



## National Programme on Technology Enhanced Learning

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### NPTEL Video Courses Information in Supplementary Formats

(Document Last Updated : November 19, 2023)

No	NPTEL Information Summary	Status	Courses	Lectures
1	NPTEL Video Courses (2003 to December 2023)	Completed	2341	108,488
2	NPTEL Video Courses (PDF Transcription)	Completed	1983	88,968
3	NPTEL Video Courses (English Subtitles)	Completed	1922	85,702
4	NPTEL Video Courses (Tamil Subtitles)	Completed	1922	85,504
5	NPTEL Video Courses (January 2024 to June 2024)	New Courses	118	---

## DIGIMAT Assistive Technology Platform

The HTML-5 based Assistive Technology Platform for Streaming

108,488 NPTEL Video Lectures in LAN / WiFi (PCs, Laptops, Smartphones & Tablets)

<https://www.digimat.in>

<https://www.digimat.in>



## **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 : 2,459 | Total NPTEL Video Lectures : 108,488 (Updated: November 19, 2023)**

<b>No.</b>	<b>ID</b>	<b>Name of the Engineering Discipline</b>	<b>Total Video Courses</b>	<b>Total Video Lectures</b>	<b>Size (GB)</b>
1	101	Aerospace Engineering	60	2,676	879
2	102	Biotechnology	94	3,798	1,401
3	103	Chemical Engineering	136	6,110	2,205
4	104	Chemistry and Biochemistry	107	4,737	2,031
5	105	Civil Engineering	196	8,913	2,676
6	106	Computer Science and Engineering	218	10,866	2,971
7	107	Engineering Design	19	743	320
8	108	Electrical Engineering	217	11,055	3,492
9	109	Humanities and Social Sciences	226	8,496	3,112
10	110	Management	179	7,998	2,074
11	111	Mathematics	175	8,573	2,224
12	112	Mechanical Engineering	288	11,595	3,382
13	113	Metallurgy and Material Science	88	3,847	1,155
14	114	Ocean Engineering	30	1,371	545
15	115	Physics	99	4,649	1,480
16	116	Textile Engineering	15	488	295
17	117	Electronics and Communication Engineering	95	4,223	1,088
18	118	Nanotechnology	2	85	54
19	119	Atmospheric Science	3	121	51
20	121	General	12	372	241
21	122	Basic Courses (Semester 1 and 2)	21	657	170
22	123	Mining Engineering	7	276	51
23	124	Architecture	30	1,186	308
24	126	Agriculture	31	1,426	257
25	127	Multi-Disciplinary	58	2,090	537
26	128	Special Lecture Series	25	930	448
27	129	Law	13	453	50
28	130	Economics	9	488	37
29	MC	Medical Courses	6	266	40
<b>Total :</b>			<b>2,459</b>	<b>108,488</b>	<b>33,574</b>

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>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/aerospace-engineering.pdf">http://www.digimat.in/downloads/topics/aerospace-engineering.pdf</a></b>							
1	<a href="#">101101001</a>	40	Introduction to Aerospace Propulsion	Y	Y	Y	35
2	<a href="#">101101002</a>	42	Jet Aircraft Propulsion	Y	Y	Y	30
3	<a href="#">101101058</a>	40	Turbomachinery Aerodynamics	Y	Y	Y	21
4	<a href="#">101104005</a>	26	Aero elasticity	Y	Y	Y	9.2
5	<a href="#">101104013</a>	40	Foundation of Scientific Computing	Y	Y	Y	8.1
6	<a href="#">101104015</a>	39	Instability and Transition of Fluid Flows	Y	Y	Y	17
7	<a href="#">101104017</a>	26	Introduction to Helicopter Aerodynamics and Dynamics	Y	Y	Y	16
8	<a href="#">101104018</a>	40	Introduction to Propulsion	Y	Y	Y	16
9	<a href="#">101104019</a>	40	Jet and Rocket Propulsion	Y	Y	Y	15
10	<a href="#">101105024</a>	40	High Speed Aero Dynamics	Y	Y	Y	12
11	<a href="#">101105030</a>	45	Space Flight Mechanics	Y	Y	Y	13
12	<a href="#">101105059</a>	46	Introduction to Aerodynamics	Y	Y	Y	15
13	<a href="#">101106031</a>	41	Acoustic Instabilities in Aerospace Propulsion	Y	Y	Y	17
14	<a href="#">101106033</a>	42	Aerospace Propulsion	Y	Y	Y	20
15	<a href="#">101106042</a>	41	Flight Dynamics II (Stability)	Y	Y	Y	17
16	<a href="#">101106044</a>	54	Gas Dynamics	Y	Y	Y	24
17	<a href="#">101106045</a>	39	Introduction to CFD	Y	Y	Y	16
18	<a href="#">101108047</a>	40	Advanced Control System Design for Aerospace Vehicles	Y	Y	Y	19
19	<a href="#">101108057</a>	40	Optimal Control, Guidance and Estimation	Y	Y	Y	11
20	<a href="#">101104061</a>	48	NOC:Introduction to Airplane Performance	Y	Y	Y	3.4
21	<a href="#">101104062</a>	60	NOC:Stability and Control of Aircraft	Y	Y	Y	4.7
22	<a href="#">101106037</a>	51	Combustion	Y	Y	Y	50
23	<a href="#">101104064</a>	43	NOC:Aircraft Dynamic Stability and Design Stability Augmentation System	Y	Y	Y	3.2
24	<a href="#">101104063</a>	38	NOC:Engineering Thermodynamics (2016)	Y	Y	Y	4.6
25	<a href="#">101104066</a>	21	NOC:Introduction to Experiments in Flight	Y	Y	Y	1.3
26	<a href="#">101104065</a>	40	NOC:Introduction to Ancient Indian Technology	Y	Y	Y	3.4
27	<a href="#">101104067</a>	58	NOC:Engineering Thermodynamics (2017)	Y	Y	Y	2.5
28	<a href="#">101108068</a>	62	NOC:Combustion in Air Breathing Aero Engines	Y	Y	Y	16
29	<a href="#">101104069</a>	46	NOC:Aircraft Design	Y	Y	Y	4.8
30	<a href="#">101104071</a>	14	NOC:Aircraft Maintenance	Y	Y	Y	5.2
31	<a href="#">101104070</a>	40	NOC:Fundamentals of Combustion - Part I	Y	Y	Y	8.5
32	<a href="#">101104072</a>	40	NOC:Fundamentals of Combustion - Part II	Y	Y	Y	8.4
33	<a href="#">101104073</a>	23	NOC:Design of Fixed Wing Unmanned Aerial Vehicles	Y	Y	Y	8.6
34	<a href="#">101104074</a>	40	NOC:Introduction to Finite Volume Methods-I	Y	Y	Y	16

35	<a href="#">101104075</a>	28	NOC:Advance Aircraft Maintenance	Y	Y	Y	19
36	<a href="#">101104076</a>	40	NOC:Introduction to Finite Volume Methods-II	Y	Y	Y	16
37	<a href="#">101105077</a>	73	NOC:Satellite Attitude Dynamics and Control	Y	Y	Y	25
38	<a href="#">101101079</a>	67	NOC:Introduction to Aerospace Engineering	Y	Y	Y	34
39	<a href="#">101104078</a>	60	NOC:Introduction to Rocket Propulsion	---	Y	Y	15
40	<a href="#">101105081</a>	40	NOC:Vibration and Structural Dynamics	---	Y	Y	11
41	<a href="#">101106082</a>	36	NOC:Rocket Propulsion	Y	Y	Y	77
42	<a href="#">101105084</a>	42	NOC:Aircraft Structures - I	Y	Y	Y	21
43	<a href="#">101104084</a>	60	NOC:Introduction to Airbreathing Propulsion	Y	Y	Y	41
44	<a href="#">101101083</a>	86	NOC:Introduction to Aircraft Design	Y	Y	Y	9.0
45	<a href="#">101105085</a>	65	NOC:Introduction to CFD	---	Y	---	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>	---	NOC:Introduction to Aircraft Control System	---	---	---	---
58	<a href="#">101105331</a>	---	NOC:Combustion of Solid Fuels and Propellants	---	---	---	---
59	<a href="#">101105332</a>	---	NOC:Aerospace Structural Analysis	---	---	---	---
60	<a href="#">101105333</a>	---	NOC:Fundamentals of Supersonic and Hypersonic Flow	---	---	---	---

### Discipline : Biotechnology

[Go to Top](#)

**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	<a href="#">102107028</a>	41	Analytical Technologies in Biotechnology	Y	Y	Y	24
9	<a href="#">102101050</a>	21	NOC:Mass spectrometry based proteomics	Y	Y	Y	1.5
10	<a href="#">102106048</a>	20	NOC:Principles of Downstream techniques in Bioprocess	Y	Y	Y	2.4

11	<a href="#">102101049</a>	21	NOC:Proteins and Gel-Based Proteomics	Y	Y	Y	1.7
12	<a href="#">102106051</a>	40	NOC:Biostatistics and Design of Experiments	Y	Y	Y	14
13	<a href="#">102106053</a>	21	NOC:Bioreactors	Y	Y	Y	5.3
14	<a href="#">102104052</a>	15	NOC:Human Molecular Genetics	Y	Y	Y	1.2
15	<a href="#">102101054</a>	40	NOC:Interactomics: Protein Arrays and Label-free Biosensors	Y	Y	Y	28
16	<a href="#">102106057</a>	40	NOC:Medical Biomaterials	Y	Y	Y	15
17	<a href="#">102104056</a>	19	NOC:Functional Genomics	Y	Y	Y	1.6
18	<a href="#">102101056</a>	40	NOC:Introduction to Biostatistics	Y	Y	Y	18
19	<a href="#">102103056</a>	24	NOC:Introduction to Dynamical Models in Biology	Y	Y	Y	5.2
20	<a href="#">102104057</a>	40	NOC:Bioenergy	Y	Y	Y	2.2
21	<a href="#">102107058</a>	20	NOC:Biomedical Nanotechnology	Y	Y	Y	4.7
22	<a href="#">102101058</a>	40	NOC:Introduction to Mechanobiology	Y	Y	Y	34
23	<a href="#">102104058</a>	60	NOC:Animal Physiology	Y	Y	Y	2.3
24	<a href="#">102104059</a>	40	NOC:Cell Culture Technologies	Y	Y	Y	1.4
25	<a href="#">102104060</a>	40	NOC:Forest Biometry	Y	Y	Y	1.8
26	<a href="#">102105058</a>	60	NOC:Industrial Biotechnology	Y	Y	Y	15
27	<a href="#">102106066</a>	18	NOC:Demystifying the Brain	Y	Y	Y	30
28	<a href="#">102104061</a>	20	NOC:Introduction To Professional and Scientific Communication	Y	Y	Y	5.3
29	<a href="#">102104062</a>	20	NOC:Bioelectrochemistry	Y	Y	Y	3.9
30	<a href="#">102104063</a>	20	NOC:Bioenergetics Of Life Processes	Y	Y	Y	3.9
31	<a href="#">102101067</a>	40	NOC:Introductory Mathematical Methods for Biologists	Y	Y	Y	36
32	<a href="#">102101055</a>	40	NOC:Introduction to Proteomics	Y	Y	Y	16
33	<a href="#">102106065</a>	69	NOC:BioInformatics:Algorithms and Applications	Y	Y	Y	34
34	<a href="#">102105064</a>	60	NOC:Aspects Of Biochemical Engineering	Y	Y	Y	16
35	<a href="#">102101068</a>	40	NOC:Bioengineering: An Interface with Biology and Medicine	Y	Y	Y	35
36	<a href="#">102104068</a>	40	NOC:Wildlife Conservation	Y	Y	Y	13
37	<a href="#">102104069</a>	40	NOC:Nanotechnology in Agriculture	Y	Y	Y	6.4
38	<a href="#">102105068</a>	20	NOC:Biomicrofluidics	Y	Y	Y	5.7
39	<a href="#">102106068</a>	103	NOC:Computational Systems Biology	Y	Y	Y	126
40	<a href="#">102106069</a>	69	NOC:Material and Energy Balances	Y	Y	Y	60
41	<a href="#">102106070</a>	40	NOC:Computer Aided Drug Design	Y	Y	Y	38
42	<a href="#">102101072</a>	40	NOC:Applications of Interactomics using Genomics and Proteomics Technologies	Y	Y	Y	42
43	<a href="#">102104073</a>	36	NOC:Wild Life Ecology	Y	Y	Y.	25
44	<a href="#">102108071</a>	20	NOC:Learning about Learning: A Course on Neurobiology of Learning and Memory	Y	Y	Y	3.8
45	<a href="#">102101076</a>	80	NOC:Introduction to Proteogenomics	Y	Y	Y	55
46	<a href="#">102103074</a>	41	NOC:Genetic Engineering: Theory and Application	Y	Y	Y	34
47	<a href="#">102106080</a>	29	NOC:Plant Cell Bioprocessing	Y	Y	Y	39

48	<a href="#">102106081</a>	37	NOC:Tissue Engineering	Y	Y	Y	53
49	<a href="#">102107075</a>	20	NOC:Plant Developmental Biology	Y	Y	Y	3.3
50	<a href="#">102108077</a>	63	NOC:Drug Delivery: Principles and Engineering	Y	Y	Y	9.5
51	<a href="#">102108078</a>	61	NOC:Fundamentals of Micro and Nanofabrication	Y	Y	Y	14
52	<a href="#">102104082</a>	36	NOC:Forests and their Management	Y	Y	Y	36
53	<a href="#">102101082</a>	60	NOC:Interactomics: Basics and Applications	Y	Y	Y	58
54	<a href="#">102108082</a>	58	NOC:Optical Spectroscopy and Microscopy: Fundamentals of Optical Measurements and Instrumentation	Y	Y	Y	11
55	<a href="#">102106082</a>	87	NOC:Thermodynamics for Biological Systems: Classical and Statistical Aspect	Y	Y	Y	39
56	<a href="#">102103083</a>	45	NOC:Experimental Biotechnology	Y	Y	Y	26
57	<a href="#">102105083</a>	60	NOC:Immunology	---	Y	---	23
58	<a href="#">102106084</a>	28	NOC:Introduction to Developmental Biology	Y	Y	Y	5.4
59	<a href="#">102106083</a>	81	NOC:Transport Phenomena in Biological Systems	Y	Y	Y	11
60	<a href="#">102103086</a>	24	NOC:Biointerface Engineering	---	Y	---	3.2
61	<a href="#">102104086</a>	36	NOC:Conservation Economics	Y	Y	Y	11
62	<a href="#">102105086</a>	37	NOC:Metabolic Engineering	Y	Y	Y	4.2
63	<a href="#">102105087</a>	63	NOC:Environmental Chemistry and Microbiology	Y	Y	Y	6.8
64	<a href="#">102106086</a>	40	NOC:Bioreactor Design and Analysis	Y	Y	---	2.6
65	<a href="#">102106087</a>	34	NOC:Biochemistry (IITM)	Y	Y	---	3.9
66	<a href="#">102107086</a>	60	NOC:Structural Biology	---	Y	---	20
67	<a href="#">102108086</a>	33	NOC:Cell Biology: Cellular Organization, Division and Processes	Y	Y	Y	2.9
68	<a href="#">102104088</a>	36	NOC:Conservation Geography	Y	Y	Y	8.4
69	<a href="#">102105088</a>	52	NOC:Environmental Biotechnology	---	Y	---	8.3
70	<a href="#">102105089</a>	60	NOC:Fundamentals of Protein Chemistry	Y	Y	Y	5.3
71	<a href="#">102105090</a>	53	NOC:Introduction to Biomedical Imaging Systems	---	Y	---	7.1
72	<a href="#">102101091</a>	61	NOC:Maternal Infant Young Child Nutrition	Y	Y	Y	8.0
73	<a href="#">102103091</a>	50	NOC:Basics of Biology	Y	Y	Y	9.8
74	<a href="#">102103092</a>	49	NOC:Data Analysis for Biologists	Y	Y	Y	8.3
75	<a href="#">102103093</a>	49	NOC:Genome Editing and Engineering	---	Y	---	4.8
76	<a href="#">102106093</a>	60	NOC:Cellular Biophysics: A Framework for Quantitative Biology	Y	Y	Y	3.3
77	<a href="#">102106094</a>	51	NOC:Medical Image Analysis	Y	Y	Y	3.6
78	<a href="#">102106095</a>	37	NOC:Organ Printing	---	Y	---	3.3
79	<a href="#">102106096</a>	58	NOC:Introduction to Cell Biology	Y	Y	Y	3.0
80	<a href="#">102101097</a>	62	NOC:Maternal Infant Young Child Nutrition (Hindi)	---	Y	---	8.9
81	<a href="#">102103097</a>	47	NOC:Enzyme Sciences and Technology	Y	Y	---	9.7
82	<a href="#">102106097</a>	62	NOC:RNA Biology	Y	Y	Y	9.8
83	<a href="#">102106098</a>	84	NOC:Biomechanics	Y	Y	---	6.6
84	<a href="#">102104099</a>	34	NOC:Neurobiology	Y	Y	---	1.0

85	<a href="#">102105099</a>	60	NOC:Next Generation Sequencing Technologies: Data Analysis and Applications	---	Y	---	4.9
86	<a href="#">102105100</a>	60	NOC:Computational Neuroscience	---	Y	---	5.1
87	<a href="#">102105101</a>	20	NOC:Electrophysiology of Heart	---	Y	---	1.9
88	<a href="#">102103341</a>	---	NOC:Molecular Biology	---	---	---	---
89	<a href="#">102105342</a>	---	NOC:Pharmacognosy and Metabolic Engineering	---	---	---	---
90	<a href="#">102106339</a>	---	NOC:Computational Genomics	---	---	---	---
91	<a href="#">102106340</a>	---	NOC:Human Physiology	---	---	---	---
92	<a href="#">102106343</a>	---	NOC:I Think Biology	---	---	---	---
93	<a href="#">102106345</a>	---	NOC:Classics in Neuroscience	---	---	---	---
94	<a href="#">102108344</a>	---	NOC:Microsensors, Implantable Devices and Rodent Surgeries for Biomedical Applications	---	---	---	---

**Discipline : Chemical Engineering**

[Go to Top](#)

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

1	<a href="#">103101001</a>	41	Advanced Chemical Reaction Engineering (PG)	Y	Y	Y	31
2	<a href="#">103101003</a>	26	Advanced Process Control	Y	Y	Y	34
3	<a href="#">103101008</a>	39	Chemical Reaction Engineering II	Y	Y	Y	34
4	<a href="#">103101111</a>	49	Advanced Numerical Analysis	Y	Y	Y	41
5	<a href="#">103102012</a>	40	Heterogeneous Catalysis and Catalytic Processes	Y	Y	Y	19
6	<a href="#">103103034</a>	39	Mass Transfer Operations I	Y	Y	Y	14
7	<a href="#">103103039</a>	46	Process Design Decisions and Project Economics	Y	Y	Y	27
8	<a href="#">103104044</a>	40	Fluid Mechanics	Y	Y	Y	15
9	<a href="#">103104046</a>	40	Mass Transfer II	Y	Y	Y	16
10	<a href="#">103104050</a>	41	Plantwide Control of Chemical Processes	Y	Y	Y	16
11	<a href="#">103105054</a>	40	Biochemical Engineering	Y	Y	Y	8.5
12	<a href="#">103105057</a>	40	Microscale Transport Processes	Y	Y	Y	12
13	<a href="#">103105059</a>	40	Multiphase Flow	Y	Y	Y	11
14	<a href="#">103105061</a>	41	Novel Separation Processes	Y	Y	Y	19
15	<a href="#">103105064</a>	44	Process Control and Instrumentation	Y	Y	Y	11
16	<a href="#">103105066</a>	40	Instability and Patterning of Thin Polymer Films	Y	Y	Y	12
17	<a href="#">103105106</a>	41	Advanced Mathematical Techniques in Chemical Engineering	Y	Y	Y	12
18	<a href="#">103106070</a>	35	Chemical Engineering Thermodynamics	Y	Y	Y	3.1
19	<a href="#">103106073</a>	47	Computational Fluid Dynamics	Y	Y	Y	21
20	<a href="#">103106074</a>	40	Computational Techniques	Y	Y	Y	20
21	<a href="#">103106103</a>	40	Particle Characterization (PG)	Y	Y	Y	16
22	<a href="#">103106113</a>	45	Multiphase flows:Analytical solutions and Stability Analysis	Y	Y	Y	34
23	<a href="#">103106114</a>	59	NOC:Introduction to Time-Frequency Analysis and Wavelet Transforms	Y	Y	Y	5.3
24	<a href="#">103107081</a>	40	Chemical Technology - I	Y	Y	Y	29
25	<a href="#">103107093</a>	43	Process Integration	Y	Y	Y	55

26	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	<a href="#">103105139</a>	60	NOC:Optimization in Chemical Engineering	Y	Y	Y	19
63	<a href="#">103105140</a>	60	NOC:Heat Transfer (2018)	Y	Y	Y	18
64	<a href="#">103107139</a>	60	NOC:Introduction to Polymer Physics (IIT-R)	Y	Y	Y	11
65	<a href="#">103108139</a>	21	NOC:Infrared Spectroscopy for Pollution Monitoring	Y	Y	Y	5.2
66	<a href="#">103101141</a>	60	NOC:Chemical Reaction Engineering-II	Y	Y	Y.	37
67	<a href="#">103101142</a>	48	NOC:Chemical Process Control	Y	Y	Y	17
68	<a href="#">103103144</a>	42	NOC:Chemical Engineering Thermodynamics	Y	Y	Y	13
69	<a href="#">103103145</a>	41	NOC:Mass Transfer Operations-I	Y	Y	Y	27
70	<a href="#">103103146</a>	41	NOC:Transport Phenomena of Non-Newtonian Fluids	Y	Y	Y	6.6
71	<a href="#">103103147</a>	33	NOC:Fluid Flow Operations	Y	Y	Y	20
72	<a href="#">103106148</a>	52	NOC:Process Control - Design, Analysis and Assessment	Y	Y	Y	68
73	<a href="#">103107143</a>	20	NOC:Equipment Design: Mechanical Aspects	Y	Y	Y	4.0
74	<a href="#">103106149</a>	121	System Identification	Y	Y	---	153
75	<a href="#">103103152</a>	35	NOC:Chemical Process Intensification	Y	Y	Y	22
76	<a href="#">103103153</a>	30	NOC:Chemical Reaction Engineering - I	Y	Y	Y	17
77	<a href="#">103103154</a>	32	NOC:Mass Transfer Operations II	Y	Y	Y	19
78	<a href="#">103103155</a>	37	NOC:Mechanical Unit Operations	Y	Y	Y	26
79	<a href="#">103104151</a>	63	NOC:Chemical Engineering Thermodynamics	Y	Y	Y	15
80	<a href="#">103105160</a>	60	NOC:Flow through Porous Media	Y	Y	Y	16
81	<a href="#">103105161</a>	60	NOC:Fundamentals of Particle and Fluid Solid Processing	Y	Y	Y	16
82	<a href="#">103106158</a>	70	NOC:Fluid and Particle Mechanics	Y	Y	Y	90
83	<a href="#">103106159</a>	116	NOC:Continuum Mechanics and Transport Phenomena	Y	Y	Y	84
84	<a href="#">103107156</a>	60	NOC:Chemical Process Safety	Y	Y	Y	9.9
85	<a href="#">103107157</a>	40	NOC:Technologies For Clean And Renewable Energy Production	Y	Y	Y	8.3
86	<a href="#">103102016</a>	37	Interfacial Engineering	---	Y	---	8.7
87	<a href="#">103103162</a>	31	NOC:Advanced Thermodynamics	Y	Y	Y	25
88	<a href="#">103103165</a>	35	NOC:Basic Principles and Calculations in Chemical Engineering	Y	Y	Y	15
89	<a href="#">103103164</a>	37	NOC:Computer Aided Applied Single Objective Optimization	Y	Y	Y	20
90	<a href="#">103108162</a>	35	NOC:Electrochemical Technology in Pollution Control	Y	Y	Y	21
91	<a href="#">103106162</a>	61	NOC:Environmental Quality Monitoring and Analysis	Y	Y	Y	51
92	<a href="#">103103163</a>	36	NOC:Membrane Technology	Y	Y	Y	17
93	<a href="#">105106204</a>	48	NOC:Colloids and Surfaces	Y	Y	Y	9.2
94	<a href="#">103105166</a>	60	NOC:Plant Design and Economics	---	Y	---	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	---
99	<a href="#">103107207</a>	60	NOC:Process Equipment Design	Y	Y	---	11

