NAAC Criteria 1

NAAC Criteria -1.2: Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. where the students of the institution have benefitted during the last five years)

Year 1: AY 2022-23		
Sr. No.	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Duration of course
1	Process Equipment Design	12 weeks
2	Advanced Concrete Technology	12 weeks
3	Advanced design of steel structures	12 weeks
4	Bridge Engineering	12 weeks
5	Building Materials and Composites	12 weeks
6	Design of connections in steel structures	12 weeks
7	Design of Reinforced Concrete Structures	12 weeks
8	Design of Steel Structures	12 weeks
9	Earth Sciences for Civil Engineering Part - I & II	12 weeks
10	Fluid Mechanics	12 weeks
11	Foundation Engineering	12 weeks
12	Geometric Design of Highways	12 weeks
13	Geotechnical Engineering Laboratory	12 weeks
14	Geotechnical Engineering-II	12 weeks
15	GPS Surveying	12 weeks
16	Introduction to Multimodal Urban Transportation Systems (MUTS)	12 weeks
17	Introduction to Urban Planning	12 weeks
18	Mechanics Of Materials	12 weeks
19	Modern Indian Architecture	8 weeks
20	Principles of Construction Management	8 weeks
21	Problem Solving Through Programming In C	12 weeks
22	Programming In Java	12 weeks
23	Project Management	8 weeks
24	Project management for managers	12 weeks
25	Project Planning & Control	12 weeks

26	Remote Sensing and GIS	12 weeks
27	Soil Mechanics/Geotechnical Engineering I	12 weeks
28	Strength of Materials	12 weeks
29	Advanced Foundation Engineering	12 weeks
30	Air pollution and Control	12 weeks
31	An Introduction to Artificial Intelligence	12 weeks
32	Analysis and Design of Bituminous Pavements	12 weeks
33	Basic Calculus - 1	12 weeks
34	Basic construction materials	12 weeks
35	Biological process design for wastewater treatment	12 weeks
36	Concrete Technology	12 weeks
37	Engineering Mechanics - Statics and Dynamics	12 weeks
38	English Language for Competitive Exams	12 weeks
39	Finite Element Method	12 weeks
40	Foundation of Cloud IoT Edge ML	12 weeks
41	Fuzzy Logic and Neural Networks	12 weeks
42	Geographic Information Systems	12 weeks
43	Learning English in Hindi	12 weeks
44	Nature and Properties of Materials	12 weeks
45	Optimisation for Machine Learning: Theory and Implementation (Hindi)	12 weeks
46	Python for Data Science	12 weeks
47	Remote Sensing: Principles and Applications	12 weeks
48	Strategies for Sustainable Design	12 weeks
49	Structural Analysis-I	12 weeks
50	Ethical Hacking	12 weeks
51	Data Structure And Algorithms Using Java	12 weeks
52	AI:Constraint Satisfaction	8 weeks
53	Algebra - II	8 weeks
54	Applied Accelerated Artificial Intelligence	8 weeks
55	An Introduction To Coding Theory	8 weeks
56	Blockchain and its Applications	8 weeks
57	Basic Calculus - 1	8 weeks
58	C Programming And Assembly Language	8 weeks
59	Cloud computing	8 weeks
60	Compiler Design	8 weeks
61	Computational Neuroscience	8 weeks

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62	Data Analytics with Python	8 weeks
63	Computer Networks and Internet Protocol	8 weeks
64	Computer Architecture	8 weeks
65	Cyber Security and Privacy	8 weeks
66	Data Base Management System	8 weeks
67	Data Science for Engineers	8 weeks
68	Data Structure And Algorithms Using Java	8 weeks
69	Deep Learning - IIT Ropar	8 weeks
70	Digital Electronic Circuits	8 weeks
71	Design And Analysis Of Algorithms	8 weeks
72	Discrete Mathematics	8 weeks
73	Ethical Hacking	8 weeks
74	Functional Genomics	8 weeks
75	German - I	8 weeks
76	German - II	8 weeks
77	German - III	8 weeks
78	Getting Started With Competitive Programming	8 weeks
79	Introduction to Database Systems	8 weeks
80	Introduction To Computer And Network Performance Analysis Using Queuing Systems	8 weeks
81	Google Cloud Computing Foundations	8 weeks
82	Introduction To Game Theory And Mechanism Design	8 weeks
83	Introduction To Machine Learning - IITKGP	12 weeks
84	Introduction To Internet Of Things	8 weeks
85	Introduction To Machine Learning - IITKGP	8 weeks
86	Introduction to Research	8 weeks
87	Linear Algebra	12 weeks
88	Introduction To Operating Systems	8 weeks
89	Multi-Core Computer Architecture	8 weeks
90	Machine Learning For Earth System Sciences	8 weeks
91	Machine Learning And Deep Learning -- Fundamentals And Applications	8 weeks
92	Next Generation Sequencing Technologies : Data Analysis And Applications	8 weeks
93	Natural Language Processing	8 weeks
94	Operating System Fundamentals	8 weeks
95	Pattern Recognition And Application	12 weeks
96	Programming In Java	8 weeks

97	Programming in Modern C++	8 weeks
98	Programming, Data Structures And Algorithms Using Python	8 weeks
99	Python For Data Science	8 weeks
100	Reinforcement Learning	8 weeks
101	Selected Topics in Algorithms	8 weeks
102	Software Conceptual Design	8 weeks
103	Software Testing	8 weeks
104	Theory Of Computation	8 weeks
105	**Swayam Mooc Courses**	8 / 12 weeks
106	Fundamentals Of Artificial Intelligence	12 weeks
107	Introduction to Japanese Language and Culture	12 weeks
108	Introduction to robotics	12 weeks
109	Marketing Management - I	8 weeks
110	Power System Analysis	12 weeks
111	Public Speaking	8 weeks
112	Soft skills	8 weeks
113	AI:Constraint Satisfaction	12 weeks
114	AI:Constraint Satisfaction	12 weeks
115	Analog VLSI Design	12 weeks
116	Artificial Intelligence: Knowledge Representation And Reasoning	12 weeks
117	Aspen Plus® Simulation Software - A Basic Course For Beginners	12 weeks
118	Basic course in Biomedical Research	12 weeks
119	Basic Electronics	12 weeks
120	C Programming And Assembly Language	12 weeks
121	C-Based VLSI Design	12 weeks
122	Cloud Computing	12 weeks
123	CMOS Digital VLSI Design	12 weeks
124	Computer Integrated Manufacturing	12 weeks
125	Control Systems	12 weeks
126	Data Base Management System	12 weeks
127	Data Structure And Algorithms Using Java	12 weeks
128	Deep Learning	12 weeks
129	Developing Soft Skills And Personality	12 weeks
130	Digital Circuits	12 weeks
131	E-Business	12 weeks
132	Electromagnetic Theory	12 weeks
133	Energy Resources, Economics and Environment	12 weeks

