

**LIST OF ONLINE CERTIFICATION COURSES: JULY – NOVEMBER 2017 (TENTATIVE)**

**NOTE:**

- The List of courses provided here is tentative. Final List will be published shortly. Please await further announcements.
- For Enrolling to the courses: visit <https://onlinecourses.nptel.ac.in/explorer>)
- Enrollments are open for 131 courses, we will open the remaining courses shortly

Type of course	Number of weeks	Start date of course	End date of course	Enrolment Start Date	Last Date for enrolment	Exam date (We will have 2 shifts per date)
10hrs	4 (July-Aug)	24 July 2017	18 August 2017	30 May 2017	24 July 2017	24 Sep 2017
20hrs	8 (July-Sep)	24 July 2017	15 September 2017	30 May 2017	24 July 2017	24 Sep 2017
30hrs	12 (July-Oct)	24 July 2017	13 October 2017	30 May 2017	24 July 2017	22 Oct 2017
10hrs	4 (Aug-Sep)	21 Aug 2017	15 Sep 2017	30 May 2017	21 Aug 2017	22 Oct 2017
20hrs	8 (Aug-Oct)	21 Aug 2017	13 Oct 2017	30 May 2017	21 Aug 2017	22 Oct 2017

**TENTATIVE COURSE LIST:**

S.NO	Discipline	Course name	Instructor	Institute	Duration	Type of course	Timeline
1	Aerospace engineering	Gas dynamics	Prof. Sameen. A	IITM	12 weeks	Rerun	JULY-OCT 2017
2	Aerospace engineering	Engineering Thermodynamics	Prof. D. P. Mishra	IITK	12 weeks	Rerun	JULY-OCT 2017
3	Aerospace engineering	Combustion in air breathing aero engines	Prof. Swetaprovo Chaudhuri	IISc	12 weeks	New	JULY-OCT 2017
4	Aerospace engineering	Aircraft Design	Prof. A.K.Ghosh	IITK	12 weeks	New	JULY-OCT 2017
5	Aerospace engineering	Aircraft Stability and Control	Prof. A.K.Ghosh	IITK	12 weeks	Rerun	JULY-OCT 2017
6	Agriculture & Food Engineering	Momentum transfer in process engineering	Prof. Tridib Kumar Goswami	IITKGP	12 weeks	New	JULY-OCT 2017
7	Architecture & planning	Principal and Applications Of Building Science	Prof. E. Rajasekar	IITR	4 weeks	Rerun	JULY-AUG 2017
8	Biological sciences & Biotechnology	Biostatistics and design of experiments	Prof. Mukesh Doble	IITM	8 weeks	Rerun	JULY-SEP 2017
9	Biological sciences & Biotechnology	Biomedical nanotechnology	Prof. P.Gopinath	IITR	4 weeks	New	JULY-AUG 2017
10	Biological sciences & Biotechnology	Introduction to mechanobiology	Prof. Shamik Sen	IITB	8weeks	New	AUG-OCT 2017
11	Biological sciences & Biotechnology	Animal Physiology	Prof. Mainak Das	IITK	12 weeks	New	JULY-OCT 2017
12	Biological sciences & Biotechnology	Cell Culture Technologies	Prof. Mainak Das	IITK	8 weeks	New	AUG-OCT 2017
13	Biological sciences & Biotechnology	Forest Biometry	Dr. Ankur Awadhiya & Prof. Mainak Das	IITK	8 weeks	New	AUG-OCT 2017
14	Biological sciences & Biotechnology	Industrial Biotechnology	Prof. Debabrata Das	IITKGP	12 weeks	New	JULY-OCT 2017
15	Chemical engineering	Trace and ultra-trace analysis of metals using atomic absorption spectrometry	Prof. J. R. Mudakavi	IISc	8 weeks	New	JULY-SEP 2017
16	Chemical engineering	Introduction to evolutionary dynamics	Prof. Supreet Saini	IITB	8 weeks	New	JULY-SEP 2017
17	Chemical engineering	Phase equilibrium thermodynamics	Prof. Gargi Das	IITKGP	8 weeks	New	JULY-SEP 2017
18	Chemical engineering	Transport phenomena	Prof. Sunando Dasgupta	IITKGP	12 weeks	New	JULY-OCT 2017

