC:Entrepreneurship	Y	Y	Y	36
101	110107144	60	NOC:Financial Management for Managers	Y	Y	Y	12
102	110108141	36	NOC:Integrated Marketing Management	Y	Y	Y	11
103	110101141	49	NOC:Introduction to Stochastic Processes	Y	Y	Y	57
104	110101142	63	NOC:Introduction to System Dynamics Modeling	Y	Y	Y	38
105	110105143	60	NOC:Management of Commercial Banking	Y	Y	Y	30
106	110105142	66	NOC:Marketing Analytics	Y	Y	Y	18
107	110105141	62	NOC:Modelling and Analytics for Supply Chain Management	Y	Y	Y	17
108	110107141	60	NOC:Production and Operation Management (Prof. Rajat Agarwal)	Y	Y	Y	14
109	110107143	60	NOC:Production and Operation Management (Prof. Santosh Rangnekar)	Y	Y	Y	13
110	110107142	60	NOC:Services Marketing: Integrating People, Technology, Strategy	Y	Y	Y	7.8
111	110105145	42	NOC:Customer Relationship Management	Y	Y	Y	17
112	110105147	60	NOC:Decision Support System for Managers	Y	Y	---	19
113	110106147	120	NOC:Financial Accounting (IIT Mandi)	Y	Y	Y	7.3
114	110107145	60	NOC:International Business	Y	Y	Y	8.1
115	110107147	60	NOC:Introduction to Marketing Essentials	Y	Y	Y	5.1
116	110105148	60	NOC:Management Information System	Y	Y	Y	30
117	110106145	56	NOC:Organizational Behaviour	Y	Y	Y	5.4
118	110101146	36	NOC:Organization Development and Change in 21st Century	Y	Y	Y	6.3
119	110107146	60	NOC:Path Integral Methods in Physics and Finance	Y	Y	---	8.0
120	110105146	59	NOC:Principles of Management (2020)	Y	Y	Y	30
121	110106146	32	NOC:The Future of Manufacturing Business: Role of Additive Manufacturing	Y	Y	Y	4.3
122	110101149	80	NOC:Managerial Economics	Y	Y	Y	11
123	110101150	40	NOC:Quality Control and Improvement with MINITAB	Y	Y	Y	3.9
124	110106150	36	NOC:Technology Forecasting for Strategic Decision Making - An Introduction	Y	Y	Y	2.1
125	110106151	62	NOC:Leadership for India Inc: Practical Concepts and Constructs	Y	Y	Y	13
126	110107150	62	NOC:Principles of Management (2021)	Y	Y	Y	7.6
127	110107151	40	NOC:Organization Theory-Structure and Design	Y	Y	Y	4.7
128	110107152	60	NOC:Talent Acquisition and Management	Y	Y	Y	12
129	110101153	32	NOC:Business and Sustainable Development	Y	Y	Y	3.1
130	110105153	107	NOC:Applied Econometrics	Y	Y	---	5.4
131	110105154	60	NOC:Organizational Behaviour - II	Y	Y	Y	8.9
132	110105155	60	NOC:Automation in Production Systems and Management	Y	Y	Y	7.2
133	110105156	40	NOC:Corporate Finance	---	Y	---	3.8
134	110107153	40	NOC:Econometric Modelling	Y	Y	Y	4.5
135	110107154	60	NOC:Security Analysis and Portfolio Management	Y	Y	---	15

136	<a href="#">110105157</a>	39	NOC:International Marketing	Y	Y	Y	3.7
137	<a href="#">110105158</a>	47	NOC:Retail Management	Y	Y	Y	4.6
138	<a href="#">110105159</a>	40	NOC:Business Law for Managers	Y	Y	Y	4.0
139	<a href="#">110105160</a>	60	NOC:Safety and Risk Analytics	---	Y	---	9.8
140	<a href="#">110106157</a>	61	NOC:Strategy and Technology: A Practical Primer	---	Y	---	12
141	<a href="#">110107157</a>	60	NOC:Decision Making with Spreadsheet	---	Y	---	6.3
142	<a href="#">110107158</a>	60	NOC:Integrated Marketing Communication	Y	Y	Y	17
143	<a href="#">110107159</a>	60	NOC:Leadership and Team Effectiveness	Y	Y	Y	7.0
144	<a href="#">110105161</a>	60	NOC:Strategic Management for Competitive Advantage	Y	Y	Y	4.5
145	<a href="#">110105162</a>	60	NOC:Human Factors Engineering	Y	Y	Y	8.3
146	<a href="#">110107161</a>	60	NOC:Product and Brand Management	Y	Y	Y	14
147	<a href="#">110107162</a>	60	NOC:Quantitative Investment Management	---	Y	---	8.4
148	<a href="#">110107163</a>	41	NOC:Strategic Sales Management	Y	Y	Y	6.2
149	<a href="#">110108161</a>	38	NOC:Strategic Management - The Competitive Edge	---	Y	Y	4.5
150	<a href="#">110101164</a>	40	NOC:Advances in Strategic Human Resource Management	Y	Y	Y	1.6
151	<a href="#">110101165</a>	93	NOC:Yoga and Positive Psychology for Managing Career and Life	Y	Y	---	3.5
152	<a href="#">110104164</a>	44	NOC:Artificial Intelligence (AI) for Investments	Y	Y	Y	4.1
153	<a href="#">110105164</a>	61	NOC:Organizational Design Change and Transformation	Y	Y	---	6.0
154	<a href="#">110105165</a>	40	NOC:Mergers, Acquisitions and Corporate Restructuring	Y	Y	Y	4.3
155	<a href="#">110105166</a>	40	NOC:Invest Management	Y	Y	---	3.9
156	<a href="#">110106164</a>	60	NOC:Business Development: From Start to Scale	Y	Y	Y	13
157	<a href="#">110106165</a>	58	NOC:Applied Econometrics	---	Y	---	4.9
158	<a href="#">110101167</a>	20	NOC:Business Fundamentals for Entrepreneurs (Part 1: Internal Operation)	Y	Y	---	3.1
159	<a href="#">110104167</a>	40	NOC:Brand Management	Y	Y	Y	6.5
160	<a href="#">110104168</a>	43	NOC:Advanced Business Decision Support Systems	Y	Y	Y	4.3
161	<a href="#">110104169</a>	28	NOC:Advanced Algorithmic Trading and Portfolio Management	Y	Y	Y	3.3
162	<a href="#">110105167</a>	40	NOC:Project Management: Planning, Execution, Evaluation and Control	Y	Y	Y	3.1
163	<a href="#">110105168</a>	60	NOC:Commodity Derivatives and Risk Management (2023)	Y	Y	Y	6.3
164	<a href="#">110106167</a>	17	NOC:Working in Contemporary Teams	Y	Y	Y	2.0
165	<a href="#">110107167</a>	41	NOC:Retail Marketing Strategy	Y	Y	Y	6.5
166	<a href="#">110107168</a>	60	NOC:Business to Business Marketing	---	Y	---	8.7
167	<a href="#">110107169</a>	60	NOC:Designing Work Organization	Y	Y	Y	6.5
168	<a href="#">110101436</a>	60	NOC:Supply Chain Digitization	---	Y	---	6.1
169	<a href="#">110101438</a>	38	NOC:Business Forecasting	---	Y	---	4.4
170	<a href="#">110101439</a>	17	NOC:Business Fundamentals for Entrepreneurs (Part 2: External Operation)	---	Y	---	2.7
171	<a href="#">110103433</a>	59	NOC:Organizational Behaviour: Individual Dynamics in Organization	Y	Y	Y	11
172	<a href="#">110104437</a>	36	NOC:Advanced Financial Instruments for Sustainable Business and Decentralized Markets	Y	Y	Y	4.9

173	<a href="#">110104440</a>	57	NOC:Multivariate Procedures with R	---	Y	---	5.1
174	<a href="#">110106368</a>	58	NOC:Foundations of Accounting and Finance	Y	Y	Y	7.0
175	<a href="#">110106435</a>	48	NOC:Strategic Sourcing	---	Y	---	5.9
176	<a href="#">110107430</a>	40	NOC:Project Management (2024)	Y	Y	Y	3.0
177	<a href="#">110107431</a>	60	NOC:AI in Marketing	Y	Y	Y	4.8
178	<a href="#">110107432</a>	60	NOC:Innovation in Marketing and Marketing of Innovation	---	Y	---	8.9
179	<a href="#">110107434</a>	60	NOC:Strategic Services Marketing	Y	Y	Y	9.6
180	<a href="#">110103506</a>	58	NOC:Labour Welfare and Industrial Relations	---	Y	---	9.2
181	<a href="#">110104507</a>	34	NOC:Business Marketing - Technology Focus	---	Y	---	11
182	<a href="#">110104513</a>	45	NOC:Advanced R Programming for Data Analytics in Business	---	Y	---	6.6
183	<a href="#">110105508</a>	61	NOC:Service Management: Integrating Strategy, Operations, and Technology	---	Y	---	7.1
184	<a href="#">110105510</a>	40	NOC:Financial Management (in Hindi)	---	Y	---	8.8
185	<a href="#">110106511</a>	40	NOC:Fundamentals of Cost Accounting	---	Y	---	7.5
186	<a href="#">110106512</a>	36	NOC:Introduction to GST	---	Y	---	6.9
187	<a href="#">110106514</a>	38	NOC:Research for Marketing Decisions	---	Y	---	7.9
188	<a href="#">110107492</a>	62	NOC:HR Analytics	---	Y	---	9.9
189	<a href="#">110107509</a>	60	NOC:Strategic Management	---	Y	---	20
190	<a href="#">110101628</a>	---	NOC:Business Fundamentals for Entrepreneurs	---	---	---	---
191	<a href="#">110103626</a>	---	NOC:AI in Human Resource Management	---	---	---	---
192	<a href="#">110104624</a>	---	NOC:Advanced Financial Analytics	---	---	---	---
193	<a href="#">110105625</a>	---	NOC:Advertising and Promotions Management	---	---	---	---
194	<a href="#">110106629</a>	---	NOC:Public Organization and Management	---	---	---	---
195	<a href="#">110107627</a>	---	NOC:AI in Product Management	---	---	---	---
196	<a href="#">110107630</a>	---	NOC:Operations and Revenue Analytics	---	---	---	---

**Discipline : Mathematics**

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1	<a href="#">111101003</a>	40	Elementary Numerical Analysis	Y	Y	Y	28
2	<a href="#">111101005</a>	40	Measure and Integration	Y	Y	Y	34
3	<a href="#">111101080</a>	40	Mathematics in India - From Vedic Period to Modern Times	Y	Y	Y	18
4	<a href="#">111102014</a>	39	Stochastic Processes	Y	Y	Y	23
5	<a href="#">111103016</a>	41	Formal Languages and Automata Theory	Y	Y	Y	17
6	<a href="#">111103070</a>	40	Complex Analysis	Y	Y	Y	23
7	<a href="#">111104024</a>	44	Applied Multivariate Analysis	Y	Y	Y	20
8	<a href="#">111104025</a>	40	Calculus of Variations and Integral Equations	Y	Y	Y	12
9	<a href="#">111104027</a>	40	Linear programming and Extensions	Y	Y	Y	17
10	<a href="#">111104068</a>	42	Convex Optimization	Y	Y	Y	8.6
11	<a href="#">111104071</a>	38	Foundations of Optimization	Y	Y	Y	7.2

12	<a href="#">111104079</a>	40	Probability Theory and Applications	Y	Y	Y	8.6
13	<a href="#">111105035</a>	42	Advanced Engineering Mathematics	Y	Y	Y	12
14	<a href="#">111105037</a>	40	Functional Analysis	Y	Y	Y	19
15	<a href="#">111105038</a>	40	Numerical methods of Ordinary & Partial Differential Equations	Y	Y	Y	12
16	<a href="#">111105039</a>	40	Optimization	Y	Y	Y	12
17	<a href="#">111105041</a>	40	Probability and Statistics	Y	Y	Y	8.7
18	<a href="#">111105042</a>	40	Regression Analysis	Y	Y	Y	15
19	<a href="#">111105043</a>	40	Statistical Inference	Y	Y	---	12
20	<a href="#">111105069</a>	46	A Basic Course in Real Analysis	Y	Y	Y	15
21	<a href="#">111106044</a>	48	An Introduction to Riemann Surfaces and Algebraic Curves: Complex 1-Tori and Elliptic Curves	Y	Y	Y	23
22	<a href="#">111106051</a>	52	Linear Algebra	Y	Y	Y	21
23	<a href="#">111106052</a>	42	Mathematical Logic	Y	Y	Y	17
24	<a href="#">111106053</a>	52	Real Analysis	Y	Y	Y	22
25	<a href="#">111106083</a>	36	NOC:An invitation to mathematics	Y	Y	Y	6.7
26	<a href="#">111107058</a>	41	Discrete Mathematics	Y	Y	Y	4.5
27	<a href="#">111108066</a>	40	Advanced Matrix Theory and Linear Algebra for Engineers	Y	Y	Y	19
28	<a href="#">111108081</a>	40	Ordinary Differential Equations and Applications	Y	Y	Y	25
29	<a href="#">111104085</a>	30	NOC:Basic Calculus for Engineers, Scientists and Economists	Y	Y	Y	4.2
30	<a href="#">111105077</a>	40	Statistical Methods for Scientists and Engineers	Y	Y	Y	12
31	<a href="#">111106084</a>	43	Advanced Complex Analysis - Part 1: Zeros of Analytic Functions, Analytic continuation, Monodromy, Hyperbolic Geometry	Y	Y	Y	18
32	<a href="#">111106086</a>	51	NOC:Discrete Mathematics	Y	Y	Y	3.0
33	<a href="#">111105091</a>	61	NOC:Applied Multivariate Statistical Modeling	Y	Y	Y	4.6
34	<a href="#">111105090</a>	79	NOC:Probability and Statistics	Y	Y	Y	20
35	<a href="#">111104089</a>	20	NOC:Probability and Stochastics for finance	Y	Y	Y	2.8
36	<a href="#">111106082</a>	40	Dynamic Data Assimilation: An Introduction	Y	Y	Y	19
37	<a href="#">111106094</a>	43	Advanced Complex Analysis - Part 2: Singularity at Infinity, Infinity as a Value, Compact Spaces of Meromorphic Functions for the Spherical Metric and Spherical Derivative	Y	Y	Y	29
38	<a href="#">111105093</a>	20	NOC:Partial Differential Equations (PDE) for Engineers: Solution by Separation of Variables	Y	Y	Y	5.1
39	<a href="#">111104092</a>	21	NOC:Differential Calculus in Several Variables	Y	Y	Y	1.5
40	<a href="#">111102096</a>	77	NOC:Stochastic Processes - 1	Y	Y	Y	1.9
41	<a href="#">111104095</a>	22	NOC:Curves and Surfaces	Y	Y	Y	1.1
42	<a href="#">111106097</a>	42	Basic Algebraic Geometry : Varieties, Morphisms, Local Rings, Function Fields and Nonsingularity	Y	Y	Y	19
43	<a href="#">111106098</a>	38	NOC:Introduction to Commutative Algebra	Y	Y	Y	30
44	<a href="#">111108098</a>	60	NOC:Linear Algebra	Y	Y	Y	13
45	<a href="#">111104098</a>	24	NOC:Linear Regression Analysis and Forecasting	Y	Y	Y	1.3

