



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

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

**(Document Last Updated : November 2, 2022)**

No	NPTEL Information Summary	Status	Courses	Lectures
1	NPTEL Video Courses (2003 to December 2022)	Completed	2143	98,481
2	NPTEL Video Courses (PDF Transcription)	Completed	1837	81,328
3	NPTEL Video Courses (SRT Subtitle Transcription)	Completed	1815	80,020

## **DIGIMAT Assistive Technology Platform**

**The HTML-5 based Assistive Technology Platform for Streaming**

**98,481 NPTEL Video Lectures in LAN / WiFi (PCs, Laptops, Smartphones & Tablets)**

**<https://www.digimat.in>**



## NPTEL VIDEO COURSES INFORMATION IN SUPPLEMENTARY FORMATS

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

Total NPTEL Video Courses : 2,143 | Total NPTEL Video Lectures : 98,481 (Updated: November 2, 2022)

No.	ID	Name of the Engineering Discipline	Total Video Courses	Total Video Lectures	Size (GB)
1	101	Aerospace Engineering	53	2,502	860
2	102	Biotechnology	79	3,369	1,353
3	103	Chemical Engineering	114	5,260	2,103
4	104	Chemistry and Biochemistry	97	4,488	2,003
5	105	Civil Engineering	175	8,063	2,574
6	106	Computer Science and Engineering	197	10,128	2,886
7	107	Engineering Design	18	701	313
8	108	Electrical Engineering	188	10,030	3,395
9	109	Humanities and Social Sciences	187	7,358	2,960
10	110	Management	149	7,133	1,982
11	111	Mathematics	154	7,790	2,161
12	112	Mechanical Engineering	259	10,606	3,272
13	113	Metallurgy and Material Science	82	3,572	1,120
14	114	Ocean Engineering	29	1,371	545
15	115	Physics	87	4,336	1,453
16	116	Textile Engineering	14	459	290
17	117	Electronics and Communication Engineering	94	4,187	1,083
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	6	276	51
23	124	Architecture	26	1,066	287
24	126	Agriculture	24	1,266	241
25	127	Multi-Disciplinary	35	1,559	492
26	128	Special Lecture Series	19	730	407
27	129	Law	7	325	34
28	130	Economics	6	405	29
29	MC	Medical Courses	6	266	40
Total :			2,143	98,481	32,450

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

35	<a href="#">101104075</a>	28	NOC:Advance Aircraft Maintenance	Y	Y	Y	19
36	<a href="#">101104076</a>	40	NOC:Introduction to Finite Volume Methods-II	Y	Y	Y	16
37	<a href="#">101105077</a>	73	NOC:Satellite Attitude Dynamics and Control	Y	Y	Y	25
38	<a href="#">101101079</a>	67	NOC:Introduction to Aerospace Engineering	Y	Y	Y	34
39	<a href="#">101104078</a>	60	NOC:Introduction to Rocket Propulsion	---	Y	Y	15
40	<a href="#">101105081</a>	40	NOC:Vibration and Structural Dynamics	---	Y	Y	11
41	<a href="#">101106082</a>	36	NOC:Rocket Propulsion	Y	Y	Y	77
42	<a href="#">101105084</a>	42	NOC:Aircraft Structures - I	Y	Y	Y	21
43	<a href="#">101104084</a>	60	NOC:Introduction to Airbreathing Propulsion	Y	Y	Y	41
44	<a href="#">101101083</a>	86	NOC:Introduction to Aircraft Design	Y	Y	Y	9.0
45	<a href="#">101105085</a>	65	NOC:Introduction to CFD	---	Y	---	30
46	<a href="#">101105083</a>	99	NOC:Space Flight Mechanics	Y	Y	Y	52
47	<a href="#">101104083</a>	26	NOC:UAV Design - Part II	Y	Y	Y	9.1
48	<a href="#">101101086</a>	36	NOC:Introduction to Launch Vehicle Analysis and Design	Y	Y	Y	2.2
49	<a href="#">101101087</a>	121	NOC:Lighter than Air Systems	Y	Y	Y	2.9
50	<a href="#">101104086</a>	40	NOC:Computational Science in Engineering	Y	Y	Y	3.1
51	<a href="#">101108086</a>	60	NOC:Gasdynamics: Fundamentals and Applications	Y	Y	Y	5.7
52	<a href="#">101105088</a>	69	NOC:Fundamentals of Theoretical and Experimental Aerodynamics	---	Y	---	6.5
53	<a href="#">101105089</a>	69	NOC:Aerodynamic Design of Axial Flow Compressors and Fans	---	Y	---	8.8

### Discipline : Biotechnology

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

1	<a href="#">102101003</a>	39	Biomathematics	Y	Y	Y	29
2	<a href="#">102101007</a>	40	Proteomics: Principles and Techniques	Y	Y	Y	34
3	<a href="#">102102033</a>	28	Enzyme Science and Engineering	Y	Y	Y	4.9
4	<a href="#">102104042</a>	40	Animal Physiology	Y	Y	Y	15
5	<a href="#">102104043</a>	40	Bio electricity	Y	Y	Y	12
6	<a href="#">102106022</a>	36	Downstream Processing	Y	Y	Y	17
7	<a href="#">102106026</a>	40	Thermodynamics	Y	Y	Y	17
8	<a href="#">102107028</a>	41	Analytical Technologies in Biotechnology	Y	Y	Y	24
9	<a href="#">102101050</a>	21	NOC:Mass spectrometry based proteomics	Y	Y	Y	1.5
10	<a href="#">102106048</a>	20	NOC:Principles of Downstream techniques in Bioprocess	Y	Y	Y	2.4
11	<a href="#">102101049</a>	21	NOC:Proteins and Gel-Based Proteomics	Y	Y	Y	1.7
12	<a href="#">102106051</a>	40	NOC:Biostatistics and Design of Experiments	Y	Y	Y	14
13	<a href="#">102106053</a>	21	NOC:Bioreactors	Y	Y	Y	5.3
14	<a href="#">102104052</a>	15	NOC:Human Molecular Genetics	Y	Y	Y	1.2
15	<a href="#">102101054</a>	40	NOC:Interactomics: Protein Arrays and Label-free Biosensors	Y	Y	Y	28
16	<a href="#">102106057</a>	40	NOC:Medical Biomaterials	Y	Y	Y	15
17	<a href="#">102104056</a>	19	NOC:Functional Genomics	Y	Y	Y	1.6

18	<a href="#">102101056</a>	40	NOC:Introduction to Biostatistics	Y	Y	Y	18
19	<a href="#">102103056</a>	24	NOC:Introduction to Dynamical Models in Biology	Y	Y	Y	5.2
20	<a href="#">102104057</a>	40	NOC:Bioenergy	Y	Y	Y	2.2
21	<a href="#">102107058</a>	20	NOC:Biomedical Nanotechnology	Y	Y	Y	4.7
22	<a href="#">102101058</a>	40	NOC:Introduction to Mechanobiology	Y	Y	Y	34
23	<a href="#">102104058</a>	60	NOC:Animal Physiology	Y	Y	Y	2.3
24	<a href="#">102104059</a>	40	NOC:Cell Culture Technologies	Y	Y	Y	1.4
25	<a href="#">102104060</a>	40	NOC:Forest Biometry	Y	Y	Y	1.8
26	<a href="#">102105058</a>	60	NOC:Industrial Biotechnology	Y	Y	Y	15
27	<a href="#">102106066</a>	18	NOC:Demystifying the Brain	Y	Y	Y	30
28	<a href="#">102104061</a>	20	NOC:Introduction To Professional and Scientific Communication	Y	Y	Y	5.3
29	<a href="#">102104062</a>	20	NOC:Bioelectrochemistry	Y	Y	Y	3.9
30	<a href="#">102104063</a>	20	NOC:Bioenergetics Of Life Processes	Y	Y	Y	3.9
31	<a href="#">102101067</a>	40	NOC:Introductory Mathematical Methods for Biologists	Y	Y	Y	36
32	<a href="#">102101055</a>	40	NOC:Introduction to Proteomics	Y	Y	Y	16
33	<a href="#">102106065</a>	69	NOC:BioInformatics:Algorithms and Applications	Y	Y	Y	34
34	<a href="#">102105064</a>	60	NOC:Aspects Of Biochemical Engineering	Y	Y	Y	16
35	<a href="#">102101068</a>	40	NOC:Bioengineering: An Interface with Biology and Medicine	Y	Y	Y	35
36	<a href="#">102104068</a>	40	NOC:Wildlife Conservation	Y	Y	Y	13
37	<a href="#">102104069</a>	40	NOC:Nanotechnology in Agriculture	Y	Y	Y	6.4
38	<a href="#">102105068</a>	20	NOC:Biomicrofluidics	Y	Y	Y	5.7
39	<a href="#">102106068</a>	103	NOC:Computational Systems Biology	Y	Y	Y	126
40	<a href="#">102106069</a>	69	NOC:Material and Energy Balances	Y	Y	Y	60
41	<a href="#">102106070</a>	40	NOC:Computer Aided Drug Design	Y	Y	Y	38
42	<a href="#">102101072</a>	40	NOC:Applications of Interactomics using Genomics and Proteomics Technologies	Y	Y	Y	42
43	<a href="#">102104073</a>	36	NOC:Wild Life Ecology	Y	Y	Y.	25
44	<a href="#">102108071</a>	20	NOC:Learning about Learning: A Course on Neurobiology of Learning and Memory	Y	Y	Y	3.8
45	<a href="#">102101076</a>	80	NOC:Introduction to Proteogenomics	Y	Y	Y	55
46	<a href="#">102103074</a>	41	NOC:Genetic Engineering: Theory and Application	Y	Y	Y	34
47	<a href="#">102106080</a>	29	NOC:Plant Cell Bioprocessing	Y	Y	Y	39
48	<a href="#">102106081</a>	37	NOC:Tissue Engineering	Y	Y	Y	53
49	<a href="#">102107075</a>	20	NOC:Plant Developmental Biology	Y	Y	Y	3.3
50	<a href="#">102108077</a>	63	NOC:Drug Delivery: Principles and Engineering	Y	Y	Y	9.5
51	<a href="#">102108078</a>	61	NOC:Fundamentals of Micro and Nanofabrication	Y	Y	Y	14
52	<a href="#">102104082</a>	36	NOC:Forests and their Management	Y	Y	Y	36
53	<a href="#">102101082</a>	60	NOC:Interactomics: Basics and Applications	Y	Y	Y	58
54	<a href="#">102108082</a>	58	NOC:Optical Spectroscopy and Microscopy: Fundamentals of	Y	Y	Y	11

Optical Measurements and Instrumentation							
55	<a href="#">102106082</a>	87	NOC:Thermodynamics for Biological Systems: Classical and Statistical Aspect	Y	Y	Y	39
56	<a href="#">102103083</a>	45	NOC:Experimental Biotechnology	Y	Y	Y	26
57	<a href="#">102105083</a>	60	NOC:Immunology	---	Y	---	23
58	<a href="#">102106084</a>	28	NOC:Introduction to Developmental Biology	Y	Y	Y	5.4
59	<a href="#">102106083</a>	81	NOC:Transport Phenomena in Biological Systems	Y	Y	Y	11
60	<a href="#">102103086</a>	24	NOC:Biointerface Engineering	---	Y	---	3.2
61	<a href="#">102104086</a>	36	NOC:Conservation Economics	Y	Y	Y	11
62	<a href="#">102105086</a>	37	NOC:Metabolic Engineering	Y	Y	Y	4.2
63	<a href="#">102105087</a>	63	NOC:Environmental Chemistry and Microbiology	Y	Y	Y	6.8
64	<a href="#">102106086</a>	40	NOC:Bioreactor Design and Analysis	Y	Y	---	2.6
65	<a href="#">102106087</a>	34	NOC:Biochemistry (IITM)	Y	Y	---	3.9
66	<a href="#">102107086</a>	60	NOC:Structural Biology	---	Y	---	20
67	<a href="#">102108086</a>	33	NOC:Cell Biology: Cellular Organization, Division and Processes	Y	Y	Y	2.9
68	<a href="#">102104088</a>	36	NOC:Conservation Geography	Y	Y	Y	8.4
69	<a href="#">102105088</a>	52	NOC:Environmental Biotechnology	---	Y	---	8.3
70	<a href="#">102105089</a>	60	NOC:Fundamentals of Protein Chemistry	---	Y	---	5.3
71	<a href="#">102105090</a>	53	NOC:Introduction to Biomedical Imaging Systems	---	Y	---	7.1
72	<a href="#">102101091</a>	61	NOC:Maternal Infant Young Child Nutrition	Y	Y	Y	8.0
73	<a href="#">102103091</a>	50	NOC:Basics of Biology	Y	Y	Y	9.8
74	<a href="#">102103092</a>	49	NOC>Data Analysis for Biologists	Y	Y	Y	8.3
75	<a href="#">102103093</a>	49	NOC:Genome Editing and Engineering	---	Y	---	4.8
76	<a href="#">102106093</a>	60	NOC:Cellular Biophysics: A Framework for Quantitative Biology	---	Y	---	3.3
77	<a href="#">102106094</a>	51	NOC:Medical Image Analysis	---	Y	---	3.6
78	<a href="#">102106095</a>	37	NOC:Organ Printing	---	Y	---	3.3
79	<a href="#">102106096</a>	58	NOC:Introduction to Cell Biology	---	Y	---	3.0

**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	<a href="#">103107093</a>	43	Process Integration	Y	Y	Y	55
26	<a href="#">103108097</a>	40	Chemical Reaction Engineering	Y	Y	Y	16
27	<a href="#">103108098</a>	40	Fundamentals of Transport Processes	Y	Y	Y	19
28	<a href="#">103108099</a>	40	Fundamentals of Transport Processes - II	Y	Y	Y	9.2
29	<a href="#">103108100</a>	43	Modern Instrumental Methods of Analysis	Y	Y	Y	20
30	<a href="#">103106112</a>	55	Statistics for Experimentalists	Y	Y	Y	28
31	<a href="#">103106118</a>	45	NOC:MATLAB Programming for Numerical Computation	Y	Y	Y	9.9
32	<a href="#">103106115</a>	39	Chemical Engineering Principles of CVD Processes	Y	Y	Y	18
33	<a href="#">103106119</a>	62	NOC:Computational Fluid Dynamics	Y	Y	Y	21
34	<a href="#">103105121</a>	20	NOC:Introduction to Process Modeling in Membrane Separation Process	Y	Y	Y	5.2
35	<a href="#">103106120</a>	19	NOC:Introduction to Statistical Hypothesis Testing	Y	Y	Y	6.4
36	<a href="#">103106116</a>	60	Chemical Reaction Engineering 1 (Homogeneous Reactors)	Y	Y	Y	59
37	<a href="#">103106117</a>	43	Chemical Reaction Engineering 2 (Heterogeneous Reactors)	Y	Y	Y	41
38	<a href="#">103105122</a>	40	NOC:Soft Nano Technology	Y	Y	Y	10
39	<a href="#">103105124</a>	25	NOC:Adiabatic Two-Phase Flow & Flow Boiling in Microchannel	Y	Y	Y	6.0
40	<a href="#">103107123</a>	20	Mechanical Operations	Y	Y	Y	4.3
41	<a href="#">103108124</a>	41	NOC:Atomic and Molecular Absorption Spectrometry for Pollution Monitoring	Y	Y	Y	8.7
42	<a href="#">103106123</a>	112	NOC:Applied Time-Series Analysis	Y	Y	Y	30
43	<a href="#">103107125</a>	40	NOC:Waste to Energy Conversion	Y	Y	Y	11
44	<a href="#">103108123</a>	71	NOC:Transport Processes I: Heat and Mass Transfer	Y	Y	Y	12
45	<a href="#">103108127</a>	38	NOC:Trace and Ultra-trace Analysis of Metals using Atomic Absorption Spectrometry	Y	Y	Y	11
46	<a href="#">103101127</a>	40	NOC:Introduction to Evolutionary Dynamics	Y	Y	Y	35

47	<a href="#">103105127</a>	65	NOC:Phase Equilibrium Thermodynamics	Y	Y	Y	5.0
48	<a href="#">103105128</a>	60	NOC:Transport Phenomena	Y	Y	Y	18
49	<a href="#">103107127</a>	20	NOC:Unit Operations of Particulate Matter	Y	Y	Y	3.9
50	<a href="#">103106131</a>	63	NOC:Rheology of Complex Materials	Y	Y	Y	30
51	<a href="#">103103135</a>	12	NOC:Measurement Technique in Multiphase Flows	Y	Y	Y	3.3
52	<a href="#">103103133</a>	12	NOC:An Introduction to Cardiovascular Fluid Mechanics	Y	Y	Y	1.1
53	<a href="#">103108138</a>	22	NOC:Inductive Couple Plasma Atomic Emmission Spectrometry (ICP-AES) for Pollution Monitoring	Y	Y	Y	5.9
54	<a href="#">103103134</a>	24	NOC:Multiphase Microfluidics	Y	Y	Y	4.0
55	<a href="#">103104129</a>	51	NOC:Thermodynamics Of Fluid Phase Equilibria	Y	Y	Y	7.2
56	<a href="#">103101137</a>	60	NOC:Heat Transfer	Y	Y	Y	24
57	<a href="#">103103132</a>	31	NOC:Fluidization Engineering	Y	Y	Y	4.5
58	<a href="#">103105130</a>	60	NOC:Chemical Process Instrumentation	Y	Y	Y	16
59	<a href="#">103103136</a>	22	NOC:Multiphase Flows	Y	Y	Y	6.7
60	<a href="#">103103139</a>	24	NOC:Introduction to Polymer Physics (IIT-G)	Y	Y	Y	11
61	<a href="#">103103140</a>	22	NOC:Natural Gas Engineering	Y	Y	Y	8.3
62	<a href="#">103105139</a>	60	NOC:Optimization in Chemical Engineering	Y	Y	Y	19
63	<a href="#">103105140</a>	60	NOC:Heat Transfer (2018)	Y	Y	Y	18
64	<a href="#">103107139</a>	60	NOC:Introduction to Polymer Physics (IIT-R)	Y	Y	Y	11
65	<a href="#">103108139</a>	21	NOC:Infrared Spectroscopy for Pollution Monitoring	Y	Y	Y	5.2
66	<a href="#">103101141</a>	60	NOC:Chemical Reaction Engineering-II	Y	Y	Y.	37
67	<a href="#">103101142</a>	48	NOC:Chemical Process Control	Y	Y	Y	17
68	<a href="#">103103144</a>	42	NOC:Chemical Engineering Thermodynamics	Y	Y	Y	13
69	<a href="#">103103145</a>	41	NOC:Mass Transfer Operations-I	Y	Y	Y	27
70	<a href="#">103103146</a>	41	NOC:Transport Phenomena of Non-Newtonian Fluids	Y	Y	Y	6.6
71	<a href="#">103103147</a>	33	NOC:Fluid Flow Operations	Y	Y	Y	20
72	<a href="#">103106148</a>	52	NOC:Process Control - Design, Analysis and Assessment	Y	Y	Y	68
73	<a href="#">103107143</a>	20	NOC:Equipment Design: Mechanical Aspects	Y	Y	Y	4.0
74	<a href="#">103106149</a>	121	System Identification	Y	Y	---	153
75	<a href="#">103103152</a>	35	NOC:Chemical Process Intensification	Y	Y	Y	22
76	<a href="#">103103153</a>	30	NOC:Chemical Reaction Engineering - I	Y	Y	Y	17
77	<a href="#">103103154</a>	32	NOC:Mass Transfer Operations II	Y	Y	Y	19
78	<a href="#">103103155</a>	37	NOC:Mechanical Unit Operations	Y	Y	Y	26
79	<a href="#">103104151</a>	63	NOC:Chemical Engineering Thermodynamics	Y	Y	Y	15
80	<a href="#">103105160</a>	60	NOC:Flow through Porous Media	Y	Y	Y	16
81	<a href="#">103105161</a>	60	NOC:Fundamentals of Particle and Fluid Solid Processing	Y	Y	Y	16
82	<a href="#">103106158</a>	70	NOC:Fluid and Particle Mechanics	Y	Y	Y	90
83	<a href="#">103106159</a>	116	NOC:Continuum Mechanics and Transport Phenomena	Y	Y	Y	84
84	<a href="#">103107156</a>	60	NOC:Chemical Process Safety	Y	Y	Y	9.9



