



## **National Programme on Technology Enhanced Learning**

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### **NPTEL Video Courses Information in Supplementary Formats**

**(Document Last Updated : January 2, 2019)**

No	NPTEL Information Summary	Status	Courses	Lectures
1	NPTEL Video Courses (2003 to October 2018)	Completed	1164	49,523
2	NPTEL Video Courses (January 2019 to April 2019)	New Courses	144	---
3	NPTEL Video Courses (PDF Transcription)	Completed	1144	47,336
4	NPTEL Video Courses (Subtitle Transcription)	Completed	1124	46,002

## **DIGIMAT Digital Video Repository Software**

**The No.1, HTML-5 and QR Code based Digital Video Repository Software for Streaming**

**49,523 NPTEL Video Lectures in LAN (PCs, Laptops, Smartphones & Tablet Devices)**

**<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 : 1,308 | Total NPTEL Video Lectures : 49,523 (Updated: January 2, 2019)**

<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	37	1384	472
2	102	Biotechnology	44	1528	737
3	103	Chemical Engineering	73	2694	1106
4	104	Chemistry and Biochemistry	56	1908	851
5	105	Civil Engineering	105	4122	1502
6	106	Computer Science and Engineering	135	5833	1663
7	107	Engineering Design	7	242	131
8	108	Electrical Engineering	110	4199	1436
9	109	Humanities and Social Sciences	109	3565	1264
10	110	Management	83	3086	867
11	111	Mathematics	83	3240	1174
12	112	Mechanical Engineering	170	6342	2055
13	113	Metallurgy and Material Science	50	1798	614
14	114	Ocean Engineering	26	1207	530
15	115	Physics	47	1958	727
16	116	Textile Engineering	9	124	74
17	117	Electronics and Communication Engineering	85	3654	1032
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	3	76	22
23	124	Architecture	11	303	83
24	126	Agriculture	15	645	124
25	127	Multi-Disciplinary	10	204	149
26	128	Special Lecture Series	2	176	152
<b>Total :</b>			<b>1,308</b>	<b>49,523</b>	<b>17,281</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>	39	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>	---	NOC:Advance Aircraft Maintenance	---	---	---	---
36	<a href="#">101104076</a>	---	NOC:Introduction to Finite Volume Methods-II	---	---	---	---
37	<a href="#">101105077</a>	---	NOC:Satellite Attitude Dynamics and Control	---	---	---	---
<b>Discipline : Biotechnology</b>							
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<b>Video Lecture Topics @ <a href="http://www.digmat.in/downloads/topics/biotechnology.pdf">http://www.digmat.in/downloads/topics/biotechnology.pdf</a></b>							
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>	40	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>	40	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	---	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>	---	NOC:Applications of Interactomics using Genomics and Proteomics Technologies	---	---	---	---
43	<a href="#">102104073</a>	---	NOC:Wild Life Ecology	---	---	---	---
44	<a href="#">102108071</a>	---	NOC:Learning about Learning: A Course on Neurobiology of Learning and Memory	---	---	---	---

**Discipline : Chemical Engineering**

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**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	103107093	43	Process Integration	Y	Y	Y	55
26	103108097	40	Chemical Reaction Engineering	Y	Y	Y	16
27	103108098	40	Fundamentals of Transport Processes	Y	Y	Y	19
28	103108099	40	Fundamentals of Transport Processes - II	Y	Y	Y	9.2
29	103108100	43	Modern Instrumental Methods of Analysis	Y	Y	Y	20
30	103106112	55	Statistics for Experimentalists	Y	Y	Y	28
31	103106118	45	NOC:MATLAB Programming for Numerical Computation	Y	Y	Y	9.9
32	103106115	39	Chemical Engineering Principles of CVD Processes	Y	Y	Y	18
33	103106119	62	NOC:Computational Fluid Dynamics	Y	Y	Y	21
34	103105121	20	NOC:Introduction to Process Modeling in Membrane Separation Process	Y	Y	Y	5.2
35	103106120	19	NOC:Introduction to Statistical Hypothesis Testing	Y	Y	Y	6.4
36	103106116	60	Chemical Reaction Engineering 1 (Homogeneous Reactors)	Y	Y	Y	59
37	103106117	43	Chemical Reaction Engineering 2 (Heterogeneous Reactors)	Y	Y	Y	41
38	103105122	40	NOC:Soft Nano Technology	Y	Y	Y	10
39	103105124	25	NOC:Adiabatic Two-Phase Flow & Flow Boiling in Microchannel	Y	Y	Y	6.0
40	103107123	20	Mechanical Operations	Y	Y	Y	4.3
41	103108124	41	NOC:Atomic and Molecular Absorption Spectrometry for Pollution Monitoring	Y	Y	Y	8.7
42	103106123	112	NOC:Applied Time-Series Analysis	Y	Y	Y	30
43	103107125	40	NOC:Waste to Energy Conversion	Y	Y	Y	11
44	103108123	60	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	52	NOC:Phase Equilibrium Thermodynamics	Y	Y	Y	12
48	103105128	60	NOC:Transport Phenomena	Y	Y	Y	18
49	103107127	20	NOC:Unit Operations of Particulate Matter	Y	Y	Y	3.9
50	103106131	63	NOC:Rheology of Complex Materials	Y	Y	Y	30
51	103103135	12	NOC:Measurement Technique in Multiphase Flows	Y	Y	Y	3.3
52	103103133	12	NOC:An Introduction to Cardiovascular Fluid Mechanics	Y	Y	Y	1.1
53	103108138	22	NOC:Inductive Couple Plasma Atomic Emmission Spectrometry (ICP-AES) for Pollution Monitoring	Y	Y	Y	5.9
54	103103134	24	NOC:Multiphase Microfluidics	Y	Y	Y	4.0
55	103104129	51	NOC:Thermodynamics Of Fluid Phase Equilibria	Y	Y	Y	7.2
56	103101137	60	NOC:Heat Transfer	Y	Y	Y	24
57	103103132	31	NOC:Fluidization Engineering	Y	Y	Y	4.5
58	103105130	60	NOC:Chemical Process Instrumentation	Y	Y	Y	16
59	103103136	22	NOC:Multiphase Flows	Y	Y	Y	6.7
60	103103139	24	NOC:Introduction to Polymer Physics (IIT-G)	Y	Y	Y	11

61	103103140	22	NOC:Natural Gas Engineering	Y	Y	Y	8.3
62	103105139	60	NOC:Optimization in Chemical Engineering	Y	Y	Y	19
63	103105140	60	NOC:Heat Transfer (2018)	Y	Y	Y	18
64	103107139	60	NOC:Introduction to Polymer Physics (IIT-R)	Y	Y	Y	11
65	103108139	21	NOC:Infrared Spectroscopy for Pollution Monitoring	Y	Y	Y	5.2
66	103101141	---	NOC:Chemical Reaction Engineering-II	---	---	---	---
67	103101142	---	NOC:Chemical Process Control	---	---	---	---
68	103103144	---	NOC:Chemical Engineering Thermodynamics	---	---	---	---
69	103103145	---	NOC:Mass Transfer Operations-I	---	---	---	---
70	103103146	---	NOC:Transport Phenomena of Non-Newtonian Fluids	---	---	---	---
71	103103147	---	NOC:Fluid Flow Operations	---	---	---	---
72	103106148	---	NOC:Process Control - Design, Analysis and Assessment	---	---	---	---
73	103107143	---	NOC:Equipment Design: Mechanical Aspects	---	---	---	---

**Discipline : Chemistry and Biochemistry**

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**Video Lecture Topics @ <http://www.digimat.in/downloads/topics/chemistry-and-biochemistry.pdf>**