134	Enhancing Soft Skills and Personality	12 weeks
135	Entrepreneurship	12 weeks
136	Ethical Hacking	12 weeks
137	German - I	12 weeks
138	Google Cloud Computing Foundations	12 weeks
139	Human Resource Development	12 weeks
140	Introduction To Adaptive Signal Processing	12 weeks
141	Introduction To Basic Spoken Sanskrit And Intermediate Level Of Spoken Sanskrit	12 weeks
142	Introduction To Internet Of Things	12 weeks
143	Introduction to Machine Learning	12 weeks
144	Introduction To Programming In C	12 weeks
145	Knowledge Management	12 weeks
146	VLSI Interconnects	12 weeks
147	Aircraft Stability and Control	12 weeks
148	Introduction to Airplane Performance	8 weeks
149	Introduction to Aircraft Design	12 weeks
150	Design of Fixed Wing Unmanned Aerial Vehicles	8 weeks
151	Aircraft Structures - I	8 weeks
152	Introduction to CFD	12 weeks
153	Introduction to Developmental Biology	12 weeks
154	Biomedical nanotechnology	4 weeks
155	Fluid Mechanics	12 weeks
156	Finite Element Method and Computational Structural Dynamics	12 weeks
157	The Joy of Computing using Python	12 weeks
158	Deep Learning	12 weeks
159	Artificial Intelligence : Search Methods for Problem Solving	12 weeks
160	Programming, Data Structures And Algorithms Using Python	8 weeks
161	Data Science for Engineers	8 weeks
162	Introduction to Machine Learning	12 weeks
163	Python for Data Science	4 weeks
164	Reinforcement Learning	12 weeks
165	Deep Learning for Computer Vision	12 weeks
166	Applied Accelerated Artificial Intelligence	12 weeks
167	Computer Vision	12 weeks
168	Embedded System Design with ARM	8 weeks
169	Introduction to Machine Learning	8 weeks

170	Natural Language Processing	12 weeks
171	Functional and Conceptual Design	12 weeks
172	Introduction to robotics	12 weeks
173	Ergonomics Workplace Analysis	4 weeks
174	Innovation by Design	4 weeks
175	Understanding Design	4 weeks
176	Learning Analytics Tools	12 weeks
177	Entrepreneurship and IP strategy	8 weeks
178	Great Experiments in Psychology	4 weeks
179	Management of Fixed Income Securities	12 weeks
180	German - III	12 weeks
181	Patent Drafting for Beginners	4 weeks
182	Developing Soft Skills and Personality	8 weeks
183	Psychology of Everyday	4 weeks
184	Introduction To Japanese Language And Culture	12 weeks
185	Applied Linguistics	12 weeks
186	Patent Law for Engineers and Scientists	12 weeks
187	German - I	12 weeks
188	German - II	12 weeks
189	Basic course in Biomedical Research	#N/A
190	Advanced Fluid Mechanics	12 weeks
191	Mechanism and Robot Kinematics	8 weeks
192	Robotics	8 weeks
193	Mathematical Modeling Of Manufacturing Processes	12 weeks
194	Advanced Machining Processes	8 weeks
195	Fundamentals of Additive Manufacturing Technologies	12 weeks
196	Automation in Manufacturing	12 weeks
197	Advances in welding and joining technologies	8 weeks
198	Design of Mechatronic Systems	12 weeks
199	Metal Additive Manufacturing	12 weeks
200	Product Design and Development	4 weeks
201	Refrigeration and air-conditioning	8 weeks
202	Manufacturing Systems Technology I & II	12 weeks
203	Engineering Fracture Mechanics	12 weeks
204	Basics Of Finite Element Analysis - I	8 weeks
205	Thermodynamics	12 weeks
206	Mechanics and Control of Robotic Manipulators	8 weeks

207	Patent Search and Analysis	8 weeks
208	Design Thinking - A Primer	4 weeks
209	Business and Sustainable Development	4 weeks
210	Automation in Production Systems and Management	12 weeks
211	Aircraft Design	12 weeks
212	Introduction to Experiments in Flight	4 weeks
213	Rocket Propulsion	12 weeks
214	Computational Science in Engineering	8 weeks
215	Lighter than Air Systems	12 weeks
216	Fundamentals of Theoretical and Experimental Aerodynamics	12 weeks
217	Satellite Attitude Dynamics and Control	12 weeks
218	Strategies for Sustainable Design	12 weeks
219	Finite Element Method	12 weeks
220	Fluid Flow Operations	12 weeks
221	Introduction To Programming In C	8 weeks
222	An Introduction to Artificial Intelligence	12 weeks
223	Data Analytics with Python	12 weeks
224	Artificial Intelligence: Knowledge Representation And Reasoning	12 weeks
225	Machine Learning,ML	8 weeks
226	Programming, Data Structures And Algorithms Using Python	8 weeks
227	Data Science for Engineers	8 weeks
228	Introduction to Machine Learning	12 weeks
229	The Joy of Computing using Python	12 weeks
230	Python for Data Science	4 weeks
231	Cloud computing	12 weeks
232	Programming In Java	12 weeks
233	Fundamentals of Automotive Systems	12 weeks
234	Understanding Design	4 weeks
235	Understanding Incubation and Entrepreneurship	12 weeks
236	Advanced Neural Science for Engineers	12 weeks
237	Speaking Effectively	8 weeks
238	German - I	12 weeks
239	German - II	12 weeks
240	German - III	12 weeks
241	Enhancing Soft Skills and Personality	8 weeks
242	Introduction to Modern Indian Political Thought	12 weeks
243	An Introduction to Microeconomics	12 weeks

244	English Language for Competitive Exams	12 weeks
245	Japani Bhasha - Saral swaroop(Japanese course taught in hindi)	12 weeks
246	Ordinary and Partial Differential Equations and Applications	12 weeks
247	Basic Calculus - 1	12 weeks
248	Advanced Linear Algebra	12 weeks
249	Advanced Engineering Mathematics	12 weeks
250	Advanced Probability Theory	12 weeks
251	A Primer to Mathematical Optimization	12 weeks
252	Machining Science	4 weeks
253	Failure Analysis and Prevention	8 weeks
254	Principles of Industrial Engineering	12 weeks
255	Robotics and Control : Theory and Practice	8 weeks
256	Experimental Stress Analysis	12 weeks
257	Computer Integrated Manufacturing	12 weeks
258	Product Design and Manufacturing	12 weeks
259	Mechanics of Machining	8 weeks
260	Convective Heat Transfer	4 weeks
261	Oil Hydraulics and Pneumatics	12 weeks
262	Introduction To Fluid Mechanics	12 weeks
263	Manufacturing Guidelines for Product Design	8 weeks
264	Operations Management	12 weeks
265	Surface Engineering of Nanomaterials	8 weeks
266	Inspection and Quality Control in Manufacturing	4 weeks
267	Mechatronics	8 weeks
268	Advanced Robotics	12 weeks
269	Manufacturing Automation	4 weeks
270	Robotics: Basics and Selected Advanced Concepts	12 weeks
271	Introduction to Operations Research	8 weeks
272	Introduction to probability and Statistics	4 weeks
273	Production and Operation Management	12 weeks
274	International Business	12 weeks
275	Behavioral and Personal Finance	8 weeks
276	Foundation Course in Managerial Economics	8 weeks
277	Six Sigma	12 weeks
278	Quality Control and Improvement with MINITAB	8 weeks
279	Surface Engineering for Corrosion and Wear Resistance Application	12 weeks
280	Textile Product Design and Development	12 weeks