100	103107208	60	NOC:Advanced Thermodynamics and Molecular Simulations	Y	Y	Y	12
101	103101209	61	NOC:Introduction to Interfacial Waves	---	Y	---	5.4
102	103103209	35	NOC:Aspen Plus® Simulation Software-A basic course for beginners	Y	Y	Y	6.3
103	103105209	60	NOC:Material and Energy Balance Computations	Y	Y	---	6.9
104	103105210	64	NOC:Principles and Practices of Process Equipment and Plant Design	Y	Y	---	7.2
105	103102211	65	NOC:Fluid Mechanics and its Applications	---	Y	Y	3.4
106	103103211	25	NOC:Physical and Electrochemical Characterizations in Chemical Engineering	---	Y	---	3.3
107	103107211	60	NOC:Chemical Process Utilities	Y	Y	Y	6.2
108	103107212	60	NOC:Physico-Chemical Processes for Waste Water Treatment	Y	Y	Y	6.1
109	103103031	40	Heat Transfer	---	Y	Y	20
110	103101215	69	NOC:Hydrogen Energy:Production,Storage,Transportation and Safety	Y	Y	Y	7.8
111	103105215	60	NOC:Mathematical Modelling and Simulation of Chemical Engineering Process	---	Y	Y	5.2
112	103105216	60	NOC:Advanced Process Dynamics	Y	Y	Y	7.0
113	103106214	40	Synthetic and Natural Supramolecular Architectures: An Approach Towards Molecular Technology	---	Y	---	6.1
114	103107215	60	NOC:Basic Environmental Engineering and Pollution Abatement	Y	Y	Y	5.6
115	103103217	43	NOC:Chemical Process Technology	---	Y	---	4.5
116	103103218	35	NOC:Inorganic Chemical Technology	Y	Y	---	5.7
117	103105217	40	NOC:Metallocene and Metal-Carbene based Organometallic Compounds as Industrially Important Advanced Polyolefin Catalysts	Y	Y	---	4.2
118	103105218	60	NOC:Chemical Engineering Fluid Dynamics and Heat Transfer	Y	Y	Y	5.0
119	103105219	60	NOC:Characterization of Polymers, Elastomers and Composites	---	Y	---	8.2
120	103107217	40	NOC:Biological Process Design for Wastewater Treatment	---	Y	---	3.9
121	103103220	35	NOC:Organic Chemical Technology	---	Y	---	6.7
122	103103221	36	NOC:Solid-Fluid Operations	---	Y	---	5.5
123	103103222	30	NOC:Energy Conversion Technologies (Biomass and Coal)	---	Y	---	3.4
124	103103223	21	NOC:Petroleum Reservoir Engineering	---	Y	---	3.7
125	103105220	60	NOC:Matlab-Based Programming Lab in Chemical Engineering	---	Y	---	6.5
126	103105221	40	NOC:Petroleum Technology	---	Y	---	4.3
127	103105222	48	NOC:Rheology and Processing of Paints, Plastic and Elastomer Based Composites	---	Y	---	6.3
128	103105223	60	NOC:Petroleum Formation Evaluation	---	Y	---	5.4
129	103106220	62	NOC:Artificial Lift	---	Y	---	6.4
130	103107220	60	NOC:Advanced Reaction Engineering	---	Y	---	7.2
131	103107221	60	NOC:Polymer Process Engineering	---	Y	---	7.0
132	103108220	60	NOC:Transport Processes	---	Y	---	8.3
133	103101354	---	NOC:Modeling Stochastic Phenomena for Engineering Applications: Part-1	---	---	---	---

134	103102352	---	NOC:Computational Process Design	---	---	---	---
135	103103355	---	NOC:Applied Statistical Thermodynamics	---	---	---	---
136	103105353	---	NOC:Momentum Transfer in Fluids	---	---	---	---
<b>Discipline : Chemistry and Biochemistry</b>							
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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 Immunolgy	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	<a href="#">104105086</a>	40	NOC:Stereochemistry	Y	Y	Y	11
32	<a href="#">104104086</a>	55	NOC:Advanced Mathematical Methods for Chemistry	Y	Y	Y	38
33	<a href="#">104101092</a>	20	NOC:Metal Mediated Synthesis - I	Y	Y	Y	19
34	<a href="#">104105088</a>	40	NOC:Introduction to Molecular Thermodynamics	Y	Y	Y	12
35	<a href="#">104101090</a>	60	NOC:Chemistry of Main Group Elements	Y	Y	Y	53
36	<a href="#">104101091</a>	60	NOC:Transition Metal Organometallic Chemistry: Principles to Applications	Y	Y	Y	54
37	<a href="#">104105087</a>	60	NOC:A Study Guide In Organic Retrosynthesis: Problem Solving Approach	Y	Y	Y	16
38	<a href="#">104106089</a>	55	NOC:Introduction to Chemical Thermodynamics and Kinetics	Y	Y	Y	29
39	<a href="#">104101093</a>	60	NOC:Inorganic Chemistry of Life: Principles and Perspectives	Y	Y	Y	42
40	<a href="#">104101094</a>	68	NOC:Symmetry and Group Theory	Y	Y	Y	32
41	<a href="#">104101095</a>	41	NOC:Computational Chemistry and Classical Molecular Dynamics	Y	Y	Y	28
42	<a href="#">104105093</a>	40	NOC:Molecules in Motion	Y	Y	Y	11
43	<a href="#">104106093</a>	62	NOC:Chemical Crystallography	Y	Y	Y	66
44	<a href="#">104106094</a>	44	NOC:Advanced Chemical Thermodynamics and Kinetics	Y	Y	Y	63
45	<a href="#">104106096</a>	56	NOC:Chemistry: Atomic Structure and Chemical Bonding	Y	Y	Y	37
46	<a href="#">104101099</a>	63	NOC:Molecular Spectroscopy: A Physical Chemists Perspective	Y	Y	Y*	43
47	<a href="#">104101100</a>	60	NOC:Advanced Transition Metal Organometallic Chemistry	Y	Y	Y	57
48	<a href="#">104104101</a>	60	NOC:Solid State Chemistry	Y	Y	Y	22
49	<a href="#">104105102</a>	53	NOC:Experimental Biochemistry	Y	Y	Y	24
50	<a href="#">104105103</a>	60	NOC:Industrial Inorganic Chemistry	Y	Y	Y	17
51	<a href="#">104105104</a>	20	NOC:Reactive Intermediates Carbene and Nitrene	Y	Y	Y	5.1
52	<a href="#">104106105</a>	52	NOC:Electrochemical Impedance Spectroscopy	Y	Y	Y	69
53	<a href="#">104106106</a>	69	NOC:Medicinal Chemistry	Y	Y	Y	78
54	<a href="#">104106107</a>	68	NOC:Chemical Principles-II	Y	Y	Y	74
55	<a href="#">104108097</a>	42	NOC:Multidimensional NMR Spectroscopy for Structural Studies of Biomolecules	Y	Y	Y	3.9
56	<a href="#">104108098</a>	61	NOC:Symmetry and Structure in the Solid State	Y	Y	Y	18
57	<a href="#">104106108</a>	8	Organic Chemistry Lab Certification	---	Y	---	18
58	<a href="#">104101115</a>	40	NOC:Mechanisms in Organic Chemistry	Y	Y	Y	33
59	<a href="#">104101116</a>	38	NOC:Metals In Biology	Y	Y	Y	34
60	<a href="#">104101117</a>	60	NOC:NMR spectroscopy for Chemists and Biologists	Y	Y	Y	47
61	<a href="#">104102113</a>	34	NOC:Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Y	Y	Y	30
62	<a href="#">104102114</a>	15	NOC:Introductory Non-Linear Dynamics	Y	Y	Y	8.0
63	<a href="#">104103110</a>	30	NOC:Principles Of Organic Synthesis	Y	Y	Y	27
64	<a href="#">104103111</a>	32	NOC:Reagents In Organic Synthesis	Y	Y	Y	19
65	<a href="#">104103112</a>	37	NOC:Thermodynamics: Classical to Statistical	Y	Y	Y	4.8
66	<a href="#">104104109</a>	20	NOC:Bioinorganic Chemistry	Y	Y	Y	12
67	<a href="#">104105120</a>	63	NOC:Organic Chemistry in Biology and Drug Development	Y	Y	Y	27

68	<a href="#">104106119</a>	52	NOC:Introductory Organic Chemistry I	Y	Y	Y	56
69	<a href="#">104108118</a>	43	NOC:Ultrafast Optics and Spectroscopy	Y	Y	Y	6.5
70	<a href="#">104102009</a>	42	Bio-Physical Chemistry	Y	Y	---	46
71	<a href="#">104101121</a>	19	NOC:Basics in Inorganic Chemistry	Y	Y	Y	11
72	<a href="#">104103121</a>	35	NOC:Essentials of Biomolecules: Nucleic Acids and Peptides	Y	Y	Y	18
73	<a href="#">104106122</a>	61	NOC:Fundamentals of Spectroscopy	Y	Y	Y	41
74	<a href="#">104106121</a>	51	NOC:Quantitative Methods in Chemistry	Y	Y	Y	39
75	<a href="#">104101123</a>	60	NOC:Transition Metal Organometallics in Catalysis and Biology	Y	Y	Y	44
76	<a href="#">104101122</a>	67	NOC:Ultrafast Laser Spectroscopy	Y	Y	Y	55
77	<a href="#">104101125</a>	61	NOC:Basic Statistical Mechanics	Y	Y	Y	14
78	<a href="#">104105124</a>	42	NOC:Introduction to Polymer Science	Y	Y	Y	22
79	<a href="#">104108124</a>	65	NOC:One and Two Dimensional NMR Spectroscopy for Chemists	Y	Y	Y	4.5
80	<a href="#">104101124</a>	67	NOC:Quantum Chemistry of Atoms and Molecules	Y	Y	Y	37
81	<a href="#">104101126</a>	38	NOC:Quantum Mechanics and Molecular Spectroscopy	Y	Y	Y	9.0
82	<a href="#">104101127</a>	60	NOC:Essentials of Oxidation, Reduction and C-C Bond Formation. Application in Organic Synthesis	Y	Y	Y	5.1
83	<a href="#">104101128</a>	46	NOC:Chemical Kinetics and Transition State Theory	---	Y	---	4.2
84	<a href="#">104105127</a>	40	NOC:Structure, Stereochemistry and Reactivity of Organic Compounds and Intermediates: A Problem Solving Approach	Y	Y	---	7.3
85	<a href="#">104105128</a>	42	NOC:Approximate Methods in Quantum Chemistry	Y	Y	Y	3.4
86	<a href="#">104106127</a>	56	NOC:Symmetry, Stereochemistry and Applications	Y	Y	Y	3.8
87	<a href="#">104106128</a>	64	NOC:Symmetry and Group Theory (2021)	Y	Y	Y	3.5
88	<a href="#">104101130</a>	77	NOC:Concepts of Chemistry for Engineering	Y	Y	Y	9.2
89	<a href="#">104104130</a>	40	NOC:Chemistry and Physics of Surfaces and Interfaces	Y	Y	---	4.1
90	<a href="#">104105130</a>	60	NOC:Biological Inorganic Chemistry	---	Y	---	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	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	---	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	---	6.7
102	<a href="#">104105139</a>	60	NOC:Overview and Integration of Cellular Metabolism	---	Y	---	6.8
103	<a href="#">104101362</a>	---	NOC:Interpretative Molecular Spectroscopy	---	---	---	---
104	<a href="#">104101366</a>	---	NOC:Many Body Methods in Quantum Chemistry	---	---	---	---

105	<a href="#">104104364</a>	---	NOC:Supramolecular Chemistry-I	---	---	---	---
106	<a href="#">104105365</a>	---	NOC:Elementary Thermodynamics for All	---	---	---	---
107	<a href="#">104108363</a>	---	NOC:One and Two Dimensional NMR Spectroscopy: Concepts and Spectral Analysis	---	---	---	---
<b>Discipline : Civil Engineering</b>							
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1	<a href="#">105101005</a>	38	Soil Dynamics	Y	Y	Y	19
2	<a href="#">105101006</a>	38	Structural Dynamics	Y	Y	Y	19
3	<a href="#">105101010</a>	40	Watershed Management	Y	Y	Y	41
4	<a href="#">105101082</a>	42	Fluid Mechanics	Y	Y	Y	9.6
5	<a href="#">105101084</a>	57	Soil Mechanics	Y	Y	Y	15
6	<a href="#">105101086</a>	40	Structural Analysis II	Y	Y	Y	9.8
7	<a href="#">105101134</a>	43	Geotechnical Earthquake Engineering	Y	Y	Y	37
8	<a href="#">105101143</a>	63	Geosynthetics Engineering: In Theory and Practice	Y	Y	Y	59
9	<a href="#">105102012</a>	41	Concrete Technology	Y	Y	Y	37
10	<a href="#">105102016</a>	30	Seismic Analysis of Structures	Y	Y	Y	27
11	<a href="#">105102088</a>	41	Building Materials and Construction	Y	Y	Y	12
12	<a href="#">105103021</a>	43	Advanced Hydraulics	Y	Y	Y	22
13	<a href="#">105103094</a>	40	Design of Steel Structures	Y	Y	---	9.1
14	<a href="#">105103096</a>	40	Hydraulics	Y	Y	Y	20
15	<a href="#">105104029</a>	44	Advanced Hydrology	Y	Y	Y	21
16	<a href="#">105104030</a>	40	Concrete Engineering and Technology	Y	Y	Y	16
17	<a href="#">105104099</a>	39	Environmental Air Pollution	Y	Y	Y	7.0
18	<a href="#">105104101</a>	40	Surveying	Y	Y	Y	6.8
19	<a href="#">105104103</a>	29	Water Resources Engineering	Y	Y	Y	3.5
20	<a href="#">105104131</a>	40	Geotechnical Measurements and Explorations	Y	Y	Y	11
21	<a href="#">105104135</a>	40	Application of Soil Mechanics	Y	Y	Y	11
22	<a href="#">105105039</a>	40	Advanced Foundation Engineering	Y	Y	Y	12
23	<a href="#">105105043</a>	40	Numerical Methods in Civil Engineering	Y	Y	Y	11
24	<a href="#">105105045</a>	40	Probability Methods in Civil Engineering	Y	Y	Y	19
25	<a href="#">105105105</a>	30	Design of Reinforced Concrete Structures	Y	Y	Y	6.3
26	<a href="#">105105106</a>	40	Engineering Geology	Y	Y	Y	12
27	<a href="#">105105107</a>	41	Introduction to Transportation Engineering	Y	Y	Y	8.2
28	<a href="#">105105108</a>	40	Strength of Materials	Y	Y	Y	12
29	<a href="#">105106050</a>	41	Advanced Structural Analysis	Y	Y	Y	18
30	<a href="#">105106051</a>	40	Finite Element Analysis	Y	Y	Y	27
31	<a href="#">105106052</a>	40	Geosynthetics and Reinforced Soil Structures	Y	Y	Y	17
32	<a href="#">105106053</a>	42	Modern Construction Materials	Y	Y	Y	7.2

33	<a href="#">105106058</a>	40	Urban Transportation Planning	Y	Y	Y	19
34	<a href="#">105106116</a>	39	Mechanics of solids	Y	Y	Y	3.5
35	<a href="#">105106118</a>	40	Pre-stressed Concrete Structures	Y	Y	Y	11
36	<a href="#">105106119</a>	40	Water and Waste Water Engineering	Y	Y	Y	11
37	<a href="#">105107120</a>	40	Foundation Engineering	Y	Y	Y	7.8
38	<a href="#">105107121</a>	40	Modern Surveying Techniques	Y	Y	Y	1.9
39	<a href="#">105107123</a>	40	Transportation Engineering II	Y	Y	Y	8.2
40	<a href="#">105108075</a>	40	Ground Improvement Techniques	Y	Y	Y	11
41	<a href="#">105108079</a>	40	Stochastic Hydrology	Y	Y	Y	19
42	<a href="#">105108080</a>	42	Stochastic Structural Dynamics	Y	Y	Y	19
43	<a href="#">105108130</a>	40	Water Resources Systems : Modeling Techniques and Analysis	Y	Y	Y	20
44	<a href="#">105105042</a>	40	Ground Water Hydrology	Y	Y	Y	9.0
45	<a href="#">105101001</a>	60	Advanced Geotechnical Engineering	Y	Y	Y	53
46	<a href="#">105106145</a>	40	NOC:Sustainable River Basin Management	Y	Y	Y	2.8
47	<a href="#">105106149</a>	57	NOC:Project Planning and Control	Y	Y	Y	6.5
48	<a href="#">105105150</a>	25	NOC:Probability Methods in Civil Engineering	Y	Y	Y	2.8
49	<a href="#">105104147</a>	65	NOC:Geology and Soil Mechanics	Y	Y	Y	4.9
50	<a href="#">105104148</a>	32	NOC:Engineering Graphics	Y	Y	Y	1.6
51	<a href="#">105106151</a>	68	NOC:Structural Dynamics	Y	Y	Y	12
52	<a href="#">105104152</a>	20	NOC:Earth Sciences for Civil Engineering	Y	Y	Y	1.6
53	<a href="#">105108141</a>	40	Finite Element method for vibration and Stability analyses	Y	Y	Y	14
54	<a href="#">105107155</a>	20	NOC:Introduction to Geographic Information Systems	Y	Y	Y	5.3
55	<a href="#">105107156</a>	20	NOC:Principles and Applications of Building Science	Y	Y	Y	6.2
56	<a href="#">105107157</a>	20	NOC:GPS Surveying	Y	Y	Y	6.4
57	<a href="#">105105156</a>	20	NOC:Visual Semiotics for Visual Communication	Y	Y	Y	7.6
58	<a href="#">105104156</a>	20	NOC:Earth Sciences for Civil Engineering - Part 2	Y	Y	Y	2.1
59	<a href="#">105102159</a>	40	Water Management	Y	Y	Y	27
60	<a href="#">105107158</a>	40	NOC:Digital Land Surveying And Mapping	Y	Y	Y	11
61	<a href="#">105105157</a>	40	NOC:Life Cycle Assessment	Y	Y	Y	11
62	<a href="#">105104157</a>	32	NOC:Hydration, Porosity and Strength of Cementitious Materials	Y	Y	Y	2.4
63	<a href="#">105101160</a>	22	NOC:Geotechnical Engineering Laboratory	Y	Y	Y	11
64	<a href="#">105104160</a>	60	NOC:Mechanics of Solids	Y	Y	Y	4.6
65	<a href="#">105104161</a>	37	NOC:Principles of Construction Management	Y	Y	Y	5.4
66	<a href="#">105104162</a>	40	NOC:Foundation Design	Y	Y	Y	2.6
67	<a href="#">105105160</a>	62	NOC:Integrated Waste Management for a Smart City	Y	Y	Y	16
68	<a href="#">105105161</a>	51	NOC:Computational Hydraulics	Y	Y	Y	13
69	<a href="#">105105162</a>	63	NOC:Design of Steel Structures	Y	Y	Y	18
70	<a href="#">105105165</a>	20	NOC:Reinforced Concrete Road Bridges	Y	Y	Y	5.8