46	<a href="#">111102098</a>	124	NOC:Stochastic Processes	Y	Y	Y	13
47	<a href="#">111107098</a>	60	NOC:Mathematical Methods and its Applications	Y	Y	Y	16
48	<a href="#">111105098</a>	73	NOC:Introductory Course in Real Analysis	Y	Y	---	20
49	<a href="#">111105099</a>	40	NOC:Modeling Transport Phenomena of Microparticles	Y	Y	Y	11
50	<a href="#">111106100</a>	64	NOC:Differential Equations	Y	Y	Y	24
51	<a href="#">111107103</a>	60	NOC:Integral Equations, Calculus of Variations and its Applications	Y	Y	Y	17
52	<a href="#">111107104</a>	20	NOC:Nonlinear Programming	Y	Y	Y	5.5
53	<a href="#">111107105</a>	40	NOC:Numerical Methods	Y	Y	Y	9.8
54	<a href="#">111101100</a>	62	NOC:Measure Theory	Y	Y	Y	27
55	<a href="#">111106101</a>	54	NOC:Numerical Analysis	Y	Y	Y	29
56	<a href="#">111104100</a>	43	NOC:Introduction to R Software	Y	Y	Y	2.9
57	<a href="#">111105100</a>	60	NOC:Constrained and Unconstrained Optimization	Y	Y	Y	15
58	<a href="#">111106102</a>	39	NOC:Graph Theory	Y	Y	Y	9.3
59	<a href="#">111107107</a>	20	NOC:Numerical Methods: Finite Difference Approach	Y	Y	Y	3.2
60	<a href="#">111101109</a>	41	NOC:Calculus for Economics,Commerce and Management	Y	Y	Y	33
61	<a href="#">111107108</a>	40	NOC:Multivariable Calculus	Y	Y	Y	11
62	<a href="#">111107106</a>	60	NOC:Numerical Linear Algebra	Y	Y	Y	15
63	<a href="#">111102110</a>	35	NOC:Chaotic Dynamical Systems	Y	Y	Y	27
64	<a href="#">111102111</a>	92	NOC:Introduction to Probability Theory and Stochastic Processes	Y	Y	Y	30
65	<a href="#">111102112</a>	21	NOC:Statistical Inference	Y	Y	Y	19
66	<a href="#">111105111</a>	60	NOC:Matrix Solver	Y	Y	Y	16
67	<a href="#">111105112</a>	40	NOC:Introduction to Abstract and Linear Algebra	Y	Y	Y	8.7
68	<a href="#">111106111</a>	48	NOC:Transform Techniques for Engineers	Y	Y	Y.	72
69	<a href="#">111106112</a>	21	NOC:Introduction to Probability and Statistics	Y	Y	Y	9.0
70	<a href="#">111106113</a>	45	NOC:Introduction to Abstract Group Theory	Y	Y	Y	40
71	<a href="#">111106114</a>	17	NOC:Groups: Motion, Symmetry and Puzzles	Y	Y	Y	24
72	<a href="#">111107111</a>	60	NOC:Ordinary and Partial Differential Equations and Applications	Y	Y	Y	11
73	<a href="#">111107112</a>	40	NOC:Matrix Analysis with Applications	Y	Y	Y	5.4
74	<a href="#">111107113</a>	20	NOC:Mathematical Modelling: Analysis and Applications	Y	Y	Y	4.2
75	<a href="#">111101115</a>	41	NOC:Basic Linear Algebra	Y	Y	Y	16
76	<a href="#">111101116</a>	60	NOC:Commutative Algebra	Y	Y	Y	34
77	<a href="#">111101117</a>	62	NOC:Galois Theory	Y	Y	Y	61
78	<a href="#">111104120</a>	34	NOC:Descriptive Statistics with R Software	Y	Y	Y	12
79	<a href="#">111105121</a>	60	NOC:Engineering Mathematics-I	Y	Y	Y	17
80	<a href="#">111105122</a>	60	NOC:Integral and Vector Calculus	Y	Y	Y	16
81	<a href="#">111105123</a>	60	NOC:Transform Calculus and its applications in Differential Equations	Y	Y	Y	16
82	<a href="#">111107118</a>	60	NOC:Dynamical System and Control	Y	Y	Y	8.2
83	<a href="#">111107119</a>	60	NOC:Advanced Engineering Mathematics	Y	Y	Y	8.8

84	<a href="#">111105124</a>	64	NOC:Statistical Inference (2019)	Y	Y	Y	17
85	<a href="#">111102129</a>	72	NOC:Integral Transforms and their Applications	Y	Y	Y	88
86	<a href="#">111102130</a>	30	NOC:Introduction to Fuzzy Set Theory, Arithmetic and Logic	Y	Y	Y	29
87	<a href="#">111102133</a>	32	Introduction to Methods of Applied Mathematics	Y	Y	Y	24
88	<a href="#">111103126</a>	36	NOC:Mathematical Finance	Y	Y	Y	20
89	<a href="#">111104125</a>	37	NOC:Calculus of Several Real Variables	Y	Y	Y	14
90	<a href="#">111105132</a>	20	NOC:Mathematical Methods for Boundary Value Problems	Y	Y	Y	6.6
91	<a href="#">111106131</a>	44	NOC:Introduction To Rings And Fields	Y	Y	Y	58
92	<a href="#">111107127</a>	56	NOC:Higher Engineering Mathematics	Y	Y	Y	5.8
93	<a href="#">111107128</a>	40	NOC:Operations Research	Y	Y	Y	4.3
94	<a href="#">111102134</a>	30	NOC:Advanced Probability Theory	Y	Y	Y	41
95	<a href="#">111108134</a>	68	NOC:An Introduction to Smooth Manifolds	Y	Y	Y	5.7
96	<a href="#">111101134</a>	69	NOC:Basic Real Analysis	Y	Y	Y	48
97	<a href="#">111105134</a>	60	NOC:Engineering Mathematics - II	Y	Y	Y	28
98	<a href="#">111108136</a>	60	NOC:Introduction to Algebraic Geometry and Commutative Algebra	Y	Y	Y	9.9
99	<a href="#">111106135</a>	48	NOC:Linear Algebra (Prof. Pranav Haridas)	Y	Y	Y	45
100	<a href="#">111108135</a>	62	NOC:Measure Theory (Prof. E. K. Narayanan)	Y	Y	Y	12
101	<a href="#">111106134</a>	67	NOC:Probabilistic Methods in PDE	Y	Y	Y	36
102	<a href="#">111101137</a>	63	NOC:A Basic Course in Number Theory	Y	Y	---	19
103	<a href="#">111106137</a>	83	NOC:Algebra - I	Y	Y	Y	4.1
104	<a href="#">111106141</a>	48	NOC:Complex Analysis	Y	Y	Y	5.9
105	<a href="#">111106138</a>	60	NOC:Computational Commutative Algebra	Y	Y	---	4.9
106	<a href="#">111104138</a>	27	NOC:Computational Number Theory and Algebra	Y	Y	---	14
107	<a href="#">111107137</a>	60	NOC:Essential Mathematics for Machine Learning	Y	Y	---	4.6
108	<a href="#">111106139</a>	27	NOC:Laplace Transform	---	Y	Y	2.5
109	<a href="#">111104137</a>	66	NOC:Linear Algebra (Prof. A.K. Lal)	Y	Y	---	16
110	<a href="#">111103137</a>	36	NOC:Mathematical Portfolio Theory	Y	Y	Y	5.8
111	<a href="#">111106140</a>	75	NOC:Measure Theory (Prof. Indrava Roy)	Y	Y	---	4.9
112	<a href="#">111102143</a>	10	NOC:Non-parametric Statistical Inference	Y	Y	Y	2.5
113	<a href="#">111106142</a>	121	NOC:Real Analysis - I	Y	Y	Y	4.5
114	<a href="#">111102137</a>	65	NOC:Scientific Computing using Matlab	Y	Y	Y	31
115	<a href="#">111101144</a>	62	NOC:Introduction to Algebraic Topology - Part I	Y	Y	Y	7.0
116	<a href="#">111104144</a>	40	NOC:Basic Calculus 1 and 2	---	Y	---	3.2
117	<a href="#">111104145</a>	33	NOC:Advanced Partial Differential Equations	Y	Y	Y	2.6
118	<a href="#">111104146</a>	69	NOC:Essentials of Data Science With R Software 1: Probability and Statistical Inference	Y	Y	Y	6.9
119	<a href="#">111104147</a>	53	NOC:Essentials of Data Science With R Software 2: Sampling Theory and Linear Regression Analysis	Y	Y	Y	6.0
120	<a href="#">111106144</a>	66	NOC:Variational Calculus and its applications in	Y	Y	Y	5.0



			Control Theory and Nanomechanics				
121	<a href="#">111106145</a>	49	NOC:Introduction to Galois Theory	Y	Y	---	5.7
122	<a href="#">111106146</a>	72	NOC:Basic Calculus 1	Y	Y	Y	3.9
123	<a href="#">111106147</a>	74	NOC:Functional Analysis	Y	Y	Y	4.6
124	<a href="#">111106148</a>	90	NOC:Mathematical Methods in Physics 1	Y	Y	Y	4.0
125	<a href="#">111106149</a>	70	NOC:Computational Mathematics with SageMath	Y	Y	Y	4.9
126	<a href="#">111106150</a>	46	NOC:Introduction to Probability (with examples using R)	Y	Y	---	3.8
127	<a href="#">111106151</a>	84	NOC:Algebra-II	Y	Y	---	4.3
128	<a href="#">111108144</a>	41	NOC:First Course on Partial Differential Equations - I	Y	Y	---	3.5
129	<a href="#">111101152</a>	62	NOC:Introduction to Algebraic Topology - Part II	Y	Y	Y	6.5
130	<a href="#">111101153</a>	60	NOC:Partial Differential Equations	Y	Y	---	5.2
131	<a href="#">111102152</a>	58	NOC:Matrix Computation and its Applications	Y	Y	Y	5.4
132	<a href="#">111104152</a>	40	NOC:Measure Theoretic Probability 1	Y	Y	Y	2.4
133	<a href="#">111106152</a>	80	NOC:Mathematical Methods in Physics 2	Y	Y	Y	4.6
134	<a href="#">111106153</a>	74	NOC:Real Analysis - II	Y	Y	---	2.8
135	<a href="#">111106154</a>	85	NOC:Sobolev Spaces and Partial Differential Equations	Y	Y	Y	6.1
136	<a href="#">111106155</a>	58	NOC:Combinatorics	Y	Y	Y	4.2
137	<a href="#">111106156</a>	16	NOC:Our Mathematical Senses	Y	Y	Y	2.2
138	<a href="#">111108152</a>	41	NOC:First Course on Partial Differential Equations - II	Y	Y	---	3.5
139	<a href="#">111108157</a>	80	Matrix Theory	Y	Y	---	6.5
140	<a href="#">111101158</a>	61	NOC:An Introduction to Point-Set-Topology - Part I	Y	Y	Y	6.0
141	<a href="#">111103158</a>	34	NOC:Discrete-time Markov Chains and Poission Processes	Y	Y	Y	3.7
142	<a href="#">111103159</a>	48	NOC:Introduction to Queueing Theory	Y	Y	Y	6.8
143	<a href="#">111106158</a>	84	NOC:Algebraic Combinatorics	---	Y	---	3.7
144	<a href="#">111106159</a>	73	NOC:An Invitation to Topology	---	Y	---	3.7
145	<a href="#">111101160</a>	62	NOC:An Introduction to Point-Set-Topology - Part II	Y	Y	---	6.5
146	<a href="#">111102160</a>	58	NOC:Introduction to Probability Theory and Statistics	---	Y	Y	5.1
147	<a href="#">111104160</a>	54	NOC:Foundations of R Software	Y	Y	Y	5.4
148	<a href="#">111104161</a>	54	NOC:Foundations of R Software (In Hindi)	---	Y	---	9.1
149	<a href="#">111105160</a>	60	NOC:Advanced Calculus For Engineers	---	Y	---	4.7
150	<a href="#">111105161</a>	60	NOC:Rings and Modules	---	Y	---	4.1
151	<a href="#">111106160</a>	51	NOC:Operator Theory	---	Y	---	4.5
152	<a href="#">111106161</a>	79	NOC:Measure and Integration	Y	Y	Y	4.4
153	<a href="#">111106162</a>	58	NOC:Approximate Reasoning using Fuzzy Set Theory	Y	Y	Y	5.4
154	<a href="#">111106163</a>	45	NOC:Probability-II with Examples Using R	---	Y	---	3.1
155	<a href="#">111101164</a>	60	NOC:Fourier Analysis and its Applications	Y	Y	Y	5.1
156	<a href="#">111101165</a>	61	NOC:Numerical Analysis (2023)	Y	Y	Y	4.6
157	<a href="#">111104164</a>	41	NOC:An Introduction to Hyperbolic Geometry	---	Y	---	2.3