281	Business analytics and data mining Modeling using R	4 weeks
282	Computer Integrated Manufacturing	12 weeks
283	Deep Learning	8/ 12 weeks
284	Engineering Graphics and Design	12 weeks
285	German - I	12 weeks
286	German - II	12 weeks
287	Industrial Automation and Control	12 weeks
288	Mechatronics	12 weeks
289	Product Design and Manufacturing	12 weeks
290	Supply Chain Analytics	12 weeks
291	Understanding Incubation and Entrepreneurship	12 weeks
292	Advanced Materials and Processes	12 weeks
293	Applied Accelerated Artificial Intelligence	12 weeks
294	Artificial Intelligence : Search Methods for Problem Solving	12 weeks
295	Big Data Computing	12 weeks
296	Cloud computing	12 weeks
297	Developing Soft Skills and Personality	12 weeks
298	Fundamentals Of Artificial Intelligence	12 weeks
299	Innovation by Design	12 weeks
300	Introduction to Quantum Computing: Quantum Algorithms and Qiskit	12 weeks
301	Product Design and Development	12 weeks
302	Python for Data Science	4 weeks
303	Robotics	8 weeks
304	Theory of Production Processes	12 weeks
305	Lean six sigma yellow belt training programme'	30 hr
306	Mathematical Aptitude / Soft skills training for SE	36 hr
307	Mathematical Aptitude / Soft skills training for TE	384 hr

Year 2: AY 2021-22		
Sr. No.	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Duration of course
308	Aspen Plus Â® simulation software - a basic course for beginners	12 weeks
309	Basic Principles and Calculations in Chemical Engineering	12 weeks
310	Chemical Engineering Thermodynamics	12 weeks
311	Introduction To Process Modeling In The Membrane Separation Process	12 weeks
312	Unit Operations of Particulate Matter	12 weeks
313	Advanced Foundation Engineering	12 weeks
314	Air pollution and Control	12 weeks
315	An Introduction to Artificial Intelligence	12 weeks
316	An Introduction to Programming Through C++	12 weeks
317	Basic construction materials	12 weeks
318	Basic Linear Algebra	12 weeks
319	Concrete Technology	12 weeks
320	Data Base Management System	12 weeks
321	Digital Land Surveying And Mapping (DLS&M)	12 weeks
322	Electronic Waste Management - Issues And Challenges	12 weeks
323	Engineering Hydrology	12 weeks
324	Engineering Mathematics II	12 weeks
325	Geographic Information Systems	12 weeks
326	Geotechnical Engineering - 1	12 weeks
327	Geotechnical Engineering II Foundation Engineering	12 weeks
328	Introduction to Accounting and Finance for Civil Engineers	12 weeks
329	Introduction to Civil Engineering Profession	12 weeks

330	Introduction to Lean Construction	12 weeks
331	Introduction To Programming In C	12 weeks
332	Maintenance and Repair of Concrete Structures	12 weeks
333	Mechanics of Solids	12 weeks
334	Principles of Management	12 weeks
335	Programming In Java	12 weeks
336	Python for Data Science	12 weeks
337	Retrofitting and Rehabilitation of Civil Infrastructure	12 weeks
338	Rural Water Resources Management	12 weeks
339	Scheduling Techniques in Projects	12 weeks
340	Structural Analysis-I	12 weeks
341	Structural Dynamics	12 weeks
342	Structure, Form, and Architecture: The Synergy	12 weeks
343	Traffic Engineering	12 weeks
344	Urban Transportation Systems Planning	12 weeks
345	Water and waste water treatment	12 weeks
346	Water Supply Engineering	12 weeks
347	Information Security - 5 - Secure Systems Engineering	8 weeks
348	Fundamentals Of Artificial Intelligence - online	12 weeks
349	Advanced Computer Architecture	8 weeks
350	Advanced Calculus For Engineers	8 weeks
351	Advanced Engineering Mathematics	8 weeks
352	Advanced Graph Theory	8 weeks
353	AI:Constraint Satisfaction	8 weeks
354	Algorithmic Game Theory	8 weeks
355	An Introduction to Microeconomics	12 weeks

356	An Introduction to Artificial Intelligence	8 weeks
357	An Introduction to Programming Through C++	8 weeks
358	Applied Accelerated Artificial Intelligence	8 weeks
359	Artificial Intelligence : Search Methods for Problem Solving	8 weeks
360	Basic Calculus - 1	8 weeks
361	Blockchain and its Applications	8 weeks
362	Body language: Key to professional Success	8 weeks
363	Cloud computing	8 weeks
364	Cloud Computing and Distributed Systems	8 weeks
365	Computer architecture and organization	12 weeks
366	Computer Networks and Internet Protocol	8 weeks
367	Cryptography and Network Security	8 weeks
368	Data Base Management System	8 weeks
369	Data Science for Engineers	8 weeks
370	Data Structure and Algorithms using Java	8 weeks
371	Design and analysis of algorithms	12 weeks
372	Design and Engineering of Computer Systems	8 weeks
373	Discrete Mathematics	8 weeks
374	Discrete Mathematics - IIITB	8 weeks
375	Ethical Hacking	8 weeks
376	Getting Started with Competitive Programming	8 weeks
377	Introduction to Database Systems	8 weeks
378	Introduction To Internet Of Things	8 weeks
379	Introduction to Machine Learning	8 weeks
380	Introduction to Operating Systems	8 weeks
381	Introduction To Programming In C	8 weeks

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382	Introduction to Quantum Computing: Quantum Algorithms and Qiskit	12 weeks
383	Introduction To Soft Computing	8 weeks
384	Machine Learning, ML	8 weeks
385	Natural Language Processing	8 weeks
386	Programming In Java	8 weeks
387	Programming in Modern C++	8 weeks
388	Programming, Data Structures And Algorithms Using Python	8 weeks
389	Python for Data Science	8 weeks
390	Software Project Management	8 weeks
391	Swayam Mooc Courses	8 / 12 weeks
392	Network Analysis	12 weeks
393	Introduction to Internet of Things	12 weeks
394	Design Practice - 2	8 weeks
395	Power system analysis - online	12 weeks
396	Theory and Practice	8 weeks
397	Advance power Electronics and Control	12weeks
398	AI:Constraint Satisfaction	12weeks
399	Aircraft Design	12weeks
400	An Introduction to Artificial Intelligence	12weeks
401	An Introduction to Programming Through C++	12weeks
402	Analog Circuits	12weeks
403	Analog Electronic Circuits	12weeks
404	Artificial Intelligence : Search Methods for Problem Solving	12weeks
405	Artificial Intelligence: Knowledge Representation And Reasoning	12weeks
406	Basic Electric Circuits	12weeks
407	Cloud computing	12weeks

408	Communication Networks	12weeks
409	Data Analytics with Python	12weeks
410	Data Base Management System	12weeks
411	Data Science for Engineers	12weeks
412	Deep Learning	12weeks
413	Deep Learning for Computer Vision	12weeks
414	Deep Learning for Visual Computing	12weeks
415	Design of connections in steel structures	12weeks
416	Developing Soft Skills and Personality	12weeks
417	Digital Circuits	12weeks
418	Discrete Mathematics	12weeks
419	Educational leadership	12weeks
420	Embedded Systems Design	12weeks
421	Emotional Intelligence	12weeks
422	Energy Economics And Policy	12weeks
423	Energy Resources, Economics and Environment	12weeks
424	English Literature for competitive exams	12weeks
425	Enhancing Soft Skills and Personality	12weeks
426	Ethical Hacking	12weeks
427	Evolution Of Air Interface Towards 5G	12weeks
428	Financial Institutions and Markets	12weeks
429	Financial Statement Analysis and Reporting	12weeks
430	Fundamental of Power Electronics	12weeks
431	German - I	12weeks
432	German - II	12weeks
433	German - III	12weeks