71	<a href="#">105105166</a>	61	NOC:Structural Analysis - I	Y	Y	Y	17
72	<a href="#">105107160</a>	20	NOC:Digital Image Processing of Remote Sensing Data	Y	Y	Y	5.2
73	<a href="#">105102160</a>	42	NOC:Geoenvironmental Engineering (Environmental Geotechnology) Landfills, Slurry Ponds and Contaminated Sites	Y	Y	Y	29
74	<a href="#">105105169</a>	22	NOC:Electronic Waste Management: Issues And Challenges	Y	Y	Y	5.9
75	<a href="#">105107174</a>	20	NOC:Digital Elevation Models and Applications	Y	Y	Y	5.7
76	<a href="#">105104167</a>	21	NOC:Photogeology In Terrain Evaluation	Y	Y	Y	4.7
77	<a href="#">105102175</a>	55	NOC:Energy Efficiency, Acoustics and Daylighting in Building	Y	Y	Y	27
78	<a href="#">105106172</a>	102	NOC:Mechanics of Materials	Y	Y	Y	18
79	<a href="#">105107173</a>	60	NOC:Applied Environmental Microbiology	Y	Y	Y	15
80	<a href="#">105105168</a>	61	NOC:Soil Mechanics, Geotechnical Engineering-I	Y	Y	Y	15
81	<a href="#">105105170</a>	60	NOC:Mineral Resources: Geology, Exploration, Economics and Environment	Y	Y	Y	16
82	<a href="#">105105171</a>	64	NOC:Introduction to Mineral Processing	Y	Y	Y	17
83	<a href="#">105101176</a>	21	NOC:Geosynthetics Testing Laboratory	Y	Y	Y	20
84	<a href="#">105102176</a>	56	NOC:Fire Protection, Services and Maintenance Management of Building	Y	Y	Y	28
85	<a href="#">105103176</a>	36	NOC:Higher Surveying	Y	Y	Y	20
86	<a href="#">105103177</a>	36	NOC:Unsaturated Soil Mechanics	Y	Y	Y	9.3
87	<a href="#">105104177</a>	20	NOC:Photogeology In Terrain Evaluation - Part 2	Y	Y	Y	5.7
88	<a href="#">105104178</a>	38	NOC:Introduction to Accounting and Finance for Civil Engineers	Y	Y	Y	11
89	<a href="#">105105176</a>	60	NOC:Foundation Engineering	Y	Y	Y	18
90	<a href="#">105105177</a>	60	NOC:Theory of Elasticity	Y	Y	Y	17
91	<a href="#">105105178</a>	62	NOC:Wastewater Treatment and Recycling	Y	Y	Y	15
92	<a href="#">105105179</a>	40	NOC:Fluid Inclusion in Mineral Principles, Methodology, Practice and Application	Y	Y	Y	12
93	<a href="#">105105180</a>	42	NOC:Matrix Method of Structural Analysis	Y	Y	Y	9.0
94	<a href="#">105106176</a>	44	NOC:Advanced Concrete Technology	Y	Y	Y	78
95	<a href="#">105106177</a>	87	NOC:Glass in buildings: Design and Application	Y	Y	Y	64
96	<a href="#">105106178</a>	75	NOC:Glass Processing Technology	Y	Y	Y	50
97	<a href="#">105107176</a>	60	NOC:Environmental Engineering-Chemical Processes	Y	Y	Y	12
98	<a href="#">105103182</a>	21	NOC:Subsurface Exploration: Importance and Techniques Involved	Y	Y	Y	8.8
99	<a href="#">105104183</a>	43	NOC:Natural Hazards - Part 1	Y	Y	Y*	14
100	<a href="#">105105184</a>	40	NOC:Plastic Waste Management	Y	Y	Y	11
101	<a href="#">105105185</a>	60	NOC:Geotechnical Engineering-II Foundation Engineering	Y	Y	Y	16
102	<a href="#">105105186</a>	43	NOC:Mass, Momentum and Energy Balances in Engineering Analysis	Y	Y	Y	11
103	<a href="#">105106187</a>	29	NOC:Advanced Topics in the Science and Technology of Concrete	Y	Y	Y	39
104	<a href="#">105106188</a>	47	NOC:Infrastructure Planning and Managements	Y	Y	Y	64
105	<a href="#">105107181</a>	59	NOC:Environmental Remediation of Contaminated Sites	Y	Y	Y	15
106	<a href="#">105101196</a>	53	NOC:Environmental Geotechnics	Y	Y	Y	17
107	<a href="#">105102195</a>	47	NOC:Sustainable Materials and Green Buildings	Y	Y	Y	23



108	105102199	12	NOC:Scheduling Techniques in Projects	Y	Y	Y	9.1
109	105103192	37	NOC:Fluid Mechanics	Y*	Y	Y*	15
110	105103193	24	NOC:Remote Sensing and GIS	Y	Y	Y	9.8
111	105104189	13	NOC:Structural Dynamics for Civil Engineers - SDOF systems	Y	Y	Y	6.4
112	105104190	38	NOC:Geomorphic Processes: Landforms and Landscapes	Y	Y	Y	13
113	105104191	48	NOC:Structural Geology	Y	Y	Y	38
114	105106197	40	NOC:Design of Masonry Structures	Y	Y	Y	85
115	105107194	20	NOC:Global Navigation Satellite Systems And Applications	Y	Y	Y	4.7
116	105106200	67	NOC:Characterization of Construction Materials	Y	Y	Y	53
117	105104200	57	NOC:Earthquake Geology: A tool for Seismic Hazard Assessment	Y	Y	Y	34
118	105101200	56	NOC:Environmental Geomechanics	Y	Y	Y	25
119	105107200	60	NOC:Geomorphology	Y	Y	Y	13
120	105105202	19	NOC:Geo Spatial Analysis in Urban Planning	Y	Y	Y	5.3
121	105101201	28	NOC:Geotechnical Engineering - 1	Y	Y	Y	47
122	105105203	63	NOC:Hydraulic Engineering	Y	Y	Y	17
123	105106201	20	NOC:Introduction to Civil Engineering Profession	Y	Y	Y	23
124	105106202	35	NOC:Maintenance and Repair of Concrete Structures	Y	Y	Y	26
125	105106203	56	NOC:Mechanical Characterization of Bituminous Materials	Y	Y	Y	40
126	105107201	56	NOC:Remote Sensing Essentials	Y	Y	Y	14
127	105105200	66	NOC:Soil Structure Interaction	Y	Y	Y	28
128	105105201	62	NOC:Water Supply Engineering	Y	Y	Y	20
129	105107204	40	NOC:Earthquake Resistant Design of Foundations	---	Y	---	5.9
130	105108204	64	NOC:Introduction to Engineering Seismology	Y	Y	---	9.9
131	105105204	60	NOC:Introduction to Multimodal Urban Transportation Systems	Y	Y	Y	17
132	105103205	43	NOC:Municipal Solid Waste Management	Y	Y	Y	9.7
133	105103204	24	NOC:River Engineering	Y	Y	Y	6.6
134	105101206	67	NOC:Remote Sensing: Principles and Applications	Y	Y	Y	16
135	105102206	27	NOC:Safety in Construction	Y	Y	Y	5.4
136	105103206	22	NOC:Construction Methods and Equipment Management	Y	Y	Y	4.7
137	105103207	57	NOC:Advanced Soil Mechanics	Y	Y	Y	5.7
138	105104206	32	NOC:Development and Applications of Special Concretes	Y	Y	Y	3.9
139	105105207	70	NOC:Advanced Foundation Engineering	Y	Y	Y	7.8
140	105105208	60	NOC:Urban Transport Systems Planning	Y	Y	---	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	---	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	---	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	---	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	<a href="#">105105224</a>	69	NOC:Geotechnical Earthquake Engineering	---	Y	---	7.7
185	<a href="#">105105225</a>	57	NOC:Earthquake Seismology	---	Y	---	5.0
186	<a href="#">105105226</a>	60	NOC:Engineering Geology	---	Y	---	8.6
187	<a href="#">105106224</a>	67	NOC:Advanced Reinforced Concrete Design	---	Y	---	8.3
188	<a href="#">105106225</a>	76	NOC:Admixtures and Special Concretes	---	Y	---	12
189	<a href="#">105107224</a>	60	NOC:Plate Tectonics	---	Y	---	9.5
190	<a href="#">105107225</a>	60	NOC:Earthquake Geotechnical Engineering	---	Y	---	7.3
191	<a href="#">105103346</a>	---	NOC:Applied Seismology for Engineers	---	---	---	---
192	<a href="#">105103347</a>	---	NOC:Structural Vibration	---	---	---	---
193	<a href="#">105104348</a>	---	NOC:Construction Management	---	---	---	---
194	<a href="#">105104349</a>	---	NOC:Laboratory Practices in Earth Sciences: Landscape Mapping	---	---	---	---
195	<a href="#">105105350</a>	---	NOC:Industrial Wastewater Treatment	---	---	---	---
196	<a href="#">105106351</a>	---	NOC:Advanced Topics in Science and Technology of Concrete	---	---	---	---

**Discipline : Computer Science and Engineering**

[Go to Top](#)

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

24	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	<a href="#">106105154</a>	21	NOC:Complex Network : Theory and Application	Y	Y	Y	5.1
63	<a href="#">106105153</a>	52	NOC:Object-Oriented Analysis and Design	Y	Y	Y	12
64	<a href="#">106105152</a>	44	NOC:Introduction to Machine Learning	Y	Y	Y	11
65	<a href="#">106105151</a>	56	NOC:Programming in C++	Y	Y	Y	13
66	<a href="#">106105150</a>	20	NOC:Software Testing	Y	Y	Y	4.7
67	<a href="#">106104148</a>	40	NOC:Theory of Computation	Y	Y	Y	3.7
68	<a href="#">106107155</a>	20	NOC:Introduction to Cryptology	Y	Y	Y	5.4
69	<a href="#">106104149</a>	18	NOC:Modern Algebra	Y	Y	Y	1.9
70	<a href="#">106106146</a>	34	NOC:Privacy and Security in Online Social Networks	Y	Y	Y	5.5
71	<a href="#">106106145</a>	45	NOC:Programming, Data Structures and Algorithms in Python	Y	Y	Y	2.5
72	<a href="#">106106144</a>	39	NOC:Introduction to Operating Systems	Y	Y	Y	13
73	<a href="#">106106147</a>	39	NOC:Mobile Computing	Y	Y	Y	4.6
74	<a href="#">106106143</a>	64	NOC:Reinforcement Learning	Y	Y	Y	36
75	<a href="#">106106156</a>	37	NOC:Introduction to Modern Application Development	Y	Y	Y	1.4
76	<a href="#">106105157</a>	20	Fundamental Algorithms:Design and Analysis	Y	Y	Y	5.2
77	<a href="#">106106158</a>	42	NOC:AI:Constraint Satisfaction	Y	Y	Y*	31
78	<a href="#">106102157</a>	33	NOC:Computer Architecture	Y	Y	Y	12
79	<a href="#">106106157</a>	60	NOC:Information Security-3	Y	Y	Y	20
80	<a href="#">106105160</a>	40	NOC:Wireless Ad Hoc and Sensor Networks	Y	Y	Y	9.9
81	<a href="#">106105158</a>	65	NOC:Natural Language Processing	Y	Y	Y	16
82	<a href="#">106105161</a>	64	NOC:VLSI Physical Design	Y	Y	Y	17
83	<a href="#">106105159</a>	49	NOC:Embedded Systems Design	Y	Y	Y	8.5
84	<a href="#">106105162</a>	60	NOC:Cryptography and Network Security	Y	Y	Y	15
85	<a href="#">106105163</a>	64	NOC:Computer Architecture and Organization	Y	Y	Y	18
86	<a href="#">106105164</a>	60	NOC:Introduction to Algorithms and Analysis	Y	Y	Y	15
87	<a href="#">106105165</a>	41	NOC:Hardware Modeling using Verilog	Y	Y	Y	11
88	<a href="#">106105166</a>	60	NOC:Introduction to Internet of Things	Y	Y	Y	13
89	<a href="#">106105167</a>	60	NOC:Cloud Computing	Y	Y	Y	12
90	<a href="#">106101163</a>	60	NOC:Software Testing	Y	Y	Y	28
91	<a href="#">106106166</a>	52	NOC:Computer Organization	Y	Y	Y	23
92	<a href="#">106106167</a>	56	NOC:Introduction to Wireless and Cellular Communications	Y	Y	Y	40
93	<a href="#">106102163</a>	84	NOC:Introduction to Parallel Programming in OpenMP	Y	Y	Y	4.8
94	<a href="#">106106168</a>	27	NOC:Distributed Systems	Y	Y	Y	2.6
95	<a href="#">106106169</a>	166	NOC:Social Networks	Y	Y	Y	43
96	<a href="#">106105172</a>	20	NOC:Real Time Operating System	Y	Y	Y	5.0
97	<a href="#">106106176</a>	26	NOC:An Introduction to Probability in Computing	Y	Y	Y	8.5
98	<a href="#">106104170</a>	23	NOC:Advanced Graph Theory	Y	Y	Y	11
99	<a href="#">106105173</a>	40	NOC:Introduction to Soft Computing	Y	Y	Y	10

100	<a href="#">106105174</a>	44	NOC:Data Mining	Y	Y	Y	11
101	<a href="#">106105175</a>	42	NOC:Data Base Management System	Y	Y	Y	13
102	<a href="#">106106177</a>	28	NOC:Introduction to Human Computer Interaction	Y	Y	Y	12
103	<a href="#">106106178</a>	60	NOC:Information Security - IV	Y	Y	Y	43
104	<a href="#">106106179</a>	50	NOC:Data Science for Engineers	Y	Y	Y	15
105	<a href="#">106103180</a>	39	NOC:Computer Organization and Architecture - A Pedagogical Aspect	Y	Y	Y	9.8
106	<a href="#">106105171</a>	61	NOC:Problem Solving through Programming in C	Y	Y	Y	15
107	<a href="#">106102181</a>	26	NOC:Synthesis of Digital Systems	Y	Y	Y	27
108	<a href="#">106101182</a>	22	NOC:Design and Pedagogy of the Introductory Programming Course	Y	Y	Y	17
109	<a href="#">106103182</a>	37	NOC:Embedded Systems-Design Verification and Test	Y	Y	Y	14
110	<a href="#">106103183</a>	29	NOC:Multi-Core Computer Architecture-Storage and Interconnects	Y	Y	Y	12
111	<a href="#">106104182</a>	21	NOC:Cloud Computing and Distributed Systems	Y	Y	Y	9.0
112	<a href="#">106105182</a>	60	NOC:Software Engineering	Y	Y	Y	15
113	<a href="#">106105183</a>	60	NOC:Computer Networks and Internet Protocol	Y	Y	Y	15
114	<a href="#">106105184</a>	60	NOC:Blockchain Architecture Design and Use Cases	Y	Y	Y	32
115	<a href="#">106105185</a>	60	NOC:Switching Circuits and Logic Design	Y	Y	Y	15
116	<a href="#">106105186</a>	40	NOC:Scalable Data Science	Y	Y	Y	8.0
117	<a href="#">106106182</a>	226	NOC:The Joy of Computing using Python	Y	Y	Y	44
118	<a href="#">106106183</a>	465	NOC:Discrete Mathematics	Y	Y	Y	31
119	<a href="#">106106184</a>	117	NOC:Deep Learning	Y	Y	Y	41
120	<a href="#">106103187</a>	40	NOC:Randomized Algorithms	Y	Y	Y	28
121	<a href="#">106103188</a>	37	NOC:Parallel Algorithms	Y	Y	Y	14
122	<a href="#">106104189</a>	34	NOC:Big Data Computing	Y	Y	Y	14
123	<a href="#">106105190</a>	61	NOC:Compiler Design	Y	Y	Y	16
124	<a href="#">106105191</a>	60	NOC:Programming in Java	Y	Y	Y	17
125	<a href="#">106105192</a>	60	NOC:Discrete Structures	Y	Y	Y	20
126	<a href="#">106105193</a>	42	NOC:Embedded System Design with ARM	Y	Y	Y	9.6
127	<a href="#">106105194</a>	60	NOC:Hardware Security	Y	Y	Y	16
128	<a href="#">106105195</a>	65	NOC:Introduction to Industry 4.0 and Industrial Internet of Things	Y	Y	Y	25
129	<a href="#">106105196</a>	60	NOC:Introduction to Automata, Languages and Computation	Y	Y	Y	15
130	<a href="#">106106197</a>	77	NOC:Foundations to Computer Systems Design	Y	Y	Y*	121
131	<a href="#">106106198</a>	106	NOC:Machine Learning for Engineering and Science Applications	Y	Y	Y	70
132	<a href="#">106106199</a>	59	NOC:Information Security 5 - Secure Systems Engineering	Y	Y	Y	27
133	<a href="#">106106200</a>	56	NOC:Multimodal Interaction	Y	Y	Y	30
134	<a href="#">106106201</a>	37	NOC:Deep Learning - Part 2	Y	Y	Y	18
135	<a href="#">106106202</a>	50	NOC:Machine Learning, ML	Y	Y	Y	21
136	<a href="#">106101208</a>	120	NOC:An Introduction to Programming Through C++	Y	Y	Y	47
137	<a href="#">106101209</a>	100	NOC:Demystifying Networking	Y	Y	Y	7.6

138	<a href="#">106103205</a>	43	NOC:Discrete Mathematics	Y	Y	Y	26
139	<a href="#">106103206</a>	33	NOC:Advanced Computer Architecture	Y	Y	Y	6.7
140	<a href="#">106105214</a>	60	NOC:Operating System Fundamentals	Y	Y	Y	16
141	<a href="#">106105215</a>	60	NOC:Deep Learning (2019)	Y	Y	Y	16
142	<a href="#">106105216</a>	60	NOC:Computer Vision	Y	Y	Y	17
143	<a href="#">106105217</a>	62	NOC:Ethical Hacking	Y	Y	Y	12
144	<a href="#">106105218</a>	60	NOC:Software Project Management	Y	Y	Y	16
145	<a href="#">106105219</a>	40	NOC:Spatial Informatics	Y	Y	Y	12
146	<a href="#">106106210</a>	22	NOC:C Programming and Assembly Language	Y	Y	Y	33
147	<a href="#">106106211</a>	92	NOC:Applied Natural Language Processing	Y	Y	Y	69
148	<a href="#">106106212</a>	40	NOC:Python for Data Science	Y	Y	Y	50
149	<a href="#">106106213</a>	38	NOC:Practical Machine Learning with Tensorflow	Y	Y	Y	21
150	<a href="#">106102132</a>	40	Operating Systems	Y	Y	Y	5.0
151	<a href="#">106102220</a>	96	NOC:An Introduction to Artificial Intelligence	Y	Y	Y	24
152	<a href="#">106104221</a>	24	NOC:Arithmetic Circuit Complexity	Y	Y	Y	21
153	<a href="#">106107220</a>	60	NOC:Data Analytics with Python	Y	Y	Y	4.4
154	<a href="#">106106221</a>	59	NOC:Foundations of Cryptography	Y	Y	Y	8.3
155	<a href="#">106105220</a>	63	NOC:GPU Architectures and Programming	Y	Y	Y	13
156	<a href="#">106104220</a>	29	NOC:Introduction to Blockchain Technology and Applications	Y	Y	Y	9.5
157	<a href="#">106106220</a>	41	NOC:Introduction to Database Systems	Y	Y	Y	32
158	<a href="#">106106222</a>	37	NOC:Modern Application Development (2020.S1)	Y	Y	Y	20
159	<a href="#">106103220</a>	31	NOC:User-centric Computing for Human-Computer Interaction	Y	Y	Y	22
160	<a href="#">106105223</a>	83	NOC:Google Cloud Computing Foundation Course	Y	Y	---	1.2
161	<a href="#">110101145</a>	60	NOC:Bandit Algorithm (Online Machine Learning)	Y	Y	Y	37
162	<a href="#">106103224</a>	32	NOC:Computer Graphics	Y	Y	Y	6.0
163	<a href="#">106105225</a>	60	NOC:Data Structure and Algorithms using Java	Y	Y	---	32
164	<a href="#">106106224</a>	79	NOC:Deep Learning for Computer Vision	Y	Y	Y	6.1
165	<a href="#">106105224</a>	60	NOC:Object Oriented System Development using UML, Java and Patterns	Y	Y	Y	19
166	<a href="#">106106226</a>	95	NOC:Artificial Intelligence Search Methods For Problem Solving	Y	Y	---	11
167	<a href="#">106104227</a>	41	NOC:Computational Complexity Theory	---	Y	---	9.5
168	<a href="#">106104228</a>	26	NOC:Randomized Methods in Complexity	Y	Y	Y	5.4
169	<a href="#">106108227</a>	72	NOC:Discrete Mathematics (IITB)	Y	Y	Y	5.2
170	<a href="#">106102229</a>	33	NOC:Advanced Computer Architecture	Y	Y	Y	3.6
171	<a href="#">106103229</a>	43	NOC:C-Based VLSI Design	---	Y	Y	5.6
172	<a href="#">106105229</a>	61	NOC:Real-Time Systems	Y	Y	Y	5.5
173	<a href="#">106105230</a>	60	NOC:Algorithms for Protein Modelling and Engineering	---	Y	---	7.0
174	<a href="#">106106229</a>	63	NOC:Computational Complexity	---	Y	---	6.2
175	<a href="#">106106230</a>	50	NOC:Parameterized Algorithms	---	Y	---	5.3

176	<a href="#">106106231</a>	54	NOC:Getting Started with Competitive Programming	Y	Y	Y	1.9
177	<a href="#">106106232</a>	25	NOC:Introduction to Quantum Computing: Quantum Algorithms and Qiskit	---	Y	---	1.8
178	<a href="#">106108229</a>	59	NOC:Secure Computation: Part I	Y	Y	Y	5.1
179	<a href="#">106104233</a>	32	NOC:Probability for Computer Science	---	Y	---	4.7
180	<a href="#">106101234</a>	55	NOC:Design and Engineering of Computer Systems	Y	Y	Y	5.6
181	<a href="#">106101235</a>	25	NOC:Software Conceptual Design	Y	Y	Y	0.4
182	<a href="#">106105234</a>	75	NOC:Programming in Modern C++	Y	Y	---	8.9
183	<a href="#">106105235</a>	60	NOC:Blockchain and its Applications	---	Y	---	7.1
184	<a href="#">106106234</a>	18	NOC:Systems and Usable Security	---	Y	---	1.4
185	<a href="#">106106235</a>	25	NOC:Online Privacy	Y	Y	---	4.0
186	<a href="#">106106236</a>	62	NOC:Introduction to Machine Learning (Tamil)	---	Y	---	3.6
187	<a href="#">106106237</a>	48	Compiler Design	---	Y	---	4.1
188	<a href="#">106101237</a>	62	NOC:Introduction to Game Theory and Mechanism Design	---	Y	---	3.3
189	<a href="#">106101238</a>	20	NOC:Introduction to Computer and Network Performance Analysis using Queuing Systems	---	Y	---	2.3
190	<a href="#">106102237</a>	28	NOC:Advanced Distributed systems	Y	Y	Y	3.5
191	<a href="#">106103237</a>	44	NOC:Design and Implementation of Human-Computer Interfaces	Y	Y	Y	5.8
192	<a href="#">106105237</a>	60	NOC:Algorithmic Game Theory	Y	Y	Y	4.2
193	<a href="#">106105238</a>	40	NOC:Machine Learning for Earth System Sciences	Y	Y	Y	4.3
194	<a href="#">106105239</a>	60	NOC:Statistical Learning for Reliability Analysis	Y	Y	Y	6.7
195	<a href="#">106106238</a>	61	NOC:Applied Accelerated Artificial Intelligence	Y	Y	Y	4.2
196	<a href="#">106106239</a>	74	NOC:Social Network Analysis	Y	Y	Y	5.5
197	<a href="#">106108237</a>	62	NOC:Secure Computation - Part II	Y	Y	Y	5.1
198	<a href="#">106104241</a>	60	NOC:Circuit Complexity Theory	---	Y	---	11
199	<a href="#">106104242</a>	22	NOC:Foundation of Cloud IoT Edge ML	Y	Y	---	4.9
200	<a href="#">106105241</a>	59	NOC:Foundations of Cyber Physical Systems	Y	Y	---	6.0
201	<a href="#">106105242</a>	60	NOC:Selected Topics in Algorithms	Y	Y	Y	3.6
202	<a href="#">106106241</a>	59	NOC:Quantum Algorithms and Cryptography	---	Y	---	5.2
203	<a href="#">106106242</a>	69	NOC:Theory of Computation (2023)	---	Y	---	12
204	<a href="#">106106243</a>	67	NOC:Advanced Computer Networks	---	Y	---	6.8
205	<a href="#">106106244</a>	39	NOC:Affective Computing	Y	Y	---	4.6
206	<a href="#">106106245</a>	36	NOC:Optimisation for Machine Learning: Theory and Implementation (Hindi)	---	Y	---	3.3
207	<a href="#">106106246</a>	82	ACM India - RBCDSAI Summer School on DS/AI/ML	---	Y	---	7.3
208	<a href="#">106105247</a>	40	NOC:Foundations and Applications of Machine Learning (Bengali)	---	Y	---	3.5
209	<a href="#">106106247</a>	55	NOC:Machine Learning (ML) in Hindi	---	Y	---	5.3
210	<a href="#">106106248</a>	42	NOC:Cyber Security and Privacy	---	Y	---	4.4
211	<a href="#">106103184</a>	48	NOC:Multi-Core Computer Architecture	---	Y	---	7.4