158	<a href="#">111104165</a>	42	NOC:A Primer to Mathematical Optimization	---	Y	---	4.6
159	<a href="#">111105164</a>	20	NOC:Advanced Computational Techniques	Y	Y	Y	1.6
160	<a href="#">111105165</a>	60	NOC:Applied Linear Algebra in AI and ML	---	Y	---	3.9
161	<a href="#">111105167</a>	60	NOC:Advanced Engineering Mathematics	Y	Y	---	5.5
162	<a href="#">111106164</a>	64	NOC:Predictive Analytics - Regression and Classification	Y	Y	---	4.7
163	<a href="#">111107164</a>	60	NOC:Advanced Linear Algebra	---	Y	Y	3.8
164	<a href="#">111108164</a>	40	NOC:C* Algebras and Spectral Theorem	---	Y	---	6.0
165	<a href="#">111101168</a>	42	NOC:Point Set Topology	---	Y	Y	2.9
166	<a href="#">111104168</a>	44	NOC:Measure Theoretic Probability 2	---	Y	---	4.1
167	<a href="#">111105169</a>	72	NOC:Essentials of Topology	---	Y	Y	4.7
168	<a href="#">111106168</a>	75	NOC:Introduction to Algebraic Geometry	---	Y	---	5.2
169	<a href="#">111108168</a>	42	NOC:Advanced Partial Differential Equations (Part I: Distributions and Sobolev Spaces)	---	Y	---	4.0
170	<a href="#">111104416</a>	52	NOC:Set Theory and Mathematical Logic	---	Y	---	8.5
171	<a href="#">111105417</a>	63	NOC:Numerical Linear Algebra and Application	---	Y	---	4.9
172	<a href="#">111106415</a>	60	NOC:Introduction to Statistics	---	Y	---	3.5
173	<a href="#">111108412</a>	40	NOC:Advanced Course on Partial Differential Equations - II	---	Y	---	3.7
174	<a href="#">111108413</a>	58	NOC:Introduction to Group Theory	---	Y	---	7.9
175	<a href="#">111108414</a>	55	NOC:Introduction to Lie Algebras	---	Y	---	3.9
176	<a href="#">111102518</a>	53	NOC:Introduction to Probability Theory and Stochastic Processes (Tamil)	---	Y	---	18
177	<a href="#">111104519</a>	60	NOC:Introduction to Fourier Analysis	---	Y	---	5.9
178	<a href="#">111104521</a>	41	NOC:Ordinary Differential Equations	---	Y	---	3.5
179	<a href="#">111104524</a>	24	NOC:Category Theory	---	Y	---	11
180	<a href="#">111105489</a>	60	NOC:Mathematics for Machine Learning	---	Y	---	7.7
181	<a href="#">111105522</a>	60	NOC:Advanced Theory of Ordinary Differential Equations	---	Y	---	9.3
182	<a href="#">111106525</a>	63	NOC:Probability Theory for Data Science	---	Y	---	6.7
183	<a href="#">111107523</a>	60	NOC:EXCELing with Mathematical Modeling	---	Y	---	8.2
184	<a href="#">111108520</a>	50	NOC:Representation Theory of General Linear Lie Algebra	---	Y	---	4.9
185	<a href="#">111101611</a>	---	NOC:High Performance Scientific Computing	---	---	---	---
186	<a href="#">111102613</a>	---	NOC:Scientific Computing using Python (Hindi)	---	---	---	---
187	<a href="#">111104612</a>	---	NOC:Multivariate Procedures with R (Hindi)	---	---	---	---
188	<a href="#">111104644</a>	---	NOC:Optimization Algorithms: Theory and Software Implementation	---	---	---	---
189	<a href="#">111105610</a>	---	NOC:Functional Analysis and its Applications	---	---	---	---
190	<a href="#">111105614</a>	---	NOC:Soft Computing Techniques	---	---	---	---
191	<a href="#">111108609</a>	---	NOC:Algebraic Number Theory	---	---	---	---

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1	<a href="#">112101002</a>	43	Convective Heat and Mass Transfer	Y	Y	Y	18
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2	112101004	42	Cryogenic Engineering	Y	Y	Y	34
3	112101095	40	Advanced Strength of Materials	Y	Y	Y	9.7
4	112101097	35	Heat and Mass Transfer	Y	Y	Y	6.7
5	112101099	40	Robotics	Y	Y	Y	11
6	112102014	42	Tribology	Y	Y	Y	18
7	112102101	52	Computer Aided Design and Manufacturing	Y	Y	Y	8.8
8	112102106	41	Project and Production Management	Y	Y	Y	11
9	112103023	40	Nonlinear Vibration	Y	Y	Y	20
10	112103025	42	Theory and Practice of Rotor Dynamics	Y	Y	Y	26
11	112103108	40	Engineering Mechanics	Y	Y	Y	9.5
12	112103112	40	Mechanical Vibrations	Y	Y	Y	9.3
13	112104026	39	Acoustics	Y	Y	Y	9.4
14	112104028	34	Advanced Machining Processes	Y	Y	Y	14
15	112104029	40	Biomechanical systems	Y	Y	Y	18
16	112104031	40	Computer Aided Engineering Design	Y	Y	Y	16
17	112104035	40	Mathematical Methods in Engineering and Science	Y	Y	Y	12
18	112104114	44	Dynamics of Machines	Y	Y	Y	5.9
19	112104115	38	Finite Element Method	Y	Y	Y	4.4
20	112104121	39	Kinematics of Machines	Y	Y	Y	3.6
21	112104162	38	Advanced manufacturing process for micro system fabrication	Y	Y	Y	14
22	112104172	40	Engineering Drawing	Y	Y	Y	15
23	112104181	42	NOC:BioMEMS and Microsystems	Y	Y	Y	4.6
24	112105045	43	Computational Fluid Dynamics (Prof. S. Chakraborty)	Y	Y	Y	22
25	112105048	40	Machinery fault diagnosis and signal processing	Y	Y	Y	9.4
26	112105051	43	Solar Energy Technology	Y	Y	Y	11
27	112105053	40	Technology of Surface Coating	Y	Y	Y	11
28	112105055	40	Vibration of Structures	Y	Y	Y	11
29	112105123	32	Basic Thermodynamics	Y	Y	Y	7.1
30	112105124	40	Design of Machine Elements I	Y	Y	Y	12
31	112105126	41	Manufacturing Processes II	Y	Y	Y	9.1
32	112105128	46	Refrigeration and Air Conditioning	Y	Y	Y	12
33	112105171	49	Fluid Mechanics	Y	Y	Y	13
34	112105182	40	Introduction to Fluid Machines and Compressible Flow	Y	Y	Y	11
35	112105183	58	Introduction to Fluid Mechanics and Fluid Engineering	Y	Y	Y	17
36	112106056	40	Advanced Gas Dynamics	Y	Y	Y	18
37	112106064	40	Design and Optimization of Energy systems	Y	Y	Y	16
38	112106065	41	Engineering Fracture Mechanics	Y	Y	Y	18
39	112106068	41	Experimental Stress Analysis	Y	Y	Y	19

40	112106073	41	Rocket Propulsion	Y	Y	Y	18
41	112106130	30	Advanced Finite Elements Analysis	Y	Y	Y	4.9
42	112106131	39	Advanced Operations Research	Y	Y	Y	13
43	112106134	22	Fundamentals of Operations Research	Y	Y	Y	4.6
44	112106135	33	Introduction to Finite Element Method	Y	Y	Y	7.3
45	112106138	50	Mechanical Measurements and Metrology	Y	Y	Y	13
46	112106140	26	Principles of Mechanical Measurements	Y	Y	Y	5.4
47	112106154	41	Spray Theory and Applications (Repurposed)	Y	Y	Y	17
48	112106155	46	Conduction And Radiation	Y	Y	Y	19
49	112106166	40	Gas Dynamics and Propulsion	Y	Y	Y	31
50	112106169	41	Microfluidics	Y	Y	Y	25
51	112106170	44	Convective Heat Transfer	Y	Y	Y	27
52	112106177	40	Introduction to Explosions and Explosion Safety	Y	Y	Y	33
53	112106180	35	NOC:Engineering Mechanics Statics and Dynamics	Y	Y	Y	4.0
54	112107078	40	Advanced Manufacturing Processes	Y	Y	Y	20
55	112107079	43	Computational Fluid Dynamics (Dr. K.M. Singh)	Y	Y	Y	31
56	112107086	40	Processing of non metals	Y	Y	Y	31
57	112107087	40	Vibration control	Y	Y	Y	34
58	112107089	40	Welding Engineering	Y	Y	Y	31
59	112107143	40	Industrial Engineering	Y	Y	Y	8.3
60	112107145	40	Manufacturing Processes I	Y	Y	Y	8.0
61	112107147	40	Strength of Materials	Y	Y	Y	8.0
62	112108092	40	Micro and Smart Systems	Y	Y	Y	11
63	112105187	48	Micro fluidics	Y	Y	Y	23
64	112106186	44	NOC:Foundation of Computational Fluid Dynamics	Y	Y	Y	2.4
65	112104188	48	NOC:Manufacturing Systems Technology	Y	Y	Y	7.5
66	112104189	30	NOC:Manufacturing Systems Technology - Part II	Y	Y	Y	4.5
67	112105047	43	Fundamentals of Industrial Oil Hydraulics and Pneumatics	Y	Y	Y	13
68	112105192	41	NOC:Conduction and Convection Heat Transfer	Y	Y	Y	19
69	112105197	35	NOC:Vibrations of Structures	Y	Y	Y	9.8
70	112106190	40	NOC:Introduction to Boundary Layers	Y	Y	Y	16
71	112104193	48	NOC:Basics of Finite Element Analysis	Y	Y	Y	1.7
72	112106196	48	NOC:Fundamentals of Gas Dynamics	Y	Y	Y	21
73	112104194	48	NOC:Basics of Noise and Its Measurements	Y	Y	Y	2.3
74	112104195	48	NOC:Manufacturing Process Technology - Part I	Y	Y	Y	2.3
75	112106198	32	NOC:Experimental Stress Analysis:An Overview	Y	Y	Y	4.0
76	112108201	44	NOC:Variational Methods in Mechanics	Y	Y	Y	13
77	112105206	39	NOC:Fluid Machines	Y	Y	Y	9.5

78	112104203	40	NOC:Nature and Property of Materials	Y	Y	Y	2.9
79	112104204	48	NOC:Manufacturing Process Technology - II	Y	Y	Y	3.3
80	112104205	48	NOC:Basics of Finite Element Analysis - II	Y	Y	Y	1.8
81	112107209	40	NOC:Engineering Economic Analysis	Y	Y	Y	11
82	112107208	40	NOC:Refrigeration and Air-Conditioning	Y	Y	Y	9.6
83	112107207	20	NOC:Two Phase Flow and Heat Transfer	Y	Y	Y	3.9
84	112106200	34	NOC:Fluid Dynamics and Turbomachines	Y	Y	Y	15
85	112103202	19	NOC:Advanced Machining Processes	Y	Y	Y	6.9
86	112105211	20	NOC:Computer Numerical Control (CNC) of Machine Tools and Processes	Y	Y	Y	4.5
87	112106179	44	Metrology	Y	Y	Y	29
88	112107083	40	Metal Casting	Y	Y	Y	28
89	112108212	40	NOC:Heat Transfer and Combustion in Multiphase Systems	Y	Y	Y	7.9
90	112108211	72	NOC:Compliant Mechanisms: Principles and Design	Y	Y	Y	16
91	112107212	40	NOC:Introduction to Mechanical Vibration	Y	Y	Y	11
92	112107216	40	NOC:Steam and Gas Power Systems	Y	Y	Y	9.3
93	112107215	40	NOC:Principles of Casting Technology	Y	Y	Y	11
94	112107214	40	NOC:Modelling and Simulation of Dynamic Systems	Y	Y	Y	9.4
95	112107213	60	NOC:Joining Technologies of Metals	Y	Y	Y	7.8
96	112105212	20	NOC:Non Traditional Abrasive Machining Processes - Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining	Y	Y	Y	5.4
97	112107217	20	NOC:Product Design and Development	Y	Y	Y	5.7
98	112107211	20	NOC:Convective Heat Transfer	Y	Y	Y	5.7
99	112105218	60	NOC:Introduction to Fluid Mechanics	Y	Y	Y*	17
100	112104212	72	NOC:Fundamentals of Acoustics	Y	Y	Y	3.1
101	112104211	21	NOC:Principles of Vibration Control	Y	Y	Y	1.6
102	112104219	40	NOC:Heat Treatment and Surface Hardening - II	Y	Y	Y	4.4
103	112104220	50	NOC:Phase Transformation in Materials	Y	Y	Y	3.3
104	112107219	60	NOC:Fundamentals of Manufacturing Processes	Y	Y	Y	17
105	112106222	42	NOC:Micro and Nano Scale Energy Transport	Y	Y	Y	34
106	112104221	31	NOC:Manufacturing of Composites	Y	Y	Y	2.5
107	112104222	54	NOC:Applied Ergonomics	Y	Y	Y	4.7
108	112106223	40	NOC:Electron Diffraction and Imaging	Y	Y	Y	31
109	112106225	42	NOC:Acoustic and Noise Control	Y	Y	Y	21
110	112104225	30	NOC:Sustainability through Green Manufacturing Systems: An Applied Approach	Y	Y	Y	4.4
111	112107220	40	NOC:Modelling and Simulation of Discrete Event System	Y	Y	Y	11
112	112107221	40	NOC:Processing of Polymers and Polymer Composites	Y	Y	Y	11
113	112106226	49	NOC:Steel Quality: Role of Secondary Refining and Continuous Casting	Y	Y	Y	16
114	112106227	40	NOC:X-ray Crystallography and Diffraction	Y	Y	Y	24

115	<a href="#">112104227</a>	72	NOC:Noise Management and Control	Y	Y	Y	4.0
116	<a href="#">112105219</a>	20	NOC:Spur and Helical Gear Cutting	Y	Y	Y	5.7
117	<a href="#">112105220</a>	21	NOC:Laws of Thermodynamics	Y	Y	Y	6.8
118	<a href="#">112105221</a>	68	NOC:Energy Conservation and Waste Heat Recovery	Y	Y	Y	17
119	<a href="#">112105233</a>	21	NOC:Metal Cutting and Machine Tools	Y	Y	Y	6.4
120	<a href="#">112104230</a>	50	NOC:Product Design and Manufacturing	Y	Y	Y	24
121	<a href="#">112106237</a>	33	NOC:Transport Phenomena in Materials	Y	Y	Y	11
122	<a href="#">112105234</a>	45	NOC:Gear and Gear Unit Design: Theory and Practice	Y	Y	Y	11
123	<a href="#">112105235</a>	45	NOC:Traditional and Non-Traditional Optimization Tools	Y	Y	Y	11
124	<a href="#">112104228</a>	32	NOC:Design Practice	Y	Y	Y	8.4
125	<a href="#">112105236</a>	40	NOC:Mechanism and Robot Kinematics	Y	Y	Y	12
126	<a href="#">112103244</a>	23	NOC:Advances in Welding and Joining Technologies	Y	Y	Y	12
127	<a href="#">112107240</a>	40	NOC:Automatic Control	Y	Y	Y	11
128	<a href="#">112107241</a>	40	NOC:Failure Analysis and Prevention	Y	Y	Y	11
129	<a href="#">112107242</a>	40	NOC:Mechanical Measurement System	Y	Y	Y	12
130	<a href="#">112103245</a>	27	NOC:Introduction to Machining and Machining Fluids	Y	Y	Y	9.9
131	<a href="#">112107238</a>	60	NOC:Operations Management	Y	Y	Y	4.1
132	<a href="#">112104229</a>	72	NOC:Introduction To Composites	Y	Y	Y	14
133	<a href="#">112108246</a>	60	NOC:Convective Heat Transfer (2018)	Y	Y	Y	14
134	<a href="#">112103243</a>	30	NOC:Fundamentals of Nuclear Power Generation	Y	Y	Y	6.9
135	<a href="#">112105232</a>	60	NOC:Machinery Fault Diagnosis and Signal Processing	Y	Y	Y	15
136	<a href="#">112105231</a>	63	NOC:Introduction to Mechanical Micro Machining	Y	Y	Y	16
137	<a href="#">112107239</a>	60	NOC:Theory of Production Processes	Y	Y	Y	17
138	<a href="#">112106247</a>	37	NOC:Experimental Stress Analysis: An Overview	Y	Y	Y	62
139	<a href="#">112102248</a>	15	NOC:RAC Product Design	Y	Y	Y	9.6
140	<a href="#">112103248</a>	20	NOC:Mechanics of Machining	Y	Y	Y	6.2
141	<a href="#">112103249</a>	58	NOC:Principle of Hydraulic Machines and System Design	Y	Y	---	8.4
142	<a href="#">112103250</a>	25	NOC:Introduction to Abrasive Machining and Finishing Processes	Y	Y	Y	18
143	<a href="#">112103251</a>	14	NOC:Theory of Rectangular Plates - Part I	Y	Y	Y	3.8
144	<a href="#">112104248</a>	40	NOC:Phase Equilibria in Materials-Nature and Properties of Materials-II	Y	Y	Y	7.6
145	<a href="#">112104249</a>	72	NOC:Advanced Composites	Y	Y	Y	8.4
146	<a href="#">112104250</a>	52	NOC:Engineering Metrology	Y	Y	Y	18
147	<a href="#">112104251</a>	19	NOC:Smart Materials and Intelligent System Design	Y	Y	Y	7.7
148	<a href="#">112104252</a>	37	NOC:Design Practice-II	Y	Y	Y	7.0
149	<a href="#">112105248</a>	66	NOC:Heat Exchangers: Fundamentals and Design Analysis	Y	Y	Y	18
150	<a href="#">112105249</a>	45	NOC:Robotics	Y	Y	Y	11
151	<a href="#">112106248</a>	50	NOC:Mechanics of Human Movement	Y	Y	Y	53
152	<a href="#">112106249</a>	41	NOC:Design for Quality, Manufacturing and Assembly	Y	Y	Y	35