85	<a href="#">103107157</a>	40	NOC:Technologies For Clean And Renewable Energy Production	Y	Y	Y	8.3
86	<a href="#">103102016</a>	37	Interfacial Engineering	---	Y	---	8.7
87	<a href="#">103103162</a>	31	NOC:Advanced Thermodynamics	Y	Y	Y	25
88	<a href="#">103103165</a>	35	NOC:Basic Principles and Calculations in Chemical Engineering	Y	Y	Y	15
89	<a href="#">103103164</a>	37	NOC:Computer Aided Applied Single Objective Optimization	Y	Y	Y	20
90	<a href="#">103108162</a>	35	NOC:Electrochemical Technology in Pollution Control	Y	Y	Y	21
91	<a href="#">103106162</a>	61	NOC:Environmental Quality Monitoring and Analysis	Y	Y	Y	51
92	<a href="#">103103163</a>	36	NOC:Membrane Technology	Y	Y	Y	17
93	<a href="#">105106204</a>	48	NOC:Colloids and Surfaces	Y	Y	Y	9.2
94	<a href="#">103105166</a>	60	NOC:Plant Design and Economics	---	Y	---	25
95	<a href="#">105106205</a>	87	NOC:Polymers: Concepts, Properties, Uses and Sustainability	Y	Y	Y	13
96	<a href="#">103103206</a>	38	NOC:Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	Y	Y	---	5.2
97	<a href="#">103103207</a>	37	NOC:Biomass Conversion and Biorefinery	Y	Y	Y	5.8
98	<a href="#">103107206</a>	60	NOC:Polymer Reaction Engineering	Y	Y	Y	---
99	<a href="#">103107207</a>	60	NOC:Process Equipment Design	Y	Y	---	11
100	<a href="#">103107208</a>	60	NOC:Advanced Thermodynamics and Molecular Simulations	Y	Y	Y	12
101	<a href="#">103101209</a>	61	NOC:Introduction to Interfacial Waves	---	Y	---	5.4
102	<a href="#">103103209</a>	35	NOC:Aspen Plus® Simulation Software-A basic course for beginners	Y	Y	Y	6.3
103	<a href="#">103105209</a>	60	NOC:Material and Energy Balance Computations	Y	Y	---	6.9
104	<a href="#">103105210</a>	64	NOC:Principles and Practices of Process Equipment and Plant Design	Y	Y	---	7.2
105	<a href="#">103102211</a>	65	NOC:Fluid Mechanics and its Applications	---	Y	Y	3.4
106	<a href="#">103103211</a>	25	NOC:Physical and Electrochemical Characterizations in Chemical Engineering	---	Y	---	3.3
107	<a href="#">103107211</a>	60	NOC:Chemical Process Utilities	Y	Y	Y	6.2
108	<a href="#">103107212</a>	60	NOC:Physico-Chemical Processes for Waste Water Treatment	Y	Y	Y	6.1
109	<a href="#">103103031</a>	40	Heat Transfer	---	Y	Y	20
110	<a href="#">103101215</a>	69	NOC:Hydrogen Energy:Production,Storage,Transportation and Safety	---	Y	---	7.8
111	<a href="#">103105215</a>	60	NOC:Mathematical Modelling and Simulation of Chemical Engineering Process	---	Y	---	5.2
112	<a href="#">103105216</a>	60	NOC:Advanced Process Dynamics	---	Y	---	7.0
113	<a href="#">103106214</a>	40	Synthetic and Natural Supramolecular Architectures: An Approach Towards Molecular Technology	---	Y	---	6.1
114	<a href="#">103107215</a>	60	NOC:Basic Environmental Engineering and Pollution Abatement	---	Y	---	5.6
<b>Discipline : Chemistry and Biochemistry</b> <a href="#">Go to Top</a>							
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1	<a href="#">104104011</a>	40	Chemistry of Materials	Y	Y	Y	18
2	<a href="#">104104026</a>	40	Mathematics for Chemistry	Y	Y	Y	9.1
3	<a href="#">104104066</a>	40	Advance Analytical Course	Y	Y	Y	13

4	104105031	40	Bio-inorganic chemistry	Y	Y	Y	12
5	104105033	40	Co-ordination chemistry (chemistry of transition elements)	Y	Y	Y	9.6
6	104105034	40	Heterocyclic Chemistry	Y	Y	Y	12
7	104105038	40	Organic photochemistry and pericyclic reactions	Y	Y	Y	11
8	104105039	41	Polymer Chemistry	Y	Y	Y	12
9	104105041	40	Rate processes	Y	Y	Y	11
10	104106048	25	Principles and Applications of Electron Paramagnetic Resonance Spectroscopy	Y	Y	Y	15
11	104108055	40	Essentials in Immunology	Y	Y	Y	11
12	104108056	40	Eukaryotic Gene Expression - basics and benefits	Y	Y	Y	20
13	104108057	49	Introductory Quantum Chemistry	Y	Y	Y	20
14	104108062	40	Introduction to Organometallic Chemistry	Y	Y	Y	18
15	104106072	25	NOC:Chemistry - I	Y	Y	Y	3.7
16	102105034	28	Bio-Chemistry I	Y	Y	Y	7.2
17	104105076	27	NOC:Biochemistry	Y	Y	Y	2.9
18	104106075	36	NOC:Application of Spectroscopic Methods in Molecular Structure Determination	Y	Y	Y	3.8
19	104106074	27	NOC:Chemistry-II	Y	Y	Y	8.0
20	104108078	40	NOC:Principles and Applications of NMR Spectroscopy	Y	Y	Y	11
21	104106077	34	NOC:Pericyclic Reactions and Organic Photochemistry	Y	Y	Y	7.1
22	104101079	20	NOC:Organo Metallic Chemistry	Y	Y	Y	8.1
23	104104080	40	NOC:Chemical Applications of Symmetry and Group Theory	Y	Y	Y	6.0
24	104106083	40	NOC:Chemistry I:Introduction To Quantum Chemistry and Molecular Spectroscopy	Y	Y	Y	10
25	104104082	45	NOC:Quantum Computing	Y	Y	Y	3.0
26	104104081	40	NOC:Mathematics for Chemistry	Y	Y	Y	2.4
27	104104084	40	NOC:Basics of Fluorescence Spectroscopy	Y	Y	Y	2.1
28	104104085	40	NOC:Laser: Fundamentals and Applications	Y	Y	Y	2.0
29	104101084	60	NOC:Chemical and Biological Thermodynamics: Principles to Applications	Y	Y	Y	55
30	104105084	60	NOC:Analytical Chemistry	Y	Y	Y	16
31	104105086	40	NOC:Stereochemistry	Y	Y	Y	11
32	104104086	55	NOC:Advanced Mathematical Methods for Chemistry	Y	Y	Y	38
33	104101092	20	NOC:Metal Mediated Synthesis - I	Y	Y	Y	19
34	104105088	40	NOC:Introduction to Molecular Thermodynamics	Y	Y	Y	12
35	104101090	60	NOC:Chemistry of Main Group Elements	Y	Y	Y	53
36	104101091	60	NOC:Transition Metal Organometallic Chemistry: Principles to Applications	Y	Y	Y	54
37	104105087	60	NOC:A Study Guide In Organic Retrosynthesis: Problem Solving Approach	Y	Y	Y	16
38	104106089	55	NOC:Introduction to Chemical Thermodynamics and Kinetics	Y	Y	Y	29
39	104101093	60	NOC:Inorganic Chemistry of Life: Principles and Perspectives	Y	Y	Y	42

40	<a href="#">104101094</a>	68	NOC:Symmetry and Group Theory	Y	Y	Y	32
41	<a href="#">104101095</a>	41	NOC:Computational Chemistry and Classical Molecular Dynamics	Y	Y	Y	28
42	<a href="#">104105093</a>	40	NOC:Molecules in Motion	Y	Y	Y	11
43	<a href="#">104106093</a>	62	NOC:Chemical Crystallography	Y	Y	Y	66
44	<a href="#">104106094</a>	44	NOC:Advanced Chemical Thermodynamics and Kinetics	Y	Y	Y	63
45	<a href="#">104106096</a>	56	NOC:Chemistry: Atomic Structure and Chemical Bonding	Y	Y	Y	37
46	<a href="#">104101099</a>	63	NOC:Molecular Spectroscopy: A Physical Chemists Perspective	Y	Y	Y*	43
47	<a href="#">104101100</a>	60	NOC:Advanced Transition Metal Organometallic Chemistry	Y	Y	Y	57
48	<a href="#">104104101</a>	60	NOC:Solid State Chemistry	Y	Y	Y	22
49	<a href="#">104105102</a>	53	NOC:Experimental Biochemistry	Y	Y	Y	24
50	<a href="#">104105103</a>	60	NOC:Industrial Inorganic Chemistry	Y	Y	Y	17
51	<a href="#">104105104</a>	20	NOC:Reactive Intermediates Carbene and Nitrene	Y	Y	Y	5.1
52	<a href="#">104106105</a>	52	NOC:Electrochemical Impedance Spectroscopy	Y	Y	Y	69
53	<a href="#">104106106</a>	69	NOC:Medicinal Chemistry	Y	Y	Y	78
54	<a href="#">104106107</a>	68	NOC:Chemical Principles-II	Y	Y	Y	74
55	<a href="#">104108097</a>	42	NOC:Multidimensional NMR Spectroscopy for Structural Studies of Biomolecules	Y	Y	Y	3.9
56	<a href="#">104108098</a>	61	NOC:Symmetry and Structure in the Solid State	Y	Y	Y	18
57	<a href="#">104106108</a>	8	Organic Chemistry Lab Certification	---	Y	---	18
58	<a href="#">104101115</a>	40	NOC:Mechanisms in Organic Chemistry	Y	Y	Y	33
59	<a href="#">104101116</a>	38	NOC:Metals In Biology	Y	Y	Y	34
60	<a href="#">104101117</a>	60	NOC:NMR spectroscopy for Chemists and Biologists	Y	Y	Y	47
61	<a href="#">104102113</a>	34	NOC:Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Y	Y	Y	30
62	<a href="#">104102114</a>	15	NOC:Introductory Non-Linear Dynamics	Y	Y	Y	8.0
63	<a href="#">104103110</a>	30	NOC:Principles Of Organic Synthesis	Y	Y	Y	27
64	<a href="#">104103111</a>	32	NOC:Reagents In Organic Synthesis	Y	Y	Y	19
65	<a href="#">104103112</a>	37	NOC:Thermodynamics: Classical to Statistical	Y	Y	Y	4.8
66	<a href="#">104104109</a>	20	NOC:Bioinorganic Chemistry	Y	Y	Y	12
67	<a href="#">104105120</a>	63	NOC:Organic Chemistry in Biology and Drug Development	Y	Y	Y	27
68	<a href="#">104106119</a>	52	NOC:Introductory Organic Chemistry I	Y	Y	Y	56
69	<a href="#">104108118</a>	43	NOC:Ultrafast Optics and Spectroscopy	Y	Y	Y	6.5
70	<a href="#">104102009</a>	42	Bio-Physical Chemistry	---	Y	---	46
71	<a href="#">104101121</a>	19	NOC:Basics in Inorganic Chemistry	Y	Y	Y	11
72	<a href="#">104103121</a>	35	NOC:Essentials of Biomolecules: Nucleic Acids and Peptides	Y	Y	Y	18
73	<a href="#">104106122</a>	61	NOC:Fundamentals of Spectroscopy	Y	Y	Y	41
74	<a href="#">104106121</a>	51	NOC:Quantitative Methods in Chemistry	Y	Y	Y	39
75	<a href="#">104101123</a>	60	NOC:Transition Metal Organometallics in Catalysis and Biology	Y	Y	Y	44
76	<a href="#">104101122</a>	67	NOC:Ultrafast Laser Spectroscopy	Y	Y	Y	55

77	<a href="#">104101125</a>	61	NOC:Basic Statistical Mechanics	Y	Y	Y	14
78	<a href="#">104105124</a>	42	NOC:Introduction to Polymer Science	Y	Y	Y	22
79	<a href="#">104108124</a>	65	NOC:One and Two Dimensional NMR Spectroscopy for Chemists	Y	Y	Y	4.5
80	<a href="#">104101124</a>	67	NOC:Quantum Chemistry of Atoms and Molecules	Y	Y	Y	37
81	<a href="#">104101126</a>	38	NOC:Quantum Mechanics and Molecular Spectroscopy	Y	Y	Y	9.0
82	<a href="#">104101127</a>	60	NOC:Essentials of Oxidation, Reduction and C_C Bond Formation. Application in Organic Synthesis	Y	Y	Y	5.1
83	<a href="#">104101128</a>	46	NOC:Chemical Kinetics and Transition State Theory	---	Y	---	4.2
84	<a href="#">104105127</a>	40	NOC:Structure, Stereochemistry and Reactivity of Organic Compounds and Intermediates: A Problem Solving Approach	Y	Y	---	7.3
85	<a href="#">104105128</a>	42	NOC:Approximate Methods in Quantum Chemistry	Y	Y	Y	3.4
86	<a href="#">104106127</a>	56	NOC:Symmetry, Stereochemistry and Applications	Y	Y	Y	3.8
87	<a href="#">104106128</a>	64	NOC:Symmetry and Group Theory (2021)	Y	Y	Y	3.5
88	<a href="#">104101130</a>	77	NOC:Concepts of Chemistry for Engineering	Y	Y	Y	9.2
89	<a href="#">104104130</a>	40	NOC:Chemistry and Physics of Surfaces and Interfaces	Y	Y	---	4.1
90	<a href="#">104105130</a>	60	NOC:Biological Inorganic Chemistry	---	Y	---	4.7
91	<a href="#">104106131</a>	61	NOC:Introductory Organic Chemistry - II	Y	Y	Y	2.4
92	<a href="#">104108132</a>	56	NOC:Time Dependent Quantum Chemistry	Y	Y	Y	4.3
93	<a href="#">104101133</a>	58	NOC:Classics in Total Synthesis-I	---	Y	---	4.7
94	<a href="#">104101134</a>	62	NOC:Circular Dichroism and Mossbauer Spectroscopy for Chemists	---	Y	---	3.7
95	<a href="#">104101135</a>	60	NOC:NMR Spectroscopy for Structural Biology	---	Y	---	6.8
96	<a href="#">104101136</a>	60	NOC:Transition Metal Chemistry	---	Y	---	7.6
97	<a href="#">104105133</a>	40	NOC:Principles and Applications of Enolate Alkylation	---	Y	---	3.5

**Discipline : Civil Engineering**

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1	<a href="#">105101005</a>	38	Soil Dynamics	Y	Y	Y	19
2	<a href="#">105101006</a>	38	Structural Dynamics	Y	Y	Y	19
3	<a href="#">105101010</a>	40	Watershed Management	Y	Y	Y	41
4	<a href="#">105101082</a>	42	Fluid Mechanics	Y	Y	Y	9.6
5	<a href="#">105101084</a>	57	Soil Mechanics	Y	Y	Y	15
6	<a href="#">105101086</a>	40	Structural Analysis II	Y	Y	Y	9.8
7	<a href="#">105101134</a>	43	Geotechnical Earthquake Engineering	Y	Y	Y	37
8	<a href="#">105101143</a>	63	Geosynthetics Engineering: In Theory and Practice	Y	Y	Y	59
9	<a href="#">105102012</a>	41	Concrete Technology	Y	Y	Y	37
10	<a href="#">105102016</a>	30	Seismic Analysis of Structures	Y	Y	Y	27
11	<a href="#">105102088</a>	41	Building Materials and Construction	Y	Y	Y	12
12	<a href="#">105103021</a>	43	Advanced Hydraulics	Y	Y	Y	22
13	<a href="#">105103094</a>	40	Design of Steel Structures	Y	Y	---	9.1
14	<a href="#">105103096</a>	40	Hydraulics	Y	Y	Y	20

15	105104029	44	Advanced Hydrology	Y	Y	Y	21
16	105104030	40	Concrete Engineering and Technology	Y	Y	Y	16
17	105104099	39	Environmental Air Pollution	Y	Y	Y	7.0
18	105104101	40	Surveying	Y	Y	Y	6.8
19	105104103	29	Water Resources Engineering	Y	Y	Y	3.5
20	105104131	40	Geotechnical Measurements and Explorations	Y	Y	Y	11
21	105104135	40	Application of Soil Mechanics	Y	Y	Y	11
22	105105039	40	Advanced Foundation Engineering	Y	Y	Y	12
23	105105043	40	Numerical Methods in Civil Engineering	Y	Y	Y	11
24	105105045	40	Probability Methods in Civil Engineering	Y	Y	Y	19
25	105105105	30	Design of Reinforced Concrete Structures	Y	Y	Y	6.3
26	105105106	40	Engineering Geology	Y	Y	Y	12
27	105105107	41	Introduction to Transportation Engineering	Y	Y	Y	8.2
28	105105108	40	Strength of Materials	Y	Y	Y	12
29	105106050	41	Advanced Structural Analysis	Y	Y	Y	18
30	105106051	40	Finite Element Analysis	Y	Y	Y	27
31	105106052	40	Geosynthetics and Reinforced Soil Structures	Y	Y	Y	17
32	105106053	42	Modern Construction Materials	Y	Y	Y	7.2
33	105106058	40	Urban Transportation Planning	Y	Y	Y	19
34	105106116	39	Mechanics of solids	Y	Y	Y	3.5
35	105106118	40	Pre-stressed Concrete Structures	Y	Y	Y	11
36	105106119	40	Water and Waste Water Engineering	Y	Y	Y	11
37	105107120	40	Foundation Engineering	Y	Y	Y	7.8
38	105107121	40	Modern Surveying Techniques	Y	Y	Y	1.9
39	105107123	40	Transportation Engineering II	Y	Y	Y	8.2
40	105108075	40	Ground Improvement Techniques	Y	Y	Y	11
41	105108079	40	Stochastic Hydrology	Y	Y	Y	19
42	105108080	42	Stochastic Structural Dynamics	Y	Y	Y	19
43	105108130	40	Water Resources Systems : Modeling Techniques and Analysis	Y	Y	Y	20
44	105105042	40	Ground Water Hydrology	Y	Y	Y	9.0
45	105101001	60	Advanced Geotechnical Engineering	Y	Y	Y	53
46	105106145	40	NOC:Sustainable River Basin Management	Y	Y	Y	2.8
47	105106149	57	NOC:Project Planning and Control	Y	Y	Y	6.5
48	105105150	25	NOC:Probability Methods in Civil Engineering	Y	Y	Y	2.8
49	105104147	65	NOC:Geology and Soil Mechanics	Y	Y	Y	4.9
50	105104148	32	NOC:Engineering Graphics	Y	Y	Y	1.6
51	105106151	68	NOC:Structural Dynamics	Y	Y	Y	12
52	105104152	20	NOC:Earth Sciences for Civil Engineering	Y	Y	Y	1.6

53	<a href="#">105108141</a>	40	Finite Element method for vibration and Stability analyses	Y	Y	Y	14
54	<a href="#">105107155</a>	20	NOC:Introduction to Geographic Information Systems	Y	Y	Y	5.3
55	<a href="#">105107156</a>	20	NOC:Principles and Applications of Building Science	Y	Y	Y	6.2
56	<a href="#">105107157</a>	20	NOC:GPS Surveying	Y	Y	Y	6.4
57	<a href="#">105105156</a>	20	NOC:Visual Semiotics for Visual Communication	Y	Y	Y	7.6
58	<a href="#">105104156</a>	20	NOC:Earth Sciences for Civil Engineering - Part 2	Y	Y	Y	2.1
59	<a href="#">105102159</a>	40	Water Management	Y	Y	Y	27
60	<a href="#">105107158</a>	40	NOC:Digital Land Surveying And Mapping	Y	Y	Y	11
61	<a href="#">105105157</a>	40	NOC:Life Cycle Assessment	Y	Y	Y	11
62	<a href="#">105104157</a>	32	NOC:Hydration, Porosity and Strength of Cementitious Materials	Y	Y	Y	2.4
63	<a href="#">105101160</a>	22	NOC:Geotechnical Engineering Laboratory	Y	Y	Y	11
64	<a href="#">105104160</a>	60	NOC:Mechanics of Solids	Y	Y	Y	4.6
65	<a href="#">105104161</a>	37	NOC:Principles of Construction Management	Y	Y	Y	5.4
66	<a href="#">105104162</a>	40	NOC:Foundation Design	Y	Y	Y	2.6
67	<a href="#">105105160</a>	62	NOC:Integrated Waste Management for a Smart City	Y	Y	Y	16
68	<a href="#">105105161</a>	51	NOC:Computational Hydraulics	Y	Y	Y	13
69	<a href="#">105105162</a>	63	NOC:Design of Steel Structures	Y	Y	Y	18
70	<a href="#">105105165</a>	20	NOC:Reinforced Concrete Road Bridges	Y	Y	Y	5.8
71	<a href="#">105105166</a>	61	NOC:Structural Analysis - I	Y	Y	Y	17
72	<a href="#">105107160</a>	20	NOC:Digital Image Processing of Remote Sensing Data	Y	Y	Y	5.2
73	<a href="#">105102160</a>	42	NOC:Geoenvironmental Engineering (Environmental Geotechnology) Landfills, Slurry Ponds and Contaminated Sites	Y	Y	Y	29
74	<a href="#">105105169</a>	22	NOC:Electronic Waste Management: Issues And Challenges	Y	Y	Y	5.9
75	<a href="#">105107174</a>	20	NOC:Digital Elevation Models and Applications	Y	Y	Y	5.7
76	<a href="#">105104167</a>	21	NOC:Photogeology In Terrain Evaluation	Y	Y	Y	4.7
77	<a href="#">105102175</a>	55	NOC:Energy Efficiency, Acoustics and Daylighting in Building	Y	Y	Y	27
78	<a href="#">105106172</a>	102	NOC:Mechanics of Materials	Y	Y	Y	18
79	<a href="#">105107173</a>	60	NOC:Applied Environmental Microbiology	Y	Y	Y	15
80	<a href="#">105105168</a>	61	NOC:Soil Mechanics, Geotechnical Engineering-I	Y	Y	Y	15
81	<a href="#">105105170</a>	60	NOC:Mineral Resources: Geology, Exploration, Economics and Environment	Y	Y	Y	16
82	<a href="#">105105171</a>	64	NOC:Introduction to Mineral Processing	Y	Y	Y	17
83	<a href="#">105101176</a>	21	NOC:Geosynthetics Testing Laboratory	Y	Y	Y	20
84	<a href="#">105102176</a>	56	NOC:Fire Protection, Services and Maintenance Management of Building	Y	Y	Y	28
85	<a href="#">105103176</a>	36	NOC:Higher Surveying	Y	Y	Y	20
86	<a href="#">105103177</a>	36	NOC:Unsaturated Soil Mechanics	Y	Y	Y	9.3
87	<a href="#">105104177</a>	20	NOC:Photogeology In Terrain Evaluation - Part 2	Y	Y	Y	5.7
88	<a href="#">105104178</a>	38	NOC:Introduction to Accounting and Finance for Civil Engineers	Y	Y	Y	11
89	<a href="#">105105176</a>	60	NOC:Foundation Engineering	Y	Y	Y	18
90	<a href="#">105105177</a>	60	NOC:Theory of Elasticity	Y	Y	Y	17