434	Global Marketing Management	12weeks
435	Human resource development	12weeks
436	International Marketing	12weeks
437	Introduction To Industry 4.0 And Industrial Internet Of Things	12weeks
438	Introduction To Internet Of Things	12weeks
439	Introduction to Machine Learning	12weeks
440	Japani Bhasha - Saral swaroop	12weeks
441	Knowledge Management	12weeks
442	Management Information System	12weeks
443	Microprocessors And Microcontrollers	12weeks
444	Microwave Engineering	12weeks
445	Natural Language Processing	12weeks
446	Non-conventional energy Resources	12weeks
447	Operating System Fundamentals	12weeks
448	Patent Law for Engineers and Scientists	12weeks
449	Patent Search and Analysis	12weeks
450	Principles of Management	12weeks
451	Programming In Java	12weeks
452	Programming, Data Structures And Algorithms Using Python	12weeks
453	Python for Data Science	12weeks
454	Python for Data Science	12weeks
455	Reinforcement Learning	12weeks
456	Robotics and Control : Theory and Practice	12weeks
457	Sensors and Actuators	12weeks
458	Signals and Systems	12weeks
459	Six Sigma	12weeks

460	Transform Calculus and Its Applications In Differential Equations	12weeks
461	Understanding Design	12weeks
462	Wheeled Mobile Robots	12weeks
463	Design of Fixed Wing Unmanned Aerial Vehicles	8 weeks
464	Organic Farming for Sustainable Agricultural Production	8 weeks
465	Contemporary Architecture and Design	8 weeks
466	Role of Craft and Technology in Interior - Architecture	8 weeks
467	Finite Element Method and Computational Structural Dynamics	12 weeks
468	Programming in C++	8 weeks
469	Programming in Java	12 weeks
470	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks
471	Programming, Data Structures And Algorithms Using Python	8 weeks
472	Introduction to Machine Learning	12 weeks
473	The Joy of Computing using Python	12 weeks
474	Python for Data Science	4 weeks
475	Artificial Intelligence : Search Methods for Problem Solving	12 weeks
476	C Programming and Assembly Language	4 weeks
477	Introduction to Machine Learning	8 weeks
478	System design for sustainability	12 weeks
479	Ergonomics Workplace Analysis	4 weeks
480	Introduction to robotics	12 weeks
481	Design, Technology and Innovation	8 weeks
482	Electric vehicles and Renewable energy	12 weeks
483	Fundamentals Of Artificial Intelligence	12 weeks
484	Entrepreneurship and IP strategy	8 weeks
485	Developing Soft Skills and Personality	8 weeks

486	Managing Intellectual Property in Universities	4 weeks
487	German - I	12 weeks
488	German - II	12 weeks
489	Introduction To Japanese Language And Culture	12 weeks
490	Numerical methods	8 weeks
491	Foundations of Cognitive Robotics	4 weeks
492	Design Practice - II	8 weeks
493	Rapid Manufacturing	12 weeks
494	Engineering Metrology	12 weeks
495	RAC Product Design	4 weeks
496	Mechanics and Control of Robotic Manipulators	8 weeks
497	Basics Of Finite Element Analysis - I	8 weeks
498	Fundamentals of Additive Manufacturing Technologies	12 weeks
499	Solid Mechanics	12 weeks
500	Fluid dynamics and turbomachines	8 weeks
501	Applied Thermodynamics	12 weeks
502	Automation in Manufacturing	12 weeks
503	Finite Element Method: Variational Methods to Computer Programming	12 weeks
504	Mathematical Modeling Of Manufacturing Processes	12 weeks
505	Engineering Drawing and Computer Graphics	12 weeks
506	Computational Fluid Dynamics	12 weeks
507	Engineering Graphics and Design	12 weeks
508	Design of Mechatronic Systems	12 weeks
509	Biomechanics of Joints and Orthopaedic Implants	8 weeks
510	Manufacturing Systems Technology I & II	12 weeks
511	Concepts of Thermodynamics	12 weeks

512	Fluid Machines	8 weeks
513	Robotics	8 weeks
514	Advances in welding and joining technologies	8 weeks
515	Principle of Hydraulic Machines and System Design	4/8 weeks
516	Fundamentals of manufacturing processes	12 weeks
517	Joining Technologies for metals	8 weeks
518	Product Design and Development	4 weeks
519	Refrigeration and air-conditioning	8 weeks
520	Advanced Machining Processes	8 weeks
521	Elements of metal cutting, Machine tools, gear cutting and CNC machining	12 weeks
522	Applied Thermodynamics for Engineers	12 weeks
523	Aircraft Propulsion	12 weeks
524	Advanced Dynamics	12 weeks
525	Production Technology: Theory and Practice	12 weeks
526	Design Thinking - A Primer	4 weeks
527	Innovation, Business Models and Entrepreneurship	8 weeks
528	Business Analytics & Text Mining Modeling Using Python	8 weeks
529	Manufacturing Strategy	8 weeks
530	Financial Accounting	8 weeks
531	Operations and supply chain management	12 weeks
532	The Future of Manufacturing Business: Role of Digital Technologies	8 weeks
533	Automation in Production Systems and Management	12 weeks
534	Numerical Methods And Simulation Techniques For Scientists And Engineers	8 weeks
535	Classical mechanics: from newtonian to lagrangian formulation	12 weeks

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536	Aircraft Design	12 weeks
537	Introduction to Experiments in Flight	4 weeks
538	Rocket Propulsion	12 weeks
539	Introduction to Launch Vehicle Analysis and Design	8 weeks
540	Fundamentals of Theoretical and Experimental Aerodynamics	12 weeks
541	Engineering/Architectural Graphics – part II – Isometric and Axonometric Drawings	4 weeks
542	Engineering/Architectural Graphics - part I - Orthographic projection	8 weeks
543	Retrofitting and Rehabilitation of Civil Infrastructure	12 weeks
544	Air pollution and Control	12 weeks
545	Soft Nano Technology	8 weeks
546	Computational Fluid Dynamics	12 weeks
547	Fluid Mechanics and Its Applications	12 weeks
548	Artificial Intelligence: Knowledge Representation And Reasoning	12 weeks
549	Data Analytics with Python	12 weeks
550	Data Mining	8 weeks
551	Software Testing	4 weeks
552	Compiler Design	12 weeks
553	Cloud Computing and Distributed Systems	8 weeks
554	Computer Networks and Internet Protocol	12 weeks
555	Deep Learning	12 weeks
556	Machine Learning, ML	8 weeks
557	Programming, Data Structures And Algorithms Using Python	8 weeks
558	Design and analysis of algorithms	8 weeks
559	Introduction to Machine Learning	12 weeks
560	Python for Data Science	4 weeks