212	<a href="#">106101360</a>	---	NOC:Games and Information	---	---	---	---
213	<a href="#">106103358</a>	---	NOC:Digital Design with Verilog	---	---	---	---
214	<a href="#">106103359</a>	---	NOC:Parallel Computer Architecture	---	---	---	---
215	<a href="#">106104356</a>	---	NOC:Linear Programming and its Applications to Computer Science	---	---	---	---
216	<a href="#">106104357</a>	---	NOC:Basics of Computational Complexity	---	---	---	---
217	<a href="#">106104449</a>	---	NOC:Edge Computing	---	---	---	---
218	<a href="#">106106361</a>	---	NOC:Business Intelligence and Analytics	---	---	---	---

**Discipline : Engineering Design**

[Go to Top](#)

**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

**Discipline : Electrical Engineering**

[Go to Top](#)

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

1	<a href="#">108101002</a>	35	Nonlinear Dynamical Systems	Y	Y	Y	29
2	<a href="#">108101004</a>	45	Power System Dynamics and Control	Y	Y	Y	41
3	<a href="#">108101037</a>	47	Control Engineering (Prof. S.D. Agashe)	Y	Y	Y	13
4	<a href="#">108101038</a>	43	Power Electronics	Y	Y	Y	12
5	<a href="#">108102042</a>	51	Circuit Theory	Y	Y	Y	13
6	<a href="#">108102043</a>	41	Control Engineering (Prof. M. Gopal)	Y	Y	Y	9.2
7	<a href="#">108102045</a>	37	Embedded Systems	Y	Y	Y	9.4
8	<a href="#">108102047</a>	35	Power System Generation, Transmission and Distribution	Y	Y	Y	7.2

9	<a href="#">108102080</a>	40	Power System Dynamics	Y	Y	Y	9.8
10	<a href="#">108103007</a>	40	Advanced Control Systems	Y	Y	Y	17
11	<a href="#">108104011</a>	40	Advanced Electric Drives	Y	Y	Y	18
12	<a href="#">108104013</a>	37	High Voltage DC Transmission	Y	Y	Y	16
13	<a href="#">108104049</a>	32	Intelligent Systems and Control	Y	Y	Y	6.1
14	<a href="#">108104052</a>	35	Power Systems Operation and Control	Y	Y	Y	4.8
15	<a href="#">108105017</a>	40	Electrical Machines - I	Y	Y	Y	8.5
16	<a href="#">108105019</a>	60	Optimal Control	Y	Y	Y	12
17	<a href="#">108105054</a>	40	Chaos, Fractals and Dynamic Systems	Y	Y	Y	8.6
18	<a href="#">108105055</a>	35	Digital Signal Processing	Y	Y	Y	7.6
19	<a href="#">108105056</a>	34	Dynamics of Physical Systems	Y	Y	Y	7.4
20	<a href="#">108105058</a>	40	Energy Resources and Technology	Y	Y	Y	8.5
21	<a href="#">108105059</a>	30	Estimation of Signals and Systems	Y	Y	Y	6.1
22	<a href="#">108105060</a>	20	Illumination Engineering	Y	Y	Y	4.1
23	<a href="#">108105062</a>	40	Industrial Automation and Control	Y	Y	Y	12
24	<a href="#">108105064</a>	40	Industrial Instrumentation	Y	Y	Y	12
25	<a href="#">108105065</a>	36	Networks Signals and Systems	Y	Y	Y	11
26	<a href="#">108105067</a>	40	Power System Analysis	Y	Y	Y	12
27	<a href="#">108106023</a>	43	Modelling and Analysis of Electric Machines	---	Y	Y	19
28	<a href="#">108106068</a>	28	Analog ICs	Y	Y	Y	6.1
29	<a href="#">108106069</a>	40	Digital Integrated Circuits	Y	Y	Y	9.2
30	<a href="#">108106073</a>	42	Electromagnetic Fields	Y	Y	Y	11
31	<a href="#">108106075</a>	50	Networks and Systems	Y	Y	Y	12
32	<a href="#">108106083</a>	96	Probability Foundation for Electrical Engineers	Y	Y	Y	36
33	<a href="#">108108031</a>	42	An Introduction to Electronics Systems Packaging	Y	Y	Y	20
34	<a href="#">108108034</a>	40	Power Electronics and Distributed Generation	Y	Y	Y	14
35	<a href="#">108108035</a>	40	Pulse width Modulation for Power Electronic Converters	Y	Y	Y	12
36	<a href="#">108108036</a>	40	Switched Mode Power Conversion	Y	Y	Y	19
37	<a href="#">108108076</a>	39	Basic Electrical Technology	Y	Y	Y	11
38	<a href="#">108108077</a>	37	Industrial Drives - Power Electronics	Y	Y	Y	7.6
39	<a href="#">108106084</a>	131	NOC:Analog Circuits	Y	Y	Y	8.7
40	<a href="#">108106085</a>	29	NOC:Introduction to Non Linear Dynamics	Y	Y	Y	0.5
41	<a href="#">108105088</a>	52	NOC:Industrial Automation and Control	Y	Y	Y	13
42	<a href="#">108104087</a>	85	NOC:Electromagnetic Theory	Y	Y	Y	4.6
43	<a href="#">108101089</a>	28	Fabrication of Silicon VLSI Circuits using the MOS technology	Y	Y	Y	31
44	<a href="#">108101090</a>	83	NOC:Computational Electromagnetics and Applications	Y	Y	Y	29
45	<a href="#">108101092</a>	60	NOC:Antennas	Y	Y	Y	22
46	<a href="#">108101094</a>	41	NOC:Analog Circuits	Y	Y	Y	14

47	<a href="#">108101093</a>	71	NOC:Fundamentals of Wavelets, Filter Banks and Time Frequency Analysis	Y	Y	Y	21
48	<a href="#">108101091</a>	72	NOC:Basic Electronics	Y	Y	Y	3.5
49	<a href="#">108104092</a>	33	NOC:An Introduction to Coding Theory	Y	Y	Y	2.6
50	<a href="#">108102095</a>	51	Analog Electronic Circuits	Y	Y	Y	63
51	<a href="#">108102096</a>	38	Digital Communication	Y	Y	Y	62
52	<a href="#">108102097</a>	40	Introduction To Electronic Circuits	Y	Y	Y	32
53	<a href="#">108105091</a>	20	NOC:Medical Image Analysis	Y	Y	Y	6.0
54	<a href="#">108104091</a>	52	NOC:Principles of Communication - Part I	Y	Y	Y	2.8
55	<a href="#">108107098</a>	40	NOC:Optimal Control	Y	Y	Y	9.7
56	<a href="#">108106098</a>	55	NOC:Control Engineering	Y	Y	Y	23
57	<a href="#">108104098</a>	56	NOC:Principles of Communication Systems - Part II	Y	Y	Y	3.1
58	<a href="#">108104099</a>	66	NOC:Applied Engineering Electromagnetics	Y	Y	Y	4.3
59	<a href="#">108108098</a>	31	NOC:Design for Internet of Things	Y	Y	Y	13
60	<a href="#">108108099</a>	40	NOC:Advances in UHV Transmission and Distribution	Y	Y	Y	10
61	<a href="#">108103108</a>	24	NOC:Optimization Techniques for Digital VLSI Design	Y	Y	Y	9.5
62	<a href="#">108108110</a>	34	NOC:Electronics Enclosures Thermal Issues	Y	Y	Y	10
63	<a href="#">108106106</a>	73	NOC:Probability Foundations for Electrical Engineers	Y	Y	Y	74
64	<a href="#">108105104</a>	61	NOC:Power System Engineering	Y	Y	Y	16
65	<a href="#">108104100</a>	75	NOC:Principles of Signals and Systems	Y	Y	Y	16
66	<a href="#">108105103</a>	60	NOC:Deep Learning for Visual Computing	Y	Y	Y	13
67	<a href="#">108105101</a>	68	NOC:Biomedical Signal Processing	Y	Y	Y	17
68	<a href="#">108105102</a>	64	NOC:Microprocessors and Microcontrollers	Y	Y	Y	15
69	<a href="#">108108109</a>	79	NOC:Mathematical Methods and Techniques in Signal Processing	Y	Y	Y	19
70	<a href="#">108108111</a>	59	NOC:Integrated Circuits, MOSFETs, Op-Amps and their Applications	Y	Y	Y	20
71	<a href="#">108101112</a>	60	NOC:Microwave Theory and Techniques	Y	Y	Y	49
72	<a href="#">108101113</a>	65	NOC:Principles of Digital Communications	Y	Y	Y	56
73	<a href="#">108102112</a>	40	NOC:Analog Electronic Circuit	Y	Y	Y	34
74	<a href="#">108102113</a>	10	NOC:Nonlinear and Adaptive Control	Y	Y	Y	8.1
75	<a href="#">108103112</a>	24	NOC:Advanced Topics in Probability and Random Processes	Y	Y	Y	4.0
76	<a href="#">108104112</a>	79	NOC:Applied Optimization for Wireless, Machine Learning, Big Data	Y	Y	Y	14
77	<a href="#">108104113</a>	61	NOC:Fiber-Optic Communication Systems and Techniques	Y	Y	Y	13
78	<a href="#">108105112</a>	64	NOC:Fundamentals of Electrical Engineering	Y	Y	Y	19
79	<a href="#">108105113</a>	65	NOC:Digital Circuits	Y	Y	Y	13
80	<a href="#">108105114</a>	40	NOC:Analysis and Design Principles of Microwave Antennas	Y	Y	Y	11
81	<a href="#">108105118</a>	67	NOC:Architectural Design of Digital Integrated Circuits	Y	Y	Y	4.9
82	<a href="#">108107112</a>	40	NOC:Electrical Distribution System Analysis	Y	Y	Y	7.2
83	<a href="#">108107113</a>	40	NOC:Introduction to Smart Grid	Y	Y	Y	10
84	<a href="#">108107114</a>	40	NOC:Facts Devices	Y	Y	Y	8.1

85	<a href="#">108107115</a>	40	NOC:Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	Y	Y	Y	6.7
86	<a href="#">108108112</a>	55	NOC:Semiconductor Devices and Circuits	Y	Y	Y	5.2
87	<a href="#">108108113</a>	55	NOC:Fabrication Techniques for MEMs-based Sensors: Clinical Perspective	Y	Y	Y	21
88	<a href="#">108108114</a>	48	NOC:Op-Amp Practical Applications:Design,Simulation and Implementation	Y	Y	Y	18
89	<a href="#">108108115</a>	39	NOC:Physical Modelling for Electronics Enclosures using Rapid Prototyping	Y	Y	Y	25
90	<a href="#">108108116</a>	13	NOC:Recent Advances in Transmission Insulators	Y	Y	Y	3.0
91	<a href="#">108102117</a>	39	NOC:Information Theory, Coding and Cryptography	Y	Y	Y	17
92	<a href="#">108101126</a>	98	NOC:Fundamental of Power Electronics	Y	Y	Y	24
93	<a href="#">108102120</a>	38	NOC:Principles of Digital Communications	Y	Y	Y	34
94	<a href="#">108102121</a>	17	NOC:Electric Vehicles - Part 1	Y	Y	Y	8.9
95	<a href="#">108104130</a>	41	NOC:Electromagnetic Waves in Guided and Wireless Media	Y	Y	Y	14
96	<a href="#">108105131</a>	90	NOC:Electrical Machines-II	Y	Y	Y	24
97	<a href="#">108105132</a>	60	NOC:Digital Electronic Circuits	Y	Y	Y	17
98	<a href="#">108105133</a>	60	NOC:Power System Dynamics, Control and Monitoring	Y	Y	Y	16
99	<a href="#">108105134</a>	40	NOC:Evolution of Air Interface towards 5G	Y	Y	Y	11
100	<a href="#">108106135</a>	48	NOC:Introduction to Photonics	Y	Y	Y	87
101	<a href="#">108106136</a>	69	NOC:Multirate DSP	Y	Y	Y	126
102	<a href="#">108106137</a>	37	NOC:LDPC and Polar Codes in 5G Standard	Y	Y	Y	64
103	<a href="#">108106138</a>	29	NOC:Electromagnetic Compatibility, EMC	Y	Y	Y	37
104	<a href="#">108107127</a>	60	NOC:Computer Aided Power System Analysis	Y	Y	Y	9.3
105	<a href="#">108107128</a>	40	NOC:Advance Power Electronics and Control	Y	Y	Y	6.9
106	<a href="#">108107129</a>	40	NOC:CMOS Digital VLSI Design	Y	Y	Y	9.9
107	<a href="#">108108122</a>	59	NOC:Fundamentals of Semiconductor Devices	Y	Y	Y	6.1
108	<a href="#">108108123</a>	44	NOC:Advanced IOT Applications	Y	Y	Y	16
109	<a href="#">108108124</a>	71	NOC:Electronic Systems for Cancer Diagnosis	Y	Y	Y	17
110	<a href="#">108108125</a>	53	NOC:Electronic Modules for Industrial Applications using Op-Amps	Y	Y	Y	13
111	<a href="#">108108148</a>	66	NOC:Neural Networks for Signal Processing – I	---	Y	Y	13
112	<a href="#">108102145</a>	24	NOC:Power Electronics	Y	Y	Y	25
113	<a href="#">108102146</a>	41	NOC:Electrical Machines	Y	Y	Y	29
114	<a href="#">108103141</a>	37	NOC:Microwave Engineering	Y	Y	Y	22
115	<a href="#">108104139</a>	60	NOC:Basic Electric Circuits	Y	Y	Y	26
116	<a href="#">108104140</a>	40	NOC:Fundamentals of Electric Drives	---	Y	Y	14
117	<a href="#">108105153</a>	84	NOC:Electrical Measurement and Electronic Instruments	Y	Y	Y	32
118	<a href="#">108105154</a>	60	NOC:Principles and Techniques of Modern Radar Systems	Y	Y	Y	17
119	<a href="#">108105155</a>	94	NOC:Electrical Machines - I	Y	Y	Y	27
120	<a href="#">108106149</a>	103	NOC:Mapping Signal Processing Algorithms to Architectures	---	Y	Y	64
121	<a href="#">108106150</a>	47	NOC:Linear System Theory	Y	Y	Y	29
122	<a href="#">108106151</a>	82	NOC:Digital Signal Processing	Y	Y	Y	63

123	<a href="#">108106152</a>	117	NOC:Computational Electromagnetics	Y	Y	Y	85
124	<a href="#">108107142</a>	60	NOC:Microelectronics: Devices to Circuits	Y	Y	Y	12
125	<a href="#">108107143</a>	40	NOC:DC Microgrid	Y	Y	Y	11
126	<a href="#">108108147</a>	63	NOC:Sensors and Actuators	Y	Y	Y	35
127	<a href="#">108102119</a>	41	Engineering Electromagnetics	---	Y	---	5.4
128	<a href="#">108106165</a>	23	NOC:A Brief Introduction of Micro-Sensors	Y	Y	Y	22
129	<a href="#">108105158</a>	99	NOC:Analog Electronic Circuits	Y	Y	Y	65
130	<a href="#">108106160</a>	67	NOC:DC Power Transmission Systems	Y	Y	Y	42
131	<a href="#">108106158</a>	80	NOC:Digital IC Design	Y	Y	Y	74
132	<a href="#">108108157</a>	39	NOC:Electronics Equipment Integration and Prototype Building	Y	Y	Y	21
133	<a href="#">108104157</a>	60	NOC:Fuzzy Sets, Logic and Systems and Applications	Y	Y	Y	18
134	<a href="#">108102157</a>	43	NOC:High Power Multilevel Converters - Analysis, Design and Operational Issues	Y	Y	Y	53
135	<a href="#">108106164</a>	43	NOC:Linear Dynamical Systems	Y	Y	Y	47
136	<a href="#">108103157</a>	34	NOC:Microprocessors and Interfacing	Y	Y	Y	14
137	<a href="#">108105159</a>	82	NOC:Network Analysis	Y	Y	Y	39
138	<a href="#">108106162</a>	51	NOC:Nonlinear System Analysis	Y	Y	Y	19
139	<a href="#">108106161</a>	44	NOC:Optical Engineering	Y	Y	Y	49
140	<a href="#">108106159</a>	103	NOC:Power Management Integrated Circuits	Y	Y	Y	57
141	<a href="#">108107157</a>	40	NOC:Power Quality Improvement Technique	Y	Y	Y	5.2
142	<a href="#">108106163</a>	87	NOC:Signals and Systems	---	Y	---	54
143	<a href="#">108103158</a>	39	NOC:Statistical Signal Processing	Y	Y	Y	16
144	<a href="#">108106157</a>	33	NOC:Transmission Lines and Electromagnetic Waves	Y	Y	Y	35
145	<a href="#">108105157</a>	39	NOC:VLSI Signal Processing	Y	Y	Y	15
146	<a href="#">108102156</a>	34	Special Electromechanical Systems	---	Y	---	6.0
147	<a href="#">108108166</a>	53	NOC:Design and Simulation of Power conversion using open source tools	---	Y	---	4.1
148	<a href="#">108101167</a>	40	NOC:Electrical Equipment and Machines: Finite Element Analysis	Y	Y	Y	9.0
149	<a href="#">108106167</a>	120	NOC:Fiber Optic Communication Technology	---	Y	---	7.2
150	<a href="#">108106168</a>	83	NOC:Image Signal Processing	---	Y	---	7.2
151	<a href="#">108108168</a>	68	NOC:Information Theory	---	Y	---	4.2
152	<a href="#">108102169</a>	40	NOC:Introduction to Embedded System Design	Y	Y	Y	5.9
153	<a href="#">108108167</a>	65	NOC:Introductory Neuroscience and Neuro-Instrumentation	Y	Y	Y	6.2
154	<a href="#">108104167</a>	34	NOC:Peer to Peer Networks	Y	Y	Y	5.4
155	<a href="#">108105167</a>	52	NOC:Power System Protection	Y	Y	Y	27
156	<a href="#">108107167</a>	40	NOC:Power System Protection and Switchgear	Y	Y	Y	4.6
157	<a href="#">108106170</a>	76	NOC:Fundamentals of Electric Vehicles: Technology and Economics	Y	Y	---	8.3
158	<a href="#">108106171</a>	48	NOC:Applied Linear Algebra	Y	Y	---	5.9
159	<a href="#">108106172</a>	143	NOC:Basic Electrical Circuits	---	Y	---	3.4

160	<a href="#">108106173</a>	42	NOC:Optical Fiber Sensors	---	Y	---	5.0
161	<a href="#">108101174</a>	94	NOC:Digital Signal Processing and its Applications	Y	Y	Y	3.6
162	<a href="#">108103174</a>	41	NOC:Computer Vision and Image Processing - Fundamentals and Applications	Y	Y	Y	4.4
163	<a href="#">108104174</a>	70	NOC:Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	---	Y	---	7.2
164	<a href="#">108106174</a>	78	NOC:Introduction to Time - Varying Electrical Networks	---	Y	---	9.3
165	<a href="#">108106177</a>	71	NOC:Digital System Design	Y	Y	Y	4.5
166	<a href="#">108108174</a>	51	NOC:Photonic Integrated Circuit	Y	Y	Y	6.1
167	<a href="#">108102179</a>	45	NOC:Power Quality	---	Y	---	7.0
168	<a href="#">108103179</a>	27	NOC:System Design through VERILOG	Y	Y	Y	2.2
169	<a href="#">108105179</a>	64	NOC:Signal Processing for mm Wave communication for 5G and beyond	---	Y	---	5.5
170	<a href="#">108105180</a>	60	NOC:Control and Tuning Methods in Switched Mode Power Converters	Y	Y	Y	8.5
171	<a href="#">108105181</a>	69	NOC:Advanced Microwave Guided-Structures and Analysis	Y	Y	Y	4.5
172	<a href="#">108106179</a>	81	NOC:Stochastic Modeling and the Theory of Queues	---	Y	---	5.8
173	<a href="#">108106180</a>	40	NOC:Integrated Photonics Devices and Circuits	---	Y	---	9.6
174	<a href="#">108106181</a>	78	NOC:Introduction to Semiconductor Devices	Y	Y	Y	5.6
175	<a href="#">108108179</a>	52	NOC:Design for Internet of Things	Y	Y	Y	6.9
176	<a href="#">108108180</a>	42	NOC:Mathematical Aspects of Biomedical Electronic System Design	Y	Y	Y	4.1
177	<a href="#">108108181</a>	26	NOC:Concentration Inequalities	Y	Y	Y	2.7
178	<a href="#">108106182</a>	97	NOC:Electric Vehicles and Renewable Energy	---	Y	---	8.5
179	<a href="#">108103183</a>	44	NOC:Usability Engineering	Y	Y	Y	6.0
180	<a href="#">108101185</a>	65	NOC:Stochastic Control and Communication	---	Y	---	5.6
181	<a href="#">108102185</a>	42	NOC:Introduction to Electrical Engineering	---	Y	---	6.5
182	<a href="#">108103185</a>	85	NOC:Probability and Random Processes	---	Y	---	3.5
183	<a href="#">108105185</a>	60	NOC:Cognition and its Computation	---	Y	---	5.9
184	<a href="#">108105186</a>	120	NOC:Digital Control in Switched Mode Power Converters and FPGA-based Prototyping	Y	Y	Y	7.6
185	<a href="#">108105187</a>	41	NOC:VLSI Interconnects	---	Y	---	3.8
186	<a href="#">108106184</a>	65	Phase-locked loops	Y	Y	Y	6.9
187	<a href="#">108106186</a>	64	NOC:Fundamentals of Nano and Quantum Photonics	---	Y	Y	5.2
188	<a href="#">108108185</a>	56	NOC:Real-Time Digital Signal Processing	---	Y	---	4.7
189	<a href="#">108105188</a>	63	NOC:Semiconductor Device Modeling and Simulation	Y	Y	---	6.2
190	<a href="#">108105189</a>	75	NOC:RF and Microwave Networks	---	Y	---	4.0
191	<a href="#">108106188</a>	84	NOC:Analog Electronic Circuits (IITM)	Y	Y	Y	6.9
192	<a href="#">108106189</a>	90	NOC:Modern Computer Vision	Y	Y	---	6.1
193	<a href="#">108106190</a>	46	NOC:Optical Wireless Communications for Beyond 5G Networks and IoT	Y	Y	---	4.0
194	<a href="#">108108188</a>	54	NOC:Advanced Neural Science for Engineers	Y	Y	Y	7.4
195	<a href="#">108102191</a>	36	NOC:Transducers for Instrumentation	---	Y	---	7.6