19	Chemical engineering	Unit operations of particulate matter	Prof. Shabina Khanam	IITR	4 weeks	New	JULY-AUG 2017
20	Chemistry and biochemistry	Basics of Fluorescence Spectroscopy	Prof. Pratik Sen	IITK	8 weeks	New	JULY-SEP 2017
21	Chemistry and biochemistry	Laser: Fundamentals and Applications	Prof. Manabendra Chandra	IITK	8 weeks	New	AUG-OCT 2017
22	Chemistry and biochemistry	Chemical and biological thermodynamics: principles to applications	Prof. Nand Kishore	IITB	12 weeks	New	JULY-OCT 2017
23	Chemistry and biochemistry	Analytical chemistry	Prof. Debashis Ray	IITKGP	12 weeks	New	JULY-OCT 2017
24	Chemistry and biochemistry	Co-ordination chemistry (chemistry of transition elements)	Prof. Debashis Ray	IITKGP	12 weeks	Repurposed	JULY-OCT 2017
25	Chemistry and biochemistry	Stereochemistry	Prof. Amit Basak	IITKGP	8 weeks	New	JULY-SEP 2017
26	Chemistry	Advanced Mathematical Methods for Chemistry	Prof. Madhav Ranganathan	IITK	12 weeks	New	JULY-OCT 2017
27	Civil engineering	Project planning and control	Prof. Koshy Varghese	IITM	8 weeks	Rerun	JULY-SEP 2017
28	Civil engineering	Geotechnical engineering laboratory	Prof. J. N. Mandal	IITB	4 weeks	New	JULY-AUG 2017
29	Civil engineering	Mechanics of Solids	Prof. Priyanka Ghosh	IITK	12 weeks	New	JULY-OCT 2017
30	Civil engineering	Principles of Construction Management	Prof. Sudhir Misra	IITK	8 weeks	New	AUG-OCT 2017
31	Civil engineering	Foundation Design	Prof. N.R. Patra	IITK	12 weeks	New	JULY-OCT 2017
32	Civil engineering	Integrated Waste Management for a Smart City	Prof. Brajesh Kumar Dubey	IITKGP	12 weeks	New	JULY-OCT 2017
33	Civil engineering	Computational hydraulics	Prof. Anirban Dhar	IITKGP	12 weeks	New	JULY-OCT 2017
34	Civil engineering	Design of steel structures	Prof. Damodar Maiti	IITKGP	12 weeks	New	JULY-OCT 2017
35	Civil engineering	Strength of materials	Prof. Sriman Kumar Bhattacharya	IITKGP	12 weeks	Repurposed	JULY-OCT 2017
36	Civil engineering	Design of reinforced concrete structures	Prof. Nirjhar Dhang	IITKGP	12 weeks	Repurposed	JULY-OCT 2017
37	Civil engineering	Concrete bridges	Prof. Nirjhar Dhang	IITKGP	4 weeks	New	JULY-AUG 2017
38	Civil engineering	Structural analysis i	Prof. Amit Shaw	IITKGP	12 weeks	New	JULY-OCT 2017