561	Introduction To Programming In C	8 weeks
562	Computational Geometry	12 weeks
563	An Introduction to Programming Through C++	12 weeks
564	Programming in Modern C++	12 weeks
565	Blockchain and its Applications	12 weeks
566	Embedded Systems Design	12 weeks
567	Programming In Java	12 weeks
568	Data Base Management System	8 weeks
569	Introduction To Industry 4.0 And Industrial Internet Of Things	12 weeks
570	Introduction To Internet Of Things	12 weeks
571	Object Oriented System Development Using UML, Java And Patterns	12 weeks
572	An Introduction to Artificial Intelligence	12 weeks
573	Getting Started with Competitive Programming	12 weeks
574	Medicinal Chemistry	12 weeks
575	Understanding Design	4 weeks
576	Fundamentals of Automotive Systems	12 weeks
577	Innovation by Design	4 weeks
578	Design, Technology and Innovation	8 weeks
579	Understanding Incubation and Entrepreneurship	12 weeks
580	Electromagnetic Waves in Guided and Wireless Media	8 weeks
581	Sensors and Actuators	12 weeks
582	Electric Vehicles - Part 1	4 weeks
583	Research Methodology	12 weeks
584	Non-conventional energy Resources	12 weeks
585	Soft Skill Development	8 weeks
586	Enhancing Soft Skills and Personality	8 weeks

587	Speaking Effectively	8 weeks
588	Human Behaviour	8 weeks
589	German - I	12 weeks
590	German - II	12 weeks
591	German - III	12 weeks
592	English Literature for competitive exams	8 weeks
593	Technical English for Engineers	8 weeks
594	Basic Calculus - 1	12 weeks
595	Linear Algebra	12 weeks
596	Mathematical Modelling: Analysis and Applications	4 weeks
597	Scientific Computing using Matlab	12 weeks
598	Acoustic Materials and Metamaterials	8 weeks
599	Computational Fluid Dynamics for Incompressible Flows	12 weeks
600	Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	12 weeks
601	Principles of Industrial Engineering	12 weeks
602	Robotics and Control : Theory and Practice	8 weeks
603	Steam and Gas Power Systems	8 weeks
604	Computer Integrated Manufacturing	12 weeks
605	Product Design and Manufacturing	12 weeks
606	Mechanics of Machining	8 weeks
607	Fundamentals of Nuclear Power Generation	12 weeks
608	Nature and Properties of Materials	8 weeks
609	Smart Materials and Intelligent System Design	4 weeks
610	Modelling and Simulation of Dynamic Systems	8 weeks
611	Fundamental of Welding Science and Technology	8 weeks

612	Convective Heat Transfer	4 weeks
613	Two phase flow and heat transfer	4 weeks
614	Kinematics of Mechanisms and Machines	8 weeks
615	Vibrations Of Structures	12 weeks
616	Design Practice	8 weeks
617	Experimental Methods in Fluid Mechanics	12 weeks
618	Introduction To Fluid Mechanics	12 weeks
619	Applied Ergonomics	12 weeks
620	Oil Hydraulics and Pneumatics	12 weeks
621	Wheeled Mobile Robots	8 weeks
622	Robotics: Basics and Selected Advanced Concepts	12 weeks
623	Mechanics of Fiber Reinforced Polymer Composite Structures	12 weeks
624	Robot Motion Planning	8 weeks
625	Finite Element Method	12 weeks
626	Finite element modeling of welding processes	12 weeks
627	Manufacturing Automation	4 weeks
628	Inspection and Quality Control in Manufacturing	4 weeks
629	Mechatronics	8 weeks
630	Operations Management	12 weeks
631	Manufacturing Guidelines for Product Design	8 weeks
632	Principles of Casting Technology	8 weeks
633	Industrial Automation and Control	12 weeks
634	Machinery Fault Diagnosis and Signal Processing	12 weeks
635	Gear And Gear Unit Design: Theory and Practice	8 weeks
636	Conduction And Convection Heat Transfer	12 weeks
637	IC Engines and Gas Turbines	12 weeks

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638	Engineering Mechanics - Statics and Dynamics	8 weeks
639	Engineering Graphics and Design	12 weeks
640	Business analytics and data mining Modeling using R	12 weeks
641	Supply Chain Analytics	8 weeks
642	Behavioral and Personal Finance	8 weeks
643	Global Marketing Management	8 weeks
644	Integrated Marketing Communication	12 weeks
645	Leadership and Team Effectiveness	12 weeks
646	Sales And Distribution Management	8 weeks
647	Six Sigma	12 weeks
648	International Marketing	8 weeks
649	Surface Engineering of Nanomaterials	8 weeks
650	Testing of Functional and Technical Textiles	8 weeks
651	An Introduction to Artificial Intelligence	12 weeks
652	Computer Integrated Manufacturing	8 weeks
653	Data Science for Engineers	12 weeks
654	Design Practice	12 weeks
655	Embedded Systems Design	8 weeks
656	Essentials of Data Science With R Software - 1: Probability and Statistical Inference	12 weeks
657	Failure Analysis and Prevention	12 weeks
658	IC Engines and Gas Turbines	4 weeks
659	Industrial Automation and Control	4 weeks
660	Inspection and Quality Control in Manufacturing	8 weeks
661	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks
662	Introduction to Machine Learning	8 weeks

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663	Introduction to Machining and Machining Fluids	8 weeks
664	Introduction to probability and Statistics	12 weeks
665	Introduction to Robotics	12 weeks
666	Manufacturing Process Technology I & II	8 weeks
667	Metal Cutting and Machine Tools	12 weeks
668	Operations Management	12 weeks
669	Patent Drafting for Beginners	8 weeks
670	Principles of Industrial Engineering	12 weeks
671	Product Design and Manufacturing	12 weeks
672	Programming, Data Structures And Algorithms Using Python	8 weeks
673	Roadmap for patent creation	8 weeks
674	Robotics and Control : Theory and Practice	8 weeks
675	Six Sigma	12 weeks
676	Supply Chain Analytics	12 weeks
677	The Joy of Computing using Python	8 weeks
678	Total Quality Management - I	8 weeks
679	Advanced Machining Processes	8 weeks
680	Basics of Materials Engineering	12 weeks
681	Business and Sustainable Development	12 weeks
682	Concepts of Thermodynamics	8 weeks
683	Corporate Finance	12 weeks
684	Cost Accounting	12 weeks
685	Dairy and Food process and products technology	8 weeks
686	Design of Mechatronic Systems	12 weeks
687	Developing Soft Skills and Personality	12 weeks

688	Elements of metal cutting, Machine tools, gear cutting and CNC machining	8 weeks
689	Engineering Mathematics - I	8 weeks
690	Engineering Mechanics	12 weeks
691	Entrepreneurship	8 weeks
692	Entrepreneurship and IP strategy	8 weeks
693	Financial Accounting	12 weeks
694	Financial Derivatives & Risk Management	12 weeks
695	Fluid Machines	8 weeks
696	Fundamentals of Conduction and Radiation	12 weeks
697	German - I	12 weeks
698	German - II	8 weeks
699	Heat Transfer	12 weeks
700	Innovation by Design	12 weeks
701	Innovation, Business Models and Entrepreneurship	8 weeks
702	Introduction to Aircraft Design	8 weeks
703	Introduction to Mechanical Vibration	8 weeks
704	Laplace Transform	12 weeks
705	Manufacturing Strategy	12 weeks
706	Mathematical Modeling Of Manufacturing Processes	8 weeks
707	Numerical methods	8 weeks
708	Operations and supply chain management	8 weeks
709	Partial Differential Equations	12 weeks
710	Power Plant Engineering	12 weeks
711	Principle of Hydraulic Machines and System Design	8 weeks
712	Product Design and Development	12 weeks