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	<a href="#">104104080</a>	40	NOC:Chemical Applications of Symmetry and Group Theory	Y	Y	Y	6.0
24	<a href="#">104106083</a>	40	NOC:Chemistry I:Introduction To Quantum Chemistry and Molecular Spectroscopy	---	Y	---	10
25	<a href="#">104104082</a>	45	NOC:Quantum Computing	Y	Y	Y	3.0
26	<a href="#">104104081</a>	40	NOC:Mathematics for Chemistry	Y	Y	Y	2.4
27	<a href="#">104104084</a>	40	NOC:Basics of Fluorescence Spectroscopy	Y	Y	Y	2.1
28	<a href="#">104104085</a>	40	NOC:Laser: Fundamentals and Applications	Y	Y	Y	2.0
29	<a href="#">104101084</a>	60	NOC:Chemical and Biological Thermodynamics: Principles to Applications	Y	Y	Y	55
30	<a href="#">104105084</a>	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>	45	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>	---	NOC:Molecular Spectroscopy: A Physical Chemists Perspective	---	---	---	---
47	<a href="#">104101100</a>	---	NOC:Advanced Transition Metal Organometallic Chemistry	---	---	---	---
48	<a href="#">104104101</a>	---	NOC:Solid State Chemistry	---	---	---	---
49	<a href="#">104105102</a>	---	NOC:Experimental Biochemistry	---	---	---	---
50	<a href="#">104105103</a>	---	NOC:Industrial Inorganic Chemistry	---	---	---	---
51	<a href="#">104105104</a>	---	NOC:Reactive Intermediates Carbene and Nitrene	---	---	---	---
52	<a href="#">104106105</a>	---	NOC:Electrochemical Impedance Spectroscopy	---	---	---	---
53	<a href="#">104106106</a>	---	NOC:Medicinal Chemistry	---	---	---	---
54	<a href="#">104106107</a>	---	NOC:Chemical Principles-II	---	---	---	---
55	<a href="#">104108097</a>	---	NOC:Multidimensional NMR Spectroscopy for Structural Studies of Biomolecules	---	---	---	---
56	<a href="#">104108098</a>	---	NOC:Symmetry and Structure in the Solid State	---	---	---	---



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

1	<a href="#">105101005</a>	38	Soil Dynamics	Y	Y	Y	19
2	<a href="#">105101006</a>	38	Structural Dynamics	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	---	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	---	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>	---	NOC:Subsurface Exploration: Importance and Techniques Involved	---	---	---	---
99	<a href="#">105104183</a>	---	NOC:Natural Hazards - Part 1	---	---	---	---
100	<a href="#">105105184</a>	---	NOC:Plastic Waste Management	---	---	---	---
101	<a href="#">105105185</a>	---	NOC:Geotechnical Engineering-II Foundation Engineering	---	---	---	---
102	<a href="#">105105186</a>	---	NOC:Mass, Momentum and Energy Balances in Engineering Analysis	---	---	---	---
103	<a href="#">105106187</a>	---	NOC:Advanced Topics in the Science and Technology of Concrete	---	---	---	---
104	<a href="#">105106188</a>	---	NOC:Infrastructure Planning and Managements	---	---	---	---
105	<a href="#">105107181</a>	---	NOC:Environmental Remediation of Contaminated Sites	---	---	---	---

**Discipline : Computer Science and Engineering**

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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	106102013	39	Logic for CS	Y	Y	Y	31
6	106102062	38	Computer Architecture (Prof. Anshul Kumar)	Y	Y	Y	9.0
7	106102064	36	Data Structures And Algorithms	Y	Y	Y	9.3
8	106102065	35	Introduction to Computer Graphics	Y	Y	Y	7.7
9	106102067	40	Principles of Programming Languages	Y	Y	Y	9.8
10	106102114	34	Parallel Computing	Y	Y	Y	8.8
11	106103116	44	Design Verification and Test of Digital VLSI Circuits	Y	Y	Y	25
12	106104019	35	Computer Algorithms - 2	Y	Y	Y	18
13	106104028	42	Theory of Computation	Y	Y	Y	20
14	106104074	24	Introduction to Problem Solving and Programming	Y	Y	Y	2.5
15	106104118	30	Riemann Hypothesis and its Applications	Y	Y	Y	6.9
16	106104119	26	Biometrics	Y	Y	Y	11
17	106104120	25	Parallel Algorithm	Y	Y	Y	13
18	106104122	36	Computer Architecture (Dr. Mainak Chaudhuri)	Y	Y	Y	15
19	106104123	30	Compiler Design (Prof. Sanjeev K Aggarwal)	Y	Y	Y	12
20	106104128	55	NOC:Introduction to Programming in C	Y	Y	Y	3.1
21	106105031	41	Cryptography and Network Security	Y	Y	Y	19
22	106105033	41	High Performance Computer Architecture	Y	Y	Y	11
23	106105034	40	Low Power VLSI Circuits and Systems	Y	Y	Y	19
24	106105036	40	Real Time Systems	Y	Y	Y	8.1
25	106105077	40	Artificial Intelligence (Prof. S. Sarkar, Prof. Anupam Basu)	Y	Y	Y	8.8
26	106105079	28	Artificial Intelligence (Prof.P. Dasgupta)	Y	Y	Y	7.6
27	106105081	40	Computer Networks	Y	Y	Y	12
28	106105082	41	Data Communication	Y	Y	Y	9.4
29	106105083	35	Electronic Design Automation	Y	Y	Y	7.5
30	106105084	40	Internet Technology	Y	Y	Y	12
31	106105085	32	Programming and Data Structure	Y	Y	Y	4.8
32	106106046	43	Pattern Recognition	Y	Y	Y	19
33	106106048	42	Performance Evaluation of Computer Systems	Y	Y	Y	17
34	106106049	42	Theory of Automata, Formal Languages and Computation	Y	Y	Y	19
35	106106090	43	Computer Graphics	Y	Y	Y	11
36	106106092	33	Computer Organization	Y	Y	Y	7.6
37	106106093	43	Database Design	Y	Y	Y	12
38	106106094	40	Discrete Mathematical Structures	Y	Y	Y	11
39	106106126	48	Artificial Intelligence (Prof. Deepak Khemani)	Y	Y	Y	36
40	106106127	61	NOC:Programming, Data Structures and Algorithms	Y	Y	Y	13
41	106106129	65	NOC:Introduction to Information Security I	Y	Y	Y	8.8
42	106106130	18	NOC:Programming and Data structures (PDS)	Y	Y	Y	3.2

43	<a href="#">106106131</a>	56	NOC:Design and Analysis of Algorithms	Y	Y	Y	2.2
44	<a href="#">106106133</a>	55	NOC:Programming, Data Structures and Algorithms (Aricent)	---	Y	Y	5.2
45	<a href="#">106108051</a>	41	Combinatorics	Y	Y	Y	12
46	<a href="#">106108052</a>	50	Compiler Design (Prof. Y.N. Srikanth)	Y	Y	Y	18
47	<a href="#">106108054</a>	40	Graph Theory	Y	Y	Y	19
48	<a href="#">106108055</a>	41	High Performance Computing	Y	Y	Y	16
49	<a href="#">106108056</a>	41	Numerical Optimization	Y	Y	Y	11
50	<a href="#">106108058</a>	43	Storage Systems	Y	Y	Y	12
51	<a href="#">106108102</a>	40	System Analysis and Design	Y	Y	Y	11
52	<a href="#">106108113</a>	46	Principles of Compiler Design	Y	Y	Y*	13
53	<a href="#">106106134</a>	33	NOC:Computer Architecture	Y	Y	Y	3.0
54	<a href="#">106106136</a>	55	NOC:Model Checking	Y	Y	Y	2.2
55	<a href="#">106106137</a>	28	NOC:Functional Programming in Haskell	Y	Y	Y	1.8
56	<a href="#">106104135</a>	48	NOC:Fundamentals of Database Systems	Y	Y	Y	3.1
57	<a href="#">106106141</a>	42	NOC:Information Security - II	Y	Y	Y	8.8
58	<a href="#">106106139</a>	86	NOC:Introduction to Machine Learning (Sponsored by Arihant)	Y	Y	Y	28
59	<a href="#">106106140</a>	70	NOC:Artificial Intelligence: Knowledge Representation & Reasoning	Y	Y	---	17
60	<a href="#">106106138</a>	71	Virtual Reality	---	Y	---	20
61	<a href="#">106106142</a>	48	NOC:Algorithms for Big Data	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	---	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:InterNetwork Security	Y	Y	Y	15
85	<a href="#">106105163</a>	64	NOC:Computer Architecture and Organization	---	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>	40	NOC:Cloud Computing	Y	Y	Y	8.7
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>	37	NOC:Introduction to Parallel Programming in OpenMP	Y	Y	Y	3.8
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	---	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	---	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	---	31