39	Earth science	Digital Image Processing of Remote Sensing Data	Prof. Arun K. Saraf	IITR	4 weeks	New	JULY-AUG 2017
40	Computer science and engineering	Computer architecture and organization	Prof.Indranil Sengupta & Prof. Kamalika Datta	IITKGP	12 weeks	New	JULY-OCT 2017
41	Computer science and engineering	An introduction to algorithm and analysis	Prof. Sourav Mukhopadhyay	IITKGP	12 weeks	New	JULY-OCT 2017
42	Computer science and engineering	Hardware modeling using verilog	Prof. Indranil Sengupta	IITKGP	8 weeks	New	AUG-OCT 2017
43	Computer science and engineering	Introduction to internet of things	Prof. Sudip Misra	IITKGP	12 weeks	New	JULY-OCT 2017
44	Computer science and engineering	Cloud computing	Prof. Soumya Kanti Ghosh	IITKGP	8 weeks	New	AUG-OCT 2017
45	Computer science and engineering	Programming in C++	Prof. Partha Pratim Das	IITKGP	8 weeks	Rerun	JULY-SEP 2017
46	Computer science and engineering	Object oriented analysis and design	Prof. Partha Pratim Das	IITKGP	8 weeks	Rerun	JULY-SEP 2017
47	Computer science and engineering	Machine Learning	Prof. Sudeshna Sarkar	IITKGP	8 weeks	Rerun	JULY-SEP 2017
48	Computer science and engineering	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	8 weeks	Rerun	JULY-SEP 2017
49	Computer science and engineering	Programming, data structures and algorithms using python	Prof. Madhavan Mukund	CMI	8 weeks	Rerun	JULY-SEP 2017
50	Computer science and engineering	Introduction to operating systems	Prof. Chester Robeiro	IITM	8 weeks	Rerun	JULY-SEP 2017
51	Computer science and engineering	Ai: search methods for problem solving	Prof. Deepak Khemani	IITM	12 weeks	Rerun	JULY-OCT 2017
52	Computer science and engineering	Privacy and Security in Online Social Media	Prof. Ponnurangam.K	IIITD	12 weeks(20 hrs)	Rerun	JULY-OCT 2017
53	Computer science and engineering	Software testing	Prof. Meenakshi D'souza	IIITB	12 weeks	New	JULY-OCT 2017
54	Computer science and engineering	Fundamentals of Database Systems	Prof. Arnab Bhattacharya	IITK	8 weeks	Rerun	JULY -SEP 2017
55	Computer science and engineering	Modern Compilers - Theory and Practice	Prof. V. Krishna Nandivada	IITM	12 Weeks	New	JULY-OCT 2017

56	Computer science and engineering	Theory of Computation	Prof. Raghunath Tewari	IITK	8 weeks	Rerun	JULY -SEP 2017
57	Computer science and engineering	Computer Organization	Prof. Kamakoti	IITM	12 weeks	New	JULY-OCT 2017
58	Computer science and engineering	Introduction To Cryptology	Prof. S. Gangopadhay	IITR	4 weeks	Rerun	JULY-AUG 2017
59	Electrical /Electronics/Communications Engg	Introduction to Wireless and Cellular Communications	Prof. David Kovil Pillai	IITM	12 weeks	New	JULY-OCT 2017
60	Computer science and engineering	Model Checking	Prof. B.Srivathsan	CMI	12 weeks	Rerun	JULY-OCT 2017
61	Electrical /Electronics/Communications Engg	Optimal control	Prof. Barjeev Tyagi	IITR	8 weeks	New	JULY-SEP 2017
62	Electrical /Electronics/Communications Engg	Controls engineering	Prof. Ramkrishna.P	IITM	12 weeks	New	JULY-OCT 2017
63	Electrical /Electronics/Communications Engg	Basic electrical circuits	Prof. Nagendra Krishnapura	IITM	12 weeks	Rerun	JULY-OCT 2017
64	Electrical /Electronics/Communications Engg	Analog circuits	Prof. Nagendra Krishnapura	IITM	12 weeks	Rerun	JULY-OCT 2017
65	Electrical /Electronics/Communications Engg	Networks and systems	Prof. Andrew Thangaraj and Prof.C.S.Ramalingam	IITM	12 weeks	Rerun	JULY-OCT 2017
66	Electrical /Electronics/Communications Engg	Microwave integrated circuits	Prof. Jayanta Mukherjee	IITB	8 weeks	Rerun	JULY-SEP 2017
67	Electrical /Electronics/Communications Engg	Principles of Communication Systems: Part - II	Prof. Aditya K. Jagannatham	IITK	8 weeks	New	JULY-SEP 2017
68	Electrical /Electronics/Communications Engg	Applied Electromagnetics for Engineers	Prof. Pradeep Kumar	IITK	12 weeks	New	JULY-OCT 2017

