

JULY & OCTOBER 2018 NPTEL NEW COURSE LIST				
S.No	NOC CourseId	NOC CourseName	NOC Institute	NPTEL CourseId
1	noc18-ae04	Fundamentals of Combustion (Part 2)	IIT Kanpur	101104072
2	noc18-ae07	Design of fixed wing Unmanned Aerial Vehicles	IIT Kanpur	101104073
3	noc18-ae08	Introduction to Finite Volume Methods I	IIT Kanpur	101104074
4	noc18-bt16	Bioengineering: An Interface with Biology and Medicine	IIT Bombay	102101068
5	noc18-bt26	WildLife Conservation	IIT Kanpur	102104068
6	noc18-bt25	Nanotechnology in Agriculture	IIT Kanpur	102104069
7	noc18-bt17	Biomicrofluidics	IIT Kharagpur	102105068
8	noc18-bt22	Computational Systems Biology	IIT Madras	102106068
9	noc18-bt29	Material and Energy Balances	IIT Madras	102106069
10	noc18-bt28	Computer Aided Drug Design	IIT Madras	102106070
11	noc18-ch26	Introduction to Polymer Physics	IIT Guwahati	103103139
12	noc18-ch25	Natural Gas Engineering	IIT Guwahati	103103140
13	noc18-ch21	Optimization in Chemical Engineering	IIT Kharagpur	103105139
14	noc18-ch22	Heat Transfer	IIT Kharagpur	103105140
15	noc18-ph13	Introduction to Polymer Physics	IIT Roorkee	103107139
16	noc18-ee32	Semiconductor Devices and Circuits	IISc Bangalore	103108139
17	noc18-cy14	Inorganic Chemistry of Life: Principles and Perspectives	IIT Bombay	104101093
18	noc18-cy15	Symmetry and Group Theory	IIT Bombay	104101094
19	noc18-cy13	Computational Chemistry and Classical Molecular Dynamics	IIT Bombay	104101095
20	noc18-cy10	Molecules in Motion	IIT Kharagpur	104105093
21	noc18-cy18	Chemical Crystallography	IISER Mohali	104106093
22	noc18-cy20	Advanced Chemical Thermodynamics and Kinetics	IISER Mohali	104106094
23	noc18-ce31	Geosynthetics Testing Laboratory	IIT Bombay	105101176
24	noc18-ce30	Fire Protection, Services and Maintenance Management of Building	IIT Delhi	105102176
25	noc18-ce37	Higher Surveying	IIT Guwahati	105103176
26	noc18-ce38	Unsaturated Soil Mechanics	IIT Guwahati	105103177
27	noc18-ce35	Photogeology In Terrain Evaluation (Part 2)	IIT Kanpur	105104177
28	noc18-ce39	Introduction to Accounting and Finance for Civil Engineers	IIT Kanpur	105104178
29	noc18-ce16	Foundation Engineering	IIT Kharagpur	105105176
30	noc18-ce18	Theory of Elasticity	IIT Kharagpur	105105177
31	noc18-ce26	Wastewater Treatment and Recycling	IIT Kharagpur	105105178
32	noc18-ce36	Fluid Inclusion in Mineral Principles, Methodology, Practice and Application	IIT Kharagpur	105105179
33	noc18-ce19	Matrix Method of Structural Analysis	IIT Kharagpur	105105180
34	noc18-ce21	Advanced Concrete Technology	IIT Madras	105106176
35	noc18-ce27	Glass in buildings : Design and Applications	IIT Madras	105106177
36	noc18-ce41	Glass Processing Technology	IIT Madras	105106178
37	noc18-ce29	Environmental Engineering- Chemical Processes	IIT Roorkee	105107176
38	noc18-cs57	Design and pedagogy of the introductory programming course	IIT Bombay	106101182
39	noc18-cs54	Embedded Systems-Design Verification and Test	IIT Guwahati	106103182
40	noc18-cs50	MultiCore Computer Architecture-Storage and Interconnects	IIT Guwahati	106103183
41	noc18-cs45	Cloud Computing and Distributed Systems	IIT Kanpur	106104182
42	noc18-cs43	Software Engineering	IIT Kharagpur	106105182
43	noc18-cs38	Computer Networks and Internet Protocol	IIT Kharagpur	106105183
44	noc18-cs47	Blockchain Architecture Design and Use Cases	IIT Madras	106105184
45	noc18-cs30	Switching Circuits and Logic Design	IIT Kharagpur	106105185
46	noc18-cs39	Scalable Data Science	IIT Kharagpur	106105186
47	noc18-cs35	The Joy of Computing using Python	IIT Ropar	106106182
48	noc18-cs53	Discrete Mathematics	IIT Ropar	106106183
49	noc18-cs41	Deep Learning	IIT Madras	106106184
50	noc18-de01	System Design for Sustainability	IIT Guwahati	107103081
51	noc18-de02	Product Design and Innovation	IIT Guwahati	107103082
52	noc18-de03	Interaction Design	IIT Guwahati	107103083