119	<a href="#">106106184</a>	117	NOC:Deep Learning	Y	Y	Y	41
120	<a href="#">106103187</a>	---	NOC:Randomized Algorithms	---	---	---	---
121	<a href="#">106103188</a>	---	NOC:Parallel Algorithms	---	---	---	---
122	<a href="#">106104189</a>	---	NOC:Big Data Computing	---	---	---	---
123	<a href="#">106105190</a>	---	NOC:Compiler Design	---	---	---	---
124	<a href="#">106105191</a>	---	NOC:Programming in Java	---	---	---	---
125	<a href="#">106105192</a>	---	NOC:Discrete Structures	---	---	---	---
126	<a href="#">106105193</a>	---	NOC:Embedded System Design with ARM	---	---	---	---
127	<a href="#">106105194</a>	---	NOC:Hardware Security	---	---	---	---
128	<a href="#">106105195</a>	---	NOC:Introduction to Industry 4.0 and Industrial Internet of Things	---	---	---	---
129	<a href="#">106105196</a>	---	NOC:Introduction to Automata, Languages and Computation	---	---	---	---
130	<a href="#">106106197</a>	---	NOC:Foundations to Computer Systems Design	---	---	---	---
131	<a href="#">106106198</a>	---	NOC:Machine Learning for Engineering and Science Applications	---	---	---	---
132	<a href="#">106106199</a>	---	NOC:Information Security 5 - Secure Systems Engineering	---	---	---	---
133	<a href="#">106106200</a>	---	NOC:Multimodal Interaction	---	---	---	---
134	<a href="#">106106201</a>	---	NOC:Deep Learning - Part 2	---	---	---	---
135	<a href="#">106106202</a>	---	NOC:Machine Learning, ML	---	---	---	---

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1	<a href="#">107103004</a>	40	Ergonomics for beginners: Industrial design perspective	Y	Y	Y	17
2	<a href="#">107106009</a>	30	Principles of Engineering System Design	Y	Y	Y	12
3	<a href="#">107106080</a>	32	Vehicle Dynamics	Y	Y	Y	26
4	<a href="#">107103081</a>	38	NOC:System Design for Sustainability	Y	Y	Y	21
5	<a href="#">107103082</a>	15	NOC:Product Design and Innovation	Y	Y	Y	6.8
6	<a href="#">107103083</a>	15	NOC:Interaction Design	Y	Y	Y	7.8
7	<a href="#">107106081</a>	72	NOC:Control Systems	Y	Y	Y	40

### Discipline : Electrical Engineering

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1	<a href="#">108101002</a>	35	Nonlinear Dynamical Systems	Y	Y	Y	29
2	<a href="#">108101004</a>	45	Power System Dynamics and Control	Y	Y	Y	41
3	<a href="#">108101037</a>	47	Control Engineering (Prof. S.D. Agashe)	Y	Y	Y	13
4	<a href="#">108101038</a>	43	Power Electronics	Y	Y	Y	12
5	<a href="#">108102042</a>	51	Circuit Theory	Y	Y	Y	13
6	<a href="#">108102043</a>	41	Control Engineering (Prof. M. Gopal)	Y	Y	Y	9.2
7	<a href="#">108102045</a>	37	Embedded Systems	Y	Y	Y	9.4
8	<a href="#">108102047</a>	35	Power System Generation, Transmission and Distribution	Y	Y	Y	7.2
9	<a href="#">108102080</a>	40	Power System Dynamics	Y	Y	Y	9.8
10	<a href="#">108103007</a>	40	Advanced Control Systems	Y	Y	Y	17



11	<a href="#">108104011</a>	40	Advanced Electric Drives	Y	Y	Y	18
12	<a href="#">108104013</a>	37	High Voltage DC Transmission	Y	Y	Y	16
13	<a href="#">108104049</a>	32	Intelligent Systems and Control	Y	Y	Y	6.1
14	<a href="#">108104052</a>	35	Power Systems Operation and Control	Y	Y	Y	4.8
15	<a href="#">108105017</a>	40	Electrical Machines - I	Y	Y	Y	8.5
16	<a href="#">108105019</a>	60	Optimal Control	Y	Y	---	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	---	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>	49	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>	95	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>	51	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	---	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>	48	NOC:Architectural Design of Digital Integrated Circuits	Y	Y	Y	13
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	---	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>	---	NOC:Fundamental of Power Electronics	---	---	---	---
93	<a href="#">108102120</a>	---	NOC:Principles of Digital Communications	---	---	---	---
94	<a href="#">108102121</a>	---	NOC:Electric Vehicles - Part 1	---	---	---	---
95	<a href="#">108104130</a>	---	NOC:Electromagnetic Waves in Guided and Wireless Media	---	---	---	---
96	<a href="#">108105131</a>	---	NOC:Electrical Machines-II	---	---	---	---
97	<a href="#">108105132</a>	---	NOC:Digital Electronic Circuits	---	---	---	---
98	<a href="#">108105133</a>	---	NOC:Power System Dynamics, Control and Monitoring	---	---	---	---
99	<a href="#">108105134</a>	---	NOC:Evolution of Air Interface towards 5G	---	---	---	---
100	<a href="#">108106135</a>	---	NOC:Introduction to Photonics	---	---	---	---
101	<a href="#">108106136</a>	---	NOC:Multirate DSP	---	---	---	---
102	<a href="#">108106137</a>	---	NOC:LDPC and Polar Codes in 5G Standard	---	---	---	---
103	<a href="#">108106138</a>	---	NOC:Electromagnetic Compatibility, EMC	---	---	---	---
104	<a href="#">108107127</a>	---	NOC:Computer Aided Power System Analysis	---	---	---	---
105	<a href="#">108107128</a>	---	NOC:Advance Power Electronics and Control	---	---	---	---
106	<a href="#">108107129</a>	---	NOC:CMOS Digital VLSI Design	---	---	---	---
107	<a href="#">108108122</a>	---	NOC:Fundamentals of Semiconductor Devices	---	---	---	---
108	<a href="#">108108123</a>	---	NOC:Advanced IOT Applications	---	---	---	---
109	<a href="#">108108124</a>	---	NOC:Electronic Systems for Cancer Diagnosis	---	---	---	---
110	<a href="#">108108125</a>	---	NOC:Electronic Modules for Industrial Applications using Op-Amps	---	---	---	---

**Discipline : Humanities and Social Sciences**

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1	<a href="#">109101004</a>	42	Contemporary Issues in Philosophy of Mind and Cognition	Y	Y	Y	30
2	<a href="#">109101017</a>	41	Understanding Creativity and Creative Writing	Y	Y	Y	28
3	<a href="#">109103019</a>	40	Cultural Studies	Y	Y	Y	22
4	<a href="#">109103020</a>	38	English Language and Literature	Y	Y	Y	18
5	<a href="#">109103021</a>	40	Game Theory and Economics	Y	Y	Y	22
6	<a href="#">109104031</a>	40	Communication Skills	Y	Y	Y	12
7	<a href="#">109104035</a>	43	International Economics	Y	Y	Y	9.9
8	<a href="#">109104040</a>	44	Introduction to Logic	Y	Y	Y	18
9	<a href="#">109104045</a>	40	Population and Society	Y	Y	Y	8.6
10	<a href="#">109104073</a>	22	Macro Economics	Y	Y	Y	7.7
11	<a href="#">109104074</a>	41	Introduction to Sociology	Y	Y	Y	9.8
12	<a href="#">109104076</a>	40	Money and Banking	Y	Y	Y	7.6