713	Refrigeration and air-conditioning	12 weeks
714	Security Analysis & Portfolio Management	8 weeks
715	Solid Mechanics	12 weeks
716	Strategy: An Introduction to Game Theory	12 weeks
717	Strength of Materials	8 weeks
718	An online certification course on CREO and ANSYS :Basic to Professional	100 hr
719	Upskilling Of Engineers - to make them site ready	30 hr
720	Lean Six Sigma Yellow Belt	30 hr
721	Mathematical Aptitude / Soft skills training for SE	36 hr
722	Mathematical Aptitude / Soft skills training for TE	36 hr
723	GD&PI (Company Specific) for BE	36 hr

Year 3: AY 2020-21		
Sr. No.	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Duration of course
724	Heat Transfer - online	8 weeks
725	Aspen Plus R simulation software a basic course for beginners - online	8 weeks
726	Principles and Practices of Process Equipment and Plant Design - online	8 weeks
727	NPTEL course on Advanced Concrete Technology	8 weeks
728	NPTEL course on Design of steel structures	8 weeks
729	NPTEL course on Developing Soft Skills and Personality	8 weeks
730	NPTEL course on Fluid Mechanics	8 weeks
731	NPTEL course on Foundation Engineering	8 weeks
732	NPTEL course on Matrix Method of Structural Analysis	8 weeks
733	NPTEL course on Mechanics Of Materials	8 weeks
734	NPTEL course on Soil Mechanics/Geotechnical Engineering I	12 weeks
735	NPTEL course on Strength Of Materials	8 weeks
736	NPTEL course on Structural analysis-I	8 weeks

737	Programming, Data Structures And Algorithms Using Python	8 weeks
738	Programming, Data Structures And Algorithms Using Python	8 weeks
739	Advanced Computer Architecture	8 weeks
740	Advanced Graph Theory	8 weeks
741	AI: Constraint Satisfaction	8 weeks
742	An Introduction to Artificial Intelligence	8 weeks
743	An Introduction to Programming through C++	8 weeks
744	Artificial Intelligence: Knowledge Representation and Reasoning	8 weeks
745	Basic Linear Algebra	8 weeks
746	Basic Real Analysis	8 weeks
747	Basic Real Analysis	8 weeks
748	Biomedical Signal Processing	12 weeks
749	Cloud computing	8 weeks
750	Cloud Computing and Distributed Systems	8 weeks
751	Compiler Design	8 weeks
752	Computational Geometry	8 weeks
753	Computer Architecture	8 weeks
754	Computational Complexity Theory	8 weeks
755	Data Base Management System	8 weeks
756	Data Mining	8 weeks
757	Cryptography and Network Security	12 weeks
758	Computer Organization and Architecture: A Pedagogical Aspect	8 weeks
759	Data Analytics with Python	8 weeks
760	Data Science for Engineers	8 weeks
761	Data Science for Engineers	8 weeks
762	Deep Learning	12 weeks
763	Deep Learning - IIT Ropar	12 weeks
764	Deep Learning - IITKGP	8 weeks
765	Deep Learning for Computer Vision	8 weeks
766	Design and analysis of algorithms	8 weeks
767	Developing Soft Skills and Personality	8 weeks
768	Digital Electronic Circuits	8 weeks
769	Discrete Mathematics - IIITB	8 weeks
770	Embedded Systems Design	8 weeks
771	Embedded System Design with ARM	8 weeks
772	Discrete Mathematics - IIT Ropar	8 weeks
773	Entrepreneurship Essentials	8 weeks

774	Enhancing Soft Skills and Personality	8 weeks
775	Engineering Mathematics II	8 weeks
776	German - I	8 weeks
777	Foundations to Computer Systems Design	8 weeks
778	Foundations of Cryptography	8 weeks
779	German - II	8 weeks
780	GPU Architectures and Programming	12 weeks
781	Graph Theory	8 weeks
782	Introduction to Automata, Languages and Computation	8 weeks
783	Information Security - 5 - Secure Systems Engineering	8 weeks
784	Integral and Vector Calculus	8 weeks
785	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks
786	Introduction to Database Systems	8 weeks
787	Introduction to Galois Theory	8 weeks
788	Introduction to Internet of Things	8 weeks
789	Introduction to Machine Learning	8 weeks
790	Introduction to Parallel Programming in OpenMP	8 weeks
791	Introduction to Soft Computing	8 weeks
792	Introduction to probability and Statistics	8 weeks
793	Introduction to Rings and Fields	8 weeks
794	Machine Learning, ML	8 weeks
795	Linear Algebra	8 weeks
796	Multivariable Calculus	12 weeks
797	Operating System	8 weeks
798	Numerical Methods: Finite difference approach	8 weeks
799	Numerical Linear Algebra	8 weeks
800	Problem Solving through Programming in C	12 weeks
801	Programming in C++	8 weeks
802	Privacy and Security in Online Social Media	8 weeks
803	Ordinary and Partial Differential Equations and Applications	8 weeks
804	Programming in Java	8 weeks
805	Programming, Data Structures And Algorithms Using Python	8 weeks
806	Python for Data Science	8 weeks
807	Randomized Methods in Complexity	8 weeks
808	Real Time Operating System	8 weeks
809	Reinforcement Learning	8 weeks
810	Signals and Systems	8 weeks

811	Social Networks	8 weeks
812	Software Testing	8 weeks
813	Transform Calculus and its applications in Differential Equations	8 weeks
814	User-centric Computing for Human-Computer Interaction	8 weeks
815	Variational Calculus and its applications in Control Theory and Nanomechanics	8 weeks
816	VLSI Physical Design	8 weeks
817	Swayam Mooc Courses	8/12 weeks
818	Network Analysis	12weeks
819	Electrical Machines - 1	12weeks
820	Power Electronics	12weeks
821	A brief course on Superconductivity	12weeks
822	Advanced Graph Theory	12weeks
823	AI: Constraint Satisfaction	12weeks
824	Aircraft Design	12weeks
825	An Introduction to Artificial Intelligence	12weeks
826	An Introduction to Programming through C++	12weeks
827	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	12weeks
828	Architectural Design of Digital Integrated Circuits	12weeks
829	Artificial Intelligence : Search Methods for Problem Solving	12weeks
830	Artificial Intelligence: Knowledge Representation and Reasoning	12weeks
831	Basic Electronics	12weeks
832	Basics of software defined Radios and Practical Applications	12weeks
833	Biomedical Signal Processing	12weeks
834	C Programming and Assembly Language	12weeks
835	Cloud computing	12weeks
836	Computer Vision	12weeks
837	Computer Vision and Image Processing - Fundamentals and Applications	12weeks
838	Control engineering	12weeks
839	Data Analytics with Python	12weeks
840	Data Base Management System	12weeks
841	Data Science for Engineers	12weeks
842	Deep Learning	12weeks
843	Deep Learning - IIT Ropar	12weeks
844	Deep Learning for Computer Vision	12weeks
845	Design for internet of things	12weeks