91	105105178	62	NOC:Wastewater Treatment and Recycling	Y	Y	Y	15
92	105105179	40	NOC:Fluid Inclusion in Mineral Principles, Methodology, Practice and Application	Y	Y	Y	12
93	105105180	42	NOC:Matrix Method of Structural Analysis	Y	Y	Y	9.0
94	105106176	44	NOC:Advanced Concrete Technology	Y	Y	Y	78
95	105106177	87	NOC:Glass in buildings: Design and Application	Y	Y	Y	64
96	105106178	75	NOC:Glass Processing Technology	Y	Y	Y	50
97	105107176	60	NOC:Environmental Engineering-Chemical Processes	Y	Y	Y	12
98	105103182	21	NOC:Subsurface Exploration: Importance and Techniques Involved	Y	Y	Y	8.8
99	105104183	43	NOC:Natural Hazards - Part 1	Y	Y	Y*	14
100	105105184	40	NOC:Plastic Waste Management	Y	Y	Y	11
101	105105185	60	NOC:Geotechnical Engineering-II Foundation Engineering	Y	Y	Y	16
102	105105186	43	NOC:Mass, Momentum and Energy Balances in Engineering Analysis	Y	Y	Y	11
103	105106187	29	NOC:Advanced Topics in the Science and Technology of Concrete	Y	Y	Y	39
104	105106188	47	NOC:Infrastructure Planning and Managements	Y	Y	Y	64
105	105107181	59	NOC:Environmental Remediation of Contaminated Sites	Y	Y	Y	15
106	105101196	53	NOC:Environmental Geotechnics	Y	Y	Y	17
107	105102195	47	NOC:Sustainable Materials and Green Buildings	Y	Y	Y	23
108	105102199	12	NOC:Scheduling Techniques in Projects	Y	Y	Y	9.1
109	105103192	37	NOC:Fluid Mechanics	Y*	Y	Y*	15
110	105103193	24	NOC:Remote Sensing and GIS	Y	Y	Y	9.8
111	105104189	13	NOC:Structural Dynamics for Civil Engineers - SDOF systems	Y	Y	Y	6.4
112	105104190	38	NOC:Geomorphic Processes: Landforms and Landscapes	Y	Y	Y	13
113	105104191	48	NOC:Structural Geology	Y	Y	Y	38
114	105106197	40	NOC:Design of Masonry Structures	Y	Y	Y	85
115	105107194	20	NOC:Global Navigation Satellite Systems And Applications	Y	Y	Y	4.7
116	105106200	67	NOC:Characterization of Construction Materials	Y	Y	Y	53
117	105104200	57	NOC:Earthquake Geology: A tool for Seismic Hazard Assessment	Y	Y	Y	34
118	105101200	56	NOC:Environmental Geomechanics	Y	Y	Y	25
119	105107200	60	NOC:Geomorphology	Y	Y	Y	13
120	105105202	19	NOC:Geo Spatial Analysis in Urban Planning	Y	Y	Y	5.3
121	105101201	28	NOC:Geotechnical Engineering - 1	Y	Y	Y	47
122	105105203	63	NOC:Hydraulic Engineering	Y	Y	Y	17
123	105106201	20	NOC:Introduction to Civil Engineering Profession	Y	Y	Y	23
124	105106202	35	NOC:Maintenance and Repair of Concrete Structures	Y	Y	Y	26
125	105106203	56	NOC:Mechanical Characterization of Bituminous Materials	Y	Y	Y	40
126	105107201	56	NOC:Remote Sensing Essentials	Y	Y	Y	14
127	105105200	66	NOC:Soil Structure Interaction	Y	Y	Y	28
128	105105201	62	NOC:Water Supply Engineering	Y	Y	Y	20

129	105107204	40	NOC:Earthquake Resistant Design of Foundations	---	Y	---	5.9
130	105108204	64	NOC:Introduction to Engineering Seismology	Y	Y	---	9.9
131	105105204	60	NOC:Introduction to Multimodal Urban Transportation Systems	Y	Y	Y	17
132	105103205	43	NOC:Municipal Solid Waste Management	Y	Y	Y	9.7
133	105103204	24	NOC:River Engineering	Y	Y	Y	6.6
134	105101206	67	NOC:Remote Sensing: Principles and Applications	Y	Y	Y	16
135	105102206	27	NOC:Safety in Construction	Y	Y	Y	5.4
136	105103206	22	NOC:Construction Methods and Equipment Management	Y	Y	Y	4.7
137	105103207	57	NOC:Advanced Soil Mechanics	Y	Y	Y	5.7
138	105104206	32	NOC:Development and Applications of Special Concretes	Y	Y	Y	3.9
139	105105207	70	NOC:Advanced Foundation Engineering	Y	Y	Y	7.8
140	105105208	60	NOC:Urban Transport Systems Planning	Y	Y	---	7.1
141	105106206	51	NOC:Basic Construction Materials	Y	Y	Y	6.4
142	105107206	60	NOC:Geographic Information Systems	Y	Y	Y	13
143	105107207	60	NOC:Water and Waste Water Treatment	Y	Y	Y	8.1
144	105107208	60	NOC:Rock Engineering	Y	Y	Y	7.1
145	105101209	29	NOC:Dynamics of Structures	Y	Y	Y	2.9
146	105103209	36	NOC:Plates and Shells	Y	Y	Y	5.3
147	105103210	38	NOC:Optimization methods for Civil engineering	---	Y	---	4.1
148	105105209	252	NOC:Structural Reliability	Y	Y	Y	4.2
149	105105210	60	NOC:Ground Improvement	Y	Y	---	8.2
150	105105211	20	NOC:Remote Sensing of Leaf Area Index and Primary Productivity	Y	Y	Y	2.5
151	105105212	61	NOC:Rock Mechanics and Tunneling	---	Y	---	6.3
152	105107209	60	NOC:Finite Element Method and Computational Structural Dynamics	---	Y	---	12
153	105107210	60	NOC:Sustainable Transportation Systems	Y	Y	Y	7.1
154	105101213	58	NOC:Microwave Remote Sensing in Hydrology	---	Y	---	11
155	105101214	60	NOC:Groundwater Hydrology and Management	Y	Y	Y	4.8
156	105101215	60	NOC:Rural Water Resources Management	Y	Y	Y	4.4
157	105103213	83	NOC:Engineering Hydrology	Y	Y	Y	8.8
158	105103214	28	NOC:Expansive Soil	Y	Y	Y	2.9
159	105105213	63	NOC:Retrofitting and Rehabilitation of Civil Infrastructure	Y	Y	---	6.5
160	105105214	62	NOC:Surface Water Hydrology	Y	Y	Y	11
161	105105215	66	NOC:Traffic Engineering	---	Y	---	11
162	105106213	77	NOC:Introduction to Lean Construction	Y	Y	Y	3.4
163	105107213	60	NOC:Air Pollution and Control	Y	Y	Y	6.8
164	105101216	52	NOC:Geotechnical Engineering-II	---	Y	---	12
165	105104216	17	NOC:Introductory Field Structural Geology	---	Y	---	4.3
166	105105216	43	NOC:Bridge Engineering	---	Y	---	5.3



167	<a href="#">105105217</a>	60	NOC:Elastic Stability of Structures	---	Y	---	4.0
168	<a href="#">105105218</a>	35	NOC:Radiogenic Isotope Geology	---	Y	---	2.5
169	<a href="#">105105219</a>	60	NOC:Availability and Management of Groundwater Resources	---	Y	---	5.0
170	<a href="#">105106216</a>	23	NOC:Design of Connections in Steel Structures	---	Y	---	1.8
171	<a href="#">105107216</a>	60	NOC:Underground Space Technology	---	Y	---	6.1
172	<a href="#">105107217</a>	60	NOC:Environmental Modeling and Simulation	---	Y	---	6.4
173	<a href="#">105107218</a>	60	NOC:Advanced Geomatics Engineering	---	Y	---	7.9
174	<a href="#">105107219</a>	60	NOC:Pavement Materials (Under Pavement Engineering)	---	Y	---	8.0
175	<a href="#">105107220</a>	62	NOC:Geometric Design of Highways	---	Y	---	5.9
<b>Discipline : Computer Science and Engineering</b>							
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1	<a href="#">106101007</a>	40	Natural Language Processing	Y	Y	Y	31
2	<a href="#">106101060</a>	34	Design and Analysis of Algorithms	Y	Y	Y	8.3
3	<a href="#">106101061</a>	39	Software Engineering	Y	Y	Y	11
4	<a href="#">106102011</a>	40	Computational Geometry	Y	Y	Y	26
5	<a href="#">106102013</a>	39	Logic for CS	Y	Y	Y	31
6	<a href="#">106102062</a>	38	Computer Architecture (Prof. Anshul Kumar)	Y	Y	Y	9.0
7	<a href="#">106102064</a>	36	Data Structures And Algorithms	Y	Y	Y	9.3
8	<a href="#">106102065</a>	35	Introduction to Computer Graphics	Y	Y	Y	7.7
9	<a href="#">106102067</a>	40	Principles of Programming Languages	Y	Y	Y	9.8
10	<a href="#">106102114</a>	34	Parallel Computing	Y	Y	Y	8.8
11	<a href="#">106103116</a>	44	Design Verification and Test of Digital VLSI Circuits	Y	Y	Y	25
12	<a href="#">106104019</a>	35	Computer Algorithms - 2	Y	Y	Y	18
13	<a href="#">106104028</a>	42	Theory of Computation	Y	Y	Y	20
14	<a href="#">106104074</a>	24	Introduction to Problem Solving and Programming	Y	Y	Y	2.5
15	<a href="#">106104118</a>	30	Riemann Hypothesis and its Applications	Y	Y	Y	6.9
16	<a href="#">106104119</a>	26	Biometrics	Y	Y	Y	11
17	<a href="#">106104120</a>	25	Parallel Algorithm	Y	Y	Y	13
18	<a href="#">106104122</a>	36	Computer Architecture (Dr. Mainak Chaudhuri)	Y	Y	Y	15
19	<a href="#">106104123</a>	30	Compiler Design (Prof. Sanjeev K Aggarwal)	Y	Y	Y	12
20	<a href="#">106104128</a>	59	NOC:Introduction to Programming in C	Y	Y	Y	3.1
21	<a href="#">106105031</a>	41	Cryptography and Network Security	Y	Y	Y	19
22	<a href="#">106105033</a>	41	High Performance Computer Architecture	Y	Y	Y	11
23	<a href="#">106105034</a>	40	Low Power VLSI Circuits and Systems	Y	Y	Y	19
24	<a href="#">106105036</a>	40	Real Time Systems	Y	Y	Y	8.1
25	<a href="#">106105077</a>	40	Artificial Intelligence (Prof. S. Sarkar, Prof. Anupam Basu)	Y	Y	Y	8.8
26	<a href="#">106105079</a>	28	Artificial Intelligence (Prof.P. Dasgupta)	Y	Y	Y	7.6
27	<a href="#">106105081</a>	40	Computer Networks	Y	Y	Y	12

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

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

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

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

180	<a href="#">106101234</a>	55	NOC:Design and Engineering of Computer Systems	Y	Y	Y	5.6
181	<a href="#">106101235</a>	25	NOC:Software Conceptual Design	---	Y	---	0.4
182	<a href="#">106105234</a>	75	NOC:Programming in Modern C++	---	Y	---	8.9
183	<a href="#">106105235</a>	60	NOC:Blockchain and its Applications	---	Y	---	7.1
184	<a href="#">106106234</a>	18	NOC:Systems and Usable Security	---	Y	---	1.4
185	<a href="#">106106235</a>	25	NOC:Online Privacy	Y	Y	---	4.0
186	<a href="#">106106236</a>	62	NOC:Introduction to Machine Learning (Tamil)	---	Y	---	3.6
187	<a href="#">106106237</a>	48	Compiler Design	---	Y	---	4.1
188	<a href="#">106101237</a>	62	NOC:Introduction to Game Theory and Mechanism Design	---	Y	---	3.3
189	<a href="#">106101238</a>	20	NOC:Introduction to Computer and Network Performance Analysis using Queuing Systems	---	Y	---	2.3
190	<a href="#">106102237</a>	28	NOC:Advanced Distributed systems	---	Y	---	3.5
191	<a href="#">106103237</a>	44	NOC:Design and Implementation of Human-Computer Interfaces	---	Y	---	5.8
192	<a href="#">106105237</a>	60	NOC:Algorithmic Game Theory	---	Y	---	4.2
193	<a href="#">106105238</a>	40	NOC:Machine Learning for Earth System Sciences	---	Y	---	4.3
194	<a href="#">106105239</a>	60	NOC:Statistical Learning for Reliability Analysis	---	Y	---	6.7
195	<a href="#">106106238</a>	61	NOC:Applied Accelerated Artificial Intelligence	---	Y	---	4.2
196	<a href="#">106106239</a>	74	NOC:Social Network Analysis	---	Y	---	5.5
197	<a href="#">106108237</a>	62	NOC:Secure Computation - Part II	---	Y	---	5.1

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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
8	<a href="#">107103084</a>	12	NOC:Ergonomics In Automotive Design	Y	Y	Y	13
9	<a href="#">107103085</a>	14	NOC:Ergonomics Workplace Analysis	Y	Y	Y	4.6
10	<a href="#">107101086</a>	55	NOC:Innovation by Design	Y	Y	Y	17
11	<a href="#">107101087</a>	42	NOC:Understanding Design	Y	Y	Y	6.0
12	<a href="#">107101088</a>	23	NOC:Design, Technology and Innovation	Y	Y	Y	20
13	<a href="#">107106088</a>	74	NOC:Fundamentals of Automotive Systems	Y	Y	Y	57
14	<a href="#">107105088</a>	64	NOC:Geographic Information System	Y	Y	Y	31
15	<a href="#">107106089</a>	38	NOC:Functional and Conceptual Design	Y	Y	Y	9.7
16	<a href="#">107106090</a>	43	NOC:Introduction to Robotics	Y	Y	Y	5.9
17	<a href="#">107101091</a>	67	NOC:Understanding Ethnography	Y	Y	Y	14

18	<a href="#">107101092</a>	27	NOC:Understanding Incubation and Entrepreneurship	Y	Y	---	4.3
<b>Discipline : Electrical Engineering</b>							
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<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/electrical-engineering.pdf">http://www.digimat.in/downloads/topics/electrical-engineering.pdf</a></b>							
1	<a href="#">108101002</a>	35	Nonlinear Dynamical Systems	Y	Y	Y	29
2	<a href="#">108101004</a>	45	Power System Dynamics and Control	Y	Y	Y	41
3	<a href="#">108101037</a>	47	Control Engineering (Prof. S.D. Agashe)	Y	Y	Y	13
4	<a href="#">108101038</a>	43	Power Electronics	Y	Y	Y	12
5	<a href="#">108102042</a>	51	Circuit Theory	Y	Y	Y	13
6	<a href="#">108102043</a>	41	Control Engineering (Prof. M. Gopal)	Y	Y	Y	9.2
7	<a href="#">108102045</a>	37	Embedded Systems	Y	Y	Y	9.4
8	<a href="#">108102047</a>	35	Power System Generation, Transmission and Distribution	Y	Y	Y	7.2
9	<a href="#">108102080</a>	40	Power System Dynamics	Y	Y	Y	9.8
10	<a href="#">108103007</a>	40	Advanced Control Systems	Y	Y	Y	17
11	<a href="#">108104011</a>	40	Advanced Electric Drives	Y	Y	Y	18
12	<a href="#">108104013</a>	37	High Voltage DC Transmission	Y	Y	Y	16
13	<a href="#">108104049</a>	32	Intelligent Systems and Control	Y	Y	Y	6.1
14	<a href="#">108104052</a>	35	Power Systems Operation and Control	Y	Y	Y	4.8
15	<a href="#">108105017</a>	40	Electrical Machines - I	Y	Y	Y	8.5
16	<a href="#">108105019</a>	60	Optimal Control	Y	Y	Y	12
17	<a href="#">108105054</a>	40	Chaos, Fractals and Dynamic Systems	Y	Y	Y	8.6
18	<a href="#">108105055</a>	35	Digital Signal Processing	Y	Y	Y	7.6
19	<a href="#">108105056</a>	34	Dynamics of Physical Systems	Y	Y	Y	7.4
20	<a href="#">108105058</a>	40	Energy Resources and Technology	Y	Y	Y	8.5
21	<a href="#">108105059</a>	30	Estimation of Signals and Systems	Y	Y	Y	6.1
22	<a href="#">108105060</a>	20	Illumination Engineering	Y	Y	Y	4.1
23	<a href="#">108105062</a>	40	Industrial Automation and Control	Y	Y	Y	12
24	<a href="#">108105064</a>	40	Industrial Instrumentation	Y	Y	Y	12
25	<a href="#">108105065</a>	36	Networks Signals and Systems	Y	Y	Y	11
26	<a href="#">108105067</a>	40	Power System Analysis	Y	Y	Y	12
27	<a href="#">108106023</a>	43	Modelling and Analysis of Electric Machines	---	Y	Y	19
28	<a href="#">108106068</a>	28	Analog ICs	Y	Y	Y	6.1
29	<a href="#">108106069</a>	40	Digital Integrated Circuits	Y	Y	Y	9.2
30	<a href="#">108106073</a>	42	Electromagnetic Fields	Y	Y	Y	11
31	<a href="#">108106075</a>	50	Networks and Systems	Y	Y	Y	12
32	<a href="#">108106083</a>	96	Probability Foundation for Electrical Engineers	Y	Y	Y	36
33	<a href="#">108108031</a>	42	An Introduction to Electronics Systems Packaging	Y	Y	Y	20
34	<a href="#">108108034</a>	40	Power Electronics and Distributed Generation	Y	Y	Y	14
35	<a href="#">108108035</a>	40	Pulse width Modulation for Power Electronic Converters	Y	Y	Y	12

36	<a href="#">108108036</a>	40	Switched Mode Power Conversion	Y	Y	Y	19
37	<a href="#">108108076</a>	39	Basic Electrical Technology	Y	Y	Y	11
38	<a href="#">108108077</a>	37	Industrial Drives - Power Electronics	Y	Y	Y	7.6
39	<a href="#">108106084</a>	131	NOC:Analog Circuits	Y	Y	Y	8.7
40	<a href="#">108106085</a>	29	NOC:Introduction to Non Linear Dynamics	Y	Y	Y	0.5
41	<a href="#">108105088</a>	52	NOC:Industrial Automation and Control	Y	Y	Y	13
42	<a href="#">108104087</a>	85	NOC:Electromagnetic Theory	Y	Y	Y	4.6
43	<a href="#">108101089</a>	28	Fabrication of Silicon VLSI Circuits using the MOS technology	Y	Y	Y	31
44	<a href="#">108101090</a>	83	NOC:Computational Electromagnetics and Applications	Y	Y	Y	29
45	<a href="#">108101092</a>	60	NOC:Antennas	Y	Y	Y	22
46	<a href="#">108101094</a>	41	NOC:Analog Circuits	Y	Y	Y	14
47	<a href="#">108101093</a>	71	NOC:Fundamentals of Wavelets, Filter Banks and Time Frequency Analysis	Y	Y	Y	21
48	<a href="#">108101091</a>	72	NOC:Basic Electronics	Y	Y	Y	3.5
49	<a href="#">108104092</a>	33	NOC:An Introduction to Coding Theory	Y	Y	Y	2.6
50	<a href="#">108102095</a>	51	Analog Electronic Circuits	Y	Y	Y	63
51	<a href="#">108102096</a>	38	Digital Communication	Y	Y	Y	62
52	<a href="#">108102097</a>	40	Introduction To Electronic Circuits	Y	Y	Y	32
53	<a href="#">108105091</a>	20	NOC:Medical Image Analysis	Y	Y	Y	6.0
54	<a href="#">108104091</a>	52	NOC:Principles of Communication - Part I	Y	Y	Y	2.8
55	<a href="#">108107098</a>	40	NOC:Optimal Control	Y	Y	Y	9.7
56	<a href="#">108106098</a>	55	NOC:Control Engineering	Y	Y	Y	23
57	<a href="#">108104098</a>	56	NOC:Principles of Communication Systems - Part II	Y	Y	Y	3.1
58	<a href="#">108104099</a>	66	NOC:Applied Engineering Electromagnetics	Y	Y	Y	4.3
59	<a href="#">108108098</a>	31	NOC:Design for Internet of Things	Y	Y	Y	13
60	<a href="#">108108099</a>	40	NOC:Advances in UHV Transmission and Distribution	Y	Y	Y	10
61	<a href="#">108103108</a>	24	NOC:Optimization Techniques for Digital VLSI Design	Y	Y	Y	9.5
62	<a href="#">108108110</a>	34	NOC:Electronics Enclosures Thermal Issues	Y	Y	Y	10
63	<a href="#">108106106</a>	73	NOC:Probability Foundations for Electrical Engineers	Y	Y	Y	74
64	<a href="#">108105104</a>	61	NOC:Power System Engineering	Y	Y	Y	16
65	<a href="#">108104100</a>	75	NOC:Principles of Signals and Systems	Y	Y	Y	16
66	<a href="#">108105103</a>	60	NOC:Deep Learning for Visual Computing	Y	Y	Y	13
67	<a href="#">108105101</a>	68	NOC:Biomedical Signal Processing	Y	Y	Y	17
68	<a href="#">108105102</a>	64	NOC:Microprocessors and Microcontrollers	Y	Y	Y	15
69	<a href="#">108108109</a>	79	NOC:Mathematical Methods and Techniques in Signal Processing	Y	Y	Y	19
70	<a href="#">108108111</a>	59	NOC:Integrated Circuits, MOSFETs, Op-Amps and their Applications	Y	Y	Y	20
71	<a href="#">108101112</a>	60	NOC:Microwave Theory and Techniques	Y	Y	Y	49
72	<a href="#">108101113</a>	65	NOC:Principles of Digital Communications	Y	Y	Y	56
73	<a href="#">108102112</a>	40	NOC:Analog Electronic Circuit	Y	Y	Y	34