13	109104081	40	Human Adjustment Processes	Y	Y	Y	8.4
14	109104082	35	Selected Topics in Psychology	Y	Y	Y	9.2
15	109104088	48	NOC:Elements of Visual Representation	Y	Y	Y	5.8
16	109106052	40	Aspects of Western Philosophy	Y	Y	Y	31
17	109106053	40	Contemporary Literature	Y	Y	Y	11
18	109106058	36	History of Economic Theory	Y	Y	Y	15
19	109106059	42	Indian Philosophy	Y	Y	Y	14
20	109106067	38	Better Spoken English	Y	Y	Y	15
21	109106079	40	Introduction to Film Studies	Y	Y	Y	16
22	109106080	41	Introduction to Modern Linguistics	Y	Y	Y	30
23	109106083	41	Principles and Parameters in Natural Language	Y	Y	Y	32
24	109106084	41	NOC:Literary Criticism and Literary Theory	Y	Y	Y	9.1
25	109106085	40	NOC:Language and Mind	Y	Y	Y	5.9
26	109106086	43	NOC:Film Appreciation	Y	Y	Y	11
27	109106087	71	NOC:Appreciating Carnatic Music	Y	Y	Y	16
28	109106089	38	NOC:Infrastructure Economics	Y	Y	Y	5.5
29	109104090	40	NOC:Practical English: Learning and Teaching	Y	Y	Y	11
30	109106091	20	NOC:Language and Society	Y	Y	Y	3.6
31	109104093	24	NOC:Brief introduction to Psychology	Y	Y	Y	5.0
32	109106092	20	NOC:Issues in Bioethics	Y	Y	Y	5.6
33	109106094	38	NOC:Technical English for Engineers	Y	Y	Y	19
34	109106095	22	NOC:Health Research Fundamentals	Y	Y	Y	7.3
35	109104032	39	Ethics	Y	Y	Y	12
36	109105098	20	NOC:Legal Compliance for Incorporating Startup	Y	Y	Y	4.9
37	109105097	20	NOC:Technology Transfer through Joint Venture	Y	Y	Y	5.0
38	109104096	20	NOC:Psychiatry:An overview	Y	Y	Y	1.4
39	109105111	40	NOC:Symbolic Logic	Y	Y	Y	8.9
40	109105110	40	NOC:Soft Skill Development	Y	Y	Y	9.4
41	109105113	39	NOC:Globalization and Culture	Y	Y	Y	11
42	109104107	48	NOC:Developing Soft Skills and Personality	Y	Y	Y	5.1
43	109104106	44	NOC:Folk and Minor Art in India	Y	Y	Y	3.4
44	109104105	43	NOC:Introduction to Psychology	Y	Y	Y	2.7
45	109104108	20	NOC:How the Brain Creates Mind	Y	Y	Y	1.8
46	109104102	20	NOC:Introduction to Indian Art - An appreciation	Y	Y	Y	1.6
47	109104109	20	NOC:Understanding Design Thinking & People Centred Design	Y	Y	Y	1.5
48	109104104	20	NOC:Probability and Stochastic for Finance II	Y	Y	Y	1.8
49	109104103	25	NOC:Basic Concepts of Modal Logic	Y	Y	Y	2.1
50	109106099	45	NOC:American Literature and Culture	Y	Y	Y	30

51	109103101	24	NOC:Digital Human Modeling and Simulation for Virtual Ergonomics Evaluation	Y	Y	---	34
52	109106114	32	NOC:Applied Linguistics	Y	Y	Y	24
53	109106100	20	NOC:Economics of IPR	Y	Y	Y	8.0
54	109105112	40	NOC:Introduction on Intellectual Property to Engineers and Technologists	Y	Y	Y	11
55	109107115	15	NOC:Time value of money-Concepts and Calculations	Y	Y	Y	3.5
56	109107119	20	NOC:Depreciation, Alternate Investment and Profitability Analysis	Y	Y	Y	5.4
57	109104116	20	NOC:Postcolonial Literature	Y	Y	Y	1.5
58	109105116	40	NOC:Emotional Intelligence	Y	Y	Y	11
59	109104117	20	NOC:Introducing Modern Western Art: Movements and Artists	Y	Y	Y	1.7
60	109104115	40	NOC:Enhancing Soft Skills and Personality	Y	Y	Y	3.5
61	109105118	20	NOC:Great Experiments in Psychology	Y	Y	Y	5.5
62	109106117	20	NOC:Ethics	Y	Y	Y	12
63	109105115	46	NOC:Qualitative Research Methods	Y	Y	Y	9.5
64	109106120	17	NOC:The Renaissance and Shakespeare	Y	Y	Y	1.7
65	109106116	60	NOC:English Language for Competitive Exams	Y	Y	Y	27
66	109105117	39	NOC:Speaking Effectively	Y	Y	Y	8.7
67	109107121	60	NOC:Soft Skills	Y	Y	Y	19
68	109106122	33	NOC:Literature for Competitive Exams	Y	Y	Y	18
69	109104121	20	NOC:Cognition, Transformation and Lives	Y	Y	Y	1.5
70	109104122	20	NOC:Visual Perception and Art: A Survey Across the Cultures	Y	Y	Y	1.7
71	109104123	39	NOC:Introduction to Basic Cognitive Processes	Y	Y	Y	3.0
72	109104124	40	NOC:Calculus of One Real Variable	Y	Y	Y	2.5
73	109103121	36	NOC:Science, Technology and Society	Y	Y	Y	15
74	109103122	21	NOC:Gender and Literature	Y	Y	Y	14
75	109103123	31	NOC:Ecology and Society	Y	Y	Y	13
76	109106124	67	NOC:History of English Language and Literature	Y	Y	Y	24
77	109105121	60	NOC:Human Resource Development	Y	Y	Y	16
78	109105122	38	NOC:Educational Leadership	Y	Y	Y	11
79	109107131	20	NOC:Sociology of Science	Y	Y	Y	6.0
80	109107132	20	NOC:Perspectives on Neurolinguistic	Y	Y	Y	5.3
81	109106128	53	NOC:Patent Drafting for Beginners	Y	Y	Y	8.2
82	109106129	19	NOC:Business English Communication	Y	Y	Y	18
83	109105127	40	NOC:Strategic Performance Management	Y	Y	Y	12
84	109106130	40	NOC:Postmodernism in Literature	Y	Y	Y	33
85	109104126	40	NOC:Introduction to Advanced Cognitive Processes	Y	Y	Y	11
86	109104125	141	NOC:An Introduction to Microeconomics	Y	Y	Y	15
87	109103133	30	NOC:Sociological Perspectives on Modernity	Y	Y	Y	13

88	<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	---	15
98	<a href="#">109106138</a>	54	NOC:Short Fiction in Indian Literature	Y	Y	Y	54
99	<a href="#">109103140</a>	---	NOC:Introduction to Modern Indian Drama	---	---	---	---
100	<a href="#">109103141</a>	---	NOC:Introduction to Political Theory	---	---	---	---
101	<a href="#">109103142</a>	---	NOC:Human Behaviour	---	---	---	---
102	<a href="#">109104143</a>	---	NOC:Introduction to the Psychology of Language	---	---	---	---
103	<a href="#">109105144</a>	---	NOC:Employment Communication A Lab based course	---	---	---	---
104	<a href="#">109106145</a>	---	NOC:The Nineteenth-Century English Novel	---	---	---	---
105	<a href="#">109106146</a>	---	NOC:Feminist Writings	---	---	---	---
106	<a href="#">109106147</a>	---	NOC:Introduction to World Literature	---	---	---	---
107	<a href="#">109106148</a>	---	NOC:Managing Intellectual Property in Universities	---	---	---	---
108	<a href="#">109106149</a>	---	NOC:English Literature of the Romantic Period, 1798-1832	---	---	---	---
109	<a href="#">109107139</a>	---	NOC:Literature, Culture and Media	---	---	---	---