196	<a href="#">108103191</a>	64	NOC:Simulation of Communication Systems using Matlab	---	Y	---	5.1
197	<a href="#">108103192</a>	48	NOC:Machine Learning and Deep Learning - Fundamentals and Applications	---	Y	---	4.1
198	<a href="#">108104191</a>	60	NOC:Economic Operations and Control of Power Systems	---	Y	---	6.7
199	<a href="#">108104192</a>	38	NOC:Digital Switching	---	Y	---	3.0
200	<a href="#">108104193</a>	65	NOC:Analog VLSI Design	---	Y	---	6.2
201	<a href="#">108105191</a>	41	NOC:Introduction to Adaptive Signal Processing	Y	Y	---	2.7
202	<a href="#">108105192</a>	60	NOC:Nanobiophotonics: Touching Our Daily Life	---	Y	---	5.4
203	<a href="#">108106191</a>	54	NOC:VLSI Design Flow: RTL to GDS	---	Y	---	6.1
204	<a href="#">108106192</a>	40	NOC:Fundamentals of Wireless Communication (Hindi)	---	Y	---	5.3
205	<a href="#">108106193</a>	40	NOC:Sensor Technologies: Physics, Fabrication, and Circuits	---	Y	---	4.8
206	<a href="#">108108191</a>	67	NOC:Design of Electric Motors	---	Y	---	5.7
207	<a href="#">108101371</a>	---	NOC:Applied Linear Algebra (2024)	---	---	---	---
208	<a href="#">108101373</a>	---	NOC:Digital Communication using GNU Radio	---	---	---	---
209	<a href="#">108102372</a>	---	NOC:Computer-Aided Design of Electrical Machines	---	---	---	---
210	<a href="#">108103378</a>	---	NOC:Integrated Circuits and Applications	---	---	---	---
211	<a href="#">108105375</a>	---	NOC:EMI-EMC and Signal Integrity: Principles, Techniques and Applications	---	---	---	---
212	<a href="#">108105376</a>	---	NOC:Embedded Sensing, Actuation and Interfacing Systems	---	---	---	---
213	<a href="#">108106370</a>	---	NOC:Advanced topics in Wireless Communication (Hindi)	---	---	---	---
214	<a href="#">108106374</a>	---	NOC:State Space Approach to Control System Analysis and Design	---	---	---	---
215	<a href="#">108107379</a>	---	NOC:RF Transceiver of Design	---	---	---	---
216	<a href="#">108107380</a>	---	NOC:VLSI Physical Design with Timing Analysis	---	---	---	---
217	<a href="#">108108377</a>	---	NOC:Basics of Semiconductor Microwave Devices	---	---	---	---

**Discipline : Humanities and Social Sciences**

[Go to Top](#)

**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/humanities-and-social-sciences.pdf>**

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

90	<a href="#">109103136</a>	20	NOC:Consumer Psychology	Y	Y	Y	19
91	<a href="#">109104135</a>	35	NOC:Introduction to Literary Theory	Y	Y	Y	10
92	<a href="#">109104136</a>	20	NOC:Development of Sociology in India	Y	Y	Y	5.0
93	<a href="#">109105135</a>	20	NOC:Introduction to Basic Spoken Sanskrit	---	Y	---	6.7
94	<a href="#">109105136</a>	20	NOC:Water, Society and Sustainability	Y	Y	Y	6.5
95	<a href="#">109106135</a>	47	NOC:Indian Fiction in English	Y	Y	Y	60
96	<a href="#">109106136</a>	58	NOC:Introduction to Cultural Studies	Y	Y	Y	45
97	<a href="#">109106137</a>	78	NOC:Intellectual Property	Y	Y	Y	15
98	<a href="#">109106138</a>	54	NOC:Short Fiction in Indian Literature	Y	Y	Y	54
99	<a href="#">109103140</a>	27	NOC:Introduction to Modern Indian Drama	Y	Y	Y	10
100	<a href="#">109103141</a>	30	NOC:Introduction to Political Theory	Y	Y	Y	26
101	<a href="#">109103142</a>	21	NOC:Human Behaviour	Y	Y	Y	21
102	<a href="#">109104143</a>	38	NOC:Introduction to the Psychology of Language	Y	Y	Y	19
103	<a href="#">109105144</a>	40	NOC:Employment Communication A Lab based course	Y	Y	Y	15
104	<a href="#">109106145</a>	57	NOC:The Nineteenth-Century English Novel	Y	Y	Y	94
105	<a href="#">109106146</a>	51	NOC:Feminist Writings	Y	Y	Y	80
106	<a href="#">109106147</a>	50	NOC:Introduction to World Literature	Y	Y	Y	77
107	<a href="#">109106148</a>	44	NOC:Managing Intellectual Property in Universities	Y	Y	Y	3.7
108	<a href="#">109106149</a>	40	NOC:English Literature of the Romantic Period, 1798-1832	Y	Y	Y	27
109	<a href="#">109107139</a>	60	NOC:Literature, Culture and Media	Y	Y	Y	12
110	<a href="#">109106170</a>	80	Introduction to Film Studies (2019)	---	Y	---	85
111	<a href="#">109102156</a>	38	NOC:Text, Textuality and Digital Media	Y	Y	Y	30
112	<a href="#">109102157</a>	23	NOC:Positive Psychology	Y	Y	Y	12
113	<a href="#">109103152</a>	20	NOC:The Psychology of Language	Y	Y	Y	8.9
114	<a href="#">109103153</a>	25	NOC:Development Research Methods	Y	Y	Y	10
115	<a href="#">109104150</a>	20	NOC:Population Studies	Y	Y	Y	9.1
116	<a href="#">109104151</a>	15	NOC:Psychology of Everyday	Y	Y	Y	14
117	<a href="#">109105169</a>	45	NOC:Intermediate Level of Spoken Sanskrit	Y	Y	Y	12
118	<a href="#">109106159</a>	65	NOC:Appreciating Linguistics: A Typological Approach	Y	Y	Y	121
119	<a href="#">109106160</a>	15	NOC:Inclusion and Technology Design	Y	Y	Y	39
120	<a href="#">109106161</a>	28	NOC:Energy Economics and Policy	Y	Y	Y	25
121	<a href="#">109106163</a>	19	NOC:The Victorian Gothic Short Story	Y	Y	Y	38
122	<a href="#">109106165</a>	51	NOC:German-II	Y	Y	Y	74
123	<a href="#">109106166</a>	46	NOC:German-I	Y	Y	Y	80
124	<a href="#">109106168</a>	33	NOC:Disability Studies: An Introduction	Y	Y	Y	50
125	<a href="#">109107154</a>	20	NOC:Body language: Key to professional Success	Y	Y	Y	4.0
126	<a href="#">109107155</a>	40	NOC:Interpersonal Skills	Y	Y	Y	8.9
127	<a href="#">109108158</a>	23	NOC:Artistic Exploration in Scientific Research and Technology	Y	Y	Y	4.7

128	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	---	6.5
149	109104182	42	NOC:Applied Statistics and Econometrics	---	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	---	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	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 कहानियाँ 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	4.2
190	109104198	53	NOC:Computer Aided Decision Systems - Industrial Practices using Big Analytics	Y	Y	---	4.9
191	109105198	60	NOC:Petroleum Economics and Management	---	Y	---	5.0
192	109105199	40	NOC:The Science of Happiness and Wellbeing	---	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	60	NOC:Narrative Mode and Fiction	Y	Y	---	14
198	109107199	36	NOC:Group Dynamics	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	---	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	---	3.8
203	109105203	60	NOC:Environmental Science	---	Y	---	7.5

204	<a href="#">109105204</a>	60	NOC:Psychology of Learning	---	Y	---	8.2
205	<a href="#">109105205</a>	60	NOC:Introduction to Language and Linguistics	---	Y	---	5.0
206	<a href="#">109106203</a>	44	NOC:Social History of Medicine in Colonial India	---	Y	---	6.2
207	<a href="#">109106204</a>	60	NOC:Indian Society: Sociological Perspectives	---	Y	---	8.8
208	<a href="#">109107203</a>	20	NOC:Countering Stage Fright	---	Y	---	3.7
209	<a href="#">109107204</a>	55	NOC:Advance Course in Social Psychology	---	Y	---	7.2
210	<a href="#">109107205</a>	63	NOC:Performative Gender and Religions in South Asia	---	Y	---	9.2
211	<a href="#">109102392</a>	---	NOC:Science Communication: Research Productivity and Data Analytics using Open Source Software	---	---	---	---
212	<a href="#">109103395</a>	---	NOC:Psychology of Emotion: Theory and Applications	---	---	---	---
213	<a href="#">109104398</a>	---	NOC:Psychology Of Bilingualism and Multilingualism	---	---	---	---
214	<a href="#">109104400</a>	---	NOC:Sociology and Sanitation: An Introduction	---	---	---	---
215	<a href="#">109105396</a>	---	NOC:Philosophy and Critical Thinking	---	---	---	---
216	<a href="#">109106401</a>	---	NOC:Human Movement Science	---	---	---	---
217	<a href="#">109106402</a>	---	NOC:Sports and Performance Nutrition	---	---	---	---
218	<a href="#">109106403</a>	---	NOC:Sports Psychology	---	---	---	---
219	<a href="#">109106404</a>	---	NOC:Strength and Conditioning for the Indian Population	---	---	---	---
220	<a href="#">109106405</a>	---	NOC:Essentials of Sports Injury Prevention and Rehabilitation	---	---	---	---
221	<a href="#">109106406</a>	---	NOC:Introduction to Exercise Physiology and Sports Performance	---	---	---	---
222	<a href="#">109106407</a>	---	NOC:Fundamentals of Sports Training, Load Management and Recovery	---	---	---	---
223	<a href="#">109106408</a>	---	NOC:Forensic Linguistics	---	---	---	---
224	<a href="#">109107394</a>	---	NOC:Online Communication in the Digital Age	---	---	---	---
225	<a href="#">109107397</a>	---	NOC:Energy Resources, Economics and Sustainability	---	---	---	---
226	<a href="#">109107399</a>	---	NOC:Cognitive Ergonomics	---	---	---	---

**Discipline : Management**

[Go to Top](#)

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

1	<a href="#">110101003</a>	41	Managerial Accounting	Y	Y	Y	29
2	<a href="#">110101005</a>	40	Managerial Economics	Y	Y	Y	35
3	<a href="#">110102016</a>	40	Organisation Management	Y	Y	Y	16
4	<a href="#">110102058</a>	38	Organisation of Engineering Systems and Human Resources Management	Y	Y	Y	29
5	<a href="#">110104055</a>	37	Strategic Marketing - Contemporary Issues	Y	Y	Y	7.6
6	<a href="#">110104063</a>	58	NOC:Strategy: An Introduction to game Theory	Y	Y	Y	2.5
7	<a href="#">110105030</a>	40	Econometric Modelling	Y	Y	Y	19
8	<a href="#">110105033</a>	41	Organizational Behaviour	Y	Y	Y	12
9	<a href="#">110105035</a>	40	Security Analysis and Portfolio Management	Y	Y	Y	19
10	<a href="#">110105039</a>	40	Six Sigma	Y	Y	Y	8.3
11	<a href="#">110105052</a>	40	International Business Communication	Y	Y	Y	16
12	<a href="#">110105054</a>	40	Consumer Behaviour	Y	Y	Y	12

13	<a href="#">110105057</a>	40	International Finance	Y	Y	Y	11
14	<a href="#">110105060</a>	42	Applied Multivariate Statistical Modeling	Y	Y	Y	12
15	<a href="#">110106043</a>	40	Infrastructure Finance	Y	Y	Y	20
16	<a href="#">110106044</a>	40	Manufacturing Systems Management	Y	Y	Y	18
17	<a href="#">110106045</a>	41	Operations and Supply Chain Management	Y	Y	Y	18
18	<a href="#">110106050</a>	42	Business Analysis for Engineers	Y	Y	Y	16
19	<a href="#">110106062</a>	40	NOC:Introduction to Operations Research	Y	Y	Y	4.0
20	<a href="#">110108047</a>	37	Strategic Management	Y	Y	Y	16
21	<a href="#">110108056</a>	38	Global Supply Chain Management	Y	Y	Y	10
22	<a href="#">110104066</a>	50	NOC:Quantitative Finance	Y	Y	Y	8.7
23	<a href="#">110104065</a>	48	NOC:Managing Services	Y	Y	Y	12
24	<a href="#">110106064</a>	47	NOC:Introduction to Data Analytics	Y	Y	Y	2.4
25	<a href="#">110105067</a>	50	Economics / Management / Entrepreneurship	Y	Y	Y	13
26	<a href="#">110105069</a>	32	NOC:Principles of Human Resource Management	Y	Y	Y	9.6
27	<a href="#">110104068</a>	46	NOC:Marketing Management - I	Y	Y	Y	3.1
28	<a href="#">110106072</a>	50	NOC:Introduction to Data analytics	Y	Y	Y	2.6
29	<a href="#">110104070</a>	48	NOC:Marketing Management - II	Y	Y	Y	3.7
30	<a href="#">110105071</a>	40	NOC:Commodity Derivatives and Risk Management	Y	Y	Y	11
31	<a href="#">110105073</a>	24	NOC:Strategic Communication for Sustainable Development	Y	Y	Y	4.8
32	<a href="#">110107073</a>	60	NOC:Financial Statement Analysis and Reporting	Y	Y	Y	17
33	<a href="#">110105078</a>	39	NOC:Services Marketing: A Practical Approach	Y	Y	Y	4.9
34	<a href="#">110107074</a>	40	NOC:Supply Chain Analytics	Y	Y	Y	9.9
35	<a href="#">110105074</a>	40	NOC:Consumer Behaviour	Y	Y	Y	8.2
36	<a href="#">110105076</a>	40	NOC:Knowledge Management	Y	Y	Y	11
37	<a href="#">110105079</a>	61	NOC:Business Ethics	Y	Y	Y	17
38	<a href="#">110105075</a>	41	NOC:Foundation Course in Managerial Economics	Y	Y	Y	9.0
39	<a href="#">110104074</a>	27	NOC:Systems Engineering: Theory and Practice	Y	Y	Y	3.0
40	<a href="#">110104073</a>	40	NOC:Project Management	Y	Y	Y	2.6
41	<a href="#">110106081</a>	78	NOC:Patent Law for Engineers and Scientists	Y	Y	Y	27
42	<a href="#">110107080</a>	40	NOC:Marketing Research and Analysis	Y	Y	Y	11
43	<a href="#">110107081</a>	60	NOC:Project Management for Managers	Y	Y	Y	16
44	<a href="#">110104080</a>	34	NOC:Total Quality Management - I	Y	Y	Y	3.3
45	<a href="#">110105080</a>	20	NOC:Gender Justice and Workplace Security	Y	Y	Y	4.8
46	<a href="#">110105081</a>	58	NOC:Corporate Social Responsibility	Y	Y	Y	13
47	<a href="#">110105082</a>	40	NOC:Decision Modeling	Y	Y	Y	11
48	<a href="#">110105083</a>	60	NOC:E-Business	Y	Y	Y	15
49	<a href="#">110105091</a>	31	NOC:Research Writing	Y	Y	Y	5.7
50	<a href="#">110104084</a>	22	NOC:Management of New Products and Services	Y	Y	Y	4.7

51	<a href="#">110104085</a>	41	NOC:Total Quality Management-II	Y	Y	Y	8.6
52	<a href="#">110104086</a>	28	NOC:Practitioners Course In Descriptive,Predictive and Prescriptive Analytics	Y	Y	Y	11
53	<a href="#">110105088</a>	60	NOC:Quality Design and Control	Y	Y	Y	17
54	<a href="#">110105087</a>	60	NOC:Design and Analysis of Experiments	Y	Y	Y	16
55	<a href="#">110105089</a>	60	NOC:Business Analytics for Management Decision	Y	Y	Y	20
56	<a href="#">110107092</a>	60	NOC:Business Analytics and Data Mining Modeling using R	Y	Y	Y	15
57	<a href="#">110105090</a>	56	NOC:Soft Skills for Business Negotiations and Marketing Strategies	Y	Y	Y	17
58	<a href="#">110103093</a>	23	NOC:Economic Growth and Development	Y	Y	Y	13
59	<a href="#">110104093</a>	61	NOC:Microeconomics: Theory and Applications	Y	Y	Y	13
60	<a href="#">110104094</a>	60	NOC:Data Analysis and Decision Making-I	Y	Y	Y	19
61	<a href="#">110104095</a>	51	NOC:Economics of Health and Health Care	Y	Y	Y	11
62	<a href="#">110104096</a>	26	NOC:Simulation of Business Systems: An Applied Approach	Y	Y	Y	7.8
63	<a href="#">110105093</a>	60	NOC:Engineering Econometrics	Y	Y	Y	18
64	<a href="#">110105094</a>	60	NOC:Industrial Safety Engineering	Y	Y	Y	16
65	<a href="#">110105095</a>	60	NOC:Management of Inventory Systems	Y	Y	Y	17
66	<a href="#">110105096</a>	40	NOC:Selected Topics in Decision Modeling	Y	Y	Y	8.3
67	<a href="#">110105097</a>	40	NOC:Ethics in Engineering Practice	Y	Y	Y	12
68	<a href="#">110107093</a>	60	NOC:Working Capital Management	Y	Y	Y	15
69	<a href="#">110107094</a>	40	NOC:Innovation, Business Models and Entrepreneurship	Y	Y	Y	12
70	<a href="#">110107095</a>	20	NOC:Business Analytics and Data Mining Modeling Using R - Part II	Y	Y	Y	5.3
71	<a href="#">110104117</a>	20	NOC:Management of Field Sales	Y	Y	Y	9.4
72	<a href="#">110104118</a>	60	NOC:Data Analysis and Decision Making-II	Y	Y	Y	25
73	<a href="#">110104119</a>	46	NOC:Advanced Green Manufacturing Systems	Y	Y	Y	23
74	<a href="#">110105120</a>	40	NOC:Managing Change in Organizations	Y	Y	Y	13
75	<a href="#">110105121</a>	60	NOC:Financial Institutions and Markets	Y	Y	Y	17
76	<a href="#">110105122</a>	40	NOC:Sales and Distribution Management	Y	Y	Y	17
77	<a href="#">110105123</a>	63	NOC:Six Sigma	Y	Y	Y*	19
78	<a href="#">110106124</a>	27	NOC:Design Thinking - A Primer	Y	Y	Y	21
79	<a href="#">110107112</a>	40	NOC:Global Marketing Management	Y	Y	Y	7.0
80	<a href="#">110107113</a>	60	NOC:Marketing Research and Analysis-II	Y	Y	Y	11
81	<a href="#">110107114</a>	60	NOC:Business Statistics	Y	Y	Y	11
82	<a href="#">110107115</a>	20	NOC:MCDM Techniques Using R	Y	Y	Y	4.7
83	<a href="#">110107116</a>	40	NOC:Manufacturing Strategy	Y	Y	Y	12
84	<a href="#">110101131</a>	40	NOC:Financial Accounting	Y	Y	Y	33
85	<a href="#">110101132</a>	20	NOC:Cost Accounting	Y	Y	Y	17
86	<a href="#">110101133</a>	40	NOC:Game Theory	Y	Y	Y	24
87	<a href="#">110104125</a>	60	NOC:Data Analysis and Decision Making - III	Y	Y	Y	15
88	<a href="#">110105137</a>	63	NOC:Performance and Reward Management	Y	Y	Y	15

89	<a href="#">110105138</a>	40	NOC:The Ethical Corporation	Y	Y	Y	20
90	<a href="#">110105139</a>	43	NOC:Intellectual Property Rights and Competition Law	Y	Y	Y	11
91	<a href="#">110105140</a>	40	NOC:Patent Search for Engineers and Lawyers	Y	Y	Y	11
92	<a href="#">110106134</a>	34	NOC:Decision-Making Under Uncertainty	Y	Y	Y	32
93	<a href="#">110106135</a>	34	NOC:Decision making using financial accounting	Y	Y	Y	52
94	<a href="#">110107126</a>	48	NOC:Training Of Trainers	Y	Y	Y	27
95	<a href="#">110107127</a>	60	NOC:Management Accounting	Y	Y	Y	10
96	<a href="#">110107128</a>	60	NOC:Financial Derivatives and Risk Management	Y	Y	Y	17
97	<a href="#">110107129</a>	40	NOC:Business Analytics and Text Mining Modeling Using Python	Y	Y	Y	5.8
98	<a href="#">110107130</a>	40	NOC:Toyota Production System	Y	Y	Y	13
99	<a href="#">110105144</a>	41	NOC:Behavioral and Personal Finance	Y	Y	Y	19
100	<a href="#">110106141</a>	61	NOC:Entrepreneurship	Y	Y	Y	36
101	<a href="#">110107144</a>	60	NOC:Financial Management for Managers	Y	Y	Y	12
102	<a href="#">110108141</a>	36	NOC:Integrated Marketing Management	Y	Y	Y	11
103	<a href="#">110101141</a>	49	NOC:Introduction to Stochastic Processes	Y	Y	Y	57
104	<a href="#">110101142</a>	63	NOC:Introduction to System Dynamics Modeling	Y	Y	Y	38
105	<a href="#">110105143</a>	60	NOC:Management of Commercial Banking	Y	Y	Y	30
106	<a href="#">110105142</a>	66	NOC:Marketing Analytics	Y	Y	Y	18
107	<a href="#">110105141</a>	62	NOC:Modelling and Analytics for Supply Chain Management	Y	Y	Y	17
108	<a href="#">110107141</a>	60	NOC:Production and Operation Management (Prof. Rajat Agarwal)	Y	Y	Y	14
109	<a href="#">110107143</a>	60	NOC:Production and Operation Management (Prof. Santosh Rangnekar)	Y	Y	Y	13
110	<a href="#">110107142</a>	40	NOC:Services Marketing: Integrating People, Technology, Strategy	Y	Y	Y	4.1
111	<a href="#">110105145</a>	42	NOC:Customer Relationship Management	Y	Y	Y	17
112	<a href="#">110105147</a>	60	NOC:Decision Support System for Managers	Y	Y	---	19
113	<a href="#">110106147</a>	120	NOC:Financial Accounting (IIT Mandi)	Y	Y	Y	7.3
114	<a href="#">110107145</a>	60	NOC:International Business	Y	Y	Y	8.1
115	<a href="#">110107147</a>	60	NOC:Introduction to Marketing Essentials	Y	Y	Y	5.1
116	<a href="#">110105148</a>	60	NOC:Management Information System	Y	Y	Y	30
117	<a href="#">110106145</a>	56	NOC:Organizational Behaviour	Y	Y	Y	5.4
118	<a href="#">110101146</a>	36	NOC:Organization Development and Change in 21st Century	Y	Y	Y	6.3
119	<a href="#">110107146</a>	60	NOC:Path Integral Methods in Physics and Finance	---	Y	---	8.0
120	<a href="#">110105146</a>	59	NOC:Principles of Management (2020)	Y	Y	Y	30
121	<a href="#">110106146</a>	32	NOC:The Future of Manufacturing Business: Role of Additive Manufacturing	Y	Y	Y	4.3
122	<a href="#">110101149</a>	80	NOC:Managerial Economics	Y	Y	Y	11
123	<a href="#">110101150</a>	40	NOC:Quality Control and Improvement with MINITAB	Y	Y	Y	3.9
124	<a href="#">110106150</a>	36	NOC:Technology Forecasting for Strategic Decision Making - An Introduction	Y	Y	Y	2.1
125	<a href="#">110106151</a>	62	NOC:Leadership for India Inc: Practical Concepts and Constructs	Y	Y	Y	13