74	<a href="#">108102113</a>	10	NOC:Nonlinear and Adaptive Control	Y	Y	Y	8.1
75	<a href="#">108103112</a>	24	NOC:Advanced Topics in Probability and Random Processes	Y	Y	Y	4.0
76	<a href="#">108104112</a>	79	NOC:Applied Optimization for Wireless, Machine Learning, Big Data	Y	Y	Y	14
77	<a href="#">108104113</a>	61	NOC:Fiber-Optic Communication Systems and Techniques	Y	Y	Y	13
78	<a href="#">108105112</a>	64	NOC:Fundamentals of Electrical Engineering	Y	Y	Y	19
79	<a href="#">108105113</a>	65	NOC:Digital Circuits	Y	Y	Y	13
80	<a href="#">108105114</a>	40	NOC:Analysis and Design Principles of Microwave Antennas	Y	Y	Y	11
81	<a href="#">108105118</a>	67	NOC:Architectural Design of Digital Integrated Circuits	Y	Y	Y	4.9
82	<a href="#">108107112</a>	40	NOC:Electrical Distribution System Analysis	Y	Y	Y	7.2
83	<a href="#">108107113</a>	40	NOC:Introduction to Smart Grid	Y	Y	Y	10
84	<a href="#">108107114</a>	40	NOC:Facts Devices	Y	Y	Y	8.1
85	<a href="#">108107115</a>	40	NOC:Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	Y	Y	Y	6.7
86	<a href="#">108108112</a>	55	NOC:Semiconductor Devices and Circuits	Y	Y	Y	5.2
87	<a href="#">108108113</a>	55	NOC:Fabrication Techniques for MEMs-based Sensors: Clinical Perspective	Y	Y	Y	21
88	<a href="#">108108114</a>	48	NOC:Op-Amp Practical Applications:Design,Simulation and Implementation	Y	Y	Y	18
89	<a href="#">108108115</a>	39	NOC:Physical Modelling for Electronics Enclosures using Rapid Prototyping	Y	Y	Y	25
90	<a href="#">108108116</a>	13	NOC:Recent Advances in Transmission Insulators	Y	Y	Y	3.0
91	<a href="#">108102117</a>	39	NOC:Information Theory, Coding and Cryptography	Y	Y	Y	17
92	<a href="#">108101126</a>	98	NOC:Fundamental of Power Electronics	Y	Y	Y	24
93	<a href="#">108102120</a>	38	NOC:Principles of Digital Communications	Y	Y	Y	34
94	<a href="#">108102121</a>	17	NOC:Electric Vehicles - Part 1	Y	Y	Y	8.9
95	<a href="#">108104130</a>	41	NOC:Electromagnetic Waves in Guided and Wireless Media	Y	Y	Y	14
96	<a href="#">108105131</a>	90	NOC:Electrical Machines-II	Y	Y	Y	24
97	<a href="#">108105132</a>	60	NOC:Digital Electronic Circuits	Y	Y	Y	17
98	<a href="#">108105133</a>	60	NOC:Power System Dynamics, Control and Monitoring	Y	Y	Y	16
99	<a href="#">108105134</a>	40	NOC:Evolution of Air Interface towards 5G	Y	Y	Y	11
100	<a href="#">108106135</a>	48	NOC:Introduction to Photonics	Y	Y	Y	87
101	<a href="#">108106136</a>	69	NOC:Multirate DSP	Y	Y	Y	126
102	<a href="#">108106137</a>	37	NOC:LDPC and Polar Codes in 5G Standard	Y	Y	Y	64
103	<a href="#">108106138</a>	29	NOC:Electromagnetic Compatibility, EMC	Y	Y	Y	37
104	<a href="#">108107127</a>	60	NOC:Computer Aided Power System Analysis	Y	Y	Y	9.3
105	<a href="#">108107128</a>	40	NOC:Advance Power Electronics and Control	Y	Y	Y	6.9
106	<a href="#">108107129</a>	40	NOC:CMOS Digital VLSI Design	Y	Y	Y	9.9
107	<a href="#">108108122</a>	59	NOC:Fundamentals of Semiconductor Devices	Y	Y	Y	6.1
108	<a href="#">108108123</a>	44	NOC:Advanced IOT Applications	Y	Y	Y	16
109	<a href="#">108108124</a>	71	NOC:Electronic Systems for Cancer Diagnosis	Y	Y	Y	17
110	<a href="#">108108125</a>	53	NOC:Electronic Modules for Industrial Applications using Op-Amps	Y	Y	Y	13
111	<a href="#">108108148</a>	66	NOC:Neural Networks for Signal Processing – I	---	Y	Y	13

112	108102145	24	NOC:Power Electronics	Y	Y	Y	25
113	108102146	41	NOC:Electrical Machines	Y	Y	Y	29
114	108103141	37	NOC:Microwave Engineering	Y	Y	Y	22
115	108104139	60	NOC:Basic Electric Circuits	Y	Y	Y	26
116	108104140	40	NOC:Fundamentals of Electric Drives	---	Y	Y	14
117	108105153	84	NOC:Electrical Measurement and Electronic Instruments	Y	Y	Y	32
118	108105154	60	NOC:Principles and Techniques of Modern Radar Systems	Y	Y	Y	17
119	108105155	94	NOC:Electrical Machines - I	Y	Y	Y	27
120	108106149	103	NOC:Mapping Signal Processing Algorithms to Architectures	---	Y	Y	64
121	108106150	47	NOC:Linear System Theory	Y	Y	Y	29
122	108106151	82	NOC:Digital Signal Processing	Y	Y	Y	63
123	108106152	117	NOC:Computational Electromagnetics	Y	Y	Y	85
124	108107142	60	NOC:Microelectronics: Devices to Circuits	Y	Y	Y	12
125	108107143	40	NOC:DC Microgrid	Y	Y	Y	11
126	108108147	63	NOC:Sensors and Actuators	Y	Y	Y	35
127	108102119	41	Engineering Electromagnetics	---	Y	---	5.4
128	108106165	23	NOC:A Brief Introduction of Micro-Sensors	Y	Y	Y	22
129	108105158	99	NOC:Analog Electronic Circuits	Y	Y	Y	65
130	108106160	67	NOC:DC Power Transmission Systems	Y	Y	Y	42
131	108106158	80	NOC:Digital IC Design	Y	Y	Y	74
132	108108157	39	NOC:Electronics Equipment Integration and Prototype Building	Y	Y	Y	21
133	108104157	60	NOC:Fuzzy Sets, Logic and Systems and Applications	Y	Y	Y	18
134	108102157	43	NOC:High Power Multilevel Converters - Analysis, Design and Operational Issues	Y	Y	Y	53
135	108106164	43	NOC:Linear Dynamical Systems	Y	Y	Y	47
136	108103157	34	NOC:Microprocessors and Interfacing	Y	Y	Y	14
137	108105159	82	NOC:Network Analysis	Y	Y	Y	39
138	108106162	51	NOC:Nonlinear System Analysis	Y	Y	Y	19
139	108106161	44	NOC:Optical Engineering	Y	Y	Y	49
140	108106159	103	NOC:Power Management Integrated Circuits	Y	Y	Y	57
141	108107157	40	NOC:Power Quality Improvement Technique	Y	Y	Y	5.2
142	108106163	87	NOC:Signals and Systems	---	Y	---	54
143	108103158	39	NOC:Statistical Signal Processing	Y	Y	Y	16
144	108106157	33	NOC:Transmission Lines and Electromagnetic Waves	Y	Y	Y	35
145	108105157	39	NOC:VLSI Signal Processing	Y	Y	Y	15
146	108102156	34	Special Electromechanical Systems	---	Y	---	6.0
147	108108166	53	NOC:Design and Simulation of Power conversion using open source tools	---	Y	---	4.1
148	108101167	40	NOC:Electrical Equipment and Machines: Finite Element Analysis	Y	Y	Y	9.0

149	<a href="#">108106167</a>	120	NOC:Fiber Optic Communication Technology	---	Y	---	7.2
150	<a href="#">108106168</a>	83	NOC:Image Signal Processing	---	Y	---	7.2
151	<a href="#">108108168</a>	68	NOC:Information Theory	---	Y	---	4.2
152	<a href="#">108102169</a>	40	NOC:Introduction to Embedded System Design	Y	Y	---	5.9
153	<a href="#">108108167</a>	65	NOC:Introductory Neuroscience and Neuro-Instrumentation	Y	Y	Y	6.2
154	<a href="#">108104167</a>	34	NOC:Peer to Peer Networks	Y	Y	Y	5.4
155	<a href="#">108105167</a>	52	NOC:Power System Protection	Y	Y	Y	27
156	<a href="#">108107167</a>	40	NOC:Power System Protection and Switchgear	Y	Y	Y	4.6
157	<a href="#">108106170</a>	76	NOC:Fundamentals of Electric Vehicles: Technology and Economics	Y	Y	---	8.3
158	<a href="#">108106171</a>	48	NOC:Applied Linear Algebra	Y	Y	---	5.9
159	<a href="#">108106172</a>	143	NOC:Basic Electrical Circuits	---	Y	---	3.4
160	<a href="#">108106173</a>	42	NOC:Optical Fiber Sensors	---	Y	---	5.0
161	<a href="#">108101174</a>	94	NOC:Digital Signal Processing and its Applications	Y	Y	Y	3.6
162	<a href="#">108103174</a>	41	NOC:Computer Vision and Image Processing - Fundamentals and Applications	Y	Y	Y	4.4
163	<a href="#">108104174</a>	70	NOC:Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	---	Y	---	7.2
164	<a href="#">108106174</a>	78	NOC:Introduction to Time - Varying Electrical Networks	---	Y	---	9.3
165	<a href="#">108106177</a>	71	NOC:Digital System Design	Y	Y	Y	4.5
166	<a href="#">108108174</a>	51	NOC:Photonic Integrated Circuit	Y	Y	Y	6.1
167	<a href="#">108102179</a>	45	NOC:Power Quality	---	Y	---	7.0
168	<a href="#">108103179</a>	27	NOC:System Design through VERILOG	Y	Y	Y	2.2
169	<a href="#">108105179</a>	64	NOC:Signal Processing for mm Wave communication for 5G and beyond	---	Y	---	5.5
170	<a href="#">108105180</a>	60	NOC:Control and Tuning Methods in Switched Mode Power Converters	---	Y	Y	8.5
171	<a href="#">108105181</a>	69	NOC:Advanced Microwave Guided-Structures and Analysis	Y	Y	Y	4.5
172	<a href="#">108106179</a>	81	NOC:Stochastic Modeling and the Theory of Queues	---	Y	---	5.8
173	<a href="#">108106180</a>	40	NOC:Integrated Photonics Devices and Circuits	---	Y	---	9.6
174	<a href="#">108106181</a>	78	NOC:Introduction to Semiconductor Devices	Y	Y	Y	5.6
175	<a href="#">108108179</a>	52	NOC:Design for Internet of Things	Y	Y	Y	6.9
176	<a href="#">108108180</a>	42	NOC:Mathematical Aspects of Biomedical Electronic System Design	Y	Y	Y	4.1
177	<a href="#">108108181</a>	26	NOC:Concentration Inequalities	Y	Y	Y	2.7
178	<a href="#">108106182</a>	97	NOC:Electric Vehicles and Renewable Energy	---	Y	---	8.5
179	<a href="#">108103183</a>	44	NOC:Usability Engineering	Y	Y	Y	6.0
180	<a href="#">108101185</a>	65	NOC:Stochastic Control and Communication	---	Y	---	5.6
181	<a href="#">108102185</a>	42	NOC:Introduction to Electrical Engineering	---	Y	---	6.5
182	<a href="#">108103185</a>	85	NOC:Probability and Random Processes	---	Y	---	3.5
183	<a href="#">108105185</a>	60	NOC:Cognition and its Computation	---	Y	---	5.9
184	<a href="#">108105186</a>	120	NOC:Digital Control in Switched Mode Power Converters and FPGA-based Prototyping	---	Y	---	7.6

185	<a href="#">108105187</a>	41	NOC:VLSI Interconnects	---	Y	---	3.8
186	<a href="#">108106184</a>	65	Phase-locked loops	---	Y	---	6.9
187	<a href="#">108106186</a>	64	NOC:Fundamentals of Nano and Quantum Photonics	---	Y	---	5.2
188	<a href="#">108108185</a>	56	NOC:Real-Time Digital Signal Processing	---	Y	---	4.7

**Discipline : Humanities and Social Sciences**

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1	<a href="#">109101004</a>	42	Contemporary Issues in Philosophy of Mind and Cognition	Y	Y	Y	30
2	<a href="#">109101017</a>	41	Understanding Creativity and Creative Writing	Y	Y	Y	28
3	<a href="#">109103019</a>	40	Cultural Studies	Y	Y	Y	22
4	<a href="#">109103020</a>	38	English Language and Literature	Y	Y	Y	18
5	<a href="#">109103021</a>	40	Game Theory and Economics	Y	Y	Y	22
6	<a href="#">109104031</a>	40	Communication Skills	Y	Y	Y	12
7	<a href="#">109104035</a>	43	International Economics	Y	Y	Y	9.9
8	<a href="#">109104040</a>	44	Introduction to Logic	Y	Y	Y	18
9	<a href="#">109104045</a>	40	Population and Society	Y	Y	Y	8.6
10	<a href="#">109104073</a>	22	Macro Economics	Y	Y	Y	7.7
11	<a href="#">109104074</a>	41	Introduction to Sociology	Y	Y	Y	9.8
12	<a href="#">109104076</a>	40	Money and Banking	Y	Y	Y	7.6
13	<a href="#">109104081</a>	40	Human Adjustment Processes	Y	Y	Y	8.4
14	<a href="#">109104082</a>	35	Selected Topics in Psychology	Y	Y	Y	9.2
15	<a href="#">109104088</a>	48	NOC:Elements of Visual Representation	Y	Y	Y	5.8
16	<a href="#">109106052</a>	40	Aspects of Western Philosophy	Y	Y	Y	31
17	<a href="#">109106053</a>	40	Contemporary Literature	Y	Y	Y	11
18	<a href="#">109106058</a>	36	History of Economic Theory	Y	Y	Y	15
19	<a href="#">109106059</a>	42	Indian Philosophy	Y	Y	Y	14
20	<a href="#">109106067</a>	38	Better Spoken English	Y	Y	Y	15
21	<a href="#">109106079</a>	40	Introduction to Film Studies	Y	Y	Y	16
22	<a href="#">109106080</a>	41	Introduction to Modern Linguistics	Y	Y	Y	30
23	<a href="#">109106083</a>	41	Principles and Parameters in Natural Language	Y	Y	Y	32
24	<a href="#">109106084</a>	41	NOC:Literary Criticism and Literary Theory	Y	Y	Y	9.1
25	<a href="#">109106085</a>	40	NOC:Language and Mind	Y	Y	Y	5.9
26	<a href="#">109106086</a>	43	NOC:Film Appreciation	Y	Y	Y	11
27	<a href="#">109106087</a>	74	NOC:Appreciating Carnatic Music	Y	Y	Y	16
28	<a href="#">109106089</a>	38	NOC:Infrastructure Economics	Y	Y	Y	5.5
29	<a href="#">109104090</a>	40	NOC:Practical English: Learning and Teaching	Y	Y	Y	11
30	<a href="#">109106091</a>	20	NOC:Language and Society	Y	Y	Y	3.6
31	<a href="#">109104093</a>	24	NOC:Brief introduction to Psychology	Y	Y	Y	5.0
32	<a href="#">109106092</a>	20	NOC:Issues in Bioethics	Y	Y	Y	5.6

33	<a href="#">109106094</a>	38	NOC:Technical English for Engineers	Y	Y	Y	19
34	<a href="#">109106095</a>	22	NOC:Health Research Fundamentals	Y	Y	Y	7.3
35	<a href="#">109104032</a>	39	Ethics	Y	Y	Y	12
36	<a href="#">109105098</a>	20	NOC:Legal Compliance for Incorporating Startup	Y	Y	Y	4.9
37	<a href="#">109105097</a>	20	NOC:Technology Transfer through Joint Venture	Y	Y	Y	5.0
38	<a href="#">109104096</a>	20	NOC:Psychiatry:An overview	Y	Y	Y	1.4
39	<a href="#">109105111</a>	40	NOC:Symbolic Logic	Y	Y	Y	8.9
40	<a href="#">109105110</a>	40	NOC:Soft Skill Development	Y	Y	Y	9.4
41	<a href="#">109105113</a>	39	NOC:Globalization and Culture	Y	Y	Y	11
42	<a href="#">109104107</a>	48	NOC:Developing Soft Skills and Personality	Y	Y	Y	5.1
43	<a href="#">109104106</a>	44	NOC:Folk and Minor Art in India	Y	Y	Y	3.4
44	<a href="#">109104105</a>	43	NOC:Introduction to Psychology	Y	Y	Y	2.7
45	<a href="#">109104108</a>	20	NOC:How the Brain Creates Mind	Y	Y	Y	1.8
46	<a href="#">109104102</a>	20	NOC:Introduction to Indian Art - An appreciation	Y	Y	Y	1.6
47	<a href="#">109104109</a>	20	NOC:Understanding Design Thinking and People Centered Design	Y	Y	Y	1.5
48	<a href="#">109104104</a>	20	NOC:Probability and Stochastic for Finance II	Y	Y	Y	1.8
49	<a href="#">109104103</a>	25	NOC:Basic Concepts of Modal Logic	Y	Y	Y	2.1
50	<a href="#">109106099</a>	45	NOC:American Literature and Culture	Y	Y	Y	30
51	<a href="#">109103101</a>	24	NOC:Digital Human Modeling and Simulation for Virtual Ergonomics Evaluation	Y	Y	Y	34
52	<a href="#">109106114</a>	32	NOC:Applied Linguistics	Y	Y	Y	24
53	<a href="#">109106100</a>	20	NOC:Economics of IPR	Y	Y	Y	8.0
54	<a href="#">109105112</a>	40	NOC:Introduction on Intellectual Property to Engineers and Technologists	Y	Y	Y	11
55	<a href="#">109107115</a>	15	NOC:Time value of money-Concepts and Calculations	Y	Y	Y	3.5
56	<a href="#">109107119</a>	20	NOC:Depreciation, Alternate Investment and Profitability Analysis	Y	Y	Y	5.4
57	<a href="#">109104116</a>	20	NOC:Postcolonial Literature	Y	Y	Y	1.5
58	<a href="#">109105116</a>	40	NOC:Emotional Intelligence	Y	Y	Y	11
59	<a href="#">109104117</a>	20	NOC:Introducing Modern Western Art: Movements and Artists	Y	Y	Y	1.7
60	<a href="#">109104115</a>	40	NOC:Enhancing Soft Skills and Personality	Y	Y	Y	3.5
61	<a href="#">109105118</a>	20	NOC:Great Experiments in Psychology	Y	Y	Y	5.5
62	<a href="#">109106117</a>	20	NOC:Ethics	Y	Y	Y	12
63	<a href="#">109105115</a>	46	NOC:Qualitative Research Methods	Y	Y	Y	9.5
64	<a href="#">109106120</a>	17	NOC:The Renaissance and Shakespeare	Y	Y	Y	1.7
65	<a href="#">109106116</a>	60	NOC:English Language for Competitive Exams	Y	Y	Y	27
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67	<a href="#">109107121</a>	60	NOC:Soft Skills	Y	Y	Y	19
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69	<a href="#">109104121</a>	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
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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
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83	109105127	40	NOC:Strategic Performance Management	Y	Y	Y	12
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87	109103133	30	NOC:Sociological Perspectives on Modernity	Y	Y	Y	13
88	109103134	30	NOC:Introduction to Cognitive Psychology	Y	Y	Y	9.4
89	109103135	30	NOC:Introduction to Modern Indian Political Thought	Y	Y	Y	23
90	109103136	20	NOC:Consumer Psychology	Y	Y	Y	19
91	109104135	35	NOC:Introduction to Literary Theory	Y	Y	Y	10
92	109104136	20	NOC:Development of Sociology in India	Y	Y	Y	5.0
93	109105135	20	NOC:Introduction to Basic Spoken Sanskrit	---	Y	---	6.7
94	109105136	20	NOC:Water, Society and Sustainability	Y	Y	Y	6.5
95	109106135	47	NOC:Indian Fiction in English	Y	Y	Y	60
96	109106136	58	NOC:Introduction to Cultural Studies	Y	Y	Y	45
97	109106137	78	NOC:Intellectual Property	Y	Y	Y	15
98	109106138	54	NOC:Short Fiction in Indian Literature	Y	Y	Y	54
99	109103140	27	NOC:Introduction to Modern Indian Drama	Y	Y	Y	10
100	109103141	30	NOC:Introduction to Political Theory	Y	Y	Y	26
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102	109104143	38	NOC:Introduction to the Psychology of Language	Y	Y	Y	19
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104	109106145	57	NOC:The Nineteenth-Century English Novel	Y	Y	Y	94
105	109106146	51	NOC:Feminist Writings	Y	Y	Y	80
106	109106147	50	NOC:Introduction to World Literature	Y	Y	Y	77
107	109106148	44	NOC:Managing Intellectual Property in Universities	Y	Y	Y	3.7