**Discipline : Management**

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1	<a href="#">110101003</a>	41	Managerial Accounting	Y	Y	Y	29
2	<a href="#">110101005</a>	40	Managerial Economics	Y	Y	Y	35
3	<a href="#">110102016</a>	40	Organisation Management	Y	Y	Y	16
4	<a href="#">110102058</a>	38	Organisation of Engineering Systems and Human Resources Management	Y	Y	Y	29
5	<a href="#">110104055</a>	37	Strategic Marketing - Contemporary Issues	Y	Y	Y	7.6
6	<a href="#">110104063</a>	58	NOC:Strategy: An Introduction to game Theory	Y	Y	Y	2.5
7	<a href="#">110105030</a>	40	Econometric Modelling	Y	Y	Y	19
8	<a href="#">110105033</a>	41	Organizational Behaviour	Y	Y	Y	12
9	<a href="#">110105035</a>	40	Security Analysis and Portfolio Management	Y	Y	Y	19
10	<a href="#">110105039</a>	40	Six Sigma	Y	Y	Y	8.3
11	<a href="#">110105052</a>	40	International Business Communication	Y	Y	Y	16
12	<a href="#">110105054</a>	40	Consumer Behaviour	Y	Y	Y	12
13	<a href="#">110105057</a>	40	International Finance	Y	Y	Y	11
14	<a href="#">110105060</a>	42	Applied Multivariate Statistical Modeling	Y	Y	Y	12



15	<a href="#">110106043</a>	40	Infrastructure Finance	Y	Y	Y	20
16	<a href="#">110106044</a>	40	Manufacturing Systems Management	Y	Y	Y	18
17	<a href="#">110106045</a>	41	Operations and Supply Chain Management	Y	Y	Y	18
18	<a href="#">110106050</a>	42	Business Analysis for Engineers	Y	Y	Y	16
19	<a href="#">110106062</a>	40	NOC:Introduction to Operations Research	Y	Y	Y	4.0
20	<a href="#">110108047</a>	37	Strategic Management	Y	Y	Y	16
21	<a href="#">110108056</a>	38	Global Supply Chain Management	Y	Y	Y	10
22	<a href="#">110104066</a>	50	NOC:Quantitative Finance	Y	Y	Y	8.7
23	<a href="#">110104065</a>	48	NOC:Managing Services	Y	Y	Y	12
24	<a href="#">110106064</a>	47	NOC:Introduction to Data Analytics	Y	Y	Y	2.4
25	<a href="#">110105067</a>	50	Economics / Management / Entrepreneurship	Y	Y	Y	13
26	<a href="#">110105069</a>	32	NOC:Principles of Human Resource Management	Y	Y	Y	9.6
27	<a href="#">110104068</a>	46	NOC:Marketing Management - I	Y	Y	Y	3.1
28	<a href="#">110106072</a>	50	NOC:Introduction to Data analytics	Y	Y	Y	2.6
29	<a href="#">110104070</a>	48	NOC:Marketing Management - II	Y	Y	Y	3.7
30	<a href="#">110105071</a>	40	NOC:Commodity Derivatives and Risk Management	Y	Y	Y	11
31	<a href="#">110105073</a>	24	NOC:Strategic Communication for Sustainable Development	Y	Y	Y	4.8
32	<a href="#">110107073</a>	60	NOC:Financial Statement Analysis and Reporting	Y	Y	Y	17
33	<a href="#">110105078</a>	39	NOC:Services Marketing: A Practical Approach	Y	Y	Y	4.9
34	<a href="#">110107074</a>	40	NOC:Supply Chain Analytics	Y	Y	Y	9.9
35	<a href="#">110105074</a>	40	NOC:Consumer Behaviour	Y	Y	Y	8.2
36	<a href="#">110105076</a>	40	NOC:Knowledge Management	Y	Y	Y	11
37	<a href="#">110105079</a>	61	NOC:Business Ethics	Y	Y	Y	17
38	<a href="#">110105075</a>	41	NOC:Foundation Course in Managerial Economics	Y	Y	Y	9.0
39	<a href="#">110104074</a>	27	NOC:Systems Engineering: Theory and Practice	Y	Y	Y	3.0
40	<a href="#">110104073</a>	40	NOC:Project Management	Y	Y	Y	2.6
41	<a href="#">110106081</a>	78	NOC:Patent Law for Engineers and Scientists	Y	Y	Y	27
42	<a href="#">110107080</a>	40	NOC:Marketing Research and Analysis	Y	Y	Y	11
43	<a href="#">110107081</a>	60	NOC:Project Management for Managers	Y	Y	Y	16
44	<a href="#">110104080</a>	34	NOC:Total Quality Management - I	Y	Y	Y	3.3
45	<a href="#">110105080</a>	20	NOC:Gender Justice and Workplace Security	Y	Y	Y	4.8
46	<a href="#">110105081</a>	58	NOC:Corporate Social Responsibility	Y	Y	Y	13
47	<a href="#">110105082</a>	40	NOC:Decision Modeling	Y	Y	Y	11
48	<a href="#">110105083</a>	60	NOC:E-Business	Y	Y	Y	15
49	<a href="#">110105091</a>	31	NOC:Research Writing	Y	Y	Y	5.7
50	<a href="#">110104084</a>	22	NOC:Management of New Products and Services	Y	Y	Y	4.7
51	<a href="#">110104085</a>	41	NOC:Total Quality Management-II	Y	Y	Y	8.6
52	<a href="#">110104086</a>	28	NOC:Practitioners Course In Descriptive,Predictive and Prescriptive Analytics	Y	Y	Y	11



53	<a href="#">110105088</a>	60	NOC:Quality Design and Control	Y	Y	Y	17
54	<a href="#">110105087</a>	60	NOC:Design and Analysis of Experiments	Y	Y	Y	16
55	<a href="#">110105089</a>	60	NOC:Business Analytics for Management Decision	Y	Y	Y	20
56	<a href="#">110107092</a>	60	NOC:Business Analytics and Data Mining Modeling using R	Y	Y	Y	15
57	<a href="#">110105090</a>	56	NOC:Soft Skills for Business Negotiations and Marketing Strategies	Y	Y	Y	17
58	<a href="#">110103093</a>	23	NOC:Economic Growth and Development	Y	Y	Y	13
59	<a href="#">110104093</a>	61	NOC:Microeconomics: Theory and Applications	Y	Y	Y	13
60	<a href="#">110104094</a>	60	NOC>Data Analysis and Decision Making-I	Y	Y	Y	19
61	<a href="#">110104095</a>	50	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	---	5.3
71	<a href="#">110104117</a>	---	NOC:Management of Field Sales	---	---	---	---
72	<a href="#">110104118</a>	---	NOC>Data Analysis and Decision Making-II	---	---	---	---
73	<a href="#">110104119</a>	---	NOC:Advanced Green Manufacturing Systems	---	---	---	---
74	<a href="#">110105120</a>	---	NOC:Managing Change in Organizations	---	---	---	---
75	<a href="#">110105121</a>	---	NOC:Financial Institutions and Markets	---	---	---	---
76	<a href="#">110105122</a>	---	NOC:Sales and Distribution Management	---	---	---	---
77	<a href="#">110105123</a>	---	NOC:Six Sigma	---	---	---	---
78	<a href="#">110106124</a>	---	NOC:Design Thinking - A Primer	---	---	---	---
79	<a href="#">110107112</a>	---	NOC:Global Marketing Management	---	---	---	---
80	<a href="#">110107113</a>	---	NOC:Marketing Research and Analysis-II	---	---	---	---
81	<a href="#">110107114</a>	---	NOC:Business Statistics	---	---	---	---
82	<a href="#">110107115</a>	---	NOC:MCDM Techniques Using R	---	---	---	---
83	<a href="#">110107116</a>	---	NOC:Manufacturing Strategy	---	---	---	---

**Discipline : Mathematics**

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1	<a href="#">111101003</a>	40	Elementary Numerical Analysis	Y	Y	Y	28
2	<a href="#">111101005</a>	40	Measure and Integration	Y	Y	Y	34
3	<a href="#">111101080</a>	40	Mathematics in India - From Vedic Period to Modern Times	Y	Y	Y	18
4	<a href="#">111102014</a>	39	Stochastic Processes	Y	Y	Y	23
5	<a href="#">111103016</a>	41	Formal Languages and Automata Theory	Y	Y	Y	17