846	Developing Soft Skills and Personality	12weeks
847	Digital Electronic Circuits	12weeks
848	Digital Switching - I	12weeks
849	Ecology and Environment	12weeks
850	Embedded Systems Design	12weeks
851	Emotional Intelligence	12weeks
852	English Language for Competitive Exams	12weeks
853	Enhancing Soft Skills and Personality	12weeks
854	Entrepreneurship and IP strategy	12weeks
855	Environment and Development	12weeks
856	Essential Mathematics for Machine Learning	12weeks
857	Fiber Optic Communication Technology	12weeks
858	Foundations of Cryptography	12weeks
859	Fundamental of Power Electronics	12weeks
860	Fundamentals Of Artificial Intelligence	12weeks
861	German - I	12weeks
862	German - II	12weeks
863	German - II	12weeks
864	Getting Started with Competitive Programming	12weeks
865	Globalization and Culture	12weeks
866	Human Behaviour	12weeks
867	Integrated Circuits, MOSFETs, Op-Amps and their Applications	12weeks
868	Introduction to Embedded System Design	12weeks
869	Introduction to Industry 4.0 and Industrial Internet of Things	12weeks
870	Introduction to Internet of Things	12weeks
871	Introduction to Internet of Things	12weeks
872	Introduction to Machine Learning	12weeks
873	Introduction to robotics	12weeks
874	Language and Mind	12weeks
875	Machine Learning, ML	12weeks
876	Microprocessors and Microcontrollers	12weeks
877	Microwave Theory and Techniques	12weeks
878	Natural Language Processing	12weeks
879	Principles of Signals and Systems	12weeks
880	Probability for Computer Science	12weeks
881	Problem Solving through Programming in C	12weeks
882	Programming in C++	12weeks

883	Programming in Java	12weeks
884	Programming in Java	12weeks
885	Programming, Data Structures And Algorithms Using Python	12weeks
886	Python for Data Science	12weeks
887	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	12weeks
888	Signals and Systems	12weeks
889	Soft skills	12weeks
890	Software Testing	12weeks
891	Speaking Effectively	12weeks
892	The Joy of Computing using Python	12weeks
893	Urbanization and Environment	12weeks
894	UAV Design - Part II	8 weeks
895	Aircraft Stability and Control	12 weeks
896	Space Flight Mechanics	12 weeks
897	Advance Aircraft Maintenance	8 weeks
898	Aircraft Structures - I	8 weeks
899	Engineering Thermodynamics	12 weeks
900	Introduction to Ancient Indian Technology	8 weeks
901	Introduction to CFD	12 weeks
902	Introduction to Aerospace Engineering	12 weeks
903	Introduction to Aircraft Design	12 weeks
904	Contemporary Architecture and Design	8 weeks
905	Role of Craft and Technology in Interior - Architecture	8 weeks
906	Immunology	12 weeks
907	Strength Of Materials	12 weeks
908	Mechanics Of Materials	12 weeks
909	Earthquake Resistant Design of Foundations	8 weeks
910	Fluid Mechanics	8 weeks
911	Heat Transfer	12 weeks
912	Programming in C++	8 weeks
913	Programming in Java	12 weeks
914	Cloud computing	8 weeks
915	Introduction to internet of things	12 weeks
916	Programming, Data Structures And Algorithms Using Python	8 weeks
917	Introduction to Machine Learning	12 weeks
918	Introduction to Operating Systems	8 weeks

919	Artificial Intelligence Search Methods For Problem Solving	12 weeks
920	The Joy of Computing using Python	12 weeks
921	Computer Graphics	8 weeks
922	Introduction to Programming in C	8 weeks
923	C Programming and Assembly Language	4 weeks
924	Quantum Mechanics and Molecular Spectroscopy	8 weeks
925	Innovation by Design	4 weeks
926	Understanding Design	4 weeks
927	Introduction to robotics	12 weeks
928	Ergonomics Workplace Analysis	4 weeks
929	Design, Technology and Innovation	8 weeks
930	Applied Optimization for Wireless, Machine Learning, Big Data	12 weeks
931	Control systems	12 weeks
932	Numerical Methods for Engineers	12 weeks
933	Developing Soft Skills and Personality	8 weeks
934	Human resource development	12 weeks
935	Managing Intellectual Property in Universities	4 weeks
936	Technical English for Engineers	8 weeks
937	Soft skills	12 weeks
938	Film Appreciation	8 weeks
939	Entrepreneurship and IP strategy	8 weeks
940	Body language: Key to professional Success	4 weeks
941	Mathematical Modeling Of Manufacturing Processes	12 weeks
942	Introduction To Japanese Language And Culture	12 weeks
943	Science, Technology and Society	12 weeks
944	German - I	12 weeks
945	German - II	12 weeks
946	Constitutional Studies	12 weeks
947	Calculus Of One Real Variable	8 weeks
948	Calculus Of Several Real Variables	8 weeks
949	Essential Mathematics for Machine Learning	8 weeks
950	Engineering Mathematics - I	12 weeks
951	A basic course in number theory	12 weeks
952	Laplace Transform	4 weeks
953	Operations Research	8 weeks
954	Engineering Mechanics	12 weeks
955	Principles of Vibration Control	4 weeks

956	Manufacturing Systems Technology I & II	12 weeks
957	Rapid Manufacturing	12 weeks
958	Concepts of Thermodynamics	12 weeks
959	Heat Exchangers: Fundamentals and Design Analysis	12 weeks
960	Mechanism And Robot Kinematics	8 weeks
961	Advanced Fluid Mechanics	12 weeks
962	Fluid Machines	8 weeks
963	Robotics	8 weeks
964	Mechanical Measurement Systems	8 weeks
965	Automation in Manufacturing	12 weeks
966	Finite Element Method: Variational Methods to Computer Programming	12 weeks
967	Foundation of Computational Fluid Dynamics	8 weeks
968	Advances in welding and joining technologies	8 weeks
969	Introduction to Mechanical Vibration	8 weeks
970	Fundamentals of manufacturing processes	12 weeks
971	Fundamentals of Surface Engineering: Mechanisms,Processes and Characterizations	12 weeks
972	Product Design and Development	4 weeks
973	Work System Design	12 weeks
974	Refrigeration and air-conditioning	8 weeks
975	Fluid dynamics and turbomachines	8 weeks
976	Advanced Machining Processes	8 weeks
977	Principle of Hydraulic Machines and System Design	8 weeks
978	Basics of Materials Engineering	12 weeks
979	Engineering drawing and computer graphics	12 weeks
980	Fundamentals of Convective Heat Transfer	12 weeks
981	Selection Of Nanomaterials For Energy Harvesting And Storage Application	4 weeks
982	Solid Mechanics	12 weeks
983	Fundamentals of Conduction and Radiation	12 weeks
984	Fundamentals Of Artificial Intelligence	12 weeks
985	Aircraft Propulsion	12 weeks
986	Basics Of Finite Element Analysis-I	8 weeks
987	Foundations of Cognitive Robotics	4 weeks
988	Engineering Metrology	12 weeks
989	Introduction to Composites	12 weeks
990	Design Thinking - A Primer	4 weeks
991	Soft Skills For Business Negotiations And Marketing Strategies	12 weeks