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109	109107139	60	NOC:Literature, Culture and Media	Y	Y	Y	12
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111	109102156	38	NOC:Text, Sexuality and Digital Media	Y	Y	Y	30
112	109102157	23	NOC:Positive Psychology	Y	Y	Y	12
113	109103152	20	NOC:The Psychology of Language	Y	Y	Y	8.9
114	109103153	25	NOC:Development Research Methods	Y	Y	Y	10
115	109104150	20	NOC:Population Studies	Y	Y	Y	9.1
116	109104151	15	NOC:Psychology of Everyday	Y	Y	Y	14
117	109105169	45	NOC:Intermediate Level of Spoken Sanskrit	Y	Y	---	12
118	109106159	65	NOC:Appreciating Linguistics: A Typological Approach	Y	Y	Y	121
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125	109107154	20	NOC:Body language: Key to professional Success	Y	Y	Y	4.0
126	109107155	40	NOC:Interpersonal Skills	Y	Y	Y	8.9
127	109108158	23	NOC:Artistic Exploration in Scientific Research and Technology	Y	Y	Y	4.7
128	109107172	20	NOC:Effective Writing	Y	Y	Y	6.5
129	109101171	56	NOC:Energy Resources, Economics and Environment	Y	Y	Y	43
130	109106175	34	NOC:Feminism: Concepts and Theories	Y	Y	Y	38
131	109103171	22	NOC:Indian Business History	Y	Y	Y	11
132	109104171	40	NOC:Introduction to Brain and Behaviour	Y	Y	Y	15
133	109107171	60	NOC:Introduction to Environmental Economics	Y	Y	Y	9.7
134	109106174	46	NOC:Introduction to Political Ideologies: Contexts, Ideas and Practices	Y	Y	Y	38
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136	109106173	44	NOC:Modern Indian Writing in Translation	Y	Y	Y	27
137	109107173	60	NOC:Strategic Trade and Protectionism - Theories and Empirics	Y	Y	Y	9.8
138	109106172	61	NOC:Twentieth Century Fiction	Y	Y	Y	62
139	109106180	60	NOC:Classical Sociological Theory	Y	Y	Y	7.1
140	109105176	40	NOC:Entrepreneurship and IP strategy	Y	Y	Y	29
141	109103176	30	NOC:Introduction to Western Political Thought	Y	Y	Y	15
142	109104176	20	NOC:Modern Indian Art From the Colonial Period to the Present	Y	Y	Y	1.8
143	109106176	76	NOC:Poetry	Y	Y	Y	16
144	109106177	62	NOC:The Popular Gothic Novel	Y	Y	Y	4.9
145	109104181	45	NOC:Introduction to Japanese Language and Culture	---	Y	---	7.5

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170	109105192	65	NOC:Training and Development	Y	Y	Y	8.3
171	109106189	50	NOC:Literature and Life	---	Y	---	9.8
172	109106190	69	NOC:German - III	---	Y	---	8.2
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174	109107189	40	NOC:Indian Poetry in English	---	Y	Y	9.4
175	109107190	40	NOC:Exploring Survey Data on Health Care	---	Y	Y	5.1
176	109107191	60	NOC:Contextualizing Gender	Y	Y	Y	11
177	109104194	55	NOC:Japani Bhasha - Saral Swaroop	---	Y	---	4.2
178	109101195	60	NOC:Sandhi in Paninian Grammar	---	Y	---	6.7
179	109104195	42	NOC:Introduction to Japanese Language and Culture-II	---	Y	---	4.5
180	109104196	60	NOC:Indian Art: Materials, Techniques and Artistic Practices	---	Y	---	6.4
181	109104197	20	NOC:प्रमुख हिंदी कहानियां और भारतीय समाज	---	Y	---	3.8
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91	<a href="#">110105140</a>	40	NOC:Patent Search for Engineers and Lawyers	Y	Y	Y	11
92	<a href="#">110106134</a>	34	NOC:Decision-Making Under Uncertainty	Y	Y	Y	32
93	<a href="#">110106135</a>	34	NOC:Decision making using financial accounting	Y	Y	Y	52
94	<a href="#">110107126</a>	48	NOC:Training Of Trainers	Y	Y	Y	27
95	<a href="#">110107127</a>	60	NOC:Management Accounting	Y	Y	Y	10
96	<a href="#">110107128</a>	60	NOC:Financial Derivatives and Risk Management	Y	Y	Y	17
97	<a href="#">110107129</a>	40	NOC:Business Analytics and Text Mining Modeling Using Python	Y	Y	Y	5.8
98	<a href="#">110107130</a>	40	NOC:Toyota Production System	Y	Y	Y	13
99	<a href="#">110105144</a>	41	NOC:Behavioral and Personal Finance	Y	Y	Y	19
100	<a href="#">110106141</a>	61	NOC:Entrepreneurship	Y	Y	Y	36
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102	<a href="#">110108141</a>	36	NOC:Integrated Marketing Management	Y	Y	Y	11
103	<a href="#">110101141</a>	49	NOC:Introduction to Stochastic Processes	Y	Y	Y	57
104	<a href="#">110101142</a>	63	NOC:Introduction to System Dynamics Modeling	Y	Y	Y	38
105	<a href="#">110105143</a>	60	NOC:Management of Commercial Banking	Y	Y	Y	30
106	<a href="#">110105142</a>	66	NOC:Marketing Analytics	Y	Y	Y	18
107	<a href="#">110105141</a>	62	NOC:Modelling and Analytics for Supply Chain Management	Y	Y	Y	17
108	<a href="#">110107141</a>	60	NOC:Production and Operation Management (Prof. Rajat Agarwal)	Y	Y	Y	14

109	<a href="#">110107143</a>	60	NOC:Production and Operation Management (Prof. Santosh Rangnekar)	Y	Y	Y	13
110	<a href="#">110107142</a>	40	NOC:Services Marketing: Integrating People, Technology, Strategy	Y	Y	Y	4.1
111	<a href="#">110105145</a>	42	NOC:Customer Relationship Management	Y	Y	Y	17
112	<a href="#">110105147</a>	60	NOC:Decision Support System for Managers	Y	Y	---	19
113	<a href="#">110106147</a>	120	NOC:Financial Accounting (IIT Mandi)	Y	Y	Y	7.3
114	<a href="#">110107145</a>	60	NOC:International Business	Y	Y	Y	8.1
115	<a href="#">110107147</a>	40	NOC:Introduction to Marketing Essentials	Y	Y	Y	4.4
116	<a href="#">110105148</a>	60	NOC:Management Information System	Y	Y	Y	30
117	<a href="#">110106145</a>	56	NOC:Organizational Behaviour	Y	Y	Y	5.4
118	<a href="#">110101146</a>	36	NOC:Organization Development and Change in 21st Century	Y	Y	Y	6.3
119	<a href="#">110107146</a>	60	NOC:Path Integral Methods in Physics and Finance	---	Y	---	8.0
120	<a href="#">110105146</a>	59	NOC:Principles of Management (2020)	Y	Y	Y	30
121	<a href="#">110106146</a>	32	NOC:The Future of Manufacturing Business: Role of Additive Manufacturing	Y	Y	Y	4.3
122	<a href="#">110101149</a>	80	NOC:Managerial Economics	Y	Y	Y	11
123	<a href="#">110101150</a>	40	NOC:Quality Control and Improvement with MINITAB	Y	Y	Y	3.9
124	<a href="#">110106150</a>	36	NOC:Technology Forecasting for Strategic Decision Making - An Introduction	Y	Y	Y	2.1
125	<a href="#">110106151</a>	62	NOC:Leadership for India Inc: Practical Concepts and Constructs	Y	Y	Y	13
126	<a href="#">110107150</a>	62	NOC:Principles of Management (2021)	Y	Y	Y	7.6
127	<a href="#">110107151</a>	40	NOC:Organization Theory-Structure and Design	Y	Y	Y	4.7
128	<a href="#">110107152</a>	60	NOC:Talent Acquisition and Management	Y	Y	Y	12
129	<a href="#">110101153</a>	32	NOC:Business and Sustainable Development	Y	Y	Y	3.1
130	<a href="#">110105153</a>	107	NOC:Applied Econometrics	---	Y	---	5.4
131	<a href="#">110105154</a>	60	NOC:Organizational Behaviour - II	---	Y	---	8.9
132	<a href="#">110105155</a>	60	NOC:Automation in Production Systems and Management	Y	Y	Y	7.2
133	<a href="#">110105156</a>	40	NOC:Corporate Finance	---	Y	---	3.8
134	<a href="#">110107153</a>	40	NOC:Econometric Modelling	Y	Y	Y	4.5
135	<a href="#">110107154</a>	60	NOC:Security Analysis and Portfolio Management	---	Y	---	15
136	<a href="#">110105157</a>	39	NOC:International Marketing	Y	Y	Y	3.7
137	<a href="#">110105158</a>	47	NOC:Retail Management	Y	Y	Y	4.6
138	<a href="#">110105159</a>	40	NOC:Business Law for Managers	Y	Y	Y	4.0
139	<a href="#">110105160</a>	60	NOC:Safety and Risk Analytics	---	Y	---	9.8
140	<a href="#">110106157</a>	61	NOC:Strategy and Technology: A Practical Primer	---	Y	---	12
141	<a href="#">110107157</a>	60	NOC:Decision Making with Spreadsheet	---	Y	---	6.3
142	<a href="#">110107158</a>	60	NOC:Integrated Marketing Communication	---	Y	Y	17
143	<a href="#">110107159</a>	60	NOC:Leadership and Team Effectiveness	Y	Y	Y	7.0
144	<a href="#">110105161</a>	60	NOC:Strategic Management for Competitive Advantage	---	Y	---	4.5
145	<a href="#">110105162</a>	60	NOC:Human Factors Engineering	---	Y	---	8.3

146	<a href="#">110107161</a>	60	NOC:Product and Brand Management	---	Y	---	14
147	<a href="#">110107162</a>	60	NOC:Quantitative Investment Management	---	Y	---	8.4
148	<a href="#">110107163</a>	41	NOC:Strategic Sales Management	---	Y	---	6.2
149	<a href="#">110108161</a>	38	NOC:Strategic Management - The Competitive Edge	---	Y	---	4.5
<b>Discipline : Mathematics</b>							
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<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/mathematics.pdf">http://www.digimat.in/downloads/topics/mathematics.pdf</a></b>							
1	<a href="#">111101003</a>	40	Elementary Numerical Analysis	Y	Y	Y	28
2	<a href="#">111101005</a>	40	Measure and Integration	Y	Y	Y	34
3	<a href="#">111101080</a>	40	Mathematics in India - From Vedic Period to Modern Times	Y	Y	Y	18
4	<a href="#">111102014</a>	39	Stochastic Processes	Y	Y	Y	23
5	<a href="#">111103016</a>	41	Formal Languages and Automata Theory	Y	Y	Y	17
6	<a href="#">111103070</a>	40	Complex Analysis	Y	Y	Y	23
7	<a href="#">111104024</a>	44	Applied Multivariate Analysis	Y	Y	Y	20
8	<a href="#">111104025</a>	40	Calculus of Variations and Integral Equations	Y	Y	Y	12
9	<a href="#">111104027</a>	40	Linear programming and Extensions	Y	Y	Y	17
10	<a href="#">111104068</a>	42	Convex Optimization	Y	Y	Y	8.6
11	<a href="#">111104071</a>	38	Foundations of Optimization	Y	Y	Y	7.2
12	<a href="#">111104079</a>	40	Probability Theory and Applications	Y	Y	Y	8.6
13	<a href="#">111105035</a>	42	Advanced Engineering Mathematics	Y	Y	Y	12
14	<a href="#">111105037</a>	40	Functional Analysis	Y	Y	Y	19
15	<a href="#">111105038</a>	40	Numerical methods of Ordinary & Partial Differential Equations	Y	Y	Y	12
16	<a href="#">111105039</a>	40	Optimization	Y	Y	Y	12
17	<a href="#">111105041</a>	40	Probability and Statistics	Y	Y	Y	8.7
18	<a href="#">111105042</a>	40	Regression Analysis	Y	Y	Y	15
19	<a href="#">111105043</a>	40	Statistical Inference	Y	Y	---	12
20	<a href="#">111105069</a>	46	A Basic Course in Real Analysis	Y	Y	Y	15
21	<a href="#">111106044</a>	48	An Introduction to Riemann Surfaces and Algebraic Curves: Complex 1-Tori and Elliptic Curves	Y	Y	Y	23
22	<a href="#">111106051</a>	52	Linear Algebra	Y	Y	Y	21
23	<a href="#">111106052</a>	42	Mathematical Logic	Y	Y	Y	17
24	<a href="#">111106053</a>	52	Real Analysis	Y	Y	Y	22
25	<a href="#">111106083</a>	36	NOC:An invitation to mathematics	Y	Y	Y	6.7
26	<a href="#">111107058</a>	41	Discrete Mathematics	Y	Y	Y	4.5
27	<a href="#">111108066</a>	40	Advanced Matrix Theory and Linear Algebra for Engineers	Y	Y	Y	19
28	<a href="#">111108081</a>	40	Ordinary Differential Equations and Applications	Y	Y	Y	25
29	<a href="#">111104085</a>	30	NOC:Basic Calculus for Engineers, Scientists and Economists	Y	Y	Y	4.2
30	<a href="#">111105077</a>	40	Statistical Methods for Scientists and Engineers	Y	Y	Y	12
31	<a href="#">111106084</a>	43	Advanced Complex Analysis - Part 1: Zeros of Analytic Functions, Analytic continuation, Monodromy, Hyperbolic Geometry	Y	Y	Y	18

32	<a href="#">111106086</a>	51	NOC:Discrete Mathematics	Y	Y	Y	3.0
33	<a href="#">111105091</a>	61	NOC:Applied Multivariate Statistical Modeling	Y	Y	Y	4.6
34	<a href="#">111105090</a>	79	NOC:Probability and Statistics	Y	Y	Y	20
35	<a href="#">111104089</a>	20	NOC:Probability and Stochastics for finance	Y	Y	Y	2.8
36	<a href="#">111106082</a>	40	Dynamic Data Assimilation: An Introduction	Y	Y	Y	19
37	<a href="#">111106094</a>	43	Advanced Complex Analysis - Part 2: Singularity at Infinity, Infinity as a Value, Compact Spaces of Meromorphic Functions for the Spherical Metric and Spherical Derivative	Y	Y	Y	29
38	<a href="#">111105093</a>	20	NOC:Partial Differential Equations (PDE) for Engineers: Solution by Separation of Variables	Y	Y	Y	5.1
39	<a href="#">111104092</a>	21	NOC:Differential Calculus in Several Variables	Y	Y	Y	1.5
40	<a href="#">111102096</a>	77	NOC:Stochastic Processes - 1	Y	Y	Y	1.9
41	<a href="#">111104095</a>	22	NOC:Curves and Surfaces	Y	Y	Y	1.1
42	<a href="#">111106097</a>	42	Basic Algebraic Geometry : Varieties, Morphisms, Local Rings, Function Fields and Nonsingularity	Y	Y	Y	19
43	<a href="#">111106098</a>	38	NOC:Introduction to Commutative Algebra	Y	Y	Y	30
44	<a href="#">111108098</a>	60	NOC:Linear Algebra	Y	Y	Y	13
45	<a href="#">111104098</a>	24	NOC:Linear Regression Analysis and Forecasting	Y	Y	Y	1.3
46	<a href="#">111102098</a>	124	NOC:Stochastic Processes	Y	Y	Y	13
47	<a href="#">111107098</a>	60	NOC:Mathematical Methods and its Applications	Y	Y	Y	16
48	<a href="#">111105098</a>	73	NOC:Introductory Course in Real Analysis	Y	Y	---	20
49	<a href="#">111105099</a>	40	NOC:Modeling Transport Phenomena of Microparticles	Y	Y	Y	11
50	<a href="#">111106100</a>	64	NOC:Differential Equations	Y	Y	Y	24
51	<a href="#">111107103</a>	60	NOC:Integral Equations, Calculus of Variations and its Applications	Y	Y	Y	17
52	<a href="#">111107104</a>	20	NOC:Nonlinear Programming	Y	Y	Y	5.5
53	<a href="#">111107105</a>	40	NOC:Numerical Methods	Y	Y	Y	9.8
54	<a href="#">111101100</a>	62	NOC:Measure Theory	Y	Y	Y	27
55	<a href="#">111106101</a>	54	NOC:Numerical Analysis	Y	Y	Y	29
56	<a href="#">111104100</a>	43	NOC:Introduction to R Software	Y	Y	Y	2.9
57	<a href="#">111105100</a>	60	NOC:Constrained and Unconstrained Optimization	Y	Y	Y	15
58	<a href="#">111106102</a>	39	NOC:Graph Theory	Y	Y	Y	9.3
59	<a href="#">111107107</a>	20	NOC:Numerical Methods: Finite Difference Approach	Y	Y	Y	3.2
60	<a href="#">111101109</a>	41	NOC:Calculus for Economics,Commerce and Management	Y	Y	Y	33
61	<a href="#">111107108</a>	40	NOC:Multivariable Calculus	Y	Y	Y	11
62	<a href="#">111107106</a>	60	NOC:Numerical Linear Algebra	Y	Y	Y	15
63	<a href="#">111102110</a>	35	NOC:Chaotic Dynamical Systems	Y	Y	Y	27
64	<a href="#">111102111</a>	92	NOC:Introduction to Probability Theory and Stochastic Processes	Y	Y	Y	30
65	<a href="#">111102112</a>	21	NOC:Statistical Inference	Y	Y	Y	19
66	<a href="#">111105111</a>	60	NOC:Matrix Solver	Y	Y	Y	16
67	<a href="#">111105112</a>	40	NOC:Introduction to Abstract and Linear Algebra	Y	Y	Y	8.7

68	<a href="#">111106111</a>	48	NOC:Transform Techniques for Engineers	Y	Y	Y.	72
69	<a href="#">111106112</a>	21	NOC:Introduction to Probability and Statistics	Y	Y	Y	9.0
70	<a href="#">111106113</a>	45	NOC:Introduction to Abstract Group Theory	Y	Y	Y	40
71	<a href="#">111106114</a>	17	NOC:Groups: Motion, Symmetry and Puzzles	Y	Y	Y	24
72	<a href="#">111107111</a>	60	NOC:Ordinary and Partial Differential Equations and Applications	Y	Y	Y	11
73	<a href="#">111107112</a>	40	NOC:Matrix Analysis with Applications	Y	Y	Y	5.4
74	<a href="#">111107113</a>	20	NOC:Mathematical Modelling: Analysis and Applications	Y	Y	Y	4.2
75	<a href="#">111101115</a>	41	NOC:Basic Linear Algebra	Y	Y	Y	16
76	<a href="#">111101116</a>	60	NOC:Commutative Algebra	Y	Y	Y	34
77	<a href="#">111101117</a>	62	NOC:Galois Theory	Y	Y	Y	61
78	<a href="#">111104120</a>	34	NOC:Descriptive Statistics with R Software	Y	Y	Y	12
79	<a href="#">111105121</a>	60	NOC:Engineering Mathematics-I	Y	Y	Y	17
80	<a href="#">111105122</a>	60	NOC:Integral and Vector Calculus	Y	Y	Y	16
81	<a href="#">111105123</a>	60	NOC:Transform Calculus and its applications in Differential Equations	Y	Y	Y	16
82	<a href="#">111107118</a>	60	NOC:Dynamical System and Control	Y	Y	Y	8.2
83	<a href="#">111107119</a>	60	NOC:Advanced Engineering Mathematics	Y	Y	Y	8.8
84	<a href="#">111105124</a>	64	NOC:Statistical Inference (2019)	Y	Y	Y	17
85	<a href="#">111102129</a>	72	NOC:Integral Transforms and their Applications	Y	Y	Y	88
86	<a href="#">111102130</a>	30	NOC:Introduction to Fuzzy Set Theory, Arithmetic and Logic	Y	Y	Y	29
87	<a href="#">111102133</a>	32	Introduction to Methods of Applied Mathematics	Y	Y	Y	24
88	<a href="#">111103126</a>	36	NOC:Mathematical Finance	Y	Y	Y	20
89	<a href="#">111104125</a>	37	NOC:Calculus of Several Real Variables	Y	Y	Y	14
90	<a href="#">111105132</a>	20	NOC:Mathematical Methods for Boundary Value Problems	Y	Y	Y	6.6
91	<a href="#">111106131</a>	44	NOC:Introduction To Rings And Fields	Y	Y	Y	58
92	<a href="#">111107127</a>	56	NOC:Higher Engineering Mathematics	Y	Y	Y	5.8
93	<a href="#">111107128</a>	40	NOC:Operations Research	Y	Y	Y	4.3
94	<a href="#">111102134</a>	30	NOC:Advanced Probability Theory	Y	Y	Y	41
95	<a href="#">111108134</a>	68	NOC:An Introduction to Smooth Manifolds	Y	Y	Y	5.7
96	<a href="#">111101134</a>	69	NOC:Basic Real Analysis	Y	Y	Y	48
97	<a href="#">111105134</a>	60	NOC:Engineering Mathematics - II	Y	Y	Y	28
98	<a href="#">111108136</a>	60	NOC:Introduction to Algebraic Geometry and Commutative Algebra	Y	Y	Y	9.9
99	<a href="#">111106135</a>	48	NOC:Linear Algebra (Prof. Pranav Haridas)	Y	Y	Y	45
100	<a href="#">111108135</a>	62	NOC:Measure Theory (Prof. E. K. Narayanan)	Y	Y	Y	12
101	<a href="#">111106134</a>	67	NOC:Probabilistic Methods in PDE	Y	Y	Y	36
102	<a href="#">111101137</a>	63	NOC:A Basic Course in Number Theory	Y	Y	---	19
103	<a href="#">111106137</a>	83	NOC:Algebra - I	---	Y	---	4.1
104	<a href="#">111106141</a>	48	NOC:Complex Analysis	Y	Y	---	5.9
105	<a href="#">111106138</a>	60	NOC:Computational Commutative Algebra	Y	Y	---	4.9