6	<a href="#">111103070</a>	40	Complex Analysis	Y	Y	Y	23
7	<a href="#">111104024</a>	44	Applied Multivariate Analysis	Y	Y	Y	20
8	<a href="#">111104025</a>	40	Calculus of Variations and Integral Equations	Y	Y	Y	12
9	<a href="#">111104027</a>	40	Linear programming and Extensions	Y	Y	Y	17
10	<a href="#">111104068</a>	42	Convex Optimization	Y	Y	Y	8.6
11	<a href="#">111104071</a>	38	Foundations of Optimization	Y	Y	Y	7.2
12	<a href="#">111104079</a>	40	Probability Theory and Applications	Y	Y	Y	8.6
13	<a href="#">111105035</a>	42	Advanced Engineering Mathematics	Y	Y	Y	12
14	<a href="#">111105037</a>	40	Functional Analysis	Y	Y	Y	19
15	<a href="#">111105038</a>	40	Numerical methods of Ordinary & Partial Differential Equations	Y	Y	Y	12
16	<a href="#">111105039</a>	40	Optimization	Y	Y	Y	12
17	<a href="#">111105041</a>	40	Probability and Statistics	Y	Y	Y	8.7
18	<a href="#">111105042</a>	40	Regression Analysis	Y	Y	Y	15
19	<a href="#">111105043</a>	40	Statistical Inference	Y	Y	---	12
20	<a href="#">111105069</a>	46	A Basic Course in Real Analysis	Y	Y	Y	15
21	<a href="#">111106044</a>	48	An Introduction to Riemann Surfaces and Algebraic Curves: Complex 1-Tori and Elliptic Curves	Y	Y	Y	23
22	<a href="#">111106051</a>	52	Linear Algebra	Y	Y	Y	21
23	<a href="#">111106052</a>	42	Mathematical Logic	Y	Y	Y	17
24	<a href="#">111106053</a>	52	Real Analysis	Y	Y	Y	22
25	<a href="#">111106083</a>	36	NOC:An invitation to mathematics	Y	Y	Y	6.7
26	<a href="#">111107058</a>	41	Discrete Mathematics	Y	Y	Y	4.5
27	<a href="#">111108066</a>	40	Advanced Matrix Theory and Linear Algebra for Engineers	Y	Y	Y	19
28	<a href="#">111108081</a>	40	Ordinary Differential Equations and Applications	Y	Y	Y	25
29	<a href="#">111104085</a>	30	NOC:Basic Calculus for Engineers, Scientists and Economists	Y	Y	Y	4.2
30	<a href="#">111105077</a>	40	Statistical Methods for Scientists and Engineers	Y	Y	Y	12
31	<a href="#">111106084</a>	43	Advanced Complex Analysis - Part 1: Zeros of Analytic Functions, Analytic continuation, Monodromy, Hyperbolic Geometry	Y	Y	Y	18
32	<a href="#">111106086</a>	51	NOC:Discrete Mathematics	Y	Y	Y	3.0
33	<a href="#">111105091</a>	28	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*	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	---	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	---	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	---	4.2
75	<a href="#">111101115</a>	---	NOC:Basic Linear Algebra	---	---	---	---
76	<a href="#">111101116</a>	---	NOC:Commutative Algebra	---	---	---	---
77	<a href="#">111101117</a>	---	NOC:Galois Theory	---	---	---	---
78	<a href="#">111104120</a>	---	NOC:Descriptive Statistics with R Software	---	---	---	---

79	<a href="#">111105121</a>	---	NOC:Engineering Mathematics-I	---	---	---	---
80	<a href="#">111105122</a>	---	NOC:Integral and Vector Calculus	---	---	---	---
81	<a href="#">111105123</a>	---	NOC:Transform Calculus and its applications in Differential Equations	---	---	---	---
82	<a href="#">111107118</a>	---	NOC:Dynamical System and Control	---	---	---	---
83	<a href="#">111107119</a>	---	NOC:Advanced Engineering Mathematics	---	---	---	---

**Discipline : Mechanical Engineering**

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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	<a href="#">112106186</a>	44	NOC:Foundation of Computational Fluid Dynamics	Y	Y	Y	2.4
65	<a href="#">112104188</a>	48	NOC:Manufacturing Systems Technology	Y	Y	Y	7.5
66	<a href="#">112104189</a>	30	NOC:Manufacturing Systems Technology - Part II	Y	Y	Y	5.2
67	<a href="#">112105047</a>	43	Fundamentals of Industrial Oil Hydraulics and Pneumatics	Y	Y	Y	13
68	<a href="#">112105192</a>	41	NOC:Conduction and Convection Heat Transfer	Y	Y	Y	19
69	<a href="#">112105197</a>	35	NOC:Vibrations of Structures	Y	Y	Y	9.8

70	<a href="#">112106190</a>	40	NOC:Introduction to Boundary Layers	Y	Y	Y	16
71	<a href="#">112104193</a>	48	NOC:Basics of Finite Element Analysis	Y	Y	Y	1.7
72	<a href="#">112106196</a>	48	NOC:Fundamentals of Gas Dynamics	Y	Y	Y	21
73	<a href="#">112104194</a>	48	NOC:Basics of Noise and Its Measurements	Y	Y	Y	2.3
74	<a href="#">112104195</a>	48	NOC:Manufacturing Process Technology - Part I	Y	Y	Y	2.3
75	<a href="#">112106198</a>	32	NOC:Experimental Stress Analysis:An Overview	Y	Y	Y	4.0
76	<a href="#">112108201</a>	44	NOC:Variational Methods in Mechanics	Y	Y	Y	13
77	<a href="#">112105206</a>	39	NOC:Fluid Machines	Y	Y	Y	9.5
78	<a href="#">112104203</a>	40	NOC:Nature and Property of Materials	Y	Y	Y	2.9
79	<a href="#">112104204</a>	48	NOC:Manufacturing Process Technology - II	Y	Y	Y	3.3
80	<a href="#">112104205</a>	48	NOC:Basics of Finite Element Analysis - II	---	Y	Y	1.8
81	<a href="#">112107209</a>	40	NOC:Engineering Economic Analysis	Y	Y	Y	11
82	<a href="#">112107208</a>	40	NOC:Refrigeration and Air-Conditioning	Y	Y	Y	9.6
83	<a href="#">112107207</a>	20	NOC:Two Phase Flow and Heat Transfer	Y	Y	Y	3.9
84	<a href="#">112106200</a>	34	NOC:Fluid Dynamics and Turbomachines	Y	Y	Y	15
85	<a href="#">112103202</a>	19	NOC:Advanced Machining Processes	Y	Y	Y	6.9
86	<a href="#">112105211</a>	20	NOC:Computer Numerical Control (CNC) of Machine Tools and Processes	Y	Y	Y	4.5
87	<a href="#">112106179</a>	44	Metrology	Y	Y	Y	29
88	<a href="#">112107083</a>	40	Metal Casting	Y	Y	Y	28
89	<a href="#">112108212</a>	40	NOC:Heat Transfer and Combustion in Multiphase Systems	Y	Y	Y	7.9
90	<a href="#">112108211</a>	72	NOC:Compliant Mechanisms: Principles and Design	Y	Y	Y	16
91	<a href="#">112107212</a>	40	NOC:Introduction to Mechanical Vibration	Y	Y	Y	11
92	<a href="#">112107216</a>	40	NOC:Steam and Gas Power Systems	Y	Y	Y	9.3
93	<a href="#">112107215</a>	40	NOC:Principles of Casting Technology	Y	Y	Y	11
94	<a href="#">112107214</a>	40	NOC:Modelling and Simulation of Dynamic Systems	Y	Y	Y	9.4
95	<a href="#">112107213</a>	40	NOC:Joining Technologies of Commercial Importance	Y	Y	Y	11
96	<a href="#">112105212</a>	20	NOC:Non Traditional Abrasive Machining Processes - Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining	Y	Y	Y	5.4
97	<a href="#">112107217</a>	20	NOC:Product Design and Development	Y	Y	Y	5.7
98	<a href="#">112107211</a>	20	NOC:Convective Heat Transfer	Y	Y	Y	5.7
99	<a href="#">112105218</a>	60	NOC:Introduction to Fluid Mechanics (Repurposed)	Y	Y	Y*	17
100	<a href="#">112104212</a>	72	NOC:Fundamentals of Acoustics	Y	Y	Y	3.1
101	<a href="#">112104211</a>	21	NOC:Principles of Vibration Control	Y	Y	Y	1.6
102	<a href="#">112104219</a>	40	NOC:Heat Treatment and Surface Hardening - II	Y	Y	Y	4.4
103	<a href="#">112104220</a>	50	NOC:Phase Transformation in Materials	Y	Y	Y	3.3
104	<a href="#">112107219</a>	60	NOC:Fundamentals of Manufacturing Processes	Y	Y	Y	17
105	<a href="#">112106222</a>	42	NOC:Micro and Nano Scale Energy Transport	Y	Y	Y	34
106	<a href="#">112104221</a>	31	NOC:Manufacturing of Composites	Y	Y	Y	2.5
107	<a href="#">112104222</a>	54	NOC:Applied Ergonomics	Y	Y	Y	4.7