69	Electrical /Electronics/Communications Engg	Estimation for Wireless Communications – MIMO/OFDM Cellular and Sensor Networks	Prof. Aditya K. Jagannatham	IITK	8 weeks	Rerun	JULY -SEP 2017
70	Electrical /Electronics/Communications Engg	Design for internet of things	Prof. T V Prabhakar	IISc	8 weeks	New	JULY-SEP 2017
71	High Voltage Engg, (Electrical Engg)	Advances in UHV Transmission and Distribution	Prof Subba Reddy B	IISc	8 Weeks	New	JULY-SEP 2017
72	Electrical /Electronics/Communications Engg	Computational Electromagnetics & Applications	Prof. Dr. Krish Sankaran	IITM	12 weeks	Rerun	JULY-OCT 2017
73	Electrical /Electronics/Communications Engg	Enclosure design of electronics equipment	Prof. N. V Chalapathi Rao	IISc	12 weeks	New	JULY-OCT 2017
74	Electrical /Electronics/Communications Engg	Design of photovoltaic systems	Prof. L Umanand	IISc	12 weeks	New	JULY-OCT 2017
75	Electrical /Electronics/Communications Engg	Photonic integrated circuits	Prof. T. Srinivas	IISc	4 weeks	New	JULY-AUG 2017
76	Electrical /Electronics/Communications Engg	Power system analysis	Prof. Debapriya Das	IITKGP	12 weeks	New	JULY-OCT 2017
77	Electrical /Electronics/Communications Engg	Industrial instrumentation	Prof. Alok Barua	IITKGP	12 weeks	Repurposed	JULY-OCT 2017
78	Electrical /Electronics/Communications Engg	Electrical machines - i	Prof. D Kastha	IITKGP	12 weeks	Repurposed	JULY-OCT 2017
79	Electrical /Electronics/Communications Engg	Analog communication	Prof. Goutam Das	IITKGP	12 weeks	New	JULY-OCT 2017
80	Electrical /Electronics/Communications Engg	Modern digital communication techniques	Prof. Suvra Sekhar Das	IITKGP	12 weeks	New	JULY-OCT 2017

81	Electrical /Electronics/Communications Engg	Digital speech processing	Prof. Shyamal Kumar Das Mandal	IITKGP	8 weeks	New	AUG-OCT 2017
82	Electrical /Electronics/Communications Engg	Satellite communication	Prof. Kalyan Kumar Bandyopadhyay	IITKGP	8 weeks	Rerun	JULY-SEP 2017
83	Electrical /Electronics/Communications Engg	Analog Circuits and Systems through SPICE Simulation	Prof. Mrigank Sharad	IITKGP	8 weeks	New	JULY-SEP 2017
84	Electrical /Electronics/Communications Engg	An Introduction to Information Theory	Prof. Adrish Banerjee	IITK	8 weeks	Rerun	JULY-SEP 2017
85	Humanities and Social Sciences	Soft skills	Prof. Binod Mishra	IITR	12 weeks	New	JULY-OCT 2017
86	Humanities and Social Sciences	Technical english for engineers	Prof. Aysha Iqbal	IITM	8 weeks	Rerun	JULY-SEP 2017
87	Humanities and Social Sciences	Literature for competitive exams	Prof. Aysha Iqbal	IITM	8 weeks	New	JULY-SEP 2017
88	Humanities and Social Sciences	Applied linguistics	Prof. Rajesh Kumar	IITM	12 weeks	Rerun	JULY-OCT 2017
89	Humanities and Social Sciences	Cognition, Transformation and Lives	Dr. Alok Bajpai	IITK	4 weeks	New	JULY-AUG 2017
90	Humanities and Social Sciences	Visual Perception and Art: A Survey Across the Cultures	Prof. Soumik Nandy Majumdar	IITK	4 weeks	New	JULY-AUG 2017
91	Humanities and Social Sciences	Introduction to Basic Cognitive Processes	Prof. ARK Verma	IITK	8 weeks	New	JULY-SEP 2017
92	Humanities and Social Sciences	Calculus of One Real Variable	Prof. Joydeep Dutta	IITK	8 weeks	New	AUG-OCT 2017
93	Humanities and Social Sciences	Science, Technology and Society	Prof. Sambit Mallick	IITG	12 weeks	New	JULY-OCT 2017
94	Humanities and Social Sciences	Gender and Literature	Prof. Avishek Parui	IITG	8 weeks	New	JULY-SEP 2017
95	Humanities and Social Sciences	Ecology and Society	Prof. Ngamjahao Kipgen	IITG	12 weeks	New	JULY-OCT 2017