106	<a href="#">111104138</a>	27	NOC:Computational Number Theory and Algebra	---	Y	---	14
107	<a href="#">111107137</a>	60	NOC:Essential Mathematics for Machine Learning	---	Y	---	4.6
108	<a href="#">111106139</a>	27	NOC:Laplace Transform	---	Y	Y	2.5
109	<a href="#">111104137</a>	66	NOC:Linear Algebra (Prof. A.K. Lal)	Y	Y	---	16
110	<a href="#">111103137</a>	36	NOC:Mathematical Portfolio Theory	Y	Y	Y	5.8
111	<a href="#">111106140</a>	75	NOC:Measure Theory (Prof. Indrava Roy)	---	Y	---	4.9
112	<a href="#">111102143</a>	10	NOC:Non-parametric Statistical Inference	Y	Y	Y	2.5
113	<a href="#">111106142</a>	121	NOC:Real Analysis - I	Y	Y	Y	4.5
114	<a href="#">111102137</a>	65	NOC:Scientific Computing using Matlab	Y	Y	Y	31
115	<a href="#">111101144</a>	62	NOC:Introduction to Algebraic Topology - Part I	---	Y	Y	7.0
116	<a href="#">111104144</a>	40	NOC:Basic Calculus 1 and 2	---	Y	---	3.2
117	<a href="#">111104145</a>	33	NOC:Advanced Partial Differential Equations	Y	Y	Y	2.6
118	<a href="#">111104146</a>	69	NOC:Essentials of Data Science With R Software 1: Probability and Statistical Inference	Y	Y	Y	6.9
119	<a href="#">111104147</a>	53	NOC:Essentials of Data Science With R Software 2: Sampling Theory and Linear Regression Analysis	Y	Y	Y	6.0
120	<a href="#">111106144</a>	66	NOC:Variational Calculus and its applications in Control Theory and Nanomechanics	Y	Y	Y	---
121	<a href="#">111106145</a>	49	NOC:Introduction to Galois Theory	---	Y	---	5.7
122	<a href="#">111106146</a>	72	NOC:Basic Calculus 1	Y	Y	Y	3.9
123	<a href="#">111106147</a>	74	NOC:Functional Analysis	Y	Y	Y	4.6
124	<a href="#">111106148</a>	90	NOC:Mathematical Methods in Physics 1	Y	Y	Y	4.0
125	<a href="#">111106149</a>	70	NOC:Computational Mathematics with SageMath	Y	Y	Y	4.9
126	<a href="#">111106150</a>	46	NOC:Introduction to Probability (with examples using R)	---	Y	---	3.8
127	<a href="#">111106151</a>	84	NOC:Algebra-II	---	Y	---	4.3
128	<a href="#">111108144</a>	41	NOC:First Course on Partial Differential Equations - I	---	Y	---	3.5
129	<a href="#">111101152</a>	62	NOC:Introduction to Algebraic Topology - Part II	---	Y	---	6.5
130	<a href="#">111101153</a>	60	NOC:Partial Differential Equations	---	Y	---	5.2
131	<a href="#">111102152</a>	58	NOC:Matrix Computation and its Applications	Y	Y	Y	5.4
132	<a href="#">111104152</a>	40	NOC:Measure Theoretic Probability 1	---	Y	---	2.4
133	<a href="#">111106152</a>	80	NOC:Mathematical Methods in Physics 2	---	Y	Y	4.6
134	<a href="#">111106153</a>	74	NOC:Real Analysis - II	---	Y	---	2.8
135	<a href="#">111106154</a>	85	NOC:Sobolev Spaces and Partial Differential Equations	Y	Y	Y	6.1
136	<a href="#">111106155</a>	58	NOC:Combinatorics	---	Y	---	4.2
137	<a href="#">111106156</a>	16	NOC:Our Mathematical Senses	Y	Y	Y	2.2
138	<a href="#">111108152</a>	41	NOC:First Course on Partial Differential Equations - II	---	Y	---	3.5
139	<a href="#">111108157</a>	80	Matrix Theory	---	Y	---	6.5
140	<a href="#">111101158</a>	61	NOC:An Introduction to Point-Set-Topology - Part I	Y	Y	Y	6.0
141	<a href="#">111103158</a>	34	NOC:Discrete-time Markov Chains and Poission Processes	Y	Y	---	3.7



142	<a href="#">111103159</a>	48	NOC:Introduction to Queueing Theory	Y	Y	Y	6.8
143	<a href="#">111106158</a>	84	NOC:Algebraic Combinatorics	---	Y	---	3.7
144	<a href="#">111106159</a>	73	NOC:An Invitation to Topology	---	Y	---	3.7
145	<a href="#">111101160</a>	62	NOC:An Introduction to Point-Set-Topology - Part II	---	Y	---	6.5
146	<a href="#">111102160</a>	58	NOC:Introduction to Probability Theory and Statistics	---	Y	---	5.1
147	<a href="#">111104160</a>	54	NOC:Foundations of R Software	---	Y	---	5.4
148	<a href="#">111104161</a>	54	NOC:Foundations of R Software (In Hindi)	---	Y	---	9.1
149	<a href="#">111105160</a>	60	NOC:Advanced Calculus For Engineers	---	Y	---	4.7
150	<a href="#">111105161</a>	60	NOC:Rings and Modules	---	Y	---	4.1
151	<a href="#">111106160</a>	51	NOC:Operator Theory	---	Y	---	4.5
152	<a href="#">111106161</a>	79	NOC:Measure and Integration	---	Y	---	4.4
153	<a href="#">111106162</a>	58	NOC:Approximate Reasoning using Fuzzy Set Theory	---	Y	---	5.4
154	<a href="#">111106163</a>	45	NOC:Probability-II with Examples Using R	---	Y	---	3.1

**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	112108092	40	Micro and Smart Systems	Y	Y	Y	11
63	112105187	48	Micro fluidics	Y	Y	Y	23
64	112106186	44	NOC:Foundation of Computational Fluid Dynamics	Y	Y	Y	2.4
65	112104188	48	NOC:Manufacturing Systems Technology	Y	Y	Y	7.5
66	112104189	30	NOC:Manufacturing Systems Technology - Part II	Y	Y	Y	5.2
67	112105047	43	Fundamentals of Industrial Oil Hydraulics and Pneumatics	Y	Y	Y	13
68	112105192	41	NOC:Conduction and Convection Heat Transfer	Y	Y	Y	19
69	112105197	35	NOC:Vibrations of Structures	Y	Y	Y	9.8
70	112106190	40	NOC:Introduction to Boundary Layers	Y	Y	Y	16
71	112104193	48	NOC:Basics of Finite Element Analysis	Y	Y	Y	1.7
72	112106196	48	NOC:Fundamentals of Gas Dynamics	Y	Y	Y	21
73	112104194	48	NOC:Basics of Noise and Its Measurements	Y	Y	Y	2.3
74	112104195	48	NOC:Manufacturing Process Technology - Part I	Y	Y	Y	2.3
75	112106198	32	NOC:Experimental Stress Analysis:An Overview	Y	Y	Y	4.0
76	112108201	44	NOC:Variational Methods in Mechanics	Y	Y	Y	13
77	112105206	39	NOC:Fluid Machines	Y	Y	Y	9.5
78	112104203	40	NOC:Nature and Property of Materials	Y	Y	Y	2.9
79	112104204	48	NOC:Manufacturing Process Technology - II	Y	Y	Y	3.3
80	112104205	48	NOC:Basics of Finite Element Analysis - II	Y	Y	Y	1.8
81	112107209	40	NOC:Engineering Economic Analysis	Y	Y	Y	11
82	112107208	40	NOC:Refrigeration and Air-Conditioning	Y	Y	Y	9.6
83	112107207	20	NOC:Two Phase Flow and Heat Transfer	Y	Y	Y	3.9
84	112106200	34	NOC:Fluid Dynamics and Turbomachines	Y	Y	Y	15
85	112103202	19	NOC:Advanced Machining Processes	Y	Y	Y	6.9
86	112105211	20	NOC:Computer Numerical Control (CNC) of Machine Tools and Processes	Y	Y	Y	4.5
87	112106179	44	Metrology	Y	Y	Y	29
88	112107083	40	Metal Casting	Y	Y	Y	28
89	112108212	40	NOC:Heat Transfer and Combustion in Multiphase Systems	Y	Y	Y	7.9
90	112108211	72	NOC:Compliant Mechanisms: Principles and Design	Y	Y	Y	16
91	112107212	40	NOC:Introduction to Mechanical Vibration	Y	Y	Y	11
92	112107216	40	NOC:Steam and Gas Power Systems	Y	Y	Y	9.3
93	112107215	40	NOC:Principles of Casting Technology	Y	Y	Y	11
94	112107214	40	NOC:Modelling and Simulation of Dynamic Systems	Y	Y	Y	9.4
95	112107213	40	NOC:Joining Technologies of Commercial Importance	Y	Y	Y	11
96	112105212	20	NOC:Non Traditional Abrasive Machining Processes - Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining	Y	Y	Y	5.4
97	112107217	20	NOC:Product Design and Development	Y	Y	Y	5.7
98	112107211	20	NOC:Convective Heat Transfer	Y	Y	Y	5.7
99	112105218	60	NOC:Introduction to Fluid Mechanics	Y	Y	Y*	17

100	<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>	50	NOC:Product Design and Manufacturing	Y	Y	Y	24
121	<a href="#">112106237</a>	33	NOC:Transport Phenomena in Materials	Y	Y	Y	11
122	<a href="#">112105234</a>	45	NOC:Gear and Gear Unit Design: Theory and Practice	Y	Y	Y	11
123	<a href="#">112105235</a>	45	NOC:Traditional and Non-Traditional Optimization Tools	Y	Y	Y	11
124	<a href="#">112104228</a>	32	NOC:Design Practice	Y	Y	Y	8.4
125	<a href="#">112105236</a>	40	NOC:Mechanism and Robot Kinematics	Y	Y	Y	12
126	<a href="#">112103244</a>	23	NOC:Advances in Welding and Joining Technologies	Y	Y	Y	12
127	<a href="#">112107240</a>	40	NOC:Automatic Control	Y	Y	Y	11
128	<a href="#">112107241</a>	40	NOC:Failure Analysis and Prevention	Y	Y	Y	11
129	<a href="#">112107242</a>	40	NOC:Mechanical Measurement System	Y	Y	Y	12
130	<a href="#">112103245</a>	27	NOC:Introduction to Machining and Machining Fluids	Y	Y	Y	9.9
131	<a href="#">112107238</a>	60	NOC:Operations Management	Y	Y	Y	4.1
132	<a href="#">112104229</a>	72	NOC:Introduction To Composites	Y	Y	Y	14
133	<a href="#">112108246</a>	60	NOC:Convective Heat Transfer (2018)	Y	Y	Y	14
134	<a href="#">112103243</a>	30	NOC:Fundamentals of Nuclear Power Generation	Y	Y	Y	6.9
135	<a href="#">112105232</a>	60	NOC:Machinery Fault Diagnosis and Signal Processing	Y	Y	Y	15
136	<a href="#">112105231</a>	63	NOC:Introduction to Mechanical Micro Machining	Y	Y	Y	16
137	<a href="#">112107239</a>	60	NOC:Theory of Production Processes	Y	Y	Y	17

138	<a href="#">112106247</a>	37	NOC:Experimental Stress Analysis: An Overview	Y	Y	Y	62
139	<a href="#">112102248</a>	15	NOC:RAC Product Design	Y	Y	Y	9.6
140	<a href="#">112103248</a>	20	NOC:Mechanics of Machining	Y	Y	Y	6.2
141	<a href="#">112103249</a>	58	NOC:Principle of Hydraulic Machines and System Design	---	Y	---	8.4
142	<a href="#">112103250</a>	25	NOC:Introduction to Abrasive Machining and Finishing Processes	Y	Y	Y	18
143	<a href="#">112103251</a>	14	NOC:Theory of Rectangular Plates - Part I	Y	Y	Y	3.8
144	<a href="#">112104248</a>	40	NOC:Phase Equilibria in Materials-Nature and Properties of Materials-II	Y	Y	Y	7.6
145	<a href="#">112104249</a>	72	NOC:Advanced Composites	Y	Y	Y	8.4
146	<a href="#">112104250</a>	52	NOC:Engineering Metrology	Y	Y	Y	18
147	<a href="#">112104251</a>	19	NOC:Smart Materials and Intelligent System Design	Y	Y	Y	7.7
148	<a href="#">112104252</a>	37	NOC:Design Practice-II	Y	Y	Y	7.0
149	<a href="#">112105248</a>	66	NOC:Heat Exchangers: Fundamentals and Design Analysis	Y	Y	Y	18
150	<a href="#">112105249</a>	45	NOC:Robotics	Y	Y	Y	11
151	<a href="#">112106248</a>	50	NOC:Mechanics of Human Movement	Y	Y	Y	53
152	<a href="#">112106249</a>	41	NOC:Design for Quality, Manufacturing and Assembly	Y	Y	Y	35
153	<a href="#">112106250</a>	19	NOC:Surrogates and Approximations in Engineering Design	Y	Y	Y	14
154	<a href="#">112107248</a>	60	NOC:Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	Y	Y	Y	8.5
155	<a href="#">112107249</a>	60	NOC:Work System Design	Y	Y	Y	19
156	<a href="#">112107250</a>	40	NOC:Principles of Metal Forming Technology	Y	Y	Y	7.8
157	<a href="#">112102255</a>	54	NOC:Thermodynamics	Y	Y	Y	32
158	<a href="#">112103261</a>	33	NOC:Principles of Mechanical Measurement	Y	Y	Y	16
159	<a href="#">112103262</a>	50	NOC:IC Engines and Gas Turbines	Y	Y	Y	21
160	<a href="#">112103263</a>	24	NOC:Fundamental of Welding Science and Technology	Y	Y	Y	13
161	<a href="#">112103264</a>	15	NOC:Polymer Assisted Abrasive Finishing Processes	Y	Y	Y	11
162	<a href="#">112104265</a>	44	NOC:Rapid Manufacturing	Y	Y	Y	27
163	<a href="#">112105266</a>	68	NOC:Concepts of Thermodynamics	Y	Y	Y	19
164	<a href="#">112105267</a>	40	NOC:Electronic Packaging and Manufacturing	Y	Y	Y	10
165	<a href="#">112105268</a>	40	NOC:Kinematics of Mechanisms and Machines	Y	Y	Y	11
166	<a href="#">112107256</a>	40	NOC:Radiative Heat Transfer	Y	Y	Y	7.3
167	<a href="#">112107257</a>	40	NOC:Weldability of Metals	Y	Y	Y	5.3
168	<a href="#">112107258</a>	40	NOC:Manufacturing Guidelines for Product Design	Y	Y	Y	13
169	<a href="#">112107259</a>	20	NOC:Inspection and Quality Control in Manufacturing	Y	Y	Y	4.5
170	<a href="#">112107260</a>	60	NOC:Financial Mathematics	Y	Y	Y	9.7
171	<a href="#">112105269</a>	60	NOC:Introduction to Fluid Mechanics (2019)	Y	Y	Y	16
172	<a href="#">112106270</a>	37	Theory of Mechanism	Y	Y	---	90
173	<a href="#">112102284</a>	32	NOC:Solid Mechanics	Y	Y	Y	26
174	<a href="#">112103273</a>	38	NOC:Mathematical Modeling of Manufacturing Processes	Y	Y	Y	25
175	<a href="#">112103274</a>	8	NOC:Two-Phase flow with phase change in conventional	Y	Y	Y	5.0

			and miniature channels				
176	<a href="#">112103275</a>	36	NOC:Applied Thermodynamics For Engineers	Y	Y	Y	27
177	<a href="#">112103276</a>	33	NOC:Fundamentals of Conduction and Radiation	Y	Y	Y	22
178	<a href="#">112103277</a>	33	NOC:Steam Power Engineering	Y	Y	Y	8.5
179	<a href="#">112103278</a>	45	NOC:Dynamic Behaviour of Materials	Y	Y	Y	14
180	<a href="#">112103279</a>	36	NOC:Plastic Working of Metallic Materials	---	Y	Y	9.9
181	<a href="#">112103280</a>	34	NOC:Fundamentals of Artificial Intelligence	Y	Y	Y	17
182	<a href="#">112103281</a>	42	NOC:Aircraft Propulsion	Y	Y	Y	12
183	<a href="#">112104272</a>	60	NOC:Turbulent Combustion: Theory and Modelling	Y	Y	Y	26
184	<a href="#">112104288</a>	20	NOC:Manufacturing Automation	Y	Y	Y	8.4
185	<a href="#">112105287</a>	59	NOC:Advanced Concepts in Fluid Mechanics	Y	Y	Y	28
186	<a href="#">112106286</a>	37	NOC:Engineering Mechanics	Y	Y	Y	127
187	<a href="#">112107282</a>	20	NOC:Product Design Using Value Engineering	Y	Y	Y	9.1
188	<a href="#">112107283</a>	20	NOC:Selection of Nanomaterials for Energy Harvesting and Storage Application	Y	Y	Y	4.8
189	<a href="#">112108285</a>	25	NOC:A Short Lecture Series on Contour Integration in the Complex Plane	Y	Y	Y	3.5
190	<a href="#">112105254</a>	60	NOC:Computational Fluid Dynamics	---	Y	---	5.9
191	<a href="#">112105271</a>	65	NOC:Conduction and Convection Heat Transfer	Y	Y	---	11
192	<a href="#">112106253</a>	55	NOC: Steel Quality: Role of Secondary Refining and Continuous Casting	---	Y	Y	4.9
193	<a href="#">112107290</a>	39	NOC:Acoustic Metamaterials	Y	Y	Y	6.8
194	<a href="#">112103289</a>	37	NOC:Computational Fluid Dynamics for Incompressible Flows	Y	Y	Y	22
195	<a href="#">112104289</a>	50	NOC:Computer Integrated Manufacturing	Y	Y	Y	40
196	<a href="#">112103290</a>	43	NOC:Experimental Methods in Fluid Mechanics	Y	Y	Y	14
197	<a href="#">112106289</a>	34	NOC:Foundations of Computational Materials Modelling	Y	Y	Y	29
198	<a href="#">112106290</a>	33	NOC:Fundamentals of Combustion for Propulsion	Y	Y	Y	26
199	<a href="#">112108289</a>	43	NOC:Introduction to Soft Matter	Y	Y	Y	5.2
200	<a href="#">112104290</a>	20	NOC:Machining Science	Y	Y	Y	9.4
201	<a href="#">112107291</a>	40	NOC:Power Plant Engineering	Y	Y	Y	3.9
202	<a href="#">112107292</a>	60	NOC:Principles of Industrial Engineering	Y	Y	Y	5.8
203	<a href="#">112107289</a>	40	NOC:Robotics and Control: Theory and Practice	Y	Y	Y	3.4
204	<a href="#">112103293</a>	38	NOC:Automation in Manufacturing	Y	Y	Y	8.4
205	<a href="#">112106293</a>	66	NOC:Basics of Materials Engineering	Y	Y	Y	11
206	<a href="#">112103296</a>	40	NOC:Computational Continuum Mechanics	Y	Y	Y	6.6
207	<a href="#">112106294</a>	42	NOC:Computational Fluid Dynamics using Finite Volume Method	Y	Y	Y	7.7
208	<a href="#">112105294</a>	65	NOC:Engineering Drawing and Computer Graphics	Y	Y	Y	17
209	<a href="#">112103295</a>	35	NOC:Finite Element Method: Variational Methods to Computer Programming	---	Y	---	5.5
210	<a href="#">112104293</a>	14	NOC:Foundations of Cognitive Robotics	Y	Y	Y	7.6

211	<a href="#">112103294</a>	31	NOC:Fundamentals of Compressible Flow	Y	Y	Y*	4.5
212	<a href="#">112103297</a>	43	NOC:Fundamentals of Convective Heat Transfer	Y	Y	Y	8.8
213	<a href="#">112105293</a>	40	NOC:High Performance Computing for Scientists and Engineers	Y	Y	Y	24
214	<a href="#">112101298</a>	67	NOC:Optimization from Fundamentals	Y	Y	---	5.4
215	<a href="#">112102298</a>	29	NOC:Introduction to Uncertainty Analysis and Experimentation	---	Y	---	5.0
216	<a href="#">112103298</a>	28	NOC:Theory of Composite Shells	Y	Y	---	3.1
217	<a href="#">112103299</a>	40	NOC:Finite Element Modeling of Welding Processes	Y	Y	---	7.6
218	<a href="#">112103300</a>	36	NOC:Nonlinear Vibration	Y	Y	---	4.7
219	<a href="#">112103301</a>	26	NOC:Evolutionary Computation for Single and Multi Objective Optimization	Y	Y	Y	4.7
220	<a href="#">112103302</a>	44	NOC:Viscous Fluid Flow	Y	Y	---	5.3
221	<a href="#">112104298</a>	28	NOC:Introduction to Robotics	---	Y	---	2.9
222	<a href="#">112104299</a>	47	NOC:Muffler Acoustics - Application to Automotive Exhaust Noise Control	Y	Y	Y	5.9
223	<a href="#">112104300</a>	35	NOC:Elements of Solar Energy Conversion	Y	Y	Y	9.5
224	<a href="#">112104301</a>	20	NOC:Manufacturing Processes - Casting and Joining	Y	Y	Y	3.2
225	<a href="#">112104302</a>	26	NOC:Computational Fluid Dynamics and Heat Transfer	---	Y	---	3.7
226	<a href="#">112105299</a>	43	NOC:Tools in Scientific Computing	---	Y	---	6.7
227	<a href="#">112106298</a>	46	NOC:Wheeled Mobile Robots	Y	Y	Y	3.7
228	<a href="#">112106299</a>	61	NOC:Fundamentals of Combustion	Y	Y	Y	11
229	<a href="#">112106300</a>	96	NOC:Oil Hydraulics and Pneumatics	Y	Y	---	7.9
230	<a href="#">112107298</a>	40	NOC:Mechatronics	Y	Y	Y	5.9
231	<a href="#">112108298</a>	42	NOC:Robotics: Basics and Selected Advanced Concepts	Y	Y	Y	3.7
232	<a href="#">112106303</a>	21	Introduction to Turbomachines	---	Y	---	0.7
233	<a href="#">112101304</a>	48	NOC:Design of Mechatronic Systems	Y	Y	Y	4.6
234	<a href="#">112102304</a>	50	NOC:Engineering Graphics and Design	Y	Y	Y	5.5
235	<a href="#">112103305</a>	27	NOC:Welding Application Technology	---	Y	---	4.2
236	<a href="#">112103306</a>	33	NOC:Fundamentals of Additive Manufacturing Technologies	---	Y	---	6.0
237	<a href="#">112103307</a>	44	NOC:Applied Thermodynamics	Y	Y	Y	6.1
238	<a href="#">112104304</a>	33	NOC:Production Technology: Theory and Practice	Y	Y	Y	13
239	<a href="#">112104305</a>	50	NOC:Introduction to Turbomachinery	---	Y	---	3.8
240	<a href="#">112105304</a>	60	NOC:Advanced Dynamics	Y	Y	Y	4.6
241	<a href="#">112105305</a>	44	NOC:Biomechanics of Joints and Orthopaedic Implants	Y	Y	Y	4.5
242	<a href="#">112105306</a>	60	NOC:Elements of Metal Cutting, Machine tools, Gear Cutting and CNC Machining	---	Y	Y	4.1
243	<a href="#">112106304</a>	45	NOC:Mechanics and Control of Robotic Manipulators	Y	Y	Y	4.3
244	<a href="#">112103308</a>	32	NOC:Mechanics of Fiber Reinforced Polymer Composite Structures	---	Y	---	4.1
245	<a href="#">112104308</a>	20	NOC:Robot Motion Planning	Y	Y	Y	2.2
246	<a href="#">112105308</a>	60	NOC:Finite Element Method	---	Y	---	6.7
247	<a href="#">112108308</a>	60	NOC:Sound and Structural Vibration	---	Y	---	3.9
248	<a href="#">112106309</a>	37	Inverse Methods in Heat Transfer	---	Y	---	11