153	112106250	19	NOC:Surrogates and Approximations in Engineering Design	Y	Y	Y	14
154	112107248	60	NOC:Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	Y	Y	Y	8.5
155	112107249	60	NOC:Work System Design	Y	Y	Y	19
156	112107250	40	NOC:Principles of Metal Forming Technology	Y	Y	Y	7.8
157	112102255	54	NOC:Thermodynamics	Y	Y	Y	32
158	112103261	33	NOC:Principles of Mechanical Measurement	Y	Y	Y	16
159	112103262	50	NOC:IC Engines and Gas Turbines	Y	Y	Y	21
160	112103263	24	NOC:Fundamental of Welding Science and Technology	Y	Y	Y	13
161	112103264	15	NOC:Polymer Assisted Abrasive Finishing Processes	Y	Y	Y	11
162	112104265	44	NOC:Rapid Manufacturing	Y	Y	Y	27
163	112105266	68	NOC:Concepts of Thermodynamics	Y	Y	Y	19
164	112105267	40	NOC:Electronic Packaging and Manufacturing	Y	Y	Y	10
165	112105268	40	NOC:Kinematics of Mechanisms and Machines	Y	Y	Y	11
166	112107256	40	NOC:Radiative Heat Transfer	Y	Y	Y	7.3
167	112107257	40	NOC:Weldability of Metals	Y	Y	Y	5.3
168	112107258	40	NOC:Manufacturing Guidelines for Product Design	Y	Y	Y	13
169	112107259	20	NOC:Inspection and Quality Control in Manufacturing	Y	Y	Y	4.5
170	112107260	60	NOC:Financial Mathematics	Y	Y	Y	9.7
171	112105269	60	NOC:Introduction to Fluid Mechanics (2019)	Y	Y	Y	16
172	112106270	37	Theory of Mechanism	Y	Y	---	90
173	112102284	32	NOC:Solid Mechanics	Y	Y	Y	26
174	112103273	38	NOC:Mathematical Modeling of Manufacturing Processes	Y	Y	Y	25
175	112103274	8	NOC:Two-Phase flow with phase change in conventional and miniature channels	Y	Y	Y	5.0
176	112103275	36	NOC:Applied Thermodynamics For Engineers	Y	Y	Y	27
177	112103276	33	NOC:Fundamentals of Conduction and Radiation	Y	Y	Y	22
178	112103277	33	NOC:Steam Power Engineering	Y	Y	Y	8.5
179	112103278	45	NOC:Dynamic Behaviour of Materials	Y	Y	Y	14
180	112103279	36	NOC:Plastic Working of Metallic Materials	---	Y	Y	9.9
181	112103280	34	NOC:Fundamentals of Artificial Intelligence	Y	Y	Y	17
182	112103281	42	NOC:Aircraft Propulsion	Y	Y	Y	12
183	112104272	60	NOC:Turbulent Combustion: Theory and Modelling	Y	Y	Y	26
184	112104288	20	NOC:Manufacturing Automation	Y	Y	Y	8.4
185	112105287	59	NOC:Advanced Concepts in Fluid Mechanics	Y	Y	Y	28
186	112106286	37	NOC:Engineering Mechanics	Y	Y	Y	127
187	112107282	20	NOC:Product Design Using Value Engineering	Y	Y	Y	9.1
188	112107283	20	NOC:Selection of Nanomaterials for Energy Harvesting and Storage Application	Y	Y	Y	4.8

189	<a href="#">112108285</a>	25	NOC:A Short Lecture Series on Contour Integration in the Complex Plane	Y	Y	Y	3.5
190	<a href="#">112105254</a>	60	NOC:Computational Fluid Dynamics	---	Y	---	5.9
191	<a href="#">112105271</a>	65	NOC:Conduction and Convection Heat Transfer	Y	Y	---	11
192	<a href="#">112106253</a>	55	NOC: Steel Quality: Role of Secondary Refining and Continuous Casting	---	Y	Y	4.9
193	<a href="#">112107290</a>	39	NOC:Acoustic Metamaterials	Y	Y	Y	6.8
194	<a href="#">112103289</a>	37	NOC:Computational Fluid Dynamics for Incompressible Flows	Y	Y	Y	22
195	<a href="#">112104289</a>	50	NOC:Computer Integrated Manufacturing	Y	Y	Y	40
196	<a href="#">112103290</a>	43	NOC:Experimental Methods in Fluid Mechanics	Y	Y	Y	14
197	<a href="#">112106289</a>	34	NOC:Foundations of Computational Materials Modelling	Y	Y	Y	29
198	<a href="#">112106290</a>	33	NOC:Fundamentals of Combustion for Propulsion	Y	Y	Y	26
199	<a href="#">112108289</a>	43	NOC:Introduction to Soft Matter	Y	Y	Y	5.2
200	<a href="#">112104290</a>	20	NOC:Machining Science	Y	Y	Y	9.4
201	<a href="#">112107291</a>	40	NOC:Power Plant Engineering	Y	Y	Y	3.9
202	<a href="#">112107292</a>	60	NOC:Principles of Industrial Engineering	Y	Y	Y	5.8
203	<a href="#">112107289</a>	40	NOC:Robotics and Control: Theory and Practice	Y	Y	Y	3.4
204	<a href="#">112103293</a>	38	NOC:Automation in Manufacturing	Y	Y	Y	8.4
205	<a href="#">112106293</a>	66	NOC:Basics of Materials Engineering	Y	Y	Y	11
206	<a href="#">112103296</a>	40	NOC:Computational Continuum Mechanics	Y	Y	Y	6.6
207	<a href="#">112106294</a>	42	NOC:Computational Fluid Dynamics using Finite Volume Method	Y	Y	Y	7.7
208	<a href="#">112105294</a>	65	NOC:Engineering Drawing and Computer Graphics	Y	Y	Y	17
209	<a href="#">112103295</a>	35	NOC:Finite Element Method: Variational Methods to Computer Programming	---	Y	---	5.5
210	<a href="#">112104293</a>	14	NOC:Foundations of Cognitive Robotics	Y	Y	Y	7.6
211	<a href="#">112103294</a>	31	NOC:Fundamentals of Compressible Flow	Y	Y	Y*	4.5
212	<a href="#">112103297</a>	43	NOC:Fundamentals of Convective Heat Transfer	Y	Y	Y	8.8
213	<a href="#">112105293</a>	40	NOC:High Performance Computing for Scientists and Engineers	Y	Y	Y	24
214	<a href="#">112101298</a>	67	NOC:Optimization from Fundamentals	Y	Y	---	5.4
215	<a href="#">112102298</a>	29	NOC:Introduction to Uncertainty Analysis and Experimentation	Y	Y	---	5.0
216	<a href="#">112103298</a>	28	NOC:Theory of Composite Shells	Y	Y	Y	3.1
217	<a href="#">112103299</a>	40	NOC:Finite Element Modeling of Welding Processes	Y	Y	---	7.6
218	<a href="#">112103300</a>	36	NOC:Nonlinear Vibration	Y	Y	---	4.7
219	<a href="#">112103301</a>	26	NOC:Evolutionary Computation for Single and Multi Objective Optimization	Y	Y	Y	4.7
220	<a href="#">112103302</a>	44	NOC:Viscous Fluid Flow	Y	Y	---	5.3
221	<a href="#">112104298</a>	28	NOC:Introduction to Robotics	---	Y	---	2.9
222	<a href="#">112104299</a>	47	NOC:Muffler Acoustics - Application to Automotive Exhaust Noise Control	Y	Y	Y	5.9
223	<a href="#">112104300</a>	35	NOC:Elements of Solar Energy Conversion	Y	Y	Y	9.5
224	<a href="#">112104301</a>	20	NOC:Manufacturing Processes - Casting and Joining	Y	Y	Y	3.2
225	<a href="#">112104302</a>	26	NOC:Computational Fluid Dynamics and Heat Transfer	---	Y	---	3.7



226	<a href="#">112105299</a>	43	NOC:Tools in Scientific Computing	Y	Y	---	6.7
227	<a href="#">112106298</a>	46	NOC:Wheeled Mobile Robots	Y	Y	Y	3.7
228	<a href="#">112106299</a>	61	NOC:Fundamentals of Combustion	Y	Y	Y	11
229	<a href="#">112106300</a>	96	NOC:Oil Hydraulics and Pneumatics	Y	Y	---	7.9
230	<a href="#">112107298</a>	40	NOC:Mechatronics	Y	Y	Y	5.9
231	<a href="#">112108298</a>	42	NOC:Robotics: Basics and Selected Advanced Concepts	Y	Y	Y	3.7
232	<a href="#">112106303</a>	21	Introduction to Turbomachines	---	Y	---	0.7
233	<a href="#">112101304</a>	48	NOC:Design of Mechatronic Systems	Y	Y	Y	4.6
234	<a href="#">112102304</a>	50	NOC:Engineering Graphics and Design	Y	Y	Y	5.5
235	<a href="#">112103305</a>	27	NOC:Welding Application Technology	---	Y	---	4.2
236	<a href="#">112103306</a>	33	NOC:Fundamentals of Additive Manufacturing Technologies	---	Y	---	6.0
237	<a href="#">112103307</a>	44	NOC:Applied Thermodynamics	Y	Y	Y	6.1
238	<a href="#">112104304</a>	33	NOC:Production Technology: Theory and Practice	Y	Y	Y	13
239	<a href="#">112104305</a>	50	NOC:Introduction to Turbomachinery	---	Y	---	3.8
240	<a href="#">112105304</a>	60	NOC:Advanced Dynamics	Y	Y	Y	4.6
241	<a href="#">112105305</a>	44	NOC:Biomechanics of Joints and Orthopaedic Implants	Y	Y	Y	4.5
242	<a href="#">112105306</a>	60	NOC:Elements of Metal Cutting, Machine tools, Gear Cutting and CNC Machining	Y	Y	Y	4.1
243	<a href="#">112106304</a>	45	NOC:Mechanics and Control of Robotic Manipulators	Y	Y	Y	4.3
244	<a href="#">112103308</a>	32	NOC:Mechanics of Fiber Reinforced Polymer Composite Structures	Y	Y	---	4.1
245	<a href="#">112104308</a>	20	NOC:Robot Motion Planning	Y	Y	Y	2.2
246	<a href="#">112105308</a>	60	NOC:Finite Element Method	---	Y	---	6.7
247	<a href="#">112108308</a>	60	NOC:Sound and Structural Vibration	Y	Y	Y	3.9
248	<a href="#">112106309</a>	37	Inverse Methods in Heat Transfer	---	Y	---	11
249	<a href="#">112106310</a>	38	Engineering Thermodynamics (2022)	---	Y	---	3.8
250	<a href="#">112106311</a>	9	Applied Mechanics - Fluid Mechanics Laboratory	---	Y	---	0.7
251	<a href="#">112101312</a>	71	NOC:Nonlinear Adaptive Control	---	Y	Y	9.3
252	<a href="#">112103312</a>	26	NOC:Laser Based Manufacturing	---	Y	---	3.0
253	<a href="#">112103313</a>	32	NOC:Advanced Thermodynamics and Combustion	Y	Y	Y	4.3
254	<a href="#">112104312</a>	47	NOC:Metal Additive Manufacturing	Y	Y	Y	5.8
255	<a href="#">112104313</a>	39	NOC:Conduction and Convection: Fundamentals and Applications	---	Y	---	4.2
256	<a href="#">112106312</a>	53	NOC:Interfacial Fluid Mechanics	---	Y	---	3.8
257	<a href="#">112106314</a>	45	Applied Thermodynamics	---	Y	---	5.3
258	<a href="#">112108312</a>	60	NOC:Vibrations of Plates and Shells	---	Y	---	4.5
259	<a href="#">112108313</a>	32	NOC:Dynamics and Control of Mechanical Systems	Y	Y	Y	3.5
260	<a href="#">112102316</a>	15	NOC:Ideal Fluid Flows using Complex Analysis	Y	Y	Y	1.3
261	<a href="#">112103316</a>	66	NOC:Thermal Engineering: Basic and Applied	---	Y	---	12
262	<a href="#">112104316</a>	30	NOC:Advanced Robotics	---	Y	---	3.2
263	<a href="#">112105316</a>	40	NOC:Product Engineering and Design Thinking	Y	Y	Y	4.7