126	<a href="#">110107150</a>	62	NOC:Principles of Management (2021)	Y	Y	Y	7.6
127	<a href="#">110107151</a>	40	NOC:Organization Theory-Structure and Design	Y	Y	Y	4.7
128	<a href="#">110107152</a>	60	NOC:Talent Acquisition and Management	Y	Y	Y	12
129	<a href="#">110101153</a>	32	NOC:Business and Sustainable Development	Y	Y	Y	3.1
130	<a href="#">110105153</a>	107	NOC:Applied Econometrics	---	Y	---	5.4
131	<a href="#">110105154</a>	60	NOC:Organizational Behaviour - II	---	Y	Y	8.9
132	<a href="#">110105155</a>	60	NOC:Automation in Production Systems and Management	Y	Y	Y	7.2
133	<a href="#">110105156</a>	40	NOC:Corporate Finance	---	Y	---	3.8
134	<a href="#">110107153</a>	40	NOC:Econometric Modelling	Y	Y	Y	4.5
135	<a href="#">110107154</a>	60	NOC:Security Analysis and Portfolio Management	---	Y	---	15
136	<a href="#">110105157</a>	39	NOC:International Marketing	Y	Y	Y	3.7
137	<a href="#">110105158</a>	47	NOC:Retail Management	Y	Y	Y	4.6
138	<a href="#">110105159</a>	40	NOC:Business Law for Managers	Y	Y	Y	4.0
139	<a href="#">110105160</a>	60	NOC:Safety and Risk Analytics	---	Y	---	9.8
140	<a href="#">110106157</a>	61	NOC:Strategy and Technology: A Practical Primer	---	Y	---	12
141	<a href="#">110107157</a>	60	NOC:Decision Making with Spreadsheet	---	Y	---	6.3
142	<a href="#">110107158</a>	60	NOC:Integrated Marketing Communication	---	Y	Y	17
143	<a href="#">110107159</a>	60	NOC:Leadership and Team Effectiveness	Y	Y	Y	7.0
144	<a href="#">110105161</a>	60	NOC:Strategic Management for Competitive Advantage	Y	Y	Y	4.5
145	<a href="#">110105162</a>	60	NOC:Human Factors Engineering	Y	Y	Y	8.3
146	<a href="#">110107161</a>	60	NOC:Product and Brand Management	Y	Y	Y	14
147	<a href="#">110107162</a>	60	NOC:Quantitative Investment Management	---	Y	---	8.4
148	<a href="#">110107163</a>	41	NOC:Strategic Sales Management	Y	Y	---	6.2
149	<a href="#">110108161</a>	38	NOC:Strategic Management - The Competitive Edge	---	Y	---	4.5
150	<a href="#">110101164</a>	40	NOC:Advances in Strategic Human Resource Management	Y	Y	---	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	---	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	---	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	---	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	---	3.1
159	<a href="#">110104167</a>	40	NOC:Brand Management	---	Y	---	6.5
160	<a href="#">110104168</a>	43	NOC:Advanced Business Decision Support Systems	---	Y	---	4.3
161	<a href="#">110104169</a>	28	NOC:Advanced Algorithmic Trading and Portfolio Management	---	Y	---	3.3
162	<a href="#">110105167</a>	40	NOC:Project Management: Planning, Execution, Evaluation and Control	---	Y	---	3.1
163	<a href="#">110105168</a>	60	NOC:Commodity Derivatives and Risk Management (2023)	---	Y	---	6.3

164	<a href="#">110106167</a>	17	NOC:Working in Contemporary Teams	---	Y	---	2.0
165	<a href="#">110107167</a>	41	NOC:Retail Marketing Strategy	---	Y	---	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	---	6.5
168	<a href="#">110101436</a>	---	NOC:Supply Chain Digitization	---	---	---	---
169	<a href="#">110101438</a>	---	NOC:Business Forecasting	---	---	---	---
170	<a href="#">110101439</a>	---	NOC:Business Fundamentals for Entrepreneurs (Part 2: External Operation)	---	---	---	---
171	<a href="#">110103433</a>	---	NOC:Organizational Behaviour: Individual Dynamics in Organization	---	---	---	---
172	<a href="#">110104437</a>	---	NOC:Advanced Financial Instruments for Sustainable Business and Decentralized Markets	---	---	---	---
173	<a href="#">110104440</a>	---	NOC:Multivariate Procedures with R	---	---	---	---
174	<a href="#">110106368</a>	---	NOC:Foundations of Accounting and Finance	---	---	---	---
175	<a href="#">110106435</a>	---	NOC:Strategic Sourcing	---	---	---	---
176	<a href="#">110107430</a>	---	NOC:Project Management (2024)	---	---	---	---
177	<a href="#">110107431</a>	---	NOC:AI in Marketing	---	---	---	---
178	<a href="#">110107432</a>	---	NOC:Innovation in Marketing and Marketing of Innovation	---	---	---	---
179	<a href="#">110107434</a>	---	NOC:Strategic Services Marketing	---	---	---	---

**Discipline : Mathematics**

[Go to Top](#)

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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	---	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	---	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 Control Theory and Nanomechanics	Y	Y	Y	---
121	<a href="#">111106145</a>	49	NOC:Introduction to Galois Theory	---	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	---	3.8
127	<a href="#">111106151</a>	84	NOC:Algebra-II	---	Y	---	4.3

128	<a href="#">111108144</a>	41	NOC:First Course on Partial Differential Equations - I	---	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	---	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	---	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	---	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	---	3.5
139	<a href="#">111108157</a>	80	Matrix Theory	---	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	---	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	---	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	---	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	---	2.9

166	<a href="#">111104168</a>	44	NOC:Measure Theoretic Probability 2	---	Y	---	4.1
167	<a href="#">111105169</a>	72	NOC:Essentials of Topology	---	Y	---	4.7
168	<a href="#">111106168</a>	75	NOC:Introduction to Algebraic Geometry	---	Y	---	5.2
169	<a href="#">111108168</a>	42	NOC:Advanced Partial Differential Equations (Part I: Distributions and Sobolev Spaces)	---	Y	---	4.0
170	<a href="#">111104416</a>	---	NOC:Set Theory and Mathematical Logic	---	---	---	---
171	<a href="#">111105417</a>	---	NOC:Numerical Linear Algebra and Application	---	---	---	---
172	<a href="#">111106415</a>	---	NOC:Introduction to Statistics	---	---	---	---
173	<a href="#">111108412</a>	---	NOC:Advanced Course on Partial Differential Equations - II	---	---	---	---
174	<a href="#">111108413</a>	---	NOC:Introduction to Group Theory	---	---	---	---
175	<a href="#">111108414</a>	---	NOC:Introduction to Lie Algebras	---	---	---	---

**Discipline : Mechanical Engineering**

[Go to Top](#)

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1	<a href="#">112101002</a>	43	Convective Heat and Mass Transfer	Y	Y	Y	18
2	<a href="#">112101004</a>	42	Cryogenic Engineering	Y	Y	Y	34
3	<a href="#">112101095</a>	40	Advanced Strength of Materials	Y	Y	Y	9.7
4	<a href="#">112101097</a>	35	Heat and Mass Transfer	Y	Y	Y	6.7
5	<a href="#">112101099</a>	40	Robotics	Y	Y	Y	11
6	<a href="#">112102014</a>	42	Tribology	Y	Y	Y	18
7	<a href="#">112102101</a>	52	Computer Aided Design and Manufacturing	Y	Y	Y	8.8
8	<a href="#">112102106</a>	41	Project and Production Management	Y	Y	Y	11
9	<a href="#">112103023</a>	40	Nonlinear Vibration	Y	Y	Y	20
10	<a href="#">112103025</a>	42	Theory and Practice of Rotor Dynamics	Y	Y	Y	26
11	<a href="#">112103108</a>	40	Engineering Mechanics	Y	Y	Y	9.5
12	<a href="#">112103112</a>	40	Mechanical Vibrations	Y	Y	Y	9.3
13	<a href="#">112104026</a>	39	Acoustics	Y	Y	Y	9.4
14	<a href="#">112104028</a>	34	Advanced Machining Processes	Y	Y	Y	14
15	<a href="#">112104029</a>	40	Biomicroelectromechanical systems	Y	Y	Y	18
16	<a href="#">112104031</a>	40	Computer Aided Engineering Design	Y	Y	Y	16
17	<a href="#">112104035</a>	40	Mathematical Methods in Engineering and Science	Y	Y	Y	12
18	<a href="#">112104114</a>	44	Dynamics of Machines	Y	Y	Y	5.9
19	<a href="#">112104115</a>	38	Finite Element Method	Y	Y	Y	4.4
20	<a href="#">112104121</a>	39	Kinematics of Machines	Y	Y	Y	3.6
21	<a href="#">112104162</a>	38	Advanced manufacturing process for micro system fabrication	Y	Y	Y	14
22	<a href="#">112104172</a>	40	Engineering Drawing	Y	Y	Y	15
23	<a href="#">112104181</a>	42	NOC:BioMEMS and Microsystems	Y	Y	Y	4.6
24	<a href="#">112105045</a>	43	Computational Fluid Dynamics (Prof. S. Chakraborty)	Y	Y	Y	22
25	<a href="#">112105048</a>	40	Machinery fault diagnosis and signal processing	Y	Y	Y	9.4

26	<a href="#">112105051</a>	43	Solar Energy Technology	Y	Y	Y	11
27	<a href="#">112105053</a>	40	Technology of Surface Coating	Y	Y	Y	11
28	<a href="#">112105055</a>	40	Vibration of Structures	Y	Y	Y	11
29	<a href="#">112105123</a>	32	Basic Thermodynamics	Y	Y	Y	7.1
30	<a href="#">112105124</a>	40	Design of Machine Elements I	Y	Y	Y	12
31	<a href="#">112105126</a>	41	Manufacturing Processes II	Y	Y	Y	9.1
32	<a href="#">112105128</a>	46	Refrigeration and Air Conditioning	Y	Y	Y	12
33	<a href="#">112105171</a>	49	Fluid Mechanics	Y	Y	Y	13
34	<a href="#">112105182</a>	40	Introduction to Fluid Machines and Compressible Flow	Y	Y	Y	11
35	<a href="#">112105183</a>	58	Introduction to Fluid Mechanics and Fluid Engineering	Y	Y	Y	17
36	<a href="#">112106056</a>	40	Advanced Gas Dynamics	Y	Y	Y	18
37	<a href="#">112106064</a>	40	Design and Optimization of Energy systems	Y	Y	Y	16
38	<a href="#">112106065</a>	41	Engineering Fracture Mechanics	Y	Y	Y	18
39	<a href="#">112106068</a>	41	Experimental Stress Analysis	Y	Y	Y	19
40	<a href="#">112106073</a>	41	Rocket Propulsion	Y	Y	Y	18
41	<a href="#">112106130</a>	30	Advanced Finite Elements Analysis	Y	Y	Y	4.9
42	<a href="#">112106131</a>	39	Advanced Operations Research	Y	Y	Y	13
43	<a href="#">112106134</a>	22	Fundamentals of Operations Research	Y	Y	Y	4.6
44	<a href="#">112106135</a>	33	Introduction to Finite Element Method	Y	Y	Y	7.3
45	<a href="#">112106138</a>	50	Mechanical Measurements and Metrology	Y	Y	Y	13
46	<a href="#">112106140</a>	26	Principles of Mechanical Measurements	Y	Y	Y	5.4
47	<a href="#">112106154</a>	41	Spray Theory and Applications (Repurposed)	Y	Y	Y	17
48	<a href="#">112106155</a>	46	Conduction And Radiation	Y	Y	Y	19
49	<a href="#">112106166</a>	40	Gas Dynamics and Propulsion	Y	Y	Y	31
50	<a href="#">112106169</a>	41	Microfluidics	Y	Y	Y	25
51	<a href="#">112106170</a>	44	Convective Heat Transfer	Y	Y	Y	27
52	<a href="#">112106177</a>	40	Introduction to Explosions and Explosion Safety	Y	Y	Y	33
53	<a href="#">112106180</a>	35	NOC:Engineering Mechanics Statics and Dynamics	Y	Y	Y	4.0
54	<a href="#">112107078</a>	40	Advanced Manufacturing Processes	Y	Y	Y	20
55	<a href="#">112107079</a>	43	Computational Fluid Dynamics (Dr. K.M. Singh)	Y	Y	Y	31
56	<a href="#">112107086</a>	40	Processing of non metals	Y	Y	Y	31
57	<a href="#">112107087</a>	40	Vibration control	Y	Y	Y	34
58	<a href="#">112107089</a>	40	Welding Engineering	Y	Y	Y	31
59	<a href="#">112107143</a>	40	Industrial Engineering	Y	Y	Y	8.3
60	<a href="#">112107145</a>	40	Manufacturing Processes I	Y	Y	Y	8.0
61	<a href="#">112107147</a>	40	Strength of Materials	Y	Y	Y	8.0
62	<a href="#">112108092</a>	40	Micro and Smart Systems	Y	Y	Y	11
63	<a href="#">112105187</a>	48	Micro fluidics	Y	Y	Y	23



64	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	<a href="#">112104219</a>	40	NOC:Heat Treatment and Surface Hardening - II	Y	Y	Y	4.4
103	<a href="#">112104220</a>	50	NOC:Phase Transformation in Materials	Y	Y	Y	3.3
104	<a href="#">112107219</a>	60	NOC:Fundamentals of Manufacturing Processes	Y	Y	Y	17
105	<a href="#">112106222</a>	42	NOC:Micro and Nano Scale Energy Transport	Y	Y	Y	34
106	<a href="#">112104221</a>	31	NOC:Manufacturing of Composites	Y	Y	Y	2.5
107	<a href="#">112104222</a>	54	NOC:Applied Ergonomics	Y	Y	Y	4.7
108	<a href="#">112106223</a>	40	NOC:Electron Diffraction and Imaging	Y	Y	Y	31
109	<a href="#">112106225</a>	42	NOC:Acoustic and Noise Control	Y	Y	Y	21
110	<a href="#">112104225</a>	30	NOC:Sustainability through Green Manufacturing Systems: An Applied Approach	Y	Y	Y	4.4
111	<a href="#">112107220</a>	40	NOC:Modelling and Simulation of Discrete Event System	Y	Y	Y	11
112	<a href="#">112107221</a>	40	NOC:Processing of Polymers and Polymer Composites	Y	Y	Y	11
113	<a href="#">112106226</a>	49	NOC:Steel Quality: Role of Secondary Refining and Continuous Casting	Y	Y	Y	16
114	<a href="#">112106227</a>	40	NOC:X-ray Crystallography and Diffraction	Y	Y	Y	24
115	<a href="#">112104227</a>	72	NOC:Noise Management and Control	Y	Y	Y	4.0
116	<a href="#">112105219</a>	20	NOC:Spur and Helical Gear Cutting	Y	Y	Y	5.7
117	<a href="#">112105220</a>	21	NOC:Laws of Thermodynamics	Y	Y	Y	6.8
118	<a href="#">112105221</a>	68	NOC:Energy Conservation and Waste Heat Recovery	Y	Y	Y	17
119	<a href="#">112105233</a>	21	NOC:Metal Cutting and Machine Tools	Y	Y	Y	6.4
120	<a href="#">112104230</a>	50	NOC:Product Design and Manufacturing	Y	Y	Y	24
121	<a href="#">112106237</a>	33	NOC:Transport Phenomena in Materials	Y	Y	Y	11
122	<a href="#">112105234</a>	45	NOC:Gear and Gear Unit Design: Theory and Practice	Y	Y	Y	11
123	<a href="#">112105235</a>	45	NOC:Traditional and Non-Traditional Optimization Tools	Y	Y	Y	11
124	<a href="#">112104228</a>	32	NOC:Design Practice	Y	Y	Y	8.4
125	<a href="#">112105236</a>	40	NOC:Mechanism and Robot Kinematics	Y	Y	Y	12
126	<a href="#">112103244</a>	23	NOC:Advances in Welding and Joining Technologies	Y	Y	Y	12
127	<a href="#">112107240</a>	40	NOC:Automatic Control	Y	Y	Y	11
128	<a href="#">112107241</a>	40	NOC:Failure Analysis and Prevention	Y	Y	Y	11
129	<a href="#">112107242</a>	40	NOC:Mechanical Measurement System	Y	Y	Y	12
130	<a href="#">112103245</a>	27	NOC:Introduction to Machining and Machining Fluids	Y	Y	Y	9.9
131	<a href="#">112107238</a>	60	NOC:Operations Management	Y	Y	Y	4.1
132	<a href="#">112104229</a>	72	NOC:Introduction To Composites	Y	Y	Y	14
133	<a href="#">112108246</a>	60	NOC:Convective Heat Transfer (2018)	Y	Y	Y	14
134	<a href="#">112103243</a>	30	NOC:Fundamentals of Nuclear Power Generation	Y	Y	Y	6.9
135	<a href="#">112105232</a>	60	NOC:Machinery Fault Diagnosis and Signal Processing	Y	Y	Y	15
136	<a href="#">112105231</a>	63	NOC:Introduction to Mechanical Micro Machining	Y	Y	Y	16
137	<a href="#">112107239</a>	60	NOC:Theory of Production Processes	Y	Y	Y	17
138	<a href="#">112106247</a>	37	NOC:Experimental Stress Analysis: An Overview	Y	Y	Y	62
139	<a href="#">112102248</a>	15	NOC:RAC Product Design	Y	Y	Y	9.6

140	<a href="#">112103248</a>	20	NOC:Mechanics of Machining	Y	Y	Y	6.2
141	<a href="#">112103249</a>	58	NOC:Principle of Hydraulic Machines and System Design	Y	Y	---	8.4
142	<a href="#">112103250</a>	25	NOC:Introduction to Abrasive Machining and Finishing Processes	Y	Y	Y	18
143	<a href="#">112103251</a>	14	NOC:Theory of Rectangular Plates - Part I	Y	Y	Y	3.8
144	<a href="#">112104248</a>	40	NOC:Phase Equilibria in Materials-Nature and Properties of Materials-II	Y	Y	Y	7.6
145	<a href="#">112104249</a>	72	NOC:Advanced Composites	Y	Y	Y	8.4
146	<a href="#">112104250</a>	52	NOC:Engineering Metrology	Y	Y	Y	18
147	<a href="#">112104251</a>	19	NOC:Smart Materials and Intelligent System Design	Y	Y	Y	7.7
148	<a href="#">112104252</a>	37	NOC:Design Practice-II	Y	Y	Y	7.0
149	<a href="#">112105248</a>	66	NOC:Heat Exchangers: Fundamentals and Design Analysis	Y	Y	Y	18
150	<a href="#">112105249</a>	45	NOC:Robotics	Y	Y	Y	11
151	<a href="#">112106248</a>	50	NOC:Mechanics of Human Movement	Y	Y	Y	53
152	<a href="#">112106249</a>	41	NOC:Design for Quality, Manufacturing and Assembly	Y	Y	Y	35
153	<a href="#">112106250</a>	19	NOC:Surrogates and Approximations in Engineering Design	Y	Y	Y	14
154	<a href="#">112107248</a>	60	NOC:Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	Y	Y	Y	8.5
155	<a href="#">112107249</a>	60	NOC:Work System Design	Y	Y	Y	19
156	<a href="#">112107250</a>	40	NOC:Principles of Metal Forming Technology	Y	Y	Y	7.8
157	<a href="#">112102255</a>	54	NOC:Thermodynamics	Y	Y	Y	32
158	<a href="#">112103261</a>	33	NOC:Principles of Mechanical Measurement	Y	Y	Y	16
159	<a href="#">112103262</a>	50	NOC:IC Engines and Gas Turbines	Y	Y	Y	21
160	<a href="#">112103263</a>	24	NOC:Fundamental of Welding Science and Technology	Y	Y	Y	13
161	<a href="#">112103264</a>	15	NOC:Polymer Assisted Abrasive Finishing Processes	Y	Y	Y	11
162	<a href="#">112104265</a>	44	NOC:Rapid Manufacturing	Y	Y	Y	27
163	<a href="#">112105266</a>	68	NOC:Concepts of Thermodynamics	Y	Y	Y	19
164	<a href="#">112105267</a>	40	NOC:Electronic Packaging and Manufacturing	Y	Y	Y	10
165	<a href="#">112105268</a>	40	NOC:Kinematics of Mechanisms and Machines	Y	Y	Y	11
166	<a href="#">112107256</a>	40	NOC:Radiative Heat Transfer	Y	Y	Y	7.3
167	<a href="#">112107257</a>	40	NOC:Weldability of Metals	Y	Y	Y	5.3
168	<a href="#">112107258</a>	40	NOC:Manufacturing Guidelines for Product Design	Y	Y	Y	13
169	<a href="#">112107259</a>	20	NOC:Inspection and Quality Control in Manufacturing	Y	Y	Y	4.5
170	<a href="#">112107260</a>	60	NOC:Financial Mathematics	Y	Y	Y	9.7
171	<a href="#">112105269</a>	60	NOC:Introduction to Fluid Mechanics (2019)	Y	Y	Y	16
172	<a href="#">112106270</a>	37	Theory of Mechanism	Y	Y	---	90
173	<a href="#">112102284</a>	32	NOC:Solid Mechanics	Y	Y	Y	26
174	<a href="#">112103273</a>	38	NOC:Mathematical Modeling of Manufacturing Processes	Y	Y	Y	25
175	<a href="#">112103274</a>	8	NOC:Two-Phase flow with phase change in conventional and miniature channels	Y	Y	Y	5.0
176	<a href="#">112103275</a>	36	NOC:Applied Thermodynamics For Engineers	Y	Y	Y	27