249	<a href="#">112106310</a>	38	Engineering Thermodynamics (2022)	---	Y	---	3.8
250	<a href="#">112106311</a>	9	Applied Mechanics - Fluid Mechanics Laboratory	---	Y	---	0.7
251	<a href="#">112101312</a>	71	NOC:Nonlinear Adaptive Control	---	Y	---	9.3
252	<a href="#">112103312</a>	26	NOC:Laser Based Manufacturing	---	Y	---	3.0
253	<a href="#">112103313</a>	32	NOC:Advanced Thermodynamics and Combustion	---	Y	---	4.3
254	<a href="#">112104312</a>	47	NOC:Metal Additive Manufacturing	---	Y	---	5.8
255	<a href="#">112104313</a>	39	NOC:Conduction and Convection: Fundamentals and Applications	---	Y	---	4.2
256	<a href="#">112106312</a>	53	NOC:Interfacial Fluid Mechanics	---	Y	---	3.8
257	<a href="#">112106314</a>	45	Applied Thermodynamics	---	Y	---	5.3
258	<a href="#">112108312</a>	60	NOC:Vibrations of Plates and Shells	---	Y	---	4.5
259	<a href="#">112108313</a>	32	NOC: Dynamics and Control of Mechanical Systems	---	Y	---	3.5
<b>Discipline : Metallurgy and Material Science</b>							
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<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/metallurgy-and-material-science.pdf">http://www.digimat.in/downloads/topics/metallurgy-and-material-science.pdf</a></b>							
1	<a href="#">113104006</a>	41	Electroceramics	Y	Y	Y	18
2	<a href="#">113104008</a>	40	Fuels Refractory and Furnaces	Y	Y	Y	7.5
3	<a href="#">113104009</a>	39	Introduction to Biomaterials	Y	Y	Y	15
4	<a href="#">113104010</a>	40	Materials and Energy balance in Metallurgical Processes	Y	Y	Y	14
5	<a href="#">113104012</a>	40	Optoelectronic Materials and Devices	Y	Y	Y	12
6	<a href="#">113104013</a>	42	Steel Making	Y	Y	Y	16
7	<a href="#">113104014</a>	45	Structure of Materials	Y	Y	Y	20
8	<a href="#">113104061</a>	41	Environmental Degradation of Materials	Y	Y	Y	18
9	<a href="#">113105015</a>	47	Advanced ceramics for strategic applications	Y	Y	Y	14
10	<a href="#">113105021</a>	43	Non-ferrous Extractive Metallurgy	Y	Y	Y	20
11	<a href="#">113105024</a>	42	Principles of Physical Metallurgy	Y	Y	Y	20
12	<a href="#">113105025</a>	40	Processing of Semiconducting Materials	Y	Y	Y	11
13	<a href="#">113105028</a>	40	Science and Technology of Polymers	Y	Y	Y	11
14	<a href="#">113105057</a>	26	Advanced Materials and Processes	Y	Y	Y	5.3
15	<a href="#">113106031</a>	31	Advanced Metallurgical Thermodynamics	Y	Y	Y	13
16	<a href="#">113106039</a>	40	Physics of Materials	Y	Y	Y	15
17	<a href="#">113106062</a>	40	Electronic Materials, Devices and Fabrication	Y	Y	Y	26
18	<a href="#">113106065</a>	27	NOC:Fundamentals of Electronic Materials and Devices	Y	Y	Y	12
19	<a href="#">113106066</a>	11	NOC:Introduction to Reciprocal Space and its use in Solids	Y	Y	Y	5.1
20	<a href="#">113106067</a>	20	NOC:Analysis and Modeling of Welding	Y	Y	Y	7.8
21	<a href="#">113106064</a>	22	NOC:Fundamentals of optical and scanning electron microscopy	Y	Y	Y	12
22	<a href="#">113104068</a>	61	NOC:Phase Diagrams in Materials Science and Engineering	Y	Y	Y	3.6
23	<a href="#">113104004</a>	33	Advanced Characterization Techniques	Y	Y	Y	22
24	<a href="#">113106034</a>	54	Materials Characterization	Y	Y	Y	30
25	<a href="#">113108071</a>	40	NOC:Biomaterials for Bone Tissue Engineering Applications	Y	Y	Y	9.7



26	<a href="#">113104073</a>	40	NOC:Fundamentals of Material Processing - I	Y	Y	Y*	3.2
27	<a href="#">113104074</a>	40	NOC:Heat Treatment and Surface Hardening - I	Y	Y	Y	3.1
28	<a href="#">113101072</a>	87	NOC:Phase Field Modelling: The Materials Science, Mathematics and Computational Aspects	Y	Y	Y	18
29	<a href="#">113103072</a>	17	NOC:Introduction to Crystal Elasticity and Crystal Plasticity	Y	Y	Y	8.2
30	<a href="#">113106070</a>	40	NOC:Theory and Practice of Non Destructive Testing	Y	Y	Y	15
31	<a href="#">113107075</a>	40	NOC:Surface Engineering of Nanomaterials	Y	Y	Y	11
32	<a href="#">113106075</a>	35	NOC:Defects in Materials	Y	Y	Y	27
33	<a href="#">113104075</a>	41	NOC:Fundamentals of Material Processing - Part 2	Y	Y	Y	4.1
34	<a href="#">113108079</a>	39	NOC:Iron Making	Y	Y	Y	11
35	<a href="#">113102080</a>	147	NOC:Introduction to Materials Science and Engineering	Y	Y	Y	36
36	<a href="#">113107078</a>	40	NOC:Material Science and Engineering	Y	Y	Y	9.2
37	<a href="#">113105077</a>	47	NOC:Principles of Polymer Synthesis	Y	Y	Y	14
38	<a href="#">113104076</a>	40	NOC:Nature and Properties Of Materials - An Introductory Course	Y	Y	Y	10
39	<a href="#">113104081</a>	40	NOC:Defects in Crystalline Solids - Part I	Y	Y	Y	16
40	<a href="#">113104082</a>	41	NOC:Corrosion - Part I	Y	Y	Y	5.9
41	<a href="#">113105081</a>	60	NOC:Advanced Materials and Processes	Y	Y	Y	17
42	<a href="#">113106081</a>	19	NOC:Elementary Stereology for Quantitative Metallography	Y	Y	Y	24
43	<a href="#">113106082</a>	20	NOC:Welding of Advanced High Strength Steels for Automotive Applications	Y	Y	Y	18
44	<a href="#">113107081</a>	20	NOC:Structural Analysis of Nanomaterials	Y	Y	Y	5.6
45	<a href="#">113104084</a>	41	NOC:Solar Photovoltaics: Principles, Technologies and Material	Y	Y	Y	16
46	<a href="#">113104085</a>	17	NOC:Defects in Crystalline Solids - Part II	Y	Y	Y	9.2
47	<a href="#">113105086</a>	60	NOC:Surface Engineering for Corrosion and Wear Resistance Application	Y	Y	Y	17
48	<a href="#">113106087</a>	59	NOC:Welding Processes	Y	Y	Y	66
49	<a href="#">113106088</a>	24	NOC:Creep Deformation of Materials	Y	Y	Y	27
50	<a href="#">113108083</a>	40	NOC:Friction and Wear of Materials: Principles and Case Studies	Y	Y	Y	6.7
51	<a href="#">113104089</a>	41	NOC:Corrosion - Part II	Y	Y	Y	11
52	<a href="#">113104090</a>	40	NOC:Fundamentals and Applications of Dielectric Ceramics	Y	Y	Y	13
53	<a href="#">113106093</a>	25	NOC:Nanotechnology, Science and Applications	Y	Y	Y	54
54	<a href="#">113107091</a>	40	NOC:Thermo-Mechanical and Thermo-Chemical Processes	Y	Y	Y	7.5
55	<a href="#">113107092</a>	60	NOC:Welding Metallurgy	Y	Y	Y	8.3
56	<a href="#">113101096</a>	99	NOC:Dealing with Materials Data:Collection, Analysis and Interpretation	Y	Y	Y	46
57	<a href="#">113104097</a>	51	NOC:Diffusion in Multicomponent Solids (2020.S1)	Y	Y	Y	30
58	<a href="#">113107096</a>	40	NOC:Modeling of Tundish Steelmaking Process in Continuous Casting	Y	Y	Y	5.2
59	<a href="#">113104096</a>	40	NOC:Properties of Materials (Nature and Properties of Materials-III)	Y	Y	Y	9.7
60	<a href="#">113106069</a>	27	NOC:Fundamentals of X-ray Diffraction and Transmission Electron Microscopy	Y	Y	Y	9.2
61	<a href="#">113101098</a>	34	NOC:Aqueous Corrosion and its Control	Y	Y	Y	27
62	<a href="#">113105098</a>	60	NOC:Ironmaking and Steelmaking	Y	Y	Y	33

63	<a href="#">113106098</a>	60	NOC:Powder Metallurgy	Y	Y	Y	4.7
64	<a href="#">113101099</a>	14	NOC:Cathodic Protection Engineering	Y	Y	Y	2.3
65	<a href="#">113105099</a>	60	NOC:Non-Metallic Materials	Y	Y	Y	6.0
66	<a href="#">113105100</a>	43	NOC:Scanning Electron/Ion/Probe Microscopy in Materials Characterization	---	Y	---	4.9
67	<a href="#">113106099</a>	59	NOC:Carbon Materials and Manufacturing	Y	Y	Y	6.1
68	<a href="#">113104101</a>	42	NOC:Corrosion Failures and Analysis	Y	Y	---	4.2
69	<a href="#">113104102</a>	29	NOC:Nanomaterials and their Properties	Y	Y	Y	2.8
70	<a href="#">113105101</a>	60	NOC:Techniques of Material Characterization	Y	Y	Y	9.0
71	<a href="#">113105102</a>	60	NOC:Electrochemical Energy Storage	Y	Y	---	6.3
72	<a href="#">113105103</a>	56	NOC:Texture in Materials	---	Y	---	9.9
73	<a href="#">113106101</a>	64	NOC:Mechanical Behavior of Materials	Y	Y	Y	4.2
74	<a href="#">113104104</a>	45	NOC:Mechanical Behaviour of Materials - Part I	---	Y	---	3.4
75	<a href="#">113105104</a>	60	NOC:Bulk Material Transport and Handling Systems	Y	Y	---	11
76	<a href="#">113104105</a>	27	NOC:Mechanical Behaviour of Materials - Part II	---	Y	---	2.4
77	<a href="#">113104106</a>	39	NOC:Electronic Properties of the Materials: Computational Approach	---	Y	---	2.4
78	<a href="#">113105105</a>	60	NOC:Environmental Degradation and Surface Engineering	---	Y	---	9.0
79	<a href="#">113105106</a>	60	NOC:Fracture, Fatigue and Failure of Materials	---	Y	---	5.8
80	<a href="#">113105107</a>	60	NOC:Mine Closure and Sustainability Planning	---	Y	---	11
81	<a href="#">113106105</a>	60	NOC:Aluminium based Alloys and Metal Matrix Composites	---	Y	---	3.1
82	<a href="#">113106106</a>	18	NOC:Welding Science and Technology (In Tamil)	---	Y	---	1.7

**Discipline : Ocean Engineering**

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

16	<a href="#">114106035</a>	38	Ocean Structures and Materials	Y	Y	Y	12
17	<a href="#">114106036</a>	49	Dynamics of Ocean Structures	Y	Y	Y	20
18	<a href="#">114106037</a>	53	Advanced Marine Structures	Y	Y	Y	21
19	<a href="#">114106038</a>	47	NOC:Dynamics of Ocean Structures	Y	Y	Y	23
20	<a href="#">114106039</a>	37	NOC:Health, Safety and Environmental Management in Offshore and Petroleum Engineering	Y	Y	Y	8.1
21	<a href="#">114106042</a>	55	NOC:HSE for offshore and petroleum engineers	Y	Y	Y	24
22	<a href="#">114106041</a>	58	NOC:Risk and Reliability of offshore structures	Y	Y	Y	25
23	<a href="#">114106043</a>	53	NOC:Offshore Structures Under Special Loads Including Fire Resistance	Y	Y	Y	33
24	<a href="#">114106045</a>	118	NOC:Computer Methods Of Structural Analysis of Offshore Structures	Y	Y	Y	103
25	<a href="#">114105044</a>	65	NOC:Water Economics and Governance	Y	Y	Y	16
26	<a href="#">114106046</a>	84	NOC:Structural Health Monitoring	Y	Y	Y	67
27	<a href="#">114105047</a>	40	NOC:Marine Propulsion	---	Y	---	3.2
28	<a href="#">114105048</a>	60	NOC:Numerical Ship and Offshore Hydrodynamics	---	Y	---	4.7
29	<a href="#">114106047</a>	64	NOC:Advanced Design of Steel Structures	---	Y	---	7.3
<b>Discipline : Physics</b>							
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1	<a href="#">115101005</a>	40	Electromagnetic Theory (Prof. D.K. Ghosh)	Y	Y	Y	29
2	<a href="#">115101011</a>	24	Special Theory of Relativity	Y	Y	Y	22
3	<a href="#">115102014</a>	42	Electronics	Y	Y	Y	19
4	<a href="#">115102020</a>	42	Fundamentals and Applications	Y	Y	Y	19
5	<a href="#">115102022</a>	42	Quantum Electronics	Y	Y	Y	17
6	<a href="#">115102023</a>	42	Quantum Mechanics and Applications	Y	Y	Y	19
7	<a href="#">115102026</a>	46	Semiconductor Optoelectronics	Y	Y	Y	32
8	<a href="#">115104043</a>	43	Nuclear Physics: Fundamentals and Applications	Y	Y	Y	12
9	<a href="#">115104088</a>	78	NOC:Introduction to Electromagnetism	Y	Y	Y	2.1
10	<a href="#">115105046</a>	40	Astrophysics and Cosmology	Y	Y	Y	9.7
11	<a href="#">115106057</a>	40	Special / Select Topics in Atomic Physics	Y	Y	Y	16
12	<a href="#">115106058</a>	39	Classical Field Theory	Y	Y	Y	17
13	<a href="#">115106059</a>	29	Topics in Nonlinear Dynamics	Y	Y	Y	15
14	<a href="#">115106061</a>	58	Condensed Matter Physics	Y	Y	Y	18
15	<a href="#">115106065</a>	38	Quantum Field Theory	Y	Y	Y	27
16	<a href="#">115106066</a>	41	Quantum Mechanics I	Y	Y	Y	20
17	<a href="#">115106068</a>	40	Special / Select Topics in Classical Mechanics	Y	Y	Y	13
18	<a href="#">115106085</a>	46	Special / Select Topics in the Theory of Atomic Collisions and Spectroscopy	Y	Y	Y	14
19	<a href="#">115106086</a>	36	Selected Topics in Mathematical Physics	Y	Y	Y	24
20	<a href="#">115106090</a>	43	NOC: Mechanics, heat oscillations and waves	Y	Y	Y	12

21	<a href="#">115108074</a>	45	Relativistic Quantum Mechanics	Y	Y	Y	26
22	<a href="#">115106087</a>	30	Nuclear Reactors and Safety- An Introduction	Y	Y	Y	16
23	<a href="#">115106089</a>	29	Physical Applications of Stochastic Processes	Y	Y	Y	27
24	<a href="#">115106091</a>	36	Nonequilibrium Statistical Mechanics	Y	Y	Y	32
25	<a href="#">115104094</a>	100	NOC:Engineering Mechanics	Y	Y	Y	3.8
26	<a href="#">115101092</a>	46	NOC:Quantum Information and Computing	Y	Y	Y	19
27	<a href="#">115107095</a>	40	NOC:Fiber Optics	Y	Y	Y	11
28	<a href="#">115104095</a>	23	NOC:Computational Science and Engineering Using Python	Y	Y	Y	2.2
29	<a href="#">115104096</a>	55	NOC:Introductory Quantum Mechanics	Y	Y	Y	2.3
30	<a href="#">115105097</a>	60	NOC:Mathematical Methods in Physics - I	Y	Y	Y	17
31	<a href="#">115105098</a>	60	NOC:Classical Mechanics: from Newtonian to Lagrangian Formulation	Y	Y	Y	16
32	<a href="#">115105099</a>	75	NOC:Solid State Physics	Y	Y	Y	25
33	<a href="#">115103102</a>	25	NOC:Advanced Condensed Matter Physics	Y	Y	Y	2.6
34	<a href="#">115105100</a>	60	NOC:Atomic and Molecular Physics	Y	Y	Y	18
35	<a href="#">115103101</a>	44	NOC:Nuclear and Particle Physics	Y	Y	Y	8.7
36	<a href="#">115102103</a>	45	Semiconductor Optoelectronics (Repurposed)	Y	Y	Y	36
37	<a href="#">115101104</a>	48	NOC:Theory of Groups for Physics Applications	Y	Y	Y	39
38	<a href="#">115103104</a>	33	NOC:Advanced Quantum Mechanics with Applications	Y	Y	Y	7.1
39	<a href="#">115105104</a>	59	NOC:Modern Optics	Y	Y	Y	15
40	<a href="#">115105105</a>	60	NOC:Introduction to Non-linear Optics and its Applications	Y	Y	Y	16
41	<a href="#">115105106</a>	86	NOC:Upstream LNG Technology	Y	Y	Y	16
42	<a href="#">115108104</a>	50	NOC:Control System Design	Y	Y	Y	14
43	<a href="#">115101107</a>	71	NOC:Quantum Mechanics-I	Y	Y	Y	41
44	<a href="#">115103108</a>	17	NOC:A Brief Course on Superconductivity	Y	Y	Y	5.9
45	<a href="#">115104109</a>	87	NOC:Introduction to Solid State Physics	Y	Y	Y*	17
46	<a href="#">115105110</a>	60	NOC:Experimental Physics-I	Y	Y	Y	31
47	<a href="#">115106111</a>	35	NOC:Statistical Mechanics	Y	Y	Y*	106
48	<a href="#">115101117</a>	32	NOC:Path Integral and Functional Methods in Quantum Field Theory	Y	Y	Y	37
49	<a href="#">115103113</a>	32	NOC:Introduction to Statistical Mechanics	Y	Y	Y	14
50	<a href="#">115103114</a>	24	NOC:Numerical Methods and Simulation Techniques for Scientists and Engineers	Y	Y	Y	19
51	<a href="#">115103115</a>	27	NOC:Theoretical Mechanics	---	Y	Y	4.3
52	<a href="#">115104112</a>	44	NOC:Physics of Turbulence	Y	Y	Y	20
53	<a href="#">115105120</a>	61	NOC:Experimental Physics - II	Y	Y	Y	31
54	<a href="#">115106118</a>	58	NOC:Computational Physics	Y	Y	Y	42
55	<a href="#">115106119</a>	58	NOC:Waves and Oscillations	Y	Y	Y	33
56	<a href="#">115107116</a>	40	NOC:Solar Photovoltaics Fundamentals, Technology and Applications	Y	Y	Y	6.1
57	<a href="#">115106122</a>	83	NOC:Electromagnetism	Y	Y	Y	16
58	<a href="#">115105122</a>	60	NOC:Electronic Theory of Solids	Y	Y	Y	12