264	112106316	67	NOC:Inverse Methods in Heat Transfer	Y	Y	---	4.7
265	112108316	43	NOC:Optical Methods for Solid and Fluid Mechanics	Y	Y	---	3.8
266	112108317	59	NOC:Statistical Thermodynamics for Engineers	Y	Y	Y	3.6
267	112102318	40	NOC:Experimental Modal Analysis	---	Y	---	5.6
268	112102319	53	NOC:Mechanical Behavior of Polymers and Composites	---	Y	---	5.0
269	112104318	127	NOC:Applied Numerical Methods	---	Y	---	4.0
270	112104319	52	NOC:Social Innovation in Industry 4.0	Y	Y	Y	6.2
271	112105318	68	NOC:Microfluidics and Nanofluidics	---	Y	---	19
272	112105319	50	NOC:Industrial Robotics: Theories for Implementation	Y	Y	Y	6.3
273	112106318	89	NOC:Sustainable Energy Technology	---	Y	---	8.0
274	112106319	39	NOC:Strength of Materials - IITM	Y	Y	Y	9.9
275	112106320	70	NOC:Engineering Thermodynamics	---	Y	---	7.9
276	112106321	61	NOC:Theory of Fire Propagation (Fire Dynamics)	Y	Y	Y	8.5
277	112101429	73	NOC:Nonlinear Control Design	Y	Y	---	6.0
278	112102428	36	NOC:Data-Enabled Tribological Engineering: From Experiments to Predictive Models	---	Y	---	12
279	112103420	21	NOC:Mechanics of Sheet Metal Forming	Y	Y	Y	3.2
280	112103421	34	NOC:Power Plant System Engineering	Y	Y	Y	4.6
281	112103427	23	NOC:Introduction to Solidification Processing	---	Y	---	3.4
282	112104418	55	NOC:Engineering Thermodynamics in Hindi	Y	Y	Y	4.7
283	112104425	33	NOC:Advanced Machining Processes (2024)	Y	Y	Y	5.5
284	112105422	40	NOC:Cryogenic Hydrogen Technology	Y	Y	Y	3.1
285	112105423	60	NOC:Industrial Hydraulics and Automation	---	Y	---	5.5
286	112106419	72	NOC:Applied Thermodynamics (2024)	---	Y	---	8.2
287	112106424	34	NOC:Design of Mechanical Transmission Systems	Y	Y	Y	5.4
288	112106315	41	Heat Transfer (Dr. C. Balaji)	---	Y	---	6.4
289	112104197	96	Manufacturing Systems Technology - I and II	---	Y	Y	15
290	112106322	5	Data-Driven Models for Unsteady Fluid Flow	---	Y	Y	1.2
291	112103528	50	NOC:Materials Processing (Casting, Forming and Welding)	---	Y	---	11
292	112104526	50	NOC:Basics of Mechanical Engineering - 1	---	Y	---	7.3
293	112106453	74	NOC:Turbulence Modeling	Y	Y	---	7.6
294	112107539	60	NOC:Mechanics	---	Y	---	6.4
295	112108527	61	NOC:Fundamentals of Acoustics (2024)	---	Y	---	5.6
296	112101623	---	NOC:Navigating the Latest Trends in Additive Manufacturing Landscape	---	---	---	---
297	112103617	---	NOC:Engine System and Performance	---	---	---	---
298	112103618	---	NOC:Fundamentals of Thermo-Mechanical and Fatigue Analysis of Welded Structure	---	---	---	---
299	112104616	---	NOC:Basics of Mechanical Engineering - II	---	---	---	---

300	<a href="#">112104620</a>	---	NOC:Advanced Robotics Applications	---	---	---	---
301	<a href="#">112105621</a>	---	NOC:COBOTS: Theory and Practice	---	---	---	---
302	<a href="#">112106622</a>	---	NOC:Manufacturing of Turbines (Gas, Steam, Hydro and Wind)	---	---	---	---
303	<a href="#">112107619</a>	---	NOC:Noise Control in Mechanical Systems	---	---	---	---
304	<a href="#">112108615</a>	---	NOC:Advanced Measurement Techniques in Fluid Mechanics and Heat Transfer	---	---	---	---

**Discipline : Metallurgy and Material Science**

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

31	113107075	40	NOC:Surface Engineering of Nanomaterials	Y	Y	Y	11
32	113106075	35	NOC:Defects in Materials	Y	Y	Y	27
33	113104075	41	NOC:Fundamentals of Material Processing - Part 2	Y	Y	Y	4.1
34	113108079	39	NOC:Iron Making	Y	Y	Y	11
35	113102080	147	NOC:Introduction to Materials Science and Engineering	Y	Y	Y	36
36	113107078	40	NOC:Material Science and Engineering	Y	Y	Y	9.2
37	113105077	47	NOC:Principles of Polymer Synthesis	Y	Y	Y	14
38	113104076	40	NOC:Nature and Properties Of Materials - An Introductory Course	Y	Y	Y	10
39	113104081	40	NOC:Defects in Crystalline Solids - Part I	Y	Y	Y	16
40	113104082	41	NOC:Corrosion - Part I	Y	Y	Y	5.9
41	113105081	60	NOC:Advanced Materials and Processes	Y	Y	Y	17
42	113106081	19	NOC:Elementary Stereology for Quantitative Metallography	Y	Y	Y	24
43	113106082	20	NOC:Welding of Advanced High Strength Steels for Automotive Applications	Y	Y	Y	18
44	113107081	20	NOC:Structural Analysis of Nanomaterials	Y	Y	Y	5.6
45	113104084	41	NOC:Solar Photovoltaics: Principles, Technologies and Material	Y	Y	Y	16
46	113104085	17	NOC:Defects in Crystalline Solids - Part II	Y	Y	Y	9.2
47	113105086	60	NOC:Surface Engineering for Corrosion and Wear Resistance Application	Y	Y	Y	17
48	113106087	59	NOC:Welding Processes	Y	Y	Y	66
49	113106088	24	NOC:Creep Deformation of Materials	Y	Y	Y	27
50	113108083	40	NOC:Friction and Wear of Materials: Principles and Case Studies	Y	Y	Y	6.7
51	113104089	41	NOC:Corrosion - Part II	Y	Y	Y	11
52	113104090	40	NOC:Fundamentals and Applications of Dielectric Ceramics	Y	Y	Y	13
53	113106093	25	NOC:Nanotechnology, Science and Applications	Y	Y	Y	54
54	113107091	40	NOC:Thermo-Mechanical and Thermo-Chemical Processes	Y	Y	Y	7.5
55	113107092	60	NOC:Welding Metallurgy	Y	Y	Y	8.3
56	113101096	99	NOC:Dealing with Materials Data:Collection, Analysis and Interpretation	Y	Y	Y	46
57	113104097	51	NOC:Diffusion in Multicomponent Solids (2020.S1)	Y	Y	Y	30
58	113107096	40	NOC:Modeling of Tundish Steelmaking Process in Continuous Casting	Y	Y	Y	5.2
59	113104096	40	NOC:Properties of Materials (Nature and Properties of Materials-III)	Y	Y	Y	9.7
60	113106069	27	NOC:Fundamentals of X-ray Diffraction and Transmission Electron Microscopy	Y	Y	Y	9.2
61	113101098	34	NOC:Aqueous Corrosion and its Control	Y	Y	Y	27
62	113105098	60	NOC:Ironmaking and Steelmaking	Y	Y	Y	33
63	113106098	60	NOC:Powder Metallurgy	Y	Y	Y	4.7
64	113101099	14	NOC:Cathodic Protection Engineering	Y	Y	Y	2.3
65	113105099	60	NOC:Non-Metallic Materials	Y	Y	Y	6.0
66	113105100	43	NOC:Scanning Electron/Ion/Probe Microscopy in Materials Characterization	---	Y	---	4.9
67	113106099	59	NOC:Carbon Materials and Manufacturing	Y	Y	Y	6.1
68	113104101	42	NOC:Corrosion Failures and Analysis	Y	Y	---	4.2

69	113104102	29	NOC:Nanomaterials and their Properties	Y	Y	Y	2.8
70	113105101	60	NOC:Techniques of Material Characterization	Y	Y	Y	9.0
71	113105102	60	NOC:Electrochemical Energy Storage	Y	Y	Y	6.3
72	113105103	56	NOC:Texture in Materials	Y	Y	Y	9.9
73	113106101	64	NOC:Mechanical Behavior of Materials	Y	Y	Y	4.2
74	113104104	45	NOC:Mechanical Behaviour of Materials - Part I	---	Y	Y	3.4
75	113105104	60	NOC:Bulk Material Transport and Handling Systems	Y	Y	---	11
76	113104105	27	NOC:Mechanical Behaviour of Materials - Part II	---	Y	Y	2.4
77	113104106	39	NOC:Electronic Properties of the Materials: Computational Approach	---	Y	---	2.4
78	113105105	60	NOC:Environmental Degradation and Surface Engineering	---	Y	---	9.0
79	113105106	60	NOC:Fracture, Fatigue and Failure of Materials	Y	Y	---	5.8
80	113105107	60	NOC:Mine Closure and Sustainability Planning	---	Y	---	11
81	113106105	60	NOC:Aluminium based Alloys and Metal Matrix Composites	---	Y	---	3.1
82	113106106	26	NOC:Welding Science and Technology (In Tamil)	---	Y	---	2.9
83	113102108	93	NOC:Crystals, Symmetry and Tensors	Y	Y	---	5.6
84	113104108	41	NOC:Corrosion Protection Methods	---	Y	---	4.6
85	113102109	35	NOC:Corrosion/Environmental Degradation/Surface Engineering	---	Y	---	9.6
86	113105109	60	NOC:Fundamentals of Composite and Cellular Materials	---	Y	---	5.9
87	113106109	38	NOC:Thermodynamics and Kinetics of Materials	---	Y	---	7.8
88	113105441	60	NOC:Principles of Extractive Metallurgy	---	Y	---	9.7
89	113104516	45	NOC:Phase Diagrams in Single Component and Binary Systems in Bengali	---	Y	---	7.0
90	113104517	78	NOC:Artificial Intelligence and Machine Learning in Materials Engineering	---	Y	---	10
91	113104529	41	NOC:Metallurgical and Electronic Waste Recycling	Y	Y	---	6.4
92	113108515	56	NOC:Materials Design for Electronic, Electromechanical and Optical Functions	---	Y	---	16
93	113104634	---	NOC:Crystal Symmetry, X-Ray Diffraction and Physical Properties	---	---	---	---
94	113104636	---	NOC:Mechanical Behavior of Materials (Hindi)	---	---	---	---
95	113105633	---	NOC:Clean Coal Technology	---	---	---	---
96	113106635	---	NOC:Diffusion in Solids	---	---	---	---
97	113108631	---	NOC:Advanced Manufacturing and Process Modelling	---	---	---	---
98	113108632	---	NOC:Advances in Additive Manufacturing of Materials: Current Status and Emerging Opportunities	---	---	---	---
<b>Discipline : Ocean Engineering</b>							
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1	114105002	49	Elements of Ocean Engineering	Y	Y	Y	12
2	114105003	40	Hydrostatics and Stability	Y	Y	Y	19
3	114105004	41	Marine Construction and Welding	Y	Y	Y	8.6

4	114105005	40	Marine Hydrodynamics	Y	Y	Y	12
5	114105006	40	Seakeeping and Manoeuvring	Y	Y	Y	8.6
6	114105029	27	Applied Thermodynamics for Marine Systems	Y	Y	Y	5.6
7	114105030	40	Performance of Marine Vehicles at Sea	Y	Y	Y	11
8	114105031	36	Strength and Vibration of Marine Structures	Y	Y	Y	5.2
9	114106011	42	Design of Offshore Structures	Y	Y	Y	16
10	114106015	33	Foundation for Offshore Structures	Y	Y	Y	11
11	114106017	35	Health,Safety and Environmental Management in Petroleum and Offshore Engineering	Y	Y	Y	8.0
12	114106025	48	Port and Harbour Structures	Y	Y	Y	30
13	114106026	17	Ship Resistance and Propulsion	Y	Y	Y	6.6
14	114106032	37	Coastal Engineering	Y	Y	Y	14
15	114106033	25	Wave Hydrodynamics	Y	Y	Y	9.8
16	114106035	38	Ocean Structures and Materials	Y	Y	Y	12
17	114106036	49	Dynamics of Ocean Structures	Y	Y	Y	20
18	114106037	53	Advanced Marine Structures	Y	Y	Y	21
19	114106038	47	NOC:Dynamics of Ocean Structures	Y	Y	Y	23
20	114106039	37	NOC:Health, Safety and Environmental Management in Offshore and Petroleum Engineering	Y	Y	Y	8.1
21	114106042	55	NOC:HSE for offshore and petroleum engineers	Y	Y	Y	24
22	114106041	58	NOC:Risk and Reliability of offshore structures	Y	Y	Y	25
23	114106043	53	NOC:Offshore Structures Under Special Loads Including Fire Resistance	Y	Y	Y	33
24	114106045	118	NOC:Computer Methods Of Structural Analysis of Offshore Structures	Y	Y	Y	103
25	114105044	65	NOC:Water Economics and Governance	Y	Y	Y	16
26	114106046	84	NOC:Structural Health Monitoring	Y	Y	Y	67
27	114105047	40	NOC:Marine Propulsion	Y	Y	Y	3.2
28	114105048	60	NOC:Numerical Ship and Offshore Hydrodynamics	Y	Y	Y	4.7
29	114106047	64	NOC:Advanced Design of Steel Structures	Y	Y	Y	7.3
30	114106443	73	NOC:Surface Facilities for Oil and Gas Handling	Y	Y	---	6.9
31	114106049	7	Marine Instrumentation - Laboratory	---	Y	---	1.3
32	114106534	80	NOC:Marine Engineering	---	Y	---	15
33	114105638	---	NOC:Seakeeping of Ships and Offshore Structures	---	---	---	---

**Discipline : Physics**

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1	115101005	40	Electromagnetic Theory (Prof. D.K. Ghosh)	Y	Y	Y	29
2	115101011	24	Special Theory of Relativity	Y	Y	Y	22
3	115102014	42	Electronics	Y	Y	Y	19
4	115102020	42	Fundamentals and Applications	Y	Y	Y	19

5	<a href="#">115102022</a>	42	Quantum Electronics	Y	Y	Y	17
6	<a href="#">115102023</a>	42	Quantum Mechanics and Applications	Y	Y	Y	19
7	<a href="#">115102026</a>	46	Semiconductor Optoelectronics	Y	Y	Y	32
8	<a href="#">115104043</a>	43	Nuclear Physics: Fundamentals and Applications	Y	Y	Y	12
9	<a href="#">115104088</a>	78	NOC:Introduction to Electromagnetism	Y	Y	Y	2.1
10	<a href="#">115105046</a>	40	Astrophysics and Cosmology	Y	Y	Y	9.7
11	<a href="#">115106057</a>	40	Special / Select Topics in Atomic Physics	Y	Y	Y	16
12	<a href="#">115106058</a>	39	Classical Field Theory	Y	Y	Y	17
13	<a href="#">115106059</a>	29	Topics in Nonlinear Dynamics	Y	Y	Y	15
14	<a href="#">115106061</a>	58	Condensed Matter Physics	Y	Y	Y	18
15	<a href="#">115106065</a>	38	Quantum Field Theory	Y	Y	Y	27
16	<a href="#">115106066</a>	41	Quantum Mechanics I	Y	Y	Y	20
17	<a href="#">115106068</a>	40	Special / Select Topics in Classical Mechanics	Y	Y	Y	13
18	<a href="#">115106085</a>	46	Special / Select Topics in the Theory of Atomic Collisions and Spectroscopy	Y	Y	Y	14
19	<a href="#">115106086</a>	36	Selected Topics in Mathematical Physics	Y	Y	Y	24
20	<a href="#">115106090</a>	43	NOC: Mechanics, heat oscillations and waves	Y	Y	Y	12
21	<a href="#">115108074</a>	45	Relativistic Quantum Mechanics	Y	Y	Y	26
22	<a href="#">115106087</a>	30	Nuclear Reactors and Safety- An Introduction	Y	Y	Y	16
23	<a href="#">115106089</a>	29	Physical Applications of Stochastic Processes	Y	Y	Y	27
24	<a href="#">115106091</a>	36	Nonequilibrium Statistical Mechanics	Y	Y	Y	32
25	<a href="#">115104094</a>	100	NOC:Engineering Mechanics	Y	Y	Y	3.8
26	<a href="#">115101092</a>	46	NOC:Quantum Information and Computing	Y	Y	Y	19
27	<a href="#">115107095</a>	40	NOC:Fiber Optics	Y	Y	Y	11
28	<a href="#">115104095</a>	23	NOC:Computational Science and Engineering Using Python	Y	Y	Y	2.2
29	<a href="#">115104096</a>	55	NOC:Introductory Quantum Mechanics	Y	Y	Y	2.3
30	<a href="#">115105097</a>	60	NOC:Mathematical Methods in Physics - I	Y	Y	Y	17
31	<a href="#">115105098</a>	60	NOC:Classical Mechanics: from Newtonian to Lagrangian Formulation	Y	Y	Y	16
32	<a href="#">115105099</a>	75	NOC:Solid State Physics	Y	Y	Y	25
33	<a href="#">115103102</a>	25	NOC:Advanced Condensed Matter Physics	Y	Y	Y	2.6
34	<a href="#">115105100</a>	60	NOC:Atomic and Molecular Physics	Y	Y	Y	18
35	<a href="#">115103101</a>	44	NOC:Nuclear and Particle Physics	Y	Y	Y	8.7
36	<a href="#">115102103</a>	45	Semiconductor Optoelectronics (Repurposed)	Y	Y	Y	36
37	<a href="#">115101104</a>	48	NOC:Theory of Groups for Physics Applications	Y	Y	Y	39
38	<a href="#">115103104</a>	33	NOC:Advanced Quantum Mechanics with Applications	Y	Y	Y	7.1
39	<a href="#">115105104</a>	59	NOC:Modern Optics	Y	Y	Y	15
40	<a href="#">115105105</a>	60	NOC:Introduction to Non-linear Optics and its Applications	Y	Y	Y	16
41	<a href="#">115105106</a>	86	NOC:Upstream LNG Technology	Y	Y	Y	16
42	<a href="#">115108104</a>	50	NOC:Control System Design	Y	Y	Y	14