108	<a href="#">112106223</a>	40	NOC:Electron Diffraction and Imaging	Y	Y	Y	31
109	<a href="#">112106225</a>	42	NOC:Acoustic and Noise Control	Y	Y	Y	21
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>	32	NOC:Product Design and Manufacturing	Y	Y	Y	12
121	<a href="#">112106237</a>	20	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>	31	NOC:Principle of Hydraulic Machines and System Design	Y	Y	Y	8.2
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	---	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>	---	NOC:Thermodynamics	---	---	---	---
158	<a href="#">112103261</a>	---	NOC:Principles of Mechanical Measurement	---	---	---	---
159	<a href="#">112103262</a>	---	NOC:IC Engines and Gas Turbines	---	---	---	---
160	<a href="#">112103263</a>	---	NOC:Fundamental of Welding Science and Technology	---	---	---	---
161	<a href="#">112103264</a>	---	NOC:Polymer Assisted Abrasive Finishing Processes	---	---	---	---
162	<a href="#">112104265</a>	---	NOC:Rapid Manufacturing	---	---	---	---
163	<a href="#">112105266</a>	---	NOC:Concepts of Thermodynamics	---	---	---	---
164	<a href="#">112105267</a>	---	NOC:Electronic Packaging and Manufacturing	---	---	---	---
165	<a href="#">112105268</a>	---	NOC:Kinematics of Mechanisms and Machines	---	---	---	---
166	<a href="#">112107256</a>	---	NOC:Radiative Heat Transfer	---	---	---	---
167	<a href="#">112107257</a>	---	NOC:Weldability of Metals	---	---	---	---
168	<a href="#">112107258</a>	---	NOC:Manufacturing Guidelines for Product Design	---	---	---	---
169	<a href="#">112107259</a>	---	NOC:Inspection and Quality Control in Manufacturing	---	---	---	---
170	<a href="#">112107260</a>	---	NOC:Financial Mathematics	---	---	---	---
171	<a href="#">112106224</a>	---	NOC:Mechatronics Systems	---	Y	---	---

**Discipline : Metallurgy and Material Science**

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1	<a href="#">113104006</a>	41	Electroceramics	Y	Y	Y	18
2	<a href="#">113104008</a>	40	Fuels Refractory and Furnaces	Y	Y	Y	7.5
3	<a href="#">113104009</a>	39	Introduction to Biomaterials	Y	Y	Y	15
4	<a href="#">113104010</a>	40	Materials and Energy balance in Metallurgical Processes	Y	Y	Y	14
5	<a href="#">113104012</a>	40	Optoelectronic Materials and Devices	Y	Y	Y	12
6	<a href="#">113104013</a>	42	Steel Making	Y	Y	Y	16
7	<a href="#">113104014</a>	45	Structure of Materials	Y	Y	Y	20
8	<a href="#">113104061</a>	41	Environmental Degradation of Materials	Y	Y	Y	18
9	<a href="#">113105015</a>	47	Advanced ceramics for strategic applications	Y	Y	Y	14

10	<a href="#">113105021</a>	43	Non-ferrous Extractive Metallurgy	Y	Y	Y	20
11	<a href="#">113105024</a>	42	Principles of Physical Metallurgy	Y	Y	Y	20
12	<a href="#">113105025</a>	40	Processing of Semiconducting Materials	Y	Y	Y	11
13	<a href="#">113105028</a>	40	Science and Technology of Polymers	Y	Y	Y	11
14	<a href="#">113105057</a>	26	Advanced Materials and Processes	Y	Y	Y	5.3
15	<a href="#">113106031</a>	31	Advanced Metallurgical Thermodynamics	Y	Y	Y	13
16	<a href="#">113106039</a>	40	Physics of Materials	Y	Y	Y	15
17	<a href="#">113106062</a>	40	Electronic Materials, Devices and Fabrication	Y	Y	Y	26
18	<a href="#">113106065</a>	27	NOC:Fundamentals of Electronic Materials and Devices	Y	Y	Y	12
19	<a href="#">113106066</a>	11	NOC:Introduction to Reciprocal Space and its use in Solids	Y	Y	Y	5.1
20	<a href="#">113106067</a>	20	NOC:Analysis and Modeling of Welding	Y	Y	Y	7.8
21	<a href="#">113106064</a>	22	NOC:Fundamentals of optical and scanning electron microscopy	Y	Y	Y	12
22	<a href="#">113104068</a>	61	NOC:Phase Diagrams in Materials Science and Engineering	Y	Y	Y	3.6
23	<a href="#">113104004</a>	33	Advanced Characterization Techniques	Y	Y	Y	22
24	<a href="#">113106034</a>	54	Materials Characterization	Y	Y	Y	30
25	<a href="#">113108071</a>	40	NOC:Biomaterials for Bone Tissue Engineering Applications	Y	Y	Y	9.7
26	<a href="#">113104073</a>	40	NOC:Fundamentals of Material Processing - I	Y	Y	Y*	3.2
27	<a href="#">113104074</a>	40	NOC:Heat Treatment and Surface Hardening - I	Y	Y	Y	3.1
28	<a href="#">113101072</a>	87	NOC:Phase Field Modelling: The Materials Science, Mathematics and Computational Aspects	Y	Y	Y	18
29	<a href="#">113103072</a>	17	NOC:Introduction to Crystal Elasticity and Crystal Plasticity	Y	Y	Y	8.2
30	<a href="#">113106070</a>	40	NOC:Theory and Practice of Non Destructive Testing	Y	Y	Y	15
31	<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	---	5.6
45	<a href="#">113104084</a>	---	NOC:Solar Photovoltaics: Principles, Technologies and Material	---	---	---	---
46	<a href="#">113104085</a>	---	NOC:Defects in Crystalline Solids - Part II	---	---	---	---
47	<a href="#">113105086</a>	---	NOC:Surface Engineering for Corrosion and Wear Resistance Application	---	---	---	---

48	113106087	---	NOC:Welding Processes	---	---	---	---
49	113106088	---	NOC:Creep Deformation of Materials	---	---	---	---
50	113108083	---	NOC:Friction and Wear of Materials: Principles and Case Studies	---	---	---	---

**Discipline : Ocean Engineering**

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1	114105002	49	Elements of Ocean Engineering	Y	Y	Y	12
2	114105003	40	Hydrostatics and Stability	Y	Y	Y	19
3	114105004	41	Marine Construction and Welding	Y	Y	Y	8.6
4	114105005	40	Marine Hydrodynamics	Y	Y	Y	12
5	114105006	40	Seakeeping and Manoeuvring	Y	Y	Y	8.6
6	114105029	27	Applied Thermodynamics for Marine Systems	Y	Y	Y	5.6
7	114105030	40	Performance of Marine Vehicles at Sea	Y	Y	Y	11
8	114105031	36	Strength and Vibration of Marine Structures	Y	Y	Y	5.2
9	114106011	42	Design of Offshore Structures	Y	Y	Y	16
10	114106015	33	Foundation for Offshore Structures	Y	Y	Y	11
11	114106017	35	Health, Safety and Environmental Management in Petroleum and Offshore Engineering	Y	Y	Y	8.0
12	114106025	48	Port and Harbour Structures	Y	Y	Y	30
13	114106026	17	Ship Resistance and Propulsion	Y	Y	Y	6.6
14	114106032	37	Coastal Engineering	Y	Y	Y	14
15	114106033	25	Wave Hydrodynamics	Y	Y	Y	9.8
16	114106035	38	Ocean Structures and Materials	Y	Y	Y	12
17	114106036	49	Dynamics of Ocean Structures	Y	Y	Y	20
18	114106037	53	Advanced Marine Structures	Y	Y	Y	21
19	114106038	47	NOC:Dynamics of Ocean Structures	Y	Y	Y	23
20	114106039	37	NOC:Health, Safety and Environmental Management in Offshore and Petroleum Engineering	Y	Y	Y	8.1
21	114106042	55	NOC:HSE for offshore and petroleum engineers	Y	Y	Y	24
22	114106041	58	NOC:Risk and Reliability of offshore structures	Y	Y	Y	25
23	114106043	53	NOC:Offshore Structures Under Special Loads Including Fire Resistance	Y	Y	Y	33
24	114106045	118	NOC:Computer Methods Of Structural Analysis of Offshore Structures	Y	Y	Y	103
25	114105044	65	NOC:Water Economics and Governance	Y	Y	Y	16
26	114106046	84	NOC:Structural Health Monitoring	Y	Y	Y	67