59	<a href="#">115105121</a>	62	NOC:Experimental Physics - III	Y	Y	Y	27
60	<a href="#">115101122</a>	59	NOC:Group Theory Methods in Physics	Y	Y	Y	50
61	<a href="#">115107121</a>	60	NOC:Introduction to Atmospheric and Space Sciences	Y	Y	Y	6.9
62	<a href="#">115107122</a>	20	NOC:Optical Sensors	Y	Y	Y	3.0
63	<a href="#">115101121</a>	62	NOC:Physics of Biological Systems	Y	Y	Y	40
64	<a href="#">115106121</a>	50	NOC:Physics through Computational Thinking	Y	Y	Y	26
65	<a href="#">115106123</a>	67	NOC:Introduction to Classical Mechanics	Y	Y	Y	20
66	<a href="#">115103123</a>	34	NOC:Solar Energy Engineering and Technology	Y	Y	Y	5.1
67	<a href="#">115102124</a>	38	NOC:Introduction to LASER	Y	Y	---	5.6
68	<a href="#">115104124</a>	57	NOC:Introduction to Astrophysical Fluids	Y	Y	Y	6.7
69	<a href="#">115105124</a>	60	NOC:Physics of Linear and Nonlinear Optical Waveguides	Y	Y	---	5.3
70	<a href="#">115106124</a>	64	NOC:Fluid Dynamics for Astrophysics	Y	Y	---	5.5
71	<a href="#">115106125</a>	33	NOC:Quantum Transport	---	Y	---	3.6
72	<a href="#">115106126</a>	65	NOC:Statistical Mechanics (2021)	Y	Y	---	4.5
73	<a href="#">115105127</a>	51	NOC:Physics of Renewable Energy Systems	Y	Y	Y	7.2
74	<a href="#">115106127</a>	70	NOC:Solid State Physics	Y	Y	Y*	3.2
75	<a href="#">115106128</a>	51	NOC:Introduction to Quantum Field Theory (Theory of Scalar Fields)	Y	Y	Y	3.1
76	<a href="#">115108127</a>	60	NOC:Bonds and Bands in Solids	---	Y	---	5.0
77	<a href="#">115103129</a>	44	NOC:Quantum Technology and Quantum Phenomena in Macroscopic Systems	Y	Y	Y	3.9
78	<a href="#">115105129</a>	60	NOC:Thermal Physics	---	Y	---	7.6
79	<a href="#">115107129</a>	60	NOC:Advanced Atmospheric Physics	---	Y	---	5.4
80	<a href="#">115107130</a>	40	NOC:Nuclear Astrophysics	Y	Y	Y	5.5
81	<a href="#">115108129</a>	60	NOC:Advanced NMR Techniques in Solution and Solid-State	---	Y	Y	11
82	<a href="#">115101131</a>	69	NOC:Neutron Scattering for Condensed Matter Studies	---	Y	---	4.6
83	<a href="#">115101132</a>	72	NOC:Accelerator Physics	---	Y	---	5.7
84	<a href="#">115103131</a>	48	NOC:Dynamics of Classical and Quantum Fields	---	Y	---	5.1
85	<a href="#">115105131</a>	40	NOC:Concepts in Magnetism and Superconductivity	---	Y	---	3.4
86	<a href="#">115105132</a>	73	NOC:Foundations of Classical Electrodynamics	---	Y	---	5.4
87	<a href="#">115107131</a>	60	NOC:Applied Optics	---	Y	---	5.7

**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	Y	28
4	<a href="#">116102048</a>	35	NOC:Yarn Manufacture-I: Principle of Carding and Drawing	Y*	Y	Y*	8.2
5	<a href="#">116102049</a>	40	NOC:Evaluations of Textile Materials	Y	Y	Y	31
6	<a href="#">116102050</a>	24	NOC:Testing of Functional and Technical Textiles	Y	Y	Y	19

7	<a href="#">116102051</a>	24	NOC:Theory of Yarn Structure	Y	Y	Y	20
8	<a href="#">116102052</a>	21	NOC:Advanced Textile Printing Technology	Y	Y	Y	16
9	<a href="#">116102053</a>	34	NOC:Textured Yarn Technology	Y	Y	Y	24
10	<a href="#">116102054</a>	32	NOC:Textile Finishing	Y	Y	Y	27
11	<a href="#">116102055</a>	30	NOC:Principles of Combing, Roving preparation & Ring spinning	---	Y	Y	21
12	<a href="#">116102056</a>	50	NOC:Science and Technology of Weft and Warp Knitting	Y	Y	Y	26
13	<a href="#">116102057</a>	40	NOC:Technical Textiles	Y	Y	Y	37
14	<a href="#">116102058</a>	29	NOC:Textile Product Design and Development	---	Y	---	5.6

**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	Y	0.5
43	<a href="#">117106112</a>	44	Embedded Software Testing	Y	Y	Y	0.6
44	<a href="#">117106109</a>	34	Advanced Logic Synthesis	---	Y	---	0.6
45	<a href="#">117106113</a>	43	Linux Programming and Scripting	Y	Y	Y	0.4
46	<a href="#">117104115</a>	50	NOC:Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications	Y	Y	Y	8.0
47	<a href="#">117106116</a>	78	NOC:Networks and Systems	Y	Y	Y	4.5
48	<a href="#">117104117</a>	23	NOC:Probability and Random Variables, Processes for Wireless Communications	Y	Y	Y	4.1
49	<a href="#">117108107</a>	39	Analog Circuits and Systems 1	Y	Y	Y	18
50	<a href="#">117101106</a>	25	Analog Circuits	Y	Y	Y	25
51	<a href="#">117101004</a>	42	Advanced VLSI Design	Y	Y	Y	44
52	<a href="#">117101105</a>	29	CMOS Analog VLSI Design	Y	Y	Y	26
53	<a href="#">117101119</a>	34	NOC:Microwave Integrated Circuits	Y	Y	Y	15
54	<a href="#">117104118</a>	39	NOC:Estimation for Wireless Communications / MIMO / OFDM Cellular and Sensor Networks	Y	Y	Y	2.0
55	<a href="#">117105122</a>	20	NOC:Basic Tools of Microwave Engineering	Y	Y	Y	4.9
56	<a href="#">117108124</a>	24	NOC:Design and Simulation of DC-DC converters using Open Source Tools	Y	Y	Y	2.8
57	<a href="#">117101123</a>	31	NOC:Foundations of Wavelets and Multirate Digital Signal Processing	Y	Y	Y	8.1
58	<a href="#">117104121</a>	18	NOC>Error Control Coding: An Introduction to Linear Block code	Y	Y	Y	1.2
59	<a href="#">117104120</a>	17	NOC>Error Control Coding: An Introduction to Convolutional Codes	Y	Y	Y	1.3
60	<a href="#">117105135</a>	59	NOC:Digital Image Processing	Y	Y	Y	15
61	<a href="#">117105133</a>	24	NOC:Audio System Engineering	Y	Y	Y	7.4
62	<a href="#">117105132</a>	40	NOC:Fundamentals of MIMO Wireless Communication	Y	Y	Y	11
63	<a href="#">117105131</a>	40	NOC:Satellite Communication Systems	Y	Y	Y	8.9
64	<a href="#">117104128</a>	35	NOC:Digital Switching-I	Y	Y	Y	3.3

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

**Discipline : Nanotechnology**

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

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



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

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

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

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

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

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

17	<a href="#">122106034</a>	31	Quantum Physics	Y	Y	Y	7.2
18	<a href="#">122107035</a>	40	Engineering Physics - I	Y	Y	Y	24
19	<a href="#">122107036</a>	38	Mathematics - II	Y	Y	Y	7.5
20	<a href="#">122107037</a>	39	Mathematics - III	Y	Y	Y	7.7
21	<a href="#">122108038</a>	40	Concept of Management and Evolution of Management thought	Y	Y	Y	11
<b>Discipline : Mining Engineering</b>							
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<b>Video Lecture Topics @ <a href="http://www.digmat.in/downloads/topics/mining-engineering.pdf">http://www.digmat.in/downloads/topics/mining-engineering.pdf</a></b>							
1	<a href="#">123105001</a>	36	Fundamentals of Environmental Pollution and Control	Y	Y	Y	11
2	<a href="#">123105003</a>	40	NOC:Drilling and Blasting Technology	Y	Y	Y	11
3	<a href="#">123105004</a>	20	NOC:Network Analysis for Mines and Mineral Engineering	Y	Y	Y	5.3
4	<a href="#">123105005</a>	60	NOC:Mining Machinery	Y	Y	---	8.3
5	<a href="#">123105006</a>	60	NOC:Underground Mining of Metalliferous Deposits	Y	Y	Y	8.1
6	<a href="#">123105007</a>	60	NOC:Surface Mining Technology	Y	Y	---	7.4
<b>Discipline : Architecture</b>							
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<b>Video Lecture Topics @ <a href="http://www.digmat.in/downloads/topics/architecture.pdf">http://www.digmat.in/downloads/topics/architecture.pdf</a></b>							
1	<a href="#">124107001</a>	40	NOC:Housing Policy and Planning	Y	Y	Y	11
2	<a href="#">124105001</a>	40	NOC:Landscape Architecture and Site Planning - Basic Fundamentals	Y	Y	Y	12
3	<a href="#">124107002</a>	20	NOC:Visual Communication Design for Digital Media	Y	Y	Y	4.6
4	<a href="#">124105003</a>	43	NOC:Architectural Conservation and Historic Preservation	Y	Y	Y	11
5	<a href="#">124105004</a>	40	NOC:Architectural Acoustics	Y	Y	Y	11
6	<a href="#">124107004</a>	40	NOC:Culturally Responsive Built Environments	Y	Y	Y	12
7	<a href="#">124107005</a>	40	NOC:Contemporary Architecture and Design	Y	Y	Y	10
8	<a href="#">124107006</a>	40	NOC:Role of Craft and Technology in Interior-Architecture	Y	Y	Y	11
9	<a href="#">124106009</a>	20	NOC:Introduction to History of Architecture in India	Y	Y	Y	17
10	<a href="#">124107007</a>	60	NOC:Urban Governance and Development Management	Y	Y	Y	12
11	<a href="#">124107008</a>	20	NOC:User Interface Design	Y	Y	Y	5.8
12	<a href="#">124107010</a>	40	NOC:Disaster Recovery and Build Back Better	Y	Y	Y	8.1
13	<a href="#">124107012</a>	40	NOC:Structure, Form and Architecture: The Synergy	Y	Y	Y	9.9
14	<a href="#">124107011</a>	60	NOC:Sustainable Architecture	Y	Y	Y	14
15	<a href="#">124105013</a>	40	NOC:Building Materials and Composites	Y	Y	Y	19
16	<a href="#">124105014</a>	60	NOC:Environmental Soil Chemistry	Y	Y	Y	31
17	<a href="#">124105015</a>	40	NOC:Structural System in Architecture	Y	Y	Y	12
18	<a href="#">124105016</a>	60	NOC:Urban Landuse and Transportation Planning	Y	Y	Y	20
19	<a href="#">124106157</a>	43	NOC:Strategies for Sustainable Design	Y	Y	Y	4.6
20	<a href="#">124107157</a>	40	NOC:Engineering/Architectural Graphics - Part I: Orthographic projection	Y	Y	Y	11
21	<a href="#">124105158</a>	60	NOC:Urban utilities Planning : Water Supply, Sanitation and Drainage	Y	Y	Y	8.0
22	<a href="#">124107158</a>	40	NOC:Introduction to Urban Planning	---	Y	---	5.6
23	<a href="#">124107159</a>	20	NOC:Engineering, Architectural Graphics - Part II	---	Y	---	2.6

			(Isometric and Axonometric Drawings)				
24	<a href="#">124107160</a>	60	NOC:Environmental Impact Assessment	---	Y	---	12
25	<a href="#">124107161</a>	40	NOC:Modern Indian Architecture	---	Y	---	8.9
26	<a href="#">124107162</a>	20	NOC:International Studies in Vernacular Architecture	---	Y	---	3.2
<b>Discipline : Agriculture</b> <a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/agriculture.pdf">http://www.digimat.in/downloads/topics/agriculture.pdf</a></b>							
1	<a href="#">126104001</a>	26	NOC:Basic Crop Production Practices (BCPP)	---	Y	---	1.9
2	<a href="#">126104002</a>	46	NOC:GIS in Ag-Essentials and Applications (GIS)	Y	Y	Y	3.9
3	<a href="#">126104003</a>	47	NOC:Integrated Pest Management (IPM)	---	Y	---	5.7
4	<a href="#">126104004</a>	49	NOC:Nutrition, Therapeutics and Health (NM)	Y	Y	---	4.7
5	<a href="#">126104005</a>	36	NOC:Weather Forecast in Agriculture and Agro-advisory (WF)	Y	Y	Y	3.2
6	<a href="#">126104006</a>	45	NOC:ICT Basics	Y	Y	Y	3.2
7	<a href="#">126105008</a>	60	NOC:Momentum Transfer in Process Engineering	Y	Y	Y	16
8	<a href="#">126105009</a>	60	NOC:Farm Machinery	Y	Y	Y	14
9	<a href="#">126105010</a>	60	NOC:Irrigation and Drainage	Y	Y	Y	17
10	<a href="#">126105011</a>	60	NOC:Fundamentals of Food Process Engineering	Y	Y	Y	17
11	<a href="#">126105012</a>	56	NOC:Soil and Water Conservation Engineering	Y	Y	Y	11
12	<a href="#">126105013</a>	60	NOC:Dairy and Food Process and Products Technology	Y	Y	Y	16
13	<a href="#">126105014</a>	40	NOC:Organic Farming for Sustainable Agricultural Production	Y	Y	Y	10
14	<a href="#">126105015</a>	60	NOC:Novel Technologies for Food Processing and Shelf Life Extension	Y	Y	Y	18
15	<a href="#">126105016</a>	60	NOC:Soil Science and Technology	Y	Y	Y	16
16	<a href="#">126103017</a>	31	NOC:Thermal Processing of Foods	Y	Y	Y	19
17	<a href="#">126105018</a>	60	NOC:Thermal Operations in Food Process Engineering: Theory and Applications	Y	Y	Y	16
18	<a href="#">126105019</a>	60	NOC:Micro Irrigation Engineering	Y	Y	---	11
19	<a href="#">126105020</a>	44	NOC:Instrumentation and Process Control in Food Industry	---	Y	---	3.4
20	<a href="#">126105021</a>	60	NOC:Machine Learning for Soil and Crop Management	Y	Y	Y	6.8
21	<a href="#">126103022</a>	65	NOC:Natural Resources Management	---	Y	---	6.8
22	<a href="#">126105022</a>	61	NOC:Advanced Aquaculture Technology	---	Y	---	6.1
23	<a href="#">126105023</a>	60	NOC:Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products	---	Y	---	7.9
24	<a href="#">126105024</a>	60	NOC:Soil Fertility and Fertilizers	---	Y	---	6.0
<b>Discipline : Multi-Disciplinary</b> <a href="#">Go to Top</a>							
<b>Video Lecture Topics @ <a href="http://www.digimat.in/downloads/topics/multi-disciplinary.pdf">http://www.digimat.in/downloads/topics/multi-disciplinary.pdf</a></b>							
1	<a href="#">127106001</a>	83	NOC:Neuroscience of Human Movement	Y	Y	Y	71
2	<a href="#">127106003</a>	76	NOC:Manage TB	Y	Y	Y	40
3	<a href="#">127106004</a>	45	NOC:Ecology and Environment	Y	Y	Y	38
4	<a href="#">127101010</a>	38	NOC:Designing Learner-Centric MOOCs	Y	Y	Y	6.3

5	<a href="#">127105006</a>	42	NOC:Fuzzy Logic and Neural Networks	Y	Y	Y	11
6	<a href="#">127105007</a>	60	NOC:Entrepreneurship Essentials	Y	Y	---	15
7	<a href="#">127105008</a>	39	NOC:Roadmap for Patent Creation	Y	Y	Y	20
8	<a href="#">127106009</a>	13	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India	Y	Y	Y	4.6
9	<a href="#">127106010</a>	11	NOC:Regulatory Requirements for Medical Devices and IVD kits in India	Y	Y	Y	5.8
10	<a href="#">127108005</a>	20	NOC:Teaching and Learning in Engineering (TALE)	Y	Y	Y	3.4
11	<a href="#">127101012</a>	18	NOC:Introduction to Learning Analytics	Y	Y	Y	3.5
12	<a href="#">127101013</a>	33	NOC:Designing Learner-Centric e-Learning in STEM Disciplines	Y	Y	Y	9.3
13	<a href="#">127101014</a>	25	NOC:Sustainable and Affordable Sanitation Solutions for Small Towns: Policy, Planning and Practice	Y	Y	Y	17
14	<a href="#">127105017</a>	41	NOC:Accreditation and Outcome based Learning	---	Y	Y	15
15	<a href="#">127105018</a>	60	NOC:Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts	---	Y	Y	18
16	<a href="#">127106019</a>	113	NOC:Numerical Methods for Engineers	---	Y	---	44
17	<a href="#">127108015</a>	19	NOC:Teaching and Learning in General Programs: TALG	Y	Y	Y	4.7
18	<a href="#">127108016</a>	35	NOC:TALE 2: Course Design and Instruction of Engineering Courses	Y	Y	Y	9.0
19	<a href="#">127106134</a>	22	Basic Course in Biomedical Research	---	Y	Y	6.6
20	<a href="#">127106137</a>	28	NOC:Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs (Version 2.0)	Y	Y	Y	15
21	<a href="#">127108135</a>	62	NOC:NBA Accreditation and Teaching Learning in Engineering (NATE)	Y	Y	Y	14
22	<a href="#">127106136</a>	14	NOC:Regulatory Requirements for Medical Devices including in Vitro Diagnostics in India (Version 2.0)	Y	Y	Y	6.8
23	<a href="#">127106135</a>	89	NOC:Thermodynamics	Y	Y	Y	47
24	<a href="#">106101224</a>	61	NOC:Learning Analytics Tools	Y	Y	Y	10
25	<a href="#">127103225</a>	43	NOC:Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers	Y	Y	Y	5.8
26	<a href="#">127105225</a>	60	NOC:Biophotonics	---	Y	---	6.9
27	<a href="#">127106225</a>	78	NOC:Model Predictive Control: Theory and Applications	---	Y	---	5.6
28	<a href="#">127106227</a>	72	NOC:Research Methodology	Y	Y	Y	7.0
29	<a href="#">127106228</a>	24	NOC:Management of Medical Emergencies in Dental Practice	---	Y	---	1.7
30	<a href="#">127106229</a>	44	NOC:Basic Course in Ornithology	Y	Y	---	4.6
31	<a href="#">127106230</a>	31	NOC:Oral Biology	Y	Y	Y	4.3
32	<a href="#">127105231</a>	60	NOC:Vacuum Technology and Process Application	---	Y	---	12
33	<a href="#">127105232</a>	40	NOC:Basics of Health Promotion and Education Intervention	---	Y	---	3.6
34	<a href="#">127106231</a>	40	NOC:Introduction to Biomimicry	---	Y	---	3.4
35	<a href="#">127106232</a>	20	NOC:Electrocardiogram - Interpretation and Application in Clinical Practice	---	Y	---	1.9

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

1	<a href="#">128106001</a>	103	ACM Summer School on Graph Theory and Graph Algorithms	---	Y	---	105
2	<a href="#">128106002</a>	73	ACM Summer School in Data Science (Goa)	---	Y	---	47
3	<a href="#">128106003</a>	9	Topics in Theoretical Computer Science	---	Y	---	17
4	<a href="#">128106004</a>	20	Researching Anglo-Indians in India and the Diaspora	---	Y	---	13
5	<a href="#">128106005</a>	94	Dravidian Temple Architecture and Construction Techniques	---	Y	---	72
6	<a href="#">128106006</a>	20	ACM Summer School in Data Science (Bangalore)	---	Y	---	49
7	<a href="#">128106007</a>	36	ACM Summer School on Algorithmic Game Theory	---	Y	---	9.3
8	<a href="#">128106008</a>	33	ACM Summer School on Graph Theory and Graph Algorithms	---	Y	---	21
9	<a href="#">128106009</a>	34	ACM Summer School on Compiler Design and Construction	---	Y	---	9.8
10	<a href="#">128106010</a>	38	ACM Summer School on Geometric Algorithms and their Applications	---	Y	---	10
11	<a href="#">128106011</a>	47	ACM Summer School on Algorithmic and Theoretical Aspects of Machine Learning	---	Y	---	12
12	<a href="#">128106012</a>	20	ACM Winter School on Hybrid Cloud	---	Y	---	5.8
13	<a href="#">128106013</a>	29	ACM Indian Summer School on Programming Languages: Principles and Practice	---	Y	---	18
14	<a href="#">128106014</a>	18	ACM Winter School 2019 on High Performance Computing (HPC)	---	Y	---	4.4
15	<a href="#">128106015</a>	6	Thermodynamics of Materials	---	Y	---	0.5
16	<a href="#">128108016</a>	14	ACM India Summer School on IoT and Embedded Systems	---	Y	---	2.1
17	<a href="#">128106017</a>	31	ACM India Summer School on Program Execution	---	Y	---	3.7
18	<a href="#">128106018</a>	55	ACM India Summer School on Programming Language Analysis and Optimizations	---	Y	---	3.6
19	<a href="#">128106019</a>	50	ACM Summer School on Shape Modelling	---	Y	---	3.6

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1	<a href="#">129106001</a>	75	NOC:Right to Information and Good Governance	Y	Y	Y	5.7
2	<a href="#">129106002</a>	59	NOC:Constitution of India and Environmental Governance: Administrative and Adjudicatory Process	Y	Y	Y	6.0
3	<a href="#">129106003</a>	18	NOC:Constitutional Studies	Y	Y	Y	3.8
4	<a href="#">129105004</a>	40	NOC:Introduction to Law on Electricity	---	Y	---	4.9
5	<a href="#">129105005</a>	17	NOC:Legal and Regulatory Issues in Biotechnology	Y	Y	Y	2.4
6	<a href="#">129105006</a>	60	NOC:New Labour Codes of India	---	Y	---	6.8
7	<a href="#">129106006</a>	56	NOC:Advanced Contracts, Tendering and Public Procurement	---	Y	---	4.6

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

1	<a href="#">130106001</a>	65	NOC:Introduction to Econometrics	Y	Y	Y	5.5
2	<a href="#">130106113</a>	72	NOC:Environmental and Resource Economics	Y	Y	Y	5.9
3	<a href="#">130104114</a>	41	NOC:Microfoundations of Macroeconomics	Y	Y	Y	4.3

4	<a href="#">130104115</a>	118	NOC:Introduction to Microeconomics in Hindi and without Calculus	---	Y	---	4.2
5	<a href="#">130104116</a>	60	NOC:Economics of Banking and Finance Markets	---	Y	---	4.5
6	<a href="#">130106115</a>	49	NOC:Spatial Statistics and Spatial Econometrics	---	Y	---	4.8