177	<a href="#">112103276</a>	33	NOC:Fundamentals of Conduction and Radiation	Y	Y	Y	22
178	<a href="#">112103277</a>	33	NOC:Steam Power Engineering	Y	Y	Y	8.5
179	<a href="#">112103278</a>	45	NOC:Dynamic Behaviour of Materials	Y	Y	Y	14
180	<a href="#">112103279</a>	36	NOC:Plastic Working of Metallic Materials	---	Y	Y	9.9
181	<a href="#">112103280</a>	34	NOC:Fundamentals of Artificial Intelligence	Y	Y	Y	17
182	<a href="#">112103281</a>	42	NOC:Aircraft Propulsion	Y	Y	Y	12
183	<a href="#">112104272</a>	60	NOC:Turbulent Combustion: Theory and Modelling	Y	Y	Y	26
184	<a href="#">112104288</a>	20	NOC:Manufacturing Automation	Y	Y	Y	8.4
185	<a href="#">112105287</a>	59	NOC:Advanced Concepts in Fluid Mechanics	Y	Y	Y	28
186	<a href="#">112106286</a>	37	NOC:Engineering Mechanics	Y	Y	Y	127
187	<a href="#">112107282</a>	20	NOC:Product Design Using Value Engineering	Y	Y	Y	9.1
188	<a href="#">112107283</a>	20	NOC:Selection of Nanomaterials for Energy Harvesting and Storage Application	Y	Y	Y	4.8
189	<a href="#">112108285</a>	25	NOC:A Short Lecture Series on Contour Integration in the Complex Plane	Y	Y	Y	3.5
190	<a href="#">112105254</a>	60	NOC:Computational Fluid Dynamics	---	Y	---	5.9
191	<a href="#">112105271</a>	65	NOC:Conduction and Convection Heat Transfer	Y	Y	---	11
192	<a href="#">112106253</a>	55	NOC: Steel Quality: Role of Secondary Refining and Continuous Casting	---	Y	Y	4.9
193	<a href="#">112107290</a>	39	NOC:Acoustic Metamaterials	Y	Y	Y	6.8
194	<a href="#">112103289</a>	37	NOC:Computational Fluid Dynamics for Incompressible Flows	Y	Y	Y	22
195	<a href="#">112104289</a>	50	NOC:Computer Integrated Manufacturing	Y	Y	Y	40
196	<a href="#">112103290</a>	43	NOC:Experimental Methods in Fluid Mechanics	Y	Y	Y	14
197	<a href="#">112106289</a>	34	NOC:Foundations of Computational Materials Modelling	Y	Y	Y	29
198	<a href="#">112106290</a>	33	NOC:Fundamentals of Combustion for Propulsion	Y	Y	Y	26
199	<a href="#">112108289</a>	43	NOC:Introduction to Soft Matter	Y	Y	Y	5.2
200	<a href="#">112104290</a>	20	NOC:Machining Science	Y	Y	Y	9.4
201	<a href="#">112107291</a>	40	NOC:Power Plant Engineering	Y	Y	Y	3.9
202	<a href="#">112107292</a>	60	NOC:Principles of Industrial Engineering	Y	Y	Y	5.8
203	<a href="#">112107289</a>	40	NOC:Robotics and Control: Theory and Practice	Y	Y	Y	3.4
204	<a href="#">112103293</a>	38	NOC:Automation in Manufacturing	Y	Y	Y	8.4
205	<a href="#">112106293</a>	66	NOC:Basics of Materials Engineering	Y	Y	Y	11
206	<a href="#">112103296</a>	40	NOC:Computational Continuum Mechanics	Y	Y	Y	6.6
207	<a href="#">112106294</a>	42	NOC:Computational Fluid Dynamics using Finite Volume Method	Y	Y	Y	7.7
208	<a href="#">112105294</a>	65	NOC:Engineering Drawing and Computer Graphics	Y	Y	Y	17
209	<a href="#">112103295</a>	35	NOC:Finite Element Method: Variational Methods to Computer Programming	---	Y	---	5.5
210	<a href="#">112104293</a>	14	NOC:Foundations of Cognitive Robotics	Y	Y	Y	7.6
211	<a href="#">112103294</a>	31	NOC:Fundamentals of Compressible Flow	Y	Y	Y*	4.5
212	<a href="#">112103297</a>	43	NOC:Fundamentals of Convective Heat Transfer	Y	Y	Y	8.8

213	<a href="#">112105293</a>	40	NOC:High Performance Computing for Scientists and Engineers	Y	Y	Y	24
214	<a href="#">112101298</a>	67	NOC:Optimization from Fundamentals	Y	Y	---	5.4
215	<a href="#">112102298</a>	29	NOC:Introduction to Uncertainty Analysis and Experimentation	---	Y	---	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	---	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	---	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	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	---	3.5
260	<a href="#">112102316</a>	15	NOC:Ideal Fluid Flows using Complex Analysis	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	---	4.7
264	<a href="#">112106316</a>	67	NOC:Inverse Methods in Heat Transfer	Y	Y	---	4.7
265	<a href="#">112108316</a>	43	NOC:Optical Methods for Solid and Fluid Mechanics	Y	Y	---	3.8
266	<a href="#">112108317</a>	59	NOC:Statistical Thermodynamics for Engineers	Y	Y	Y	3.6
267	<a href="#">112102318</a>	40	NOC:Experimental Modal Analysis	---	Y	---	5.6
268	<a href="#">112102319</a>	53	NOC:Mechanical Behavior of Polymers and Composites	---	Y	---	5.0
269	<a href="#">112104318</a>	127	NOC:Applied Numerical Methods	---	Y	---	4.0
270	<a href="#">112104319</a>	52	NOC:Social Innovation in Industry 4.0	---	Y	---	6.2
271	<a href="#">112105318</a>	68	NOC:Microfluidics and Nanofluidics	---	Y	---	19
272	<a href="#">112105319</a>	50	NOC:Industrial Robotics: Theories for Implementation	---	Y	---	6.3
273	<a href="#">112106318</a>	89	NOC:Sustainable Energy Technology	---	Y	---	8.0
274	<a href="#">112106319</a>	39	NOC:Strength of Materials - IITM	---	Y	---	9.9
275	<a href="#">112106320</a>	70	NOC:Engineering Thermodynamics	---	Y	---	7.9
276	<a href="#">112106321</a>	61	NOC:Theory of Fire Propagation (Fire Dynamics)	---	Y	---	8.5
277	<a href="#">112101429</a>	---	NOC:Nonlinear Control Design	---	---	---	---
278	<a href="#">112102428</a>	---	NOC:Data-Enabled Tribological Engineering: From Experiments to Predictive Models	---	---	---	---
279	<a href="#">112103420</a>	---	NOC:Mechanics of Sheet Metal Forming	---	---	---	---
280	<a href="#">112103421</a>	---	NOC:Power Plant System Engineering	---	---	---	---
281	<a href="#">112103427</a>	---	NOC:Introduction to Solidification Processing	---	---	---	---
282	<a href="#">112104418</a>	---	NOC:Engineering Thermodynamics in Hindi	---	---	---	---
283	<a href="#">112104425</a>	---	NOC:Advanced Machining Processes (2024)	---	---	---	---
284	<a href="#">112104450</a>	---	NOC:Introduction to Refrigeration and Air Conditioning	---	---	---	---
285	<a href="#">112105422</a>	---	NOC:Cryogenic Hydrogen Technology	---	---	---	---
286	<a href="#">112105423</a>	---	NOC:Industrial Hydraulics and Automation	---	---	---	---
287	<a href="#">112106419</a>	---	NOC:Applied Thermodynamics (2024)	---	---	---	---
288	<a href="#">112106424</a>	---	NOC:Design of Mechanical Transmission Systems	---	---	---	---

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

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

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



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

**Discipline : Ocean Engineering**

[Go to Top](#)

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1	<a href="#">114105002</a>	49	Elements of Ocean Engineering	Y	Y	Y	12
2	<a href="#">114105003</a>	40	Hydrostatics and Stability	Y	Y	Y	19
3	<a href="#">114105004</a>	41	Marine Construction and Welding	Y	Y	Y	8.6
4	<a href="#">114105005</a>	40	Marine Hydrodynamics	Y	Y	Y	12
5	<a href="#">114105006</a>	40	Seakeeping and Manoeuvring	Y	Y	Y	8.6
6	<a href="#">114105029</a>	27	Applied Thermodynamics for Marine Systems	Y	Y	Y	5.6
7	<a href="#">114105030</a>	40	Performance of Marine Vehicles at Sea	Y	Y	Y	11
8	<a href="#">114105031</a>	36	Strength and Vibration of Marine Structures	Y	Y	Y	5.2
9	<a href="#">114106011</a>	42	Design of Offshore Structures	Y	Y	Y	16
10	<a href="#">114106015</a>	33	Foundation for Offshore Structures	Y	Y	Y	11
11	<a href="#">114106017</a>	35	Health,Safety and Environmental Management in Petroleum and Offshore Engineering	Y	Y	Y	8.0
12	<a href="#">114106025</a>	48	Port and Harbour Structures	Y	Y	Y	30
13	<a href="#">114106026</a>	17	Ship Resistance and Propulsion	Y	Y	Y	6.6
14	<a href="#">114106032</a>	37	Coastal Engineering	Y	Y	Y	14
15	<a href="#">114106033</a>	25	Wave Hydrodynamics	Y	Y	Y	9.8
16	<a href="#">114106035</a>	38	Ocean Structures and Materials	Y	Y	Y	12
17	<a href="#">114106036</a>	49	Dynamics of Ocean Structures	Y	Y	Y	20
18	<a href="#">114106037</a>	53	Advanced Marine Structures	Y	Y	Y	21
19	<a href="#">114106038</a>	47	NOC:Dynamics of Ocean Structures	Y	Y	Y	23
20	<a href="#">114106039</a>	37	NOC:Health, Safety and Environmental Management in Offshore and Petroleum Engineering	Y	Y	Y	8.1

21	<a href="#">114106042</a>	55	NOC:HSE for offshore and petroleum engineers	Y	Y	Y	24
22	<a href="#">114106041</a>	58	NOC:Risk and Reliability of offshore structures	Y	Y	Y	25
23	<a href="#">114106043</a>	53	NOC:Offshore Structures Under Special Loads Including Fire Resistance	Y	Y	Y	33
24	<a href="#">114106045</a>	118	NOC:Computer Methods Of Structural Analysis of Offshore Structures	Y	Y	Y	103
25	<a href="#">114105044</a>	65	NOC:Water Economics and Governance	Y	Y	Y	16
26	<a href="#">114106046</a>	84	NOC:Structural Health Monitoring	Y	Y	Y	67
27	<a href="#">114105047</a>	40	NOC:Marine Propulsion	Y	Y	Y	3.2
28	<a href="#">114105048</a>	60	NOC:Numerical Ship and Offshore Hydrodynamics	Y	Y	Y	4.7
29	<a href="#">114106047</a>	64	NOC:Advanced Design of Steel Structures	Y	Y	Y	7.3
30	<a href="#">114106443</a>	---	NOC:Surface Facilities for Oil and Gas Handling	---	---	---	---
<b>Discipline : Physics</b>							
<a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/physics.pdf">http://www.digimat.in/downloads/topics/physics.pdf</a></b>							
1	<a href="#">115101005</a>	40	Electromagnetic Theory (Prof. D.K. Ghosh)	Y	Y	Y	29
2	<a href="#">115101011</a>	24	Special Theory of Relativity	Y	Y	Y	22
3	<a href="#">115102014</a>	42	Electronics	Y	Y	Y	19
4	<a href="#">115102020</a>	42	Fundamentals and Applications	Y	Y	Y	19
5	<a href="#">115102022</a>	42	Quantum Electronics	Y	Y	Y	17
6	<a href="#">115102023</a>	42	Quantum Mechanics and Applications	Y	Y	Y	19
7	<a href="#">115102026</a>	46	Semiconductor Optoelectronics	Y	Y	Y	32
8	<a href="#">115104043</a>	43	Nuclear Physics: Fundamentals and Applications	Y	Y	Y	12
9	<a href="#">115104088</a>	78	NOC:Introduction to Electromagnetism	Y	Y	Y	2.1
10	<a href="#">115105046</a>	40	Astrophysics and Cosmology	Y	Y	Y	9.7
11	<a href="#">115106057</a>	40	Special / Select Topics in Atomic Physics	Y	Y	Y	16
12	<a href="#">115106058</a>	39	Classical Field Theory	Y	Y	Y	17
13	<a href="#">115106059</a>	29	Topics in Nonlinear Dynamics	Y	Y	Y	15
14	<a href="#">115106061</a>	58	Condensed Matter Physics	Y	Y	Y	18
15	<a href="#">115106065</a>	38	Quantum Field Theory	Y	Y	Y	27
16	<a href="#">115106066</a>	41	Quantum Mechanics I	Y	Y	Y	20
17	<a href="#">115106068</a>	40	Special / Select Topics in Classical Mechanics	Y	Y	Y	13
18	<a href="#">115106085</a>	46	Special / Select Topics in the Theory of Atomic Collisions and Spectroscopy	Y	Y	Y	14
19	<a href="#">115106086</a>	36	Selected Topics in Mathematical Physics	Y	Y	Y	24
20	<a href="#">115106090</a>	43	NOC: Mechanics, heat oscillations and waves	Y	Y	Y	12
21	<a href="#">115108074</a>	45	Relativistic Quantum Mechanics	Y	Y	Y	26
22	<a href="#">115106087</a>	30	Nuclear Reactors and Safety- An Introduction	Y	Y	Y	16
23	<a href="#">115106089</a>	29	Physical Applications of Stochastic Processes	Y	Y	Y	27
24	<a href="#">115106091</a>	36	Nonequilibrium Statistical Mechanics	Y	Y	Y	32
25	<a href="#">115104094</a>	100	NOC:Engineering Mechanics	Y	Y	Y	3.8

26	<a href="#">115101092</a>	46	NOC:Quantum Information and Computing	Y	Y	Y	19
27	<a href="#">115107095</a>	40	NOC:Fiber Optics	Y	Y	Y	11
28	<a href="#">115104095</a>	23	NOC:Computational Science and Engineering Using Python	Y	Y	Y	2.2
29	<a href="#">115104096</a>	55	NOC:Introductory Quantum Mechanics	Y	Y	Y	2.3
30	<a href="#">115105097</a>	60	NOC:Mathematical Methods in Physics - I	Y	Y	Y	17
31	<a href="#">115105098</a>	60	NOC:Classical Mechanics: from Newtonian to Lagrangian Formulation	Y	Y	Y	16
32	<a href="#">115105099</a>	75	NOC:Solid State Physics	Y	Y	Y	25
33	<a href="#">115103102</a>	25	NOC:Advanced Condensed Matter Physics	Y	Y	Y	2.6
34	<a href="#">115105100</a>	60	NOC:Atomic and Molecular Physics	Y	Y	Y	18
35	<a href="#">115103101</a>	44	NOC:Nuclear and Particle Physics	Y	Y	Y	8.7
36	<a href="#">115102103</a>	45	Semiconductor Optoelectronics (Repurposed)	Y	Y	Y	36
37	<a href="#">115101104</a>	48	NOC:Theory of Groups for Physics Applications	Y	Y	Y	39
38	<a href="#">115103104</a>	33	NOC:Advanced Quantum Mechanics with Applications	Y	Y	Y	7.1
39	<a href="#">115105104</a>	59	NOC:Modern Optics	Y	Y	Y	15
40	<a href="#">115105105</a>	60	NOC:Introduction to Non-linear Optics and its Applications	Y	Y	Y	16
41	<a href="#">115105106</a>	86	NOC:Upstream LNG Technology	Y	Y	Y	16
42	<a href="#">115108104</a>	50	NOC:Control System Design	Y	Y	Y	14
43	<a href="#">115101107</a>	71	NOC:Quantum Mechanics-I	Y	Y	Y	41
44	<a href="#">115103108</a>	17	NOC:A Brief Course on Superconductivity	Y	Y	Y	5.9
45	<a href="#">115104109</a>	87	NOC:Introduction to Solid State Physics	Y	Y	Y*	17
46	<a href="#">115105110</a>	60	NOC:Experimental Physics-I	Y	Y	Y	31
47	<a href="#">115106111</a>	35	NOC:Statistical Mechanics	Y	Y	Y*	106
48	<a href="#">115101117</a>	32	NOC:Path Integral and Functional Methods in Quantum Field Theory	Y	Y	Y	37
49	<a href="#">115103113</a>	32	NOC:Introduction to Statistical Mechanics	Y	Y	Y	14
50	<a href="#">115103114</a>	24	NOC:Numerical Methods and Simulation Techniques for Scientists and Engineers	Y	Y	Y	19
51	<a href="#">115103115</a>	27	NOC:Theoretical Mechanics	Y	Y	Y	4.3
52	<a href="#">115104112</a>	44	NOC:Physics of Turbulence	Y	Y	Y	20
53	<a href="#">115105120</a>	61	NOC:Experimental Physics - II	Y	Y	Y	31
54	<a href="#">115106118</a>	58	NOC:Computational Physics	Y	Y	Y	42
55	<a href="#">115106119</a>	58	NOC:Waves and Oscillations	Y	Y	Y	33
56	<a href="#">115107116</a>	40	NOC:Solar Photovoltaics Fundamentals, Technology and Applications	Y	Y	Y	6.1
57	<a href="#">115106122</a>	83	NOC:Electromagnetism	Y	Y	Y	16
58	<a href="#">115105122</a>	60	NOC:Electronic Theory of Solids	Y	Y	Y	12
59	<a href="#">115105121</a>	62	NOC:Experimental Physics - III	Y	Y	Y	27
60	<a href="#">115101122</a>	59	NOC:Group Theory Methods in Physics	Y	Y	Y	50
61	<a href="#">115107121</a>	60	NOC:Introduction to Atmospheric and Space Sciences	Y	Y	Y	6.9
62	<a href="#">115107122</a>	20	NOC:Optical Sensors	Y	Y	Y	3.0
63	<a href="#">115101121</a>	62	NOC:Physics of Biological Systems	Y	Y	Y	40

64	<a href="#">115106121</a>	50	NOC:Physics through Computational Thinking	Y	Y	Y	26
65	<a href="#">115106123</a>	67	NOC:Introduction to Classical Mechanics	Y	Y	Y	20
66	<a href="#">115103123</a>	34	NOC:Solar Energy Engineering and Technology	Y	Y	Y	5.1
67	<a href="#">115102124</a>	38	NOC:Introduction to LASER	Y	Y	---	5.6
68	<a href="#">115104124</a>	57	NOC:Introduction to Astrophysical Fluids	Y	Y	Y	6.7
69	<a href="#">115105124</a>	60	NOC:Physics of Linear and Nonlinear Optical Waveguides	Y	Y	---	5.3
70	<a href="#">115106124</a>	64	NOC:Fluid Dynamics for Astrophysics	Y	Y	---	5.5
71	<a href="#">115106125</a>	33	NOC:Quantum Transport	---	Y	---	3.6
72	<a href="#">115106126</a>	65	NOC:Statistical Mechanics (2021)	Y	Y	---	4.5
73	<a href="#">115105127</a>	51	NOC:Physics of Renewable Energy Systems	Y	Y	Y	7.2
74	<a href="#">115106127</a>	70	NOC:Solid State Physics	Y	Y	Y*	3.2
75	<a href="#">115106128</a>	51	NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields)	Y	Y	Y	3.1
76	<a href="#">115108127</a>	60	NOC:Bonds and Bands in Solids	---	Y	---	5.0
77	<a href="#">115103129</a>	44	NOC:Quantum Technology and Quantum Phenomena in Macroscopic Systems	Y	Y	Y	3.9
78	<a href="#">115105129</a>	60	NOC:Thermal Physics	---	Y	---	7.6
79	<a href="#">115107129</a>	60	NOC:Advanced Atmospheric Physics	---	Y	---	5.4
80	<a href="#">115107130</a>	40	NOC:Nuclear Astrophysics	Y	Y	Y	5.5
81	<a href="#">115108129</a>	60	NOC:Advanced NMR Techniques in Solution and Solid-State	Y	Y	Y	11
82	<a href="#">115101131</a>	69	NOC:Neutron Scattering for Condensed Matter Studies	---	Y	---	4.6
83	<a href="#">115101132</a>	72	NOC:Accelerator Physics	---	Y	---	5.7
84	<a href="#">115103131</a>	48	NOC:Dynamics of Classical and Quantum Fields	---	Y	---	5.1
85	<a href="#">115105131</a>	40	NOC:Concepts in Magnetism and Superconductivity	---	Y	---	3.4
86	<a href="#">115105132</a>	73	NOC:Foundations of Classical Electrodynamics	Y	Y	Y	5.4
87	<a href="#">115107131</a>	60	NOC:Applied Optics	Y	Y	Y	5.7
88	<a href="#">115106133</a>	39	NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields) - Part 2	---	Y	---	2.7
89	<a href="#">115103134</a>	22	NOC:Quantum Hall Effects	---	Y	---	3.0
90	<a href="#">115104134</a>	53	NOC:Introduction to Electromagnetic Theory (Hindi)	---	Y	---	3.8
91	<a href="#">115104135</a>	71	NOC:Scientific Computing Using Python	---	Y	---	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	---	4.9
95	<a href="#">115103444</a>	---	NOC:Quantum Entanglement: Fundamentals, Measures and Applications	---	---	---	---
96	<a href="#">115103445</a>	---	NOC:Topology and Condensed Matter Physics	---	---	---	---
97	<a href="#">115104446</a>	---	NOC:Tapestry of Field theory: Classical and Quantum, Equilibrium and Nonequilibrium Perspectives	---	---	---	---
98	<a href="#">115104448</a>	---	NOC:Coherence and Quantum Entanglement	---	---	---	---
99	<a href="#">115107447</a>	---	NOC:Plasma Physics and Applications	---	---	---	---