96	Humanities and Social Sciences	History of English Language and Literature	Prof. Merin Simi Raj	IITM	12 weeks	New	JULY-OCT 2017
97	Humanities and Social Sciences	Introduction to Psychology	Prof. Braj Bhushan	IITK	8 weeks	Rerun	JULY -SEP 2017
98	Humanities and Social Sciences	Developing Soft Skills and Personality	Prof. T. Ravichandran	IITK	8 weeks	Rerun	JULY-SEP 2017
99	Humanities and Social Sciences	Human resource development	Prof. KBL Srivastava	IITKGP	12 weeks	New	JULY-OCT 2017
100	Humanities and Social Sciences	Educational leadership	Prof. Atasi Mohanty	IITKGP	8 weeks	New	JULY-SEP 2017
101	Management	Operations and supply chain management	Prof. G.srinivasan	IITM	12 weeks	Repurposed	JULY-OCT 2017
102	Management	Patent Law for Engineers and Scientists	Prof. Feroze Ali	IITM	12 weeks	New	JULY-OCT 2017
103	Management	Marketing research and analysis	Prof. J.K.Nayak	IITR	8 weeks	New	JULY-SEP 2017
104	Management	Project management for managers	Prof. Mukesh Kumar Barua	IITR	12 weeks	New	JULY-OCT 2017
105	Management	Total Quality Management - I	Prof. Raghu Nandan Sengupta	IITK	8 weeks	New	AUG-OCT 2017
106	Management	Gender justice and workplace security	Prof. Dipa Dube	IITKGP	4 weeks	New	JULY-AUG 2017
107	Management	Corporate social responsibility	Prof. Aradhna Malik	IITKGP	8 weeks	New	JULY-SEP 2017
108	Management	Decision modeling	Prof. Biswajit Mohanty	IITKGP	8 weeks	New	JULY-SEP 2017
109	Management	E-business	Prof. Mamata Jenamani	IITKGP	12 weeks	New	JULY-OCT 2017
110	Management	Six sigma	Prof. Jitesh J Thakkar	IITKGP	12 weeks	Rerun	JULY-OCT 2017
111	Management	Introduction to Data Analytics	Prof. Nandan Sudarsanam Prof. Balaraman Ravindran	IITM	8 weeks	Rerun	JULY-SEP 2017
112	Mathematics	Differential equations	Prof. Srinivasa Manam	IITM	12 weeks	New	JULY-OCT 2017
113	Mathematics	Integral equations, calculus of variations and its applications	Prof. P. N Agarwal Prof.D. N Pandey	IITR	12 weeks	New	JULY-OCT 2017
114	Mathematics	Nonlinear programming	Prof. S. K Gupta	IITR	4 weeks	New	JULY-AUG 2017
115	Mathematics	Numerical methods	Prof. Aameeya Kumar Nayak,Prof. Sanjeev Kumar	IITR	8 weeks	New	JULY-SEP 2017