43	115101107	71	NOC:Quantum Mechanics-I	Y	Y	Y	41
44	115103108	17	NOC:A Brief Course on Superconductivity	Y	Y	Y	5.9
45	115104109	87	NOC:Introduction to Solid State Physics	Y	Y	Y*	17
46	115105110	60	NOC:Experimental Physics-I	Y	Y	Y	31
47	115106111	35	NOC:Statistical Mechanics	Y	Y	Y*	106
48	115101117	32	NOC:Path Integral and Functional Methods in Quantum Field Theory	Y	Y	Y	37
49	115103113	32	NOC:Introduction to Statistical Mechanics	Y	Y	Y	14
50	115103114	24	NOC:Numerical Methods and Simulation Techniques for Scientists and Engineers	Y	Y	Y	19
51	115103115	27	NOC:Theoretical Mechanics	Y	Y	Y	4.3
52	115104112	44	NOC:Physics of Turbulence	Y	Y	Y	20
53	115105120	61	NOC:Experimental Physics - II	Y	Y	Y	31
54	115106118	58	NOC:Computational Physics	Y	Y	Y	42
55	115106119	58	NOC:Waves and Oscillations	Y	Y	Y	33
56	115107116	40	NOC:Solar Photovoltaics Fundamentals, Technology and Applications	Y	Y	Y	6.1
57	115106122	83	NOC:Electromagnetism	Y	Y	Y	16
58	115105122	60	NOC:Electronic Theory of Solids	Y	Y	Y	12
59	115105121	62	NOC:Experimental Physics - III	Y	Y	Y	27
60	115101122	59	NOC:Group Theory Methods in Physics	Y	Y	Y	50
61	115107121	60	NOC:Introduction to Atmospheric and Space Sciences	Y	Y	Y	6.9
62	115107122	20	NOC:Optical Sensors	Y	Y	Y	3.0
63	115101121	62	NOC:Physics of Biological Systems	Y	Y	Y	40
64	115106121	50	NOC:Physics through Computational Thinking	Y	Y	Y	26
65	115106123	67	NOC:Introduction to Classical Mechanics	Y	Y	Y	20
66	115103123	34	NOC:Solar Energy Engineering and Technology	Y	Y	Y	5.1
67	115102124	38	NOC:Introduction to LASER	Y	Y	---	5.6
68	115104124	57	NOC:Introduction to Astrophysical Fluids	Y	Y	Y	6.7
69	115105124	60	NOC:Physics of Linear and Nonlinear Optical Waveguides	Y	Y	---	5.3
70	115106124	64	NOC:Fluid Dynamics for Astrophysics	Y	Y	---	5.5
71	115106125	33	NOC:Quantum Transport	---	Y	---	3.6
72	115106126	65	NOC:Statistical Mechanics (2021)	Y	Y	---	4.5
73	115105127	51	NOC:Physics of Renewable Energy Systems	Y	Y	Y	7.2
74	115106127	70	NOC:Solid State Physics	Y	Y	Y	3.2
75	115106128	51	NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields)	Y	Y	Y	3.1
76	115108127	60	NOC:Bonds and Bands in Solids	---	Y	---	5.0
77	115103129	44	NOC:Quantum Technology and Quantum Phenomena in Macroscopic Systems	Y	Y	Y	3.9
78	115105129	60	NOC:Thermal Physics	---	Y	---	7.6



79	<a href="#">115107129</a>	60	NOC:Advanced Atmospheric Physics	---	Y	---	5.4
80	<a href="#">115107130</a>	40	NOC:Nuclear Astrophysics	Y	Y	Y	5.5
81	<a href="#">115108129</a>	60	NOC:Advanced NMR Techniques in Solution and Solid-State	Y	Y	Y	11
82	<a href="#">115101131</a>	69	NOC:Neutron Scattering for Condensed Matter Studies	---	Y	---	4.6
83	<a href="#">115101132</a>	72	NOC:Accelerator Physics	---	Y	---	5.7
84	<a href="#">115103131</a>	48	NOC:Dynamics of Classical and Quantum Fields	Y	Y	Y	5.1
85	<a href="#">115105131</a>	40	NOC:Concepts in Magnetism and Superconductivity	---	Y	---	3.4
86	<a href="#">115105132</a>	73	NOC:Foundations of Classical Electrodynamics	Y	Y	Y	5.4
87	<a href="#">115107131</a>	60	NOC:Applied Optics	Y	Y	Y	5.7
88	<a href="#">115106133</a>	39	NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields) - Part 2	Y	Y	---	2.7
89	<a href="#">115103134</a>	22	NOC:Quantum Hall Effects	Y	Y	Y	3.0
90	<a href="#">115104134</a>	53	NOC:Introduction to Electromagnetic Theory (Hindi)	---	Y	---	3.8
91	<a href="#">115104135</a>	71	NOC:Scientific Computing Using Python	---	Y	Y	1.8
92	<a href="#">115105134</a>	50	NOC:Physics of Functional Materials and Devices	---	Y	---	5.9
93	<a href="#">115106134</a>	34	NOC:Radio Astronomy	---	Y	---	5.3
94	<a href="#">115107134</a>	44	NOC:Newtonian Mechanics With Examples	Y	Y	Y	4.9
95	<a href="#">115103444</a>	17	NOC:Quantum Entanglement: Fundamentals, Measures and Applications	Y	Y	Y	1.5
96	<a href="#">115103445</a>	28	NOC:Topology and Condensed Matter Physics	Y	Y	Y	3.6
97	<a href="#">115104446</a>	73	NOC:Tapestry of Field theory: Classical and Quantum, Equilibrium and Nonequilibrium Perspectives	Y	Y	Y	3.1
98	<a href="#">115104448</a>	27	NOC:Coherence and Quantum Entanglement	---	Y	---	1.6
99	<a href="#">115107447</a>	62	NOC:Plasma Physics and Applications	Y	Y	Y	4.7
100	<a href="#">115105451</a>	77	NOC:Fundamentals of Attosecond Science and Technology (FAST)	---	Y	---	7.6
101	<a href="#">115103538</a>	30	NOC:Statistical Physics of Non-Interacting and Interacting Systems	---	Y	---	6.3
102	<a href="#">115104535</a>	58	NOC:Classical Motion of a Single Particle	---	Y	---	8.7
103	<a href="#">115105537</a>	66	NOC:Wave Optics	---	Y	---	7.8
104	<a href="#">115106536</a>	34	NOC:Foundations of Quantum Theory: Non-Relativistic Approach	---	Y	---	6.1
105	<a href="#">115101639</a>	---	NOC:An Introduction to Lasers and Laser Systems	---	---	---	---
106	<a href="#">115101643</a>	---	NOC:The Science of Light Amplification: An Extensive Laser course	---	---	---	---
107	<a href="#">115103640</a>	---	NOC:Elements of Modern Physics	---	---	---	---
108	<a href="#">115106641</a>	---	NOC:Foundations of Quantum Theory: Relativistic Approach	---	---	---	---
109	<a href="#">115108642</a>	---	NOC:Particle Physics and the Standard Model	---	---	---	---

**Discipline : Textile Engineering**

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Video Lecture Topics @ <http://www.digmat.in/downloads/topics/textile-engineering.pdf>

1	<a href="#">116102034</a>	20	Theory of Yarn Structures	Y	Y	Y	15
2	<a href="#">116104044</a>	40	Natural Dyes	Y	Y	Y	12
3	<a href="#">116102047</a>	40	NOC:Science of Clothing Comfort	Y	Y	Y	28

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

**Discipline : Electronics and Communication Engineering**

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**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/electronics-and-communication-engineering.pdf>**

1	<a href="#">117101001</a>	50	Adv. Digital Signal Processing - Multirate and wavelets	Y	Y	Y	28
2	<a href="#">117101002</a>	41	Advanced Optical Communication	Y	Y	Y	24
3	<a href="#">117101050</a>	32	Broadband Networks: Concepts and Technology	Y	Y	Y	7.7
4	<a href="#">117101051</a>	32	Digital Communication	Y	Y	Y	8.4
5	<a href="#">117101053</a>	41	Information Theory and Coding	Y	Y	Y	19
6	<a href="#">117101056</a>	60	Transmission Lines and EM Waves	Y	Y	Y	14
7	<a href="#">117102012</a>	40	RF Integrated Circuits	Y	Y	Y	18
8	<a href="#">117102059</a>	41	Communication Engineering	Y	Y	Y	11
9	<a href="#">117102060</a>	43	Digital Signal Processing	Y	Y	Y	11
10	<a href="#">117102062</a>	38	Wireless Communication	Y	Y	Y	7.7
11	<a href="#">117103063</a>	40	Basic Electronics	Y	Y	Y	9.7
12	<a href="#">117104074</a>	45	Signals and Systems	Y	Y	Y	8.4
13	<a href="#">117104099</a>	40	Advanced 3G and 4G Wireless Mobile Communications	Y	Y	Y	17
14	<a href="#">117104104</a>	37	Digital Switching	Y	Y	Y	16
15	<a href="#">117105075</a>	41	Adaptive Signal Processing	Y	Y	Y	8.5
16	<a href="#">117105078</a>	28	Digital Computer Organization	Y	Y	Y	4.9
17	<a href="#">117105079</a>	40	Digital Image Processing	Y	Y	Y	8.5
18	<a href="#">117105080</a>	40	Digital Systems Design	Y	Y	Y	8.8
19	<a href="#">117105081</a>	40	Digital Voice and Picture Communication	Y	Y	Y	8.2
20	<a href="#">117105082</a>	32	MEMS and Microsystems	Y	Y	Y	9.2
21	<a href="#">117105084</a>	37	Neural Networks and Applications	Y	Y	Y	8.0
22	<a href="#">117105085</a>	40	Probability and Random Processes	Y	Y	Y	12
23	<a href="#">117105101</a>	40	Pattern Recognition and Application	Y	Y	Y	12
24	<a href="#">117106030</a>	60	Analog IC Design	Y	Y	Y	26

25	<a href="#">117106031</a>	38	Coding Theory	Y	Y	Y	19
26	<a href="#">117106033</a>	57	Semiconductor Device Modeling	Y	Y	Y	39
27	<a href="#">117106034</a>	60	VLSI Data Conversion Circuits	Y	Y	Y	27
28	<a href="#">117106086</a>	40	Digital Circuits and Systems	Y	Y	Y	9.3
29	<a href="#">117106087</a>	38	Electronics for Analog Signal Processing - I	Y	Y	Y	9.6
30	<a href="#">117106088</a>	39	Electronics for Analog Signal Processing - II	Y	Y	Y	9.2
31	<a href="#">117106089</a>	41	High Speed Devices and Circuits	Y	Y	Y	11
32	<a href="#">117106091</a>	42	Solid State Devices	Y	Y	Y	11
33	<a href="#">117106092</a>	55	VLSI Circuits	Y	Y	Y	14
34	<a href="#">117106093</a>	40	VLSI Technology	Y	Y	Y	7.1
35	<a href="#">117106101</a>	21	Basic Electrical Circuits	Y	Y	---	9.9
36	<a href="#">117106108</a>	150	NOC:Basic Electrical Circuits	Y	Y	Y	3.9
37	<a href="#">117106114</a>	53	NOC:Digital Circuits and Systems	Y	Y	Y	18
38	<a href="#">117108038</a>	40	Circuits for Analog System Design	Y	Y	Y	19
39	<a href="#">117108040</a>	44	Digital System design with PLDs and FPGAs	Y	Y	Y	20
40	<a href="#">117108044</a>	42	Error Correcting Codes	Y	Y	Y	20
41	<a href="#">117108048</a>	42	Pattern Recognition	Y	Y	Y	12
42	<a href="#">117106111</a>	37	ARM Based Development	---	Y	Y	0.5
43	<a href="#">117106112</a>	44	Embedded Software Testing	Y	Y	Y	0.6
44	<a href="#">117106109</a>	34	Advanced Logic Synthesis	---	Y	---	0.6
45	<a href="#">117106113</a>	43	Linux Programming and Scripting	Y	Y	Y	0.4
46	<a href="#">117104115</a>	50	NOC:Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications	Y	Y	Y	8.0
47	<a href="#">117106116</a>	78	NOC:Networks and Systems	Y	Y	Y	4.5
48	<a href="#">117104117</a>	23	NOC:Probability and Random Variables, Processes for Wireless Communications	Y	Y	Y	4.1
49	<a href="#">117108107</a>	39	Analog Circuits and Systems 1	Y	Y	Y	18
50	<a href="#">117101106</a>	25	Analog Circuits	Y	Y	Y	25
51	<a href="#">117101004</a>	42	Advanced VLSI Design	Y	Y	Y	44
52	<a href="#">117101105</a>	29	CMOS Analog VLSI Design	Y	Y	Y	26
53	<a href="#">117101119</a>	34	NOC: Microwave Integrated Circuits	Y	Y	Y	15
54	<a href="#">117104118</a>	39	NOC: Estimation for Wireless Communications / MIMO / OFDM Cellular and Sensor Networks	Y	Y	Y	2.0
55	<a href="#">117105122</a>	20	NOC: Basic Tools of Microwave Engineering	Y	Y	Y	4.9
56	<a href="#">117108124</a>	24	NOC: Design and Simulation of DC-DC converters using Open Source Tools	Y	Y	Y	2.8
57	<a href="#">117101123</a>	31	NOC: Foundations of Wavelets and Multirate Digital Signal Processing	Y	Y	Y	8.1
58	<a href="#">117104121</a>	18	NOC: Error Control Coding: An Introduction to Linear Block code	Y	Y	Y	1.2
59	<a href="#">117104120</a>	17	NOC: Error Control Coding: An Introduction to Convolutional Codes	Y	Y	Y	1.3
60	<a href="#">117105135</a>	59	NOC: Digital Image Processing	Y	Y	Y	15