**Discipline : Textile Engineering**[Go to Top](#)**Video Lecture Topics @ <http://www.digimat.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**[Go to Top](#)**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	<a href="#">117105133</a>	24	NOC:Audio System Engineering	Y	Y	Y	7.4
62	<a href="#">117105132</a>	40	NOC:Fundamentals of MIMO Wireless Communication	Y	Y	Y	11
63	<a href="#">117105131</a>	40	NOC:Satellite Communication Systems	Y	Y	Y	8.9
64	<a href="#">117104128</a>	35	NOC:Digital Switching-I	Y	Y	Y	3.3
65	<a href="#">117104126</a>	35	NOC:Bayesian/MMSE Estimation for Wireless Communications MIMO / OFDM Cellular and Sensor Networks	Y	Y	Y	1.6
66	<a href="#">117105130</a>	20	NOC:Basic Building Blocks of Microwave Engineering	Y	Y	Y	5.2
67	<a href="#">117105134</a>	40	NOC:Discrete Time Signal Processing	Y	Y	Y	11
68	<a href="#">117104129</a>	24	NOC:An Introduction to Information Theory	Y	Y	Y	2.6
69	<a href="#">117104127</a>	54	NOC:Optical Communications	Y	Y	Y	2.9
70	<a href="#">117103125</a>	54	NOC:VLSI Design Verification and Test	Y	Y	Y	16
71	<a href="#">117108047</a>	41	Nanoelectronics: Devices and Materials	Y	Y	Y	14
72	<a href="#">117105139</a>	40	NOC:Millimeter Wave Technology	Y	Y	Y	11
73	<a href="#">117105138</a>	20	NOC:Design Principles of RF and Microwave Filters and Amplifiers	Y	Y	Y	5.5
74	<a href="#">117105137</a>	60	NOC:Digital VLSI Testing	Y	Y	Y	14
75	<a href="#">117105136</a>	69	NOC:Spread Spectrum Communications and Jamming	Y	Y	Y	16
76	<a href="#">117108140</a>	61	NOC:Enclosure Design of Electronics Equipment	Y	Y	Y	12
77	<a href="#">117108141</a>	118	NOC:Design of Photovoltaic Systems	Y	Y	Y	11
78	<a href="#">117108142</a>	14	NOC:Photonic Integrated Circuits	Y	Y	Y	4.7
79	<a href="#">117105140</a>	60	NOC:Power System Analysis	Y	Y	Y	16
80	<a href="#">117105143</a>	60	NOC:Analog Communication	Y	Y	Y	16
81	<a href="#">117105144</a>	60	NOC:Modern Digital Communication Techniques	Y	Y	Y	16
82	<a href="#">117105145</a>	44	NOC:Digital Speech Processing	Y	Y	Y	12
83	<a href="#">117105147</a>	58	NOC:Analog Circuits and Systems through SPICE Simulation	Y	Y	Y	21
84	<a href="#">108107107</a>	20	NOC:Basics of Software Defined Radios and Practical Applications	Y	Y	Y	4.3
85	<a href="#">108106105</a>	57	NOC:Analog IC Design	Y	Y	Y	42
86	<a href="#">117103148</a>	70	NOC:Design of Power Electronic Converters	Y	Y	Y	4.0
87	<a href="#">117103149</a>	35	NOC:Operation and Planning of Power Distribution Systems	Y	Y	Y	6.3
88	<a href="#">117105148</a>	58	NOC:Communication Networks	---	Y	---	5.1
89	<a href="#">117105149</a>	60	NOC:Signal Processing Techniques and its Applications	---	Y	---	6.0
90	<a href="#">117106148</a>	63	NOC:Circuit Analysis for Analog Designers	---	Y	---	5.3
91	<a href="#">117106149</a>	94	NOC:Design and Analysis of VLSI Subsystems	Y	Y	Y	5.8
92	<a href="#">117107148</a>	40	NOC:Digital Protection of Power System	Y	Y	---	4.6

93	<a href="#">117107149</a>	60	NOC:Physics of Nanoscale Devices	---	Y	---	5.3
94	<a href="#">117108148</a>	53	NOC:Neural Science for Engineers	Y	Y	Y	7.7
95	<a href="#">117103150</a>	36	NOC:Nanophotonics, Plasmonics, and Metamaterials	---	Y	---	5.0
<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	<a href="#">118102003</a>	40	Nano structured materials-synthesis, properties, self assembly and applications	Y	Y	Y	34
2	<a href="#">118104008</a>	45	Nanostructures and Nanomaterials: Characterization and Properties	Y	Y	Y	20
<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	<a href="#">119106008</a>	41	Introduction to Atmospheric Science	Y	Y	Y	29
2	<a href="#">119108004</a>	38	Radiation Heat Transfer	Y	Y	Y	11
3	<a href="#">119108006</a>	42	The monsoon and its variability	Y	Y	Y	11
<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	<a href="#">121104005</a>	40	Introduction to Japanese Language and Culture	Y	Y	Y	18
2	<a href="#">121106003</a>	20	Ayurvedic Inheritance of India	Y	Y	Y	9.3
3	<a href="#">121104006</a>	5	Astronomy in Ancient, Medieval and Early Telescopic Era of India	Y	Y	Y	3.6
4	<a href="#">121106007</a>	48	NOC:Introduction to Research	Y	Y	Y	13
5	<a href="#">121106008</a>	22	NOC:Biology for engineers and other non-biologists	Y	Y	Y	11
6	<a href="#">121105009</a>	20	NOC:Stress Management	Y	Y	Y	5.5
7	<a href="#">121105010</a>	20	NOC:Outcome Based Pedagogic Principles for Effective Teaching	Y	Y	Y	5.2
8	<a href="#">121107009</a>	20	NOC:Introduction to Remote Sensing	Y	Y	Y	5.5
9	<a href="#">121106011</a>	22	NOC:Digital and the Everyday: from Codes to Cloud	Y	Y	Y	26
10	<a href="#">121106012</a>	25	NOC:Effective Engineering Teaching in Practice	Y	Y	Y	32
11	<a href="#">121106013</a>	90	NOC:Virtual Reality Engineering	Y	Y	Y	35
12	<a href="#">121106014</a>	40	NOC:Non-Conventional Energy Resources	Y	Y	Y	77
<b>Discipline : Basic Courses (Semester 1 and 2)</b> <a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/basic-courses-semester-1-and-2.pdf">http://www.digimat.in/downloads/topics/basic-courses-semester-1-and-2.pdf</a></b>							
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>	---	NOC:Mine Automation and Data Analytics	---	---	---	---

**Discipline : Architecture**

[Go to Top](#)

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

1	<a href="#">124107001</a>	40	NOC:Housing Policy and Planning	Y	Y	Y	11
2	<a href="#">124105001</a>	40	NOC:Landscape Architecture and Site Planning - Basic Fundamentals	Y	Y	Y	12
3	<a href="#">124107002</a>	20	NOC:Visual Communication Design for Digital Media	Y	Y	Y	4.6
4	<a href="#">124105003</a>	43	NOC:Architectural Conservation and Historic Preservation	Y	Y	Y	11
5	<a href="#">124105004</a>	40	NOC:Architectural Acoustics	Y	Y	Y	11
6	<a href="#">124107004</a>	40	NOC:Culturally Responsive Built Environments	Y	Y	Y	12
7	<a href="#">124107005</a>	40	NOC:Contemporary Architecture and Design	Y	Y	Y	10
8	<a href="#">124107006</a>	40	NOC:Role of Craft and Technology in Interior-Architecture	Y	Y	Y	11
9	<a href="#">124106009</a>	20	NOC:Introduction to History of Architecture in India	Y	Y	Y	17
10	<a href="#">124107007</a>	60	NOC:Urban Governance and Development Management	Y	Y	Y	12
11	<a href="#">124107008</a>	20	NOC:User Interface Design	Y	Y	Y	5.8
12	<a href="#">124107010</a>	40	NOC:Disaster Recovery and Build Back Better	Y	Y	Y	8.1
13	<a href="#">124107012</a>	40	NOC:Structure, Form and Architecture: The Synergy	Y	Y	Y	9.9
14	<a href="#">124107011</a>	60	NOC:Sustainable Architecture	Y	Y	Y	14

15	<a href="#">124105013</a>	40	NOC:Building Materials and Composites	Y	Y	Y	19
16	<a href="#">124105014</a>	60	NOC:Environmental Soil Chemistry	Y	Y	Y	31
17	<a href="#">124105015</a>	40	NOC:Structural System in Architecture	Y	Y	Y	12
18	<a href="#">124105016</a>	60	NOC:Urban Landuse and Transportation Planning	Y	Y	Y	20
19	<a href="#">124106157</a>	43	NOC:Strategies for Sustainable Design	Y	Y	Y	4.6
20	<a href="#">124107157</a>	40	NOC:Engineering/Architectural Graphics - Part I: Orthographic projection	Y	Y	Y	11
21	<a href="#">124105158</a>	60	NOC:Urban utilities Planning : Water Supply, Sanitation and Drainage	Y	Y	Y	8.0
22	<a href="#">124107158</a>	40	NOC:Introduction to Urban Planning	---	Y	---	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	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	---	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>	---	NOC:Research Methodology for Planning and Architectural Studies	---	---	---	---
<b>Discipline : Agriculture</b> Go to Top							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/agriculture.pdf">http://www.digimat.in/downloads/topics/agriculture.pdf</a></b>							
1	<a href="#">126104001</a>	26	NOC:Basic Crop Production Practices (BCPP)	---	Y	---	1.9
2	<a href="#">126104002</a>	46	NOC:GIS in Ag-Essentials and Applications (GIS)	Y	Y	Y	3.9
3	<a href="#">126104003</a>	47	NOC:Integrated Pest Management (IPM)	---	Y	---	5.7
4	<a href="#">126104004</a>	49	NOC:Nutrition, Therapeutics and Health (NM)	Y	Y	---	4.7
5	<a href="#">126104005</a>	36	NOC:Weather Forecast in Agriculture and Agro-advisory (WF)	Y	Y	Y	3.2
6	<a href="#">126104006</a>	45	NOC:ICT Basics	Y	Y	Y	3.2
7	<a href="#">126105008</a>	60	NOC:Momentum Transfer in Process Engineering	Y	Y	Y	16
8	<a href="#">126105009</a>	60	NOC:Farm Machinery	Y	Y	Y	14
9	<a href="#">126105010</a>	60	NOC:Irrigation and Drainage	Y	Y	Y	17
10	<a href="#">126105011</a>	60	NOC:Fundamentals of Food Process Engineering	Y	Y	Y	17
11	<a href="#">126105012</a>	56	NOC:Soil and Water Conservation Engineering	Y	Y	Y	11
12	<a href="#">126105013</a>	60	NOC:Dairy and Food Process and Products Technology	Y	Y	Y	16
13	<a href="#">126105014</a>	40	NOC:Organic Farming for Sustainable Agricultural Production	Y	Y	Y	10
14	<a href="#">126105015</a>	60	NOC:Novel Technologies for Food Processing and Shelf Life Extension	Y	Y	Y	18
15	<a href="#">126105016</a>	60	NOC:Soil Science and Technology	Y	Y	Y	16
16	<a href="#">126103017</a>	31	NOC:Thermal Processing of Foods	Y	Y	Y	19
17	<a href="#">126105018</a>	60	NOC:Thermal Operations in Food Process Engineering: Theory and Applications	Y	Y	Y	16
18	<a href="#">126105019</a>	60	NOC:Micro Irrigation Engineering	Y	Y	---	11

19	<a href="#">126105020</a>	44	NOC:Instrumentation and Process Control in Food Industry	---	Y	---	3.4
20	<a href="#">126105021</a>	60	NOC:Machine Learning for Soil and Crop Management	Y	Y	Y	6.8
21	<a href="#">126103022</a>	65	NOC:Natural Resources Management	---	Y	---	6.8
22	<a href="#">126105022</a>	61	NOC:Advanced Aquaculture Technology	Y	Y	Y	6.1
23	<a href="#">126105023</a>	60	NOC:Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products	Y	Y	Y	7.9
24	<a href="#">126105024</a>	60	NOC:Soil Fertility and Fertilizers	Y	Y	Y	6.0
25	<a href="#">126105025</a>	60	NOC:Cooling Technology: Why and How utilized in Food Processing and Allied Industries	Y	Y	Y	6.4
26	<a href="#">126105026</a>	40	NOC:Traction Engineering	---	Y	---	2.8
27	<a href="#">126105027</a>	60	NOC:Food Oils and Fats : Chemistry and Technology	Y	Y	---	7.5
28	<a href="#">126105334</a>	---	NOC:Watershed Hydrology	---	---	---	---
29	<a href="#">126105335</a>	---	NOC:Water Quality Management Practices	---	---	---	---
30	<a href="#">126105336</a>	---	NOC:Modern Food Packaging Technologies: Regulatory Aspects and Global Trends	---	---	---	---
31	<a href="#">126105337</a>	---	NOC:Basics of Crop Breeding and Plant Biotechnology	---	---	---	---
<b>Discipline : Multi-Disciplinary</b>							
<b>Go to Top</b>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/multi-disciplinary.pdf">http://www.digimat.in/downloads/topics/multi-disciplinary.pdf</a></b>							
1	<a href="#">127106001</a>	83	NOC:Neuroscience of Human Movement	Y	Y	Y	71
2	<a href="#">127106003</a>	76	NOC:Manage TB	Y	Y	Y	40
3	<a href="#">127106004</a>	45	NOC:Ecology and Environment	Y	Y	Y	38
4	<a href="#">127101010</a>	38	NOC:Designing Learner-Centric MOOCs	Y	Y	Y	6.3
5	<a href="#">127105006</a>	42	NOC:Fuzzy Logic and Neural Networks	Y	Y	Y	11
6	<a href="#">127105007</a>	60	NOC:Entrepreneurship Essentials	Y	Y	---	15
7	<a href="#">127105008</a>	39	NOC:Roadmap for Patent Creation	Y	Y	Y	20
8	<a href="#">127106009</a>	13	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India	Y	Y	Y	4.6
9	<a href="#">127106010</a>	11	NOC:Regulatory Requirements for Medical Devices and IVD kits in India	Y	Y	Y	5.8
10	<a href="#">127108005</a>	20	NOC:Teaching and Learning in Engineering (TALE)	Y	Y	Y	3.4
11	<a href="#">127101012</a>	18	NOC:Introduction to Learning Analytics	Y	Y	Y	3.5
12	<a href="#">127101013</a>	33	NOC:Designing Learner-Centric e-Learning in STEM Disciplines	Y	Y	Y	9.3
13	<a href="#">127101014</a>	25	NOC:Sustainable and Affordable Sanitation Solutions for Small Towns: Policy, Planning and Practice	Y	Y	Y	17
14	<a href="#">127105017</a>	41	NOC:Accreditation and Outcome based Learning	---	Y	Y	15
15	<a href="#">127105018</a>	60	NOC:Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts	---	Y	Y	18
16	<a href="#">127106019</a>	113	NOC:Numerical Methods for Engineers	---	Y	---	44
17	<a href="#">127108015</a>	19	NOC:Teaching and Learning in General Programs: TALG	Y	Y	Y	4.7
18	<a href="#">127108016</a>	35	NOC:TALE 2: Course Design and Instruction of Engineering Courses	Y	Y	Y	9.0

19	<a href="#">127106134</a>	22	Basic Course in Biomedical Research	---	Y	Y	6.6
20	<a href="#">127106137</a>	28	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs (Version 2.0)	Y	Y	Y	15
21	<a href="#">127108135</a>	62	NOC:NBA Accreditation and Teaching Learning in Engineering (NATE)	Y	Y	Y	14
22	<a href="#">127106136</a>	14	NOC:Regulatory Requirements for Medical Devices including in Vitro Diagnostics in India (Version 2.0)	Y	Y	Y	6.8
23	<a href="#">127106135</a>	89	NOC:Thermodynamics	Y	Y	Y	47
24	<a href="#">106101224</a>	61	NOC:Learning Analytics Tools	Y	Y	Y	10
25	<a href="#">127103225</a>	43	NOC:Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers	Y	Y	Y	5.8
26	<a href="#">127105225</a>	60	NOC:Biophotonics	---	Y	---	6.9
27	<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	<a href="#">127105231</a>	60	NOC:Vacuum Technology and Process Application	---	Y	---	12
33	<a href="#">127105232</a>	40	NOC:Basics of Health Promotion and Education Intervention	---	Y	Y	3.6
34	<a href="#">127106231</a>	40	NOC:Introduction to Biomimicry	Y	Y	Y	3.4
35	<a href="#">127106232</a>	20	NOC:Electrocardiogram - Interpretation and Application in Clinical Practice	---	Y	Y	1.9
36	<a href="#">127101233</a>	60	NOC:Engineering Statistics	Y	Y	Y	4.6
37	<a href="#">127104233</a>	110	NOC:Foundation Certificate in Palliative Care	---	Y	---	6.0
38	<a href="#">127105233</a>	40	NOC:Basics of Mental Health and Clinical Psychiatry	Y	Y	Y	3.6
39	<a href="#">127105234</a>	40	NOC:Introduction to Reliability Engineering	Y	Y	Y	4.2
40	<a href="#">127105235</a>	40	NOC:Nanobio Technology Enabled Point-of-Care Devices	Y	Y	---	5.0
41	<a href="#">127106233</a>	23	NOC:One Health	Y	Y	Y	2.2
42	<a href="#">127102236</a>	27	NOC:Similitude and Approximations in Engineering	---	Y	---	2.1
43	<a href="#">127103236</a>	37	NOC:Sustainable Power Generation Systems	---	Y	---	4.3
44	<a href="#">127105236</a>	20	NOC:Adolescent Health and Well-Being : A Holistic Approach	---	Y	---	1.7
45	<a href="#">127105237</a>	60	NOC:Research Methods in Health Promotion	---	Y	---	5.9
46	<a href="#">127106236</a>	31	NOC:Canning Technology, Value Addition of Seafood (Fish Processing)	---	Y	---	2.1
47	<a href="#">127106237</a>	43	NOC:Food Packaging Technology	---	Y	---	3.3
48	<a href="#">127102387</a>	---	NOC:Conservation and Project Management of Baoli Water Systems	---	---	---	---
49	<a href="#">127104381</a>	---	NOC:Multi-Criteria Decision Making and Applications	---	---	---	---
50	<a href="#">127104385</a>	---	NOC:Basic Certificate in Palliative Care	---	---	---	---
51	<a href="#">127105382</a>	---	NOC:Urban Ecological Heritagescapes through Interactive Governance: Theories and Applications	---	---	---	---
52	<a href="#">127105386</a>	---	NOC:Experimental Robotics	---	---	---	---
53	<a href="#">127105388</a>	---	NOC:Medical Law	---	---	---	---

54	<a href="#">127105389</a>	---	NOC:An Overview on Maternal Health Antenatal, Intranatal and Postnatal Care	---	---	---	---
55	<a href="#">127105390</a>	---	NOC:Recommender Systems	---	---	---	---
56	<a href="#">127105391</a>	---	NOC:Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis	---	---	---	---
57	<a href="#">127106383</a>	---	NOC:Vulnerability Studies: An Introduction	---	---	---	---
58	<a href="#">127106384</a>	---	NOC:Pulmonary Function Tests - Interpretation and Application in Clinical Practice	---	---	---	---
<b>Discipline : Special Lecture Series</b>							
<a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/special.pdf">http://www.digimat.in/downloads/topics/special.pdf</a></b>							
1	<a href="#">128106001</a>	103	ACM Summer School on Graph Theory and Graph Algorithms	---	Y	---	105
2	<a href="#">128106002</a>	73	ACM Summer School in Data Science (Goa)	---	Y	---	47
3	<a href="#">128106003</a>	9	Topics in Theoretical Computer Science	---	Y	---	17
4	<a href="#">128106004</a>	20	Researching Anglo-Indians in India and the Diaspora	---	Y	---	13
5	<a href="#">128106005</a>	94	Dravidian Temple Architecture and Construction Techniques	---	Y	---	72
6	<a href="#">128106006</a>	20	ACM Summer School in Data Science (Bangalore)	---	Y	---	49
7	<a href="#">128106007</a>	36	ACM Summer School on Algorithmic Game Theory	---	Y	---	9.3
8	<a href="#">128106008</a>	33	ACM Summer School on Graph Theory and Graph Algorithms	---	Y	---	21
9	<a href="#">128106009</a>	34	ACM Summer School on Compiler Design and Construction	---	Y	---	9.8
10	<a href="#">128106010</a>	38	ACM Summer School on Geometric Algorithms and their Applications	---	Y	---	10
11	<a href="#">128106011</a>	47	ACM Summer School on Algorithmic and Theoretical Aspects of Machine Learning	---	Y	---	12
12	<a href="#">128106012</a>	20	ACM Winter School on Hybrid Cloud	---	Y	---	5.8
13	<a href="#">128106013</a>	29	ACM Indian Summer School on Programming Languages: Principles and Practice	---	Y	---	18
14	<a href="#">128106014</a>	18	ACM Winter School 2019 on High Performance Computing (HPC)	---	Y	---	4.4
15	<a href="#">128106015</a>	6	Thermodynamics of Materials	---	Y	---	0.5
16	<a href="#">128108016</a>	14	ACM India Summer School on IoT and Embedded Systems	---	Y	---	2.1
17	<a href="#">128106017</a>	31	ACM India Summer School on Program Execution	---	Y	---	3.7
18	<a href="#">128106018</a>	55	ACM India Summer School on Programming Language Analysis and Optimizations	---	Y	---	3.6
19	<a href="#">128106019</a>	50	ACM Summer School on Shape Modelling	---	Y	---	3.6
20	<a href="#">128106020</a>	62	ACM India Summer School on Shape Modelling	---	Y	---	7.6
21	<a href="#">128106021</a>	47	ACM India Winter School on Topics in Digital Trust	---	Y	---	9.0
22	<a href="#">128106032</a>	27	ACM Winter School on Design, Implementation and Verification of Computer Systems	---	Y	---	4.5
23	<a href="#">128106033</a>	6	Topics In Theoretical Computer Science (2023)	---	Y	---	1.0
24	<a href="#">128108017</a>	34	ACM India Summer School on Algorithms for Data Science (2023)	---	Y	---	7.2
25	<a href="#">128108018</a>	24	ACM India Summer School on Cybersecurity for Women	---	Y	---	12

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

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	---	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	---	3.8
10	<a href="#">129106008</a>	48	NOC:Conflict Management through Mediation	---	Y	---	3.1
11	<a href="#">129106411</a>	---	NOC:Constitution Law and Public Administration in India	---	---	---	---
12	<a href="#">129105409</a>	---	NOC:International Trade Law	---	---	---	---
13	<a href="#">129105410</a>	---	NOC:Centre-State Relations in India	---	---	---	---

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

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>	---	NOC:Health Economics	---	---	---	---