116	Mathematics	Measure theory	Prof. Inder Kumar Rana	IITB	12 weeks	New	JULY-OCT 2017
117	Mathematics	Numerical Analysis	Prof. R. Usha	IITM	12 weeks	New	JULY-OCT 2017
118	Mathematics	Introduction to R Software	Prof. Shalabh	IITK	8 weeks	New	JULY-SEP 2017
119	Mathematics	Constrained and unconstrained optimization	Prof. A Goswami & Prof. Debjani Chakraborty	IITKGP	12 weeks	New	JULY-OCT 2017
120	Mathematics	Graph Theory	Prof. Soumen Maity	IISER PUNE	8 weeks	New	AUG-OCT 2017
121	Mathematics	Regression analysis	Prof. Soumen Maity	IISER PUNE	12 weeks	Rerun	JULY-OCT 2017
122	Mechanical / Industrial/ Materials science and engineering	Iron making	Prof. Govind S. Gupta	IISc	8 Week	New	JULY-SEP 2017
123	Mechanical / Industrial/ Materials science and engineering	Heat Treatment and Surface Hardening - II	Prof. Kallol Mondal & Sandeep Sangal	IITK	8 weeks	New	AUG-OCT 2017
124	Mechanical / Industrial/ Materials science and engineering	Phase Transformation in Materials	Prof. Krishanu Biswas	IITK	12 weeks	New	JULY-OCT 2017
125	Mechanical / Industrial/ Materials science and engineering	Fundamentals of manufacturing processes	Prof. D K Dwivedi	IITR	12 weeks	New	JULY-OCT 2017
126	Mechanical / Industrial/ Materials science and engineering	Fluid dynamics and turbomachines	Prof. Dhiman Chatterjee and Prof. Shamit Bakshi	IITM	8 weeks	Rerun	JULY-SEP 2017
127	Mechanical / Industrial/ Materials science and engineering	Engineering fracture mechanics	Prof. K. Ramesh	IITM	12 weeks	Repurposed	JULY-OCT 2017
128	Mechanical / Industrial/ Materials science and engineering	Foundation of computational fluid dynamics	Prof. S. Vengadesan	IITM	8 weeks	Rerun	JULY-SEP 2017
129	Mechanical / Industrial/ Materials science and engineering	Micro and nano scale energy transport	Prof. Arvind Pattamatta	IITM	12 weeks	New	JULY-OCT 2017

130	Mechanical / Industrial/ Materials science and engineering	Manufacturing of Composites	Prof. J. Ramkumar	IITK	8 weeks	New	JULY-SEP 2017
131	Mechanical / Industrial/ Materials science and engineering	Ergonomics	Prof. Shantanu Bhattacharya & A. Gupta	IITK	8 weeks	New	JULY-SEP 2017
132	Mechanical / Industrial/ Materials science and engineering	Nature and Properties of Materials	Prof. Bishakh Bhattacharya	IITK	8 weeks	Rerun	JULY -SEP 2017
133	Mechanical / Industrial/ Materials science and engineering	Mathematical Methods in Engineering and Science	Prof. Bhaskar Dasgupta	IITK	12 weeks	Repurposed	JULY-OCT 2017
134	Mechanical / Industrial/ Materials science and engineering	Electron diffraction and imaging	Prof. Sundararaman M	IITM	12 weeks	New	JULY-OCT 2017
135	Mechanical / Industrial/ Materials science and engineering	Mechatronics systems	Prof. Manivannan.P.V	IITM	8 weeks	New	JULY-SEP 2017
136	Mechanical / Industrial/ Materials science and engineering	Acoustic and Noise Control	Prof. Abijith Sarkar	IITM	12 weeks	New	JULY-OCT 2017
137	Mechanical / Industrial/ Materials science and engineering	Manufacturing Systems and Sustainability:An Applied Approach	Prof. Deepu Philip	IITK	8 weeks	New	AUG-OCT 2017
138	Mechanical/ Chemical Engineering	Convective Heat Transfer	Prof. Saptarshi Basu	IISc	12 Weeks	New	JULY-OCT 2017
139	Mechanical / Industrial/ Materials science and engineering	Modelling and simulation of discrete event system	Prof. P. Kumar Jha	IITR	8 weeks	New	JULY-SEP 2017
140	Mechanical / Industrial/ Materials science and engineering	Processing of Polymers and Polymer Composites	Prof. Inderdeep Singh	IITR	8 weeks	New	JULY-SEP 2017
141	Mechanical / Industrial/ Materials science and engineering	Fundamentals of Material Processing - I	Prof. Shashank Shekhar	IITK	8 weeks	Rerun	JULY -SEP 2017