61	117105133	24	NOC:Audio System Engineering	Y	Y	Y	7.4
62	117105132	40	NOC:Fundamentals of MIMO Wireless Communication	Y	Y	Y	11
63	117105131	40	NOC:Satellite Communication Systems	Y	Y	Y	8.9
64	117104128	35	NOC:Digital Switching-I	Y	Y	Y	3.3
65	117104126	35	NOC:Bayesian/MMSE Estimation for Wireless Communications MIMO / OFDM Cellular and Sensor Networks	Y	Y	Y	1.6
66	117105130	20	NOC:Basic Building Blocks of Microwave Engineering	Y	Y	Y	5.2
67	117105134	40	NOC:Discrete Time Signal Processing	Y	Y	Y	11
68	117104129	24	NOC:An Introduction to Information Theory	Y	Y	Y	2.6
69	117104127	54	NOC:Optical Communications	Y	Y	Y	2.9
70	117103125	54	NOC:VLSI Design Verification and Test	Y	Y	Y	16
71	117108047	41	Nanoelectronics: Devices and Materials	Y	Y	Y	14
72	117105139	40	NOC:Millimeter Wave Technology	Y	Y	Y	11
73	117105138	20	NOC:Design Principles of RF and Microwave Filters and Amplifiers	Y	Y	Y	5.5
74	117105137	60	NOC:Digital VLSI Testing	Y	Y	Y	14
75	117105136	69	NOC:Spread Spectrum Communications and Jamming	Y	Y	Y	16
76	117108140	61	NOC:Enclosure Design of Electronics Equipment	Y	Y	Y	12
77	117108141	118	NOC:Design of Photovoltaic Systems	Y	Y	Y	11
78	117108142	14	NOC:Photonic Integrated Circuits	Y	Y	Y	4.7
79	117105140	60	NOC:Power System Analysis	Y	Y	Y	16
80	117105143	60	NOC:Analog Communication	Y	Y	Y	16
81	117105144	60	NOC:Modern Digital Communication Techniques	Y	Y	Y	16
82	117105145	44	NOC:Digital Speech Processing	Y	Y	Y	12
83	117105147	58	NOC:Analog Circuits and Systems through SPICE Simulation	Y	Y	Y	21
84	108107107	20	NOC:Basics of Software Defined Radios and Practical Applications	Y	Y	Y	4.3
85	108106105	57	NOC:Analog IC Design	Y	Y	Y	42
86	117103148	70	NOC:Design of Power Electronic Converters	Y	Y	Y	4.0
87	117103149	35	NOC:Operation and Planning of Power Distribution Systems	Y	Y	Y	6.3
88	117105148	58	NOC:Communication Networks	---	Y	---	5.1
89	117105149	60	NOC:Signal Processing Techniques and its Applications	---	Y	---	6.0
90	117106148	63	NOC:Circuit Analysis for Analog Designers	---	Y	Y	5.3
91	117106149	94	NOC:Design and Analysis of VLSI Subsystems	Y	Y	Y	5.8
92	117107148	40	NOC:Digital Protection of Power System	Y	Y	Y	4.6
93	117107149	60	NOC:Physics of Nanoscale Devices	Y	Y	Y	5.3
94	117108148	53	NOC:Neural Science for Engineers	Y	Y	Y	7.7
95	117103150	36	NOC:Nanophotonics, Plasmonics, and Metamaterials	---	Y	Y	5.0
96	117103488	36	NOC:Power Electronics Applications in Power Systems	---	Y	---	8.7
97	117104484	60	NOC:5G Wireless Standard Design	---	Y	---	15
98	117106483	63	NOC:Nonlinear Dynamical Systems and Control	---	Y	---	7.2

99	117107485	40	NOC:Low Voltage CMOS Circuit Operation	---	Y	---	6.3
100	117108486	39	NOC:Analog Circuits and Systems	---	Y	Y	6.1
<b>Discipline : Nanotechnology</b> <a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/nanotechnology.pdf">http://www.digimat.in/downloads/topics/nanotechnology.pdf</a></b>							
1	118102003	40	Nano structured materials-synthesis, properties, self assembly and applications	Y	Y	Y	34
2	118104008	45	Nanostructures and Nanomaterials: Characterization and Properties	Y	Y	Y	20
<b>Discipline : Atmospheric Science</b> <a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/atmospheric-science.pdf">http://www.digimat.in/downloads/topics/atmospheric-science.pdf</a></b>							
1	119106008	41	Introduction to Atmospheric Science	Y	Y	Y	29
2	119108004	38	Radiation Heat Transfer	Y	Y	Y	11
3	119108006	42	The monsoon and its variability	Y	Y	Y	11
<b>Discipline : Environmental Science</b> <a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/environmental-science.pdf">http://www.digimat.in/downloads/topics/environmental-science.pdf</a></b>							
1	120105559	---	NOC:Environmental Geosciences	---	---	---	---
2	120108558	---	NOC:Climate Change Science	---	---	---	---
<b>Discipline : General</b> <a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/general.pdf">http://www.digimat.in/downloads/topics/general.pdf</a></b>							
1	121104005	40	Introduction to Japanese Language and Culture	Y	Y	Y	18
2	121106003	20	Ayurvedic Inheritance of India	Y	Y	Y	9.3
3	121104006	5	Astronomy in Ancient, Medieval and Early Telescopic Era of India	Y	Y	Y	3.6
4	121106007	48	NOC:Introduction to Research	Y	Y	Y	13
5	121106008	22	NOC:Biology for engineers and other non-biologists	Y	Y	Y	11
6	121105009	20	NOC:Stress Management	Y	Y	Y	5.5
7	121105010	20	NOC:Outcome Based Pedagogic Principles for Effective Teaching	Y	Y	Y	5.2
8	121107009	20	NOC:Introduction to Remote Sensing	Y	Y	Y	5.5
9	121106011	22	NOC:Digital and the Everyday: from Codes to Cloud	Y	Y	Y	26
10	121106012	25	NOC:Effective Engineering Teaching in Practice	Y	Y	Y	32
11	121106013	90	NOC:Virtual Reality Engineering	Y	Y	Y	35
12	121106014	40	NOC:Non-Conventional Energy Resources	Y	Y	Y	77
13	121101490	60	NOC:Risk-Based Engineering	---	Y	---	6.9
14	121104452	54	NOC:Carbon Accounting and Sustainable Designs in Product Lifecycle Management	---	Y	---	5.5
15	121107451	20	NOC:Technical Communications for Engineers	---	Y	---	8.3
16	121108458	62	NOC:Biomedical Ultrasound: Fundamentals of Imaging and Micromachined Transducers	Y	Y	---	11

**Discipline : Basic Courses (Semester 1 and 2)**[Go to Top](#)**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/basic-courses-semester-1-and-2.pdf>**

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

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

1	<a href="#">123105001</a>	36	Fundamentals of Environmental Pollution and Control	Y	Y	Y	11
2	<a href="#">123105003</a>	40	NOC:Drilling and Blasting Technology	Y	Y	Y	11
3	<a href="#">123105004</a>	20	NOC:Network Analysis for Mines and Mineral Engineering	Y	Y	Y	5.3
4	<a href="#">123105005</a>	60	NOC:Mining Machinery	Y	Y	---	8.3
5	<a href="#">123105006</a>	60	NOC:Underground Mining of Metalliferous Deposits	Y	Y	Y	8.1
6	<a href="#">123105007</a>	60	NOC:Surface Mining Technology	Y	Y	Y	7.4
7	<a href="#">123105442</a>	60	NOC:Mine Automation and Data Analytics	Y	Y	Y	5.4
8	<a href="#">123105637</a>	---	NOC:Mineral Economics and Business	---	---	---	---

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1	<a href="#">124107001</a>	40	NOC:Housing Policy and Planning	Y	Y	Y	11
2	<a href="#">124105001</a>	40	NOC:Landscape Architecture and Site Planning - Basic Fundamentals	Y	Y	Y	12

3	<a href="#">124107002</a>	20	NOC:Visual Communication Design for Digital Media	Y	Y	Y	4.6
4	<a href="#">124105003</a>	43	NOC:Architectural Conservation and Historic Preservation	Y	Y	Y	11
5	<a href="#">124105004</a>	40	NOC:Architectural Acoustics	Y	Y	Y	11
6	<a href="#">124107004</a>	40	NOC:Culturally Responsive Built Environments	Y	Y	Y	12
7	<a href="#">124107005</a>	40	NOC:Contemporary Architecture and Design	Y	Y	Y	10
8	<a href="#">124107006</a>	40	NOC:Role of Craft and Technology in Interior-Architecture	Y	Y	Y	11
9	<a href="#">124106009</a>	20	NOC:Introduction to History of Architecture in India	Y	Y	Y	17
10	<a href="#">124107007</a>	60	NOC:Urban Governance and Development Management	Y	Y	Y	12
11	<a href="#">124107008</a>	20	NOC:User Interface Design	Y	Y	Y	5.8
12	<a href="#">124107010</a>	40	NOC:Disaster Recovery and Build Back Better	Y	Y	Y	8.1
13	<a href="#">124107012</a>	40	NOC:Structure, Form and Architecture: The Synergy	Y	Y	Y	9.9
14	<a href="#">124107011</a>	60	NOC:Sustainable Architecture	Y	Y	Y	14
15	<a href="#">124105013</a>	40	NOC:Building Materials and Composites	Y	Y	Y	19
16	<a href="#">124105014</a>	60	NOC:Environmental Soil Chemistry	Y	Y	Y	31
17	<a href="#">124105015</a>	40	NOC:Structural System in Architecture	Y	Y	Y	12
18	<a href="#">124105016</a>	60	NOC:Urban Landuse and Transportation Planning	Y	Y	Y	20
19	<a href="#">124106157</a>	43	NOC:Strategies for Sustainable Design	Y	Y	Y	4.6
20	<a href="#">124107157</a>	40	NOC:Engineering/Architectural Graphics - Part I: Orthographic projection	Y	Y	Y	11
21	<a href="#">124105158</a>	60	NOC:Urban utilities Planning : Water Supply, Sanitation and Drainage	Y	Y	Y	8.0
22	<a href="#">124107158</a>	40	NOC:Introduction to Urban Planning	Y	Y	---	5.6
23	<a href="#">124107159</a>	20	NOC:Engineering, Architectural Graphics - Part II (Isometric and Axonometric Drawings)	---	Y	---	2.6
24	<a href="#">124107160</a>	60	NOC:Environmental Impact Assessment	---	Y	---	12
25	<a href="#">124107161</a>	40	NOC:Modern Indian Architecture	Y	Y	Y	8.9
26	<a href="#">124107162</a>	20	NOC:International Studies in Vernacular Architecture	Y	Y	Y	3.2
27	<a href="#">124105163</a>	60	NOC:Urban Services Planning	Y	Y	---	13
28	<a href="#">124107164</a>	20	NOC:Introduction to Interaction Design	Y	Y	Y	2.1
29	<a href="#">124107165</a>	40	NOC:Understanding and Reducing Ghg Emissions - Focus on Scope 1 and 2 Emission Reduction through Building Design and Construction	---	Y	---	5.8
30	<a href="#">124107338</a>	60	NOC:Research Methodology for Planning and Architectural Studies	---	Y	---	7.8
31	<a href="#">124106454</a>	48	NOC:Architectural Approaches to Decarbonization of Buildings	Y	Y	Y	9.5
32	<a href="#">124106455</a>	48	NOC:Building Materials as a Cornerstone to Sustainability	Y	Y	Y	9.0
33	<a href="#">124105552</a>	---	NOC:Building Energy Systems and Auditing	---	---	---	---
34	<a href="#">124106551</a>	---	NOC:Bioclimatic Architecture: Futureproofing with Simple and Advanced Passive Strategies	---	---	---	---

**Discipline : Agriculture**

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

1	<a href="#">126104001</a>	26	NOC:Basic Crop Production Practices (BCPP)	---	Y	---	1.9
2	<a href="#">126104002</a>	46	NOC:GIS in Ag-Essentials and Applications (GIS)	Y	Y	Y	3.9

3	126104003	47	NOC:Integrated Pest Management (IPM)	---	Y	---	5.7
4	126104004	49	NOC:Nutrition, Therapeutics and Health (NM)	Y	Y	---	4.7
5	126104005	36	NOC:Weather Forecast in Agriculture and Agro-advisory (WF)	Y	Y	Y	3.2
6	126104006	45	NOC:ICT Basics	Y	Y	Y	3.2
7	126105008	60	NOC:Momentum Transfer in Process Engineering	Y	Y	Y	16
8	126105009	60	NOC:Farm Machinery	Y	Y	Y	14
9	126105010	60	NOC:Irrigation and Drainage	Y	Y	Y	17
10	126105011	60	NOC:Fundamentals of Food Process Engineering	Y	Y	Y	17
11	126105012	56	NOC:Soil and Water Conservation Engineering	Y	Y	Y	11
12	126105013	60	NOC:Dairy and Food Process and Products Technology	Y	Y	Y	16
13	126105014	40	NOC:Organic Farming for Sustainable Agricultural Production	Y	Y	Y	10
14	126105015	60	NOC:Novel Technologies for Food Processing and Shelf Life Extension	Y	Y	Y	18
15	126105016	60	NOC:Soil Science and Technology	Y	Y	Y	16
16	126103017	31	NOC:Thermal Processing of Foods	Y	Y	Y	19
17	126105018	60	NOC:Thermal Operations in Food Process Engineering: Theory and Applications	Y	Y	Y	16
18	126105019	60	NOC:Micro Irrigation Engineering	Y	Y	Y	11
19	126105020	44	NOC:Instrumentation and Process Control in Food Industry	---	Y	---	3.4
20	126105021	60	NOC:Machine Learning for Soil and Crop Management	Y	Y	Y	6.8
21	126103022	65	NOC:Natural Resources Management	---	Y	---	6.8
22	126105022	61	NOC:Advanced Aquaculture Technology	Y	Y	Y	6.1
23	126105023	60	NOC:Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products	Y	Y	Y	7.9
24	126105024	60	NOC:Soil Fertility and Fertilizers	Y	Y	Y	6.0
25	126105025	60	NOC:Cooling Technology: Why and How utilized in Food Processing and Allied Industries	Y	Y	Y	6.4
26	126105026	40	NOC:Traction Engineering	Y	Y	Y	2.8
27	126105027	60	NOC:Food Oils and Fats : Chemistry and Technology	Y	Y	Y	7.5
28	126105334	60	NOC:Watershed Hydrology	Y	Y	Y	6.2
29	126105335	60	NOC:Water Quality Management Practices	---	Y	Y	6.7
30	126105336	60	NOC:Modern Food Packaging Technologies: Regulatory Aspects and Global Trends	Y	Y	Y	4.6
31	126105337	58	NOC:Basics of Crop Breeding and Plant Biotechnology	Y	Y	Y	4.9
32	126105550	---	NOC:Food Microbiology for Safe and Sustainable Food Systems	---	---	---	---
33	126105547	---	NOC:Design of Farm Machinery	---	---	---	---
34	126105548	---	NOC:Food Science and Technology	---	---	---	---
35	126105549	---	NOC:Impact of Flow of Fluids in Food Processing and Preservation	---	---	---	---