53	noc18-ee41	Control systems	IIT Madras	107106081
54	noc18-ee22	Microwave Theory and Techniques	IIT Bombay	108101112
55	noc18-ee27	Principles of Digital Communications	IIT Bombay	108101113
56	noc18-ee45	Analog Electronic Circuit	IIT Delhi	108102112
57	noc18-ee46	Nonlinear and Adaptive Control	IIT Delhi	108102113
58	noc18-ee43	Advanced Topics in Probability and Random Processes	IIT Guwahati	108103112
59	noc18-ee31	Applied Optimization for Wireless, Machine Learning, Big Data	IIT Kanpur	108104112
60	noc18-ee28	Fiber-Optic Communication Systems and Techniques	IIT Kanpur	108104113
61	noc18-ee14	Fundamentals of Electrical Engineering	IIT Kharagpur	108105112
62	noc18-ee33	Digital Circuits	IIT Kharagpur	108105113
63	noc18-ee23	Analysis and Design Principles of Microwave Antennas	IIT Kharagpur	108105114
64	noc18-ee34	Architectural Design of Digital Integrated Circuits	IIT Kharagpur	108105118
65	noc18-ee15	Electrical Distribution System Analysis	IIT Roorkee	108107112
66	noc18-ee42	Introduction to Smart Grid	IIT Roorkee	108107113
67	noc18-ee44	Facts Devices	IIT Roorkee	108107114
68	noc18-ee25	Advanced Linear Continuous Control Systems: Applications with MATLAB Programn	IIT Roorkee	108107115
69	noc18-ph16	Control System Design	IISc Bangalore	108108112
70	noc18-ee17	Recent Advances in Transmission Insulators	IISc Bangalore	108108113
71	noc18-ee36	Fabrication Techniques for MEMs-based sensors: clinical perspective	IISc Bangalore	108108114
72	noc18-ee37	Op-Amp Practical Applications: Design, Simulation and Implementation	IISc Bangalore	108108115

73	noc18-ee38	Physical Modelling for Electronics Enclosures using Rapid prototyping	IISc Bangalore	108108116
74	noc18-hs40	Introduction to Modern Indian Political Thought	IIT Guwahati	109103135
75	noc18-hs43	Consumer Psychology	IIT Guwahati	109103136
76	noc18-hs31	Introduction to Literary Theory	IIT Kanpur	109104135
77	noc18-hs37	Development of Sociology in India	IIT Kanpur	109104136
78	noc18-hs35	Introduction to Basic Spoken Sanskrit	IIT Kharagpur	109105135
79	noc18-hs36	Water, Society and Sustainability	IIT Kharagpur	109105136
80	noc18-hs33	Indian Fiction in English	IIT Madras	109106135
81	noc18-hs39	Introduction to Cultural Studies	IIT Madras	109106136
82	noc18-hs45	Intellectual Property	IIT Madras	109106137
83	noc18-hs46	Short Fiction in Indian Literature	IIT Madras	109106138
84	noc18-mg21	Economic Growth and Development	IIT Guwahati	110103093
85	noc18-mg22	Microeconomics: Theory & Applications	IIT Kanpur	110104093
86	noc18-mg33	Data Analysis and Decision Making - I	IIT Kanpur	110104094
87	noc18-mg23	Economics of Health and Health Care	IIT Kanpur	110104095
88	noc18-mg37	Simulation of Business Systems: An Applied Approach	IIT Kanpur	110104096
89	noc18-mg24	Engineering Econometrics	IIT Kharagpur	110105093
90	noc18-mg42	Industrial Safety Engineering	IIT Kharagpur	110105094
91	noc18-mg43	Management of Inventory Systems	IIT Kharagpur	110105095
92	noc18-mg32	Selected Topics in Decision Modeling	IIT Kharagpur	110105096
93	noc18-mg25	Ethics in Engineering Practice	IIT Kharagpur	110105097
94	noc18-mg40	Working Capital Management	IIT Roorkee	110107093
95	noc18-mg36	Innovation, Business Models and Entrepreneurship	IIT Roorkee	110107094
96	noc18-mg34	Business Analytics & Data Mining Modeling Using R-PART II	IIT Roorkee	110107095
97	noc18-ma19	Introduction to Probability Theory and Stochastic Processes	IIT Delhi	111102111
98	noc18-ma22	Statistical Inference	IIT Delhi	111102112
99	noc18-ma13	Matrix Solver	IIT Kharagpur	111105111
100	noc18-ma16	Introduction to Abstract and Linear Algebra	IIT Kharagpur	111105112
101	noc18-ma12	Transform Techniques for Engineers	IIT Madras	111106111
102	noc18-ma07	Introduction to probability and Statistics	IIT Madras	111106112
103	noc18-ma15	Introduction to Abstract Group Theory	CMI	111106113
104	noc18-ma21	Groups : Motion, symmetry and puzzles	IISER Mohali	111106114