**Discipline : Physics**

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

4	<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>	---	NOC:Quantum Mechanics-I	---	---	---	---
44	<a href="#">115103108</a>	---	NOC:A Brief Course on Superconductivity	---	---	---	---
45	<a href="#">115104109</a>	---	NOC:Introduction to Solid State Physics	---	---	---	---
46	<a href="#">115105110</a>	---	NOC:Experimental Physics-I	---	---	---	---
47	<a href="#">115106111</a>	---	NOC:Statistical Mechanics	---	---	---	---

**Discipline : Textile Engineering**

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1	<a href="#">116102034</a>	20	Theory of Yarn Structures	Y	Y	Y	15
2	<a href="#">116104044</a>	40	Natural Dyes	Y	Y	Y	12
3	<a href="#">116102047</a>	40	NOC:Science of Clothing Comfort	Y	Y	---	28
4	<a href="#">116102048</a>	24	NOC:Yarn Manufacture-I: Principle of Carding and Drawing	Y	Y	Y	19
5	<a href="#">116102049</a>	---	NOC:Evaluations of Textile Materials	---	---	---	---
6	<a href="#">116102050</a>	---	NOC:Testing of Functional and Technical Textiles	---	---	---	---
7	<a href="#">116102051</a>	---	NOC:Theory of Yarn Structure	---	---	---	---
8	<a href="#">116102052</a>	---	NOC:Advanced Textile Printing Technology	---	---	---	---
9	<a href="#">116102053</a>	---	NOC:Textured Yarn Technology	---	---	---	---

**Discipline : Electronics and Communication Engineering**

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

20	<a href="#">117105082</a>	32	MEMS and Microsystems	Y	Y	Y	9.2
21	<a href="#">117105084</a>	37	Neural Networks and Applications	Y	Y	Y	8.0
22	<a href="#">117105085</a>	40	Probability and Random Processes	Y	Y	Y	12
23	<a href="#">117105101</a>	40	Pattern Recognition and Application	Y	Y	Y	12
24	<a href="#">117106030</a>	60	Analog IC Design	Y	Y	Y	26
25	<a href="#">117106031</a>	38	Coding Theory	Y	Y	Y	19
26	<a href="#">117106033</a>	57	Semiconductor Device Modeling	Y	Y	Y	39
27	<a href="#">117106034</a>	60	VLSI Data Conversion Circuits	Y	Y	Y	27
28	<a href="#">117106086</a>	40	Digital Circuits and Systems	Y	Y	Y	9.3
29	<a href="#">117106087</a>	38	Electronics for Analog Signal Processing - I	Y	Y	Y	9.6
30	<a href="#">117106088</a>	39	Electronics for Analog Signal Processing - II	Y	Y	Y	9.2
31	<a href="#">117106089</a>	41	High Speed Devices and Circuits	Y	Y	Y	11
32	<a href="#">117106091</a>	42	Solid State Devices	Y	Y	Y	11
33	<a href="#">117106092</a>	55	VLSI Circuits	Y	Y	Y	14
34	<a href="#">117106093</a>	40	VLSI Technology	Y	Y	Y	7.1
35	<a href="#">117106101</a>	21	Basic Electrical Circuits	Y	Y	---	9.9
36	<a href="#">117106108</a>	150	NOC:Basic Electrical Circuits	Y	Y	Y	3.9
37	<a href="#">117106114</a>	53	NOC:Digital Circuits and Systems	Y	Y	Y	18
38	<a href="#">117108038</a>	40	Circuits for Analog System Design	Y	Y	Y	19
39	<a href="#">117108040</a>	44	Digital System design with PLDs and FPGAs	Y	Y	Y	20
40	<a href="#">117108044</a>	42	Error Correcting Codes	Y	Y	Y	20
41	<a href="#">117108048</a>	42	Pattern Recognition	Y	Y	Y	12
42	<a href="#">117106111</a>	37	ARM Based Development	---	Y	---	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

**Discipline : Nanotechnology**

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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

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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

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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

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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
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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>	---	NOC:Network Analysis for Mines and Mineral Engineering	---	---	---	---
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1	<a href="#">124107001</a>	40	NOC:Housing Policy and Planning	Y	Y	Y	11
2	<a href="#">124105001</a>	40	NOC:Landscape Architecture and Site Planning - Basic Fundamentals	Y	Y	Y	12
3	<a href="#">124107002</a>	20	NOC:Visual Communication Design for Digital Media	Y	Y	Y	4.6
4	<a href="#">124105003</a>	43	NOC:Architectural Conservation and Historic Preservation	Y	Y	Y	11
5	<a href="#">124105004</a>	40	NOC:Architectural Acoustics	Y	Y	Y	11
6	<a href="#">124107004</a>	40	NOC:Culturally Responsive Built Environments	Y	Y	Y	12
7	<a href="#">124107005</a>	40	NOC:Contemporary Architecture and Design	Y	Y	Y	10
8	<a href="#">124107006</a>	40	NOC:Role of Craft and Technology in Interior-Architecture	Y	Y	---	11
9	<a href="#">124106009</a>	---	NOC:Introduction to History of Architecture in India	---	---	---	---
10	<a href="#">124107007</a>	---	NOC:Urban Governance and Development Management	---	---	---	---
11	<a href="#">124107008</a>	---	NOC:User Interface Design	---	---	---	---
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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	---	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	---	4.7
5	<a href="#">126104005</a>	36	NOC:Weather Forecast in Agriculture and Agro-advisory (WF)	---	Y	---	3.2
6	<a href="#">126104006</a>	45	NOC:ICT Basics	---	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>	---	NOC:Novel Technologies for Food Processing and Shelf Life Extension	---	---	---	---
15	<a href="#">126105016</a>	---	NOC:Soil Science and Technology	---	---	---	---
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1	<a href="#">127106001</a>	83	NOC:Neuroscience of Human Movement	Y	Y	Y	71
2	<a href="#">127106003</a>	76	NOC:Manage TB	Y	Y	Y	40
3	<a href="#">127106004</a>	45	NOC:Ecology and Environment	Y	Y	Y	38
4	<a href="#">127101010</a>	---	NOC:Designing Learner-Centric MOOCs	---	---	---	---
5	<a href="#">127105006</a>	---	NOC:Fuzzy Logic and Neural Networks	---	---	---	---
6	<a href="#">127105007</a>	---	NOC:Entrepreneurship Essentials	---	---	---	---
7	<a href="#">127105008</a>	---	NOC:Roadmap for Patent Creation	---	---	---	---
8	<a href="#">127106009</a>	---	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India	---	---	---	---
9	<a href="#">127106010</a>	---	NOC:Regulatory Requirements for Medical Devices and IVD kits in India	---	---	---	---
10	<a href="#">127108005</a>	---	NOC:Teaching and Learning in Engineering (TALE)	---	---	---	---
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1	<a href="#">128106001</a>	103	ACM Summer School on Graph Theory and Graph Algorithms	---	---	---	105
2	<a href="#">128106002</a>	73	ACM Summer School in Data Science	---	---	---	47