142	Mechanical / Industrial/ Materials science and engineering	Steel Quality : Role of Secondary Refining & Continuous Casting	Prof. Santanu Kr. Ray	IITM	8 weeks	New	AUG-OCT 2017
143	Mechanical / Industrial/ Materials science and engineering	X-ray Crystallography & Diffraction	Prof. Ranjit Kumar Ray	IEST Shibpur	12 weeks	New	JULY-OCT 2017
144	Mechanical / Industrial/ Materials science and engineering	Noise Management & Control	Prof. Nachiketa Tiwari	IITK	12 weeks	New	JULY-OCT 2017
145	Mechanical / Industrial/ Materials science and engineering	Manufacturing System Technology Part 1 & 2	Prof. Shantanu Bhattacharya	IITK	12 weeks	Rerun	JULY-OCT 2017
146	Mechanical / Industrial/ Materials science and engineering	Refrigeration And Air-conditioner	Prof. Ravi Kumar	IITR	8 weeks	Rerun	JULY-SEP 2017
147	Mechanical / Industrial/ Materials science and engineering	Spur and helical gear cutting	Prof. Asimava Roychoudhury	IITKGP	4 weeks	New	JULY-AUG 2017
148	Mechanical / Industrial/ Materials science and engineering	Laws of thermodynamics	Prof. S.K Som & Prof.Suman Chakraborty	IITKGP	4 weeks	New	JULY-AUG 2017
149	Mechanical / Industrial/ Materials science and engineering	Energy conservation and waste heat recovery	Prof. PK Das & Prof. A Bhattacharya	IITKGP	12 weeks	New	JULY-OCT 2017
150	Multidisciplinary	Biology for engineers and other non- biologists	Prof. G.K.Suraishkumar/ Prof.Madhulika Dixit	IITM	4 weeks	Rerun	JULY-AUG 2017
151	Multidisciplinary	Introduction to research	Prof. Prathap Haridoss	IITM	8 weeks	Rerun	JULY-SEP 2017
152	Multidisciplinary	Health research fundamentals	Multi Faculty	NIE	8 weeks	Rerun	JULY-SEP 2017
153	Multidisciplinary	Outcome based pedagogic principles for effective teaching	Prof. Shyamal Kumar Das Mandal	IITKGP	4 weeks	Rerun	JULY-AUG 2017
154	Physics	Quantum Information and Computing	Prof. Dipan Ghosh	IITB	8 weeks	Rerun	JULY-SEP 2017
155	Physics	Mathematics methods in Physics-I	Prof. Samudra Roy	IITKGP	12 weeks	New	JULY-OCT 2017

156	Physics	Classical mechanics: from newtonian to lagrangian formulation	Prof. Debamalya Banerjee	IITKGP	12 weeks	New	JULY-OCT 2017
157	Physics	Solid state physics	Prof. Amal Kumar Das	IITKGP	12 weeks	New	JULY-OCT 2017