105	noc18-ma10	Ordinary and Partial Differential Equations and Applications	IIT Roorkee	111107111
106	noc18-ma14	Matrix Analysis with Applications	IIT Roorkee	111107112
107	noc18-ma18	Mathematical Modelling: Analysis and Applications	IIT Roorkee	111107113
108	noc18-me42	RAC Product Design	IIT Delhi	112102248
109	noc18-me56	Mechanics of Machining	IIT Guwahati	112103248
110	noc18-me64	Principles of Hydraulic Machines and System Design	IIT Guwahati	112103249
111	noc18-me70	Introduction to Abrasive Machining and Finishing Processes	IIT Guwahati	112103250
112	noc18-me65	Theory of Rectangular Plates -Part1	IIT Guwahati	112103251
113	noc18-mm20	Phase Equilibria in Materials (Nature & Properties of Materials-II)	IIT Kanpur	112104248
114	noc18-me58	Advanced Composites	IIT Kanpur	112104249
115	noc18-me62	Engineering Metrology	IIT Kanpur	112104250
116	noc18-me60	Smart Materials and Intelligent System Design	IIT Kanpur	112104251
117	noc18-me69	Design Practice - II	IIT Kanpur	112104252
118	noc18-me43	Heat Exchangers: Fundamentals and Design Analysis	IIT Kharagpur	112105248
119	noc18-me61	Robotics	IIT Kharagpur	112105249
120	noc18-me55	Mechanics of Human Movement	IIT Madras	112106248
121	noc18-me53	Design for Quality, Manufacturing and Assembly	IIT Madras	112106249
122	noc18-me67	Surrogates and Approximations in Engineering Design	IIT Madras	112106250
123	noc18-me66	Fundamentals of Surface Engineering: Mechanisms,Processes and Characterization	IIT Roorkee	112107248
124	noc18-me68	Work System Design	IIT Roorkee	112107249
125	noc18-me49	Principles of Metal Forming Technology	IIT Roorkee	112107250
126	noc18-mm11	Defects in Crystalline Solids (Part-I)	IIT Kanpur	113104081
127	noc18-mm14	Corrosion - Part I	IIT Kanpur	113104082
128	noc18-mm12	Advanced Materials and Processes	IIT Kharagpur	113105081
129	noc18-mm18	Elementary Stereology for Quantitative Metallography	IIT Madras	113106081
130	noc18-mm21	Welding of Advanced High Strength Steels for Automotive Applications	IIT Madras	113106082
131	noc18-mm13	Structural Analysis of Nanomaterials	IIT Roorkee	113107081
132	noc18-oe05	Structural Health Monitoring	IIT Madras	114106046
133	noc18-ph11	Theory of groups for physics applications	IIT Bombay	115101104
134	noc18-ph14	Advanced Quantum Mechanics with Applications	IIT Guwahati	115103104
135	noc18-ph09	Modern Optics	IIT Kharagpur	115105104
136	noc18-ph10	Introduction to Non-linear Optics and its Applications	IIT Kharagpur	115105105
137	noc18-ph15	Upstream LNG Technology	IIT Kharagpur	115105106
138	noc18-ch24	Infra Red Spectroscopy for Pollution Monitoring	IISc Bangalore	115108104
139	noc18-de05	Science of Clothing Comfort	IIT Delhi	116102047
140	noc18-de04	Yarn manufacture I : Principle of Carding and Drawing	IIT Delhi	116102048
141	noc18-ge14	Non-Conventional Energy Resources	IIT Madras	121106014
142	noc18-mm19	Drilling and Blasting Technology	IIT Kharagpur	123105003
143	noc18-ar11	Architectural Acoustics	IIT Kharagpur	124105004
144	noc18-ar13	Culturally Responsive Built Environments	IIT Roorkee	124107004
145	noc18-ar14	Contemporary Architecture and Design	IIT Roorkee	124107005
146	noc18-ar15	Role of Craft and Technology in Interior - Architecture	IIT Roorkee	124107006

147	noc18-ar05	Farm Machinery	IIT Kharagpur	126105009
148	noc18-ar07	Irrigation and Drainage	IIT Kharagpur	126105010
149	noc18-ar08	Fundamentals of Food Process Engineering	IIT Kharagpur	126105011
150	noc18-ar09	Soil and Water Conservation Engineering	IIT Kharagpur	126105012
151	noc18-ar10	Dairy and Food process and products technology	IIT Kharagpur	126105013
152	noc18-ar06	Organic Farming for Sustainable Agricultural Production	IIT Kharagpur	126105014
153	noc18-ge13	Neuroscience of Human Movement	IIT Madras	127106001
154	noc18-ge10	Manage TB	ICMR-NIRT	127106003
155	noc18-ge16	Ecology and Environment	IIT Madras	127106004