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1	<a href="#">127106001</a>	83	NOC:Neuroscience of Human Movement	Y	Y	Y	71
2	<a href="#">127106003</a>	76	NOC:Manage TB	Y	Y	Y	40
3	<a href="#">127106004</a>	45	NOC:Ecology and Environment	Y	Y	Y	38
4	<a href="#">127101010</a>	43	NOC:Designing Learner-Centric MOOCs	Y	Y	Y	6.3
5	<a href="#">127105006</a>	42	NOC:Fuzzy Logic and Neural Networks	Y	Y	Y	11
6	<a href="#">127105007</a>	60	NOC:Entrepreneurship Essentials	Y	Y	---	15
7	<a href="#">127105008</a>	39	NOC:Roadmap for Patent Creation	Y	Y	Y	20
8	<a href="#">127106009</a>	13	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India	Y	Y	Y	4.6
9	<a href="#">127106010</a>	11	NOC:Regulatory Requirements for Medical Devices and IVD kits in India	Y	Y	Y	5.8
10	<a href="#">127108005</a>	20	NOC:Teaching and Learning in Engineering (TALE)	Y	Y	Y	3.4
11	<a href="#">127101012</a>	18	NOC:Introduction to Learning Analytics	Y	Y	Y	3.5
12	<a href="#">127101013</a>	33	NOC:Designing Learner-Centric e-Learning in STEM Disciplines	Y	Y	Y	9.3
13	<a href="#">127101014</a>	25	NOC:Sustainable and Affordable Sanitation Solutions for Small Towns: Policy, Planning and Practice	Y	Y	Y	17
14	<a href="#">127105017</a>	41	NOC:Accreditation and Outcome based Learning	---	Y	Y	15
15	<a href="#">127105018</a>	60	NOC:Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts	---	Y	Y	18
16	<a href="#">127106019</a>	113	NOC:Numerical Methods for Engineers	---	Y	---	44
17	<a href="#">127108015</a>	19	NOC:Teaching and Learning in General Programs: TALG	Y	Y	Y	4.7
18	<a href="#">127108016</a>	35	NOC:TALE 2: Course Design and Instruction of Engineering Courses	Y	Y	Y	9.0
19	<a href="#">127106134</a>	22	Basic Course in Biomedical Research	---	Y	Y	6.6
20	<a href="#">127106137</a>	28	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs (Version 2.0)	Y	Y	Y	15
21	<a href="#">127108135</a>	62	NOC:NBA Accreditation and Teaching Learning in Engineering (NATE)	Y	Y	Y	14
22	<a href="#">127106136</a>	14	NOC:Regulatory Requirements for Medical Devices including in Vitro Diagnostics in India (Version 2.0)	Y	Y	Y	6.8
23	<a href="#">127106135</a>	89	NOC:Thermodynamics	Y	Y	Y	47
24	<a href="#">106101224</a>	61	NOC:Learning Analytics Tools	Y	Y	Y	10
25	<a href="#">127103225</a>	43	NOC:Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers	Y	Y	Y	5.8
26	<a href="#">127105225</a>	60	NOC:Biophotonics	Y	Y	Y	6.9
27	<a href="#">127106225</a>	78	NOC:Model Predictive Control: Theory and Applications	---	Y	---	5.6
28	<a href="#">127106227</a>	72	NOC:Research Methodology	Y	Y	Y	7.0
29	<a href="#">127106228</a>	24	NOC:Management of Medical Emergencies in Dental Practice	---	Y	---	1.7
30	<a href="#">127106229</a>	44	NOC:Basic Course in Ornithology	Y	Y	Y	4.6
31	<a href="#">127106230</a>	31	NOC:Oral Biology	Y	Y	Y	4.3

32	127105231	60	NOC:Vacuum Technology and Process Application	---	Y	---	12
33	127105232	40	NOC:Basics of Health Promotion and Education Intervention	Y	Y	Y	3.6
34	127106231	40	NOC:Introduction to Biomimicry	Y	Y	Y	3.4
35	127106232	20	NOC:Electrocardiogram - Interpretation and Application in Clinical Practice	---	Y	Y	1.9
36	127101233	60	NOC:Engineering Statistics	Y	Y	Y	4.6
37	127104233	110	NOC:Foundation Certificate in Palliative Care	---	Y	Y	6.0
38	127105233	40	NOC:Basics of Mental Health and Clinical Psychiatry	Y	Y	Y	3.6
39	127105234	40	NOC:Introduction to Reliability Engineering	Y	Y	Y	4.2
40	127105235	40	NOC:Nanobio Technology Enabled Point-of-Care Devices	Y	Y	---	5.0
41	127106233	23	NOC:One Health	Y	Y	Y	2.2
42	127102236	27	NOC:Similitude and Approximations in Engineering	---	Y	Y	2.1
43	127103236	37	NOC:Sustainable Power Generation Systems	---	Y	---	4.3
44	127105236	20	NOC:Adolescent Health and Well-Being : A Holistic Approach	Y	Y	Y	1.7
45	127105237	60	NOC:Research Methods in Health Promotion	Y	Y	Y	5.9
46	127106236	31	NOC:Canning Technology, Value Addition of Seafood (Fish Processing)	Y	Y	Y	2.1
47	127106237	43	NOC:Food Packaging Technology	Y	Y	Y	3.3
48	127104381	60	NOC:Multi-Criteria Decision Making and Applications	Y	Y	---	6.2
49	127104385	78	NOC:Basic Certificate in Palliative Care	---	Y	---	5.6
50	127105382	19	NOC:Urban Ecological Heritagescapes through Interactive Governance: Theories and Applications	Y	Y	---	2.9
51	127105386	18	NOC:Experimental Robotics	Y	Y	---	2.4
52	127105388	40	NOC:Medical Law	---	Y	---	4.4
53	127105389	68	NOC:An Overview on Maternal Health Antenatal, Intranatal and Postnatal Care	---	Y	---	9.0
54	127105390	40	NOC:Recommender Systems	Y	Y	Y	3.4
55	127105391	60	NOC:Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis	Y	Y	Y	6.2
56	127106383	40	NOC:Vulnerability Studies: An Introduction	Y	Y	Y	5.8
57	127106384	23	NOC:Pulmonary Function Tests - Interpretation and Application in Clinical Practice	Y	Y	Y	2.0
58	127101530	27	NOC:Intelligent Feedback and Control	Y	Y	---	5.2
59	127105531	60	NOC:Thin Film Technology	---	Y	---	11
60	127105532	60	NOC:An Integrated Approach to Common Childhood Diseases and Developmental Disorders in India	---	Y	---	9.3
61	127106533	33	NOC:Making Learning Engaging Through Interactive Games	Y	Y	Y	7.1
62	127107502	40	NOC:Intellectual Property Portfolio Management	Y	Y	---	12
63	127101592	---	NOC:Introduction to Evolutionary Dynamics	---	---	---	---
64	127104590	---	NOC:Certificate in Integrative Palliative Care - III	---	---	---	---
65	127105593	---	NOC:Sustainable Mining and Geoinformation	---	---	---	---

66	<a href="#">127106648</a>	---	NOC:Local Anaesthesia in Dentistry	---	---	---	---
67	<a href="#">127108591</a>	---	NOC:Fundamentals of Ecology	---	---	---	---
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2	<a href="#">128106002</a>	73	ACM Summer School in Data Science (Goa)	---	Y	---	47
3	<a href="#">128106003</a>	9	Topics in Theoretical Computer Science	---	Y	---	17
4	<a href="#">128106004</a>	20	Researching Anglo-Indians in India and the Diaspora	---	Y	---	13
5	<a href="#">128106005</a>	94	Dravidian Temple Architecture and Construction Techniques	---	Y	---	72
6	<a href="#">128106006</a>	20	ACM Summer School in Data Science (Bangalore)	---	Y	---	49
7	<a href="#">128106007</a>	36	ACM Summer School on Algorithmic Game Theory	---	Y	---	9.3
8	<a href="#">128106008</a>	33	ACM Summer School on Graph Theory and Graph Algorithms	---	Y	---	21
9	<a href="#">128106009</a>	34	ACM Summer School on Compiler Design and Construction	---	Y	---	9.8
10	<a href="#">128106010</a>	38	ACM Summer School on Geometric Algorithms and their Applications	---	Y	---	10
11	<a href="#">128106011</a>	47	ACM Summer School on Algorithmic and Theoretical Aspects of Machine Learning	---	Y	---	12
12	<a href="#">128106012</a>	20	ACM Winter School on Hybrid Cloud	---	Y	---	5.8
13	<a href="#">128106013</a>	29	ACM Indian Summer School on Programming Languages: Principles and Practice	---	Y	---	18
14	<a href="#">128106014</a>	18	ACM Winter School 2019 on High Performance Computing (HPC)	---	Y	---	4.4
15	<a href="#">128106015</a>	6	Thermodynamics of Materials	---	Y	---	0.5
16	<a href="#">128108016</a>	14	ACM India Summer School on IoT and Embedded Systems	---	Y	---	2.1
17	<a href="#">128106017</a>	31	ACM India Summer School on Program Execution	---	Y	---	3.7
18	<a href="#">128106018</a>	55	ACM India Summer School on Programming Language Analysis and Optimizations	---	Y	---	3.6
19	<a href="#">128106019</a>	50	ACM Summer School on Shape Modelling	---	Y	---	3.6
20	<a href="#">128106020</a>	62	ACM India Summer School on Shape Modelling	---	Y	---	7.6
21	<a href="#">128106021</a>	47	ACM India Winter School on Topics in Digital Trust	---	Y	---	9.0
22	<a href="#">128106032</a>	27	ACM Winter School on Design, Implementation and Verification of Computer Systems	---	Y	---	4.5
23	<a href="#">128106033</a>	6	Topics In Theoretical Computer Science (2023)	---	Y	---	1.0
24	<a href="#">128108017</a>	34	ACM India Summer School on Algorithms for Data Science (2023)	---	Y	---	7.2
25	<a href="#">128108018</a>	24	ACM India Summer School on Cybersecurity for Women	---	Y	---	12
26	<a href="#">128106143</a>	18	NPTEL Special Lectures Series	---	Y	---	4.5
27	<a href="#">128108019</a>	28	ACM Winter Schools - Cryptography and Cybersecurity	---	Y	---	8.3
28	<a href="#">128108020</a>	25	ACM Winter School on Network Science	---	Y	---	5.7
29	<a href="#">128108021</a>	26	ACM Winter School on Recent Trends in AI and ML	---	Y	---	5.6
30	<a href="#">128108022</a>	20	ACM India Pingala Interactions in Computing (PIC) 2024	---	Y	---	4.1
31	<a href="#">128108023</a>	17	ACM INDIA ARCS 2024	---	Y	---	2.3

32	<a href="#">128108024</a>	9	ACM INDIA Annual Event 2024	---	Y	---	1.7
33	<a href="#">128108025</a>	29	ACM INDIA Winter School - Full-Stack Networking (FSN)	---	Y	---	3.1
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1	<a href="#">129106001</a>	75	NOC:Right to Information and Good Governance	Y	Y	Y	5.7
2	<a href="#">129106002</a>	59	NOC:Constitution of India and Environmental Governance: Administrative and Adjudicatory Process	Y	Y	Y	6.0
3	<a href="#">129106003</a>	18	NOC:Constitutional Studies	Y	Y	Y	3.8
4	<a href="#">129105004</a>	40	NOC:Introduction to Law on Electricity	Y	Y	Y	4.9
5	<a href="#">129105005</a>	17	NOC:Legal and Regulatory Issues in Biotechnology	Y	Y	Y	2.4
6	<a href="#">129105006</a>	60	NOC:New Labour Codes of India	Y	Y	Y	6.8
7	<a href="#">129106006</a>	56	NOC:Advanced Contracts, Tendering and Public Procurement	Y	Y	Y	4.6
8	<a href="#">129105007</a>	40	NOC:IP Management and Technology Transfer	Y	Y	---	9.3
9	<a href="#">129105008</a>	40	NOC:Biodiversity Protection, Farmers and Breeders Rights	Y	Y	Y	3.8
10	<a href="#">129106008</a>	48	NOC:Conflict Management through Mediation	---	Y	---	3.1
11	<a href="#">129106411</a>	64	NOC:Constitution Law and Public Administration in India	Y	Y	Y	6.5
12	<a href="#">129105409</a>	34	NOC:International Trade Law	Y	Y	Y	3.7
13	<a href="#">129105410</a>	40	NOC:Centre-State Relations in India	Y	Y	---	4.0
14	<a href="#">129105504</a>	41	NOC:Intellectual Property Disputes: Court Practices and Enforcement	---	Y	---	15
15	<a href="#">129105608</a>	---	NOC:Directive Principles of State Policy and Fundamental Duties: Constitutional Imperative	---	---	---	---
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1	<a href="#">130106001</a>	65	NOC:Introduction to Econometrics	Y	Y	Y	5.5
2	<a href="#">130106113</a>	72	NOC:Environmental and Resource Economics	Y	Y	Y	5.9
3	<a href="#">130104114</a>	41	NOC:Microfoundations of Macroeconomics	Y	Y	Y	4.3
4	<a href="#">130104115</a>	118	NOC:Introduction to Microeconomics in Hindi and without Calculus	---	Y	---	4.2
5	<a href="#">130104116</a>	60	NOC:Economics of Banking and Finance Markets	Y	Y	Y	4.5
6	<a href="#">130106115</a>	49	NOC:Spatial Statistics and Spatial Econometrics	Y	Y	Y	4.8
7	<a href="#">130106117</a>	36	NOC:Economics of Innovation	---	Y	---	2.7
8	<a href="#">130106118</a>	47	NOC:Principles of Economics	---	Y	---	5.4
9	<a href="#">130107369</a>	60	NOC:Health Economics	Y	Y	Y	7.2
10	<a href="#">130107476</a>	40	NOC:Labour Economics-Theory and Practice	---	Y	---	12