992	Leadership	4 weeks
993	Industrial Safety Engineering	12 weeks
994	Working Capital Management	12 weeks
995	Business Analytics & Data Mining Modeling Using R Part II	4 weeks
996	Manufacturing Strategy	8 weeks
997	Customer Relationship Management	8 weeks
998	Introduction to Marketing Essentials	8 weeks
999	The Future of Manufacturing Business: Role of Additive Manufacturing	8 weeks
1000	Welding of Advanced High Strength Steels for Automotive Applications.	4 weeks
1001	Advanced Materials and Processes	12 weeks
1002	Powder Metallurgy	12 weeks
1003	Dynamics of Ocean Structures	12 weeks
1004	Computer Methods Of Structural Analysis Of Offshore Structures	12 weeks
1005	Nuclear and Particle Physics	12 weeks
1006	Rocket Propulsion	12 weeks
1007	Aircraft Design	12 weeks
1008	Introduction to Experiments in Flight	4 weeks
1009	Introduction to Launch Vehicle Analysis and Design	8 weeks
1010	Lighter than Air Systems	12 weeks
1011	Introduction to History of Architecture in India	4 weeks
1012	Introduction to Civil Engineering Profession	8 weeks
1013	Computational Fluid Dynamics	12 weeks
1014	Heat Transfer	12 weeks
1015	Waste to Energy Conversion	8 weeks
1016	Equipment Design: Mechanical Aspects	4 weeks
1017	Basic Principles and Calculations in Chemical Engineering	12 weeks
1018	Problem Solving through Programming in C	12 weeks
1019	Programming in C++	8 weeks
1020	Programming in Java	12 weeks
1021	Deep Learning - IITKGP	12 weeks
1022	Embedded System Design with ARM	8 weeks
1023	Software Testing	4 weeks
1024	Cloud computing	8 weeks
1025	Introduction to Internet of Things	12 weeks
1026	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks
1027	Programming, Data Structures And Algorithms Using Python	8 weeks

1028	Data Science for Engineers	8 weeks
1029	Introduction to Machine Learning	12 weeks
1030	Artificial Intelligence: Knowledge Representation and Reasoning	12 weeks
1031	AI: Constraint Satisfaction	8 weeks
1032	Privacy and Security in Online Social Media	8 weeks
1033	Foundations to Computer Systems Design	12 weeks
1034	The Joy of Computing using Python	12 weeks
1035	Python for Data Science	4 weeks
1036	Discrete Mathematics - IIT Ropar	12 weeks
1037	Discrete Mathematics - IIITB	12 weeks
1038	An Introduction to Programming through C++	12 weeks
1039	An Introduction to Artificial Intelligence	12 weeks
1040	Data Analytics with Python	12 weeks
1041	Basic thermodynamics: Classical and Statistical Approaches	12 weeks
1042	Fundamentals of Spectroscopy	12 weeks
1043	Basics in Inorganic Chemistry	4 weeks
1044	Product Design and Innovation	4 weeks
1045	Fundamentals of Automotive Systems	12 weeks
1046	Design, Technology and Innovation	8 weeks
1047	Innovation by Design	4 weeks
1048	Strategies for Sustainable Design	12 weeks
1049	Fundamental of Power Electronics	12 weeks
1050	Principles of Signals and Systems	12 weeks
1051	Computer Vision and Image Processing - Fundamentals and Applications	12 weeks
1052	Signals and Systems	12 weeks
1053	Basic Electronics	12 weeks
1054	Roadmap for patent creation	8 weeks
1055	Entrepreneurship Essentials	12 weeks
1056	MATLAB Programming for Numerical Computation	8 weeks
1057	Qualitative Research Methods and Research Writing	12 weeks
1058	Enhancing Soft Skills and Personality	8 weeks
1059	Emotional Intelligence	8 weeks
1060	Speaking Effectively	8 weeks
1061	Soft Skill Development	8 weeks
1062	Intellectual Property	12 weeks
1063	Language and Mind	8 weeks

1064	Patent Drafting for Beginners	4 weeks
1065	Patent Law for Engineers and Scientists	12 weeks
1066	English Language for Competitive Exams	12 weeks
1067	Introduction to Brain & Behaviour	8 weeks
1068	Human Behaviour	8 weeks
1069	Literature, Culture and Media	12 weeks
1070	German - I	12 weeks
1071	German - II	12 weeks
1072	Indian Economy: Some Contemporary Perspectives	8 weeks
1073	Basic Linear Algebra	8 weeks
1074	Basic Real Analysis	12 weeks
1075	Linear Algebra	12 weeks
1076	Engineering Mathematics II	12 weeks
1077	Basic Calculus - 1	12 weeks
1078	Basic Calculus 1 and 2	8 weeks
1079	Algebra - II	12 weeks
1080	Advanced Partial Differential Equations	12 weeks
1081	Essentials of Data Science With R Software - 1: Probability and Statistical Inference	12 weeks
1082	Essentials of Data Science With R Software - 2: Sampling Theory and Linear Regression Analysis	12 weeks
1083	Engineering Mechanics - Statics and Dynamics	8 weeks
1084	Metal Cutting and Machine Tools	4 weeks
1085	Gear and Gear Unit Design : Theory and Practice	8 weeks
1086	Laws of thermodynamics	4 weeks
1087	Kinematics of Mechanisms and Machines	8 weeks
1088	Introduction to Fluid Mechanics	12 weeks
1089	Conduction and Convection Heat Transfer	12 weeks
1090	Fundamental of Welding Science and Technology	8 weeks
1091	Automatic Control	8 weeks
1092	Failure Analysis and Prevention	8 weeks
1093	Principles of Industrial Engineering	12 weeks
1094	Inspection and Quality Control in Manufacturing	4 weeks
1095	Operations Management	12 weeks
1096	Steam and Gas Power Systems	8 weeks
1097	Mechanical Measurement Systems	8 weeks
1098	Principles of Casting Technology	8 weeks
1099	Financial Mathematics	12 weeks

1100	Modelling and Simulation of Dynamic Systems	8 weeks
1101	Mechatronics	8 weeks
1102	Explosions and Safety	12 weeks
1103	Manufacturing Process Technology I & II	12 weeks
1104	Design Practice	8 weeks
1105	Introduction to Robotics	12 weeks
1106	Muffler Acoustics-Application to Automotive Exhaust Noise Control	12 weeks
1107	Elements of Solar Energy Conversion	12 weeks
1108	Thermodynamics	12 weeks
1109	Finite element modeling of welding processes	12 weeks
1110	Robotics: Basics and Selected Advanced Concepts	12 weeks
1111	Machining Science	4 weeks
1112	Manufacturing Processes - Casting and Joining	4 weeks
1113	Wheeled Mobile Robots	8 weeks
1114	Viscous Fluid Flow	12 weeks
1115	Fundamentals of Combustion	12 weeks
1116	Robotics and Control : Theory and Practice	8 weeks
1117	Turbulent Combustion: Theory and Modelling	12 weeks
1118	Oil Hydraulics and Pneumatics	12 weeks
1119	Mechanics of Human Movement	12 weeks
1120	Fundamentals of Nuclear Power Generation	12 weeks
1121	Introduction to Machining and Machining Fluids	8 weeks
1122	Nature and Properties of Materials	8 weeks
1123	Smart Materials and Intelligent System Design	4 weeks
1124	Fundamentals of Combustion for Propulsion	8 weeks
1125	Experimental Methods in Fluid Mechanics	12 weeks
1126	Computational Fluid Dynamics and Heat Transfer	12 weeks
1127	Computer Integrated Manufacturing	12 weeks
1128	Product Design and Manufacturing	12 weeks
1129	Industrial Automation and Control	12 weeks
1130	IC Engines and Gas Turbines	12 weeks
1131	Design Thinking - A Primer	4 weeks
1132	Quality Design and Control	12 weeks
1133	Six Sigma	12 weeks
1134	Leadership for India Inc: Practical concepts and Constructs	12 weeks
1135	Modelling and Analytics for Supply Chain Management	12 weeks
1136	Business Ethics	12 weeks

1137	Carbon Materials and Manufacturing	12 weeks
1138	Cathodic Protection Engineering	4 weeks
1139	Mining Machinery	12 weeks
1140	Quantum Mechanics I	12 weeks
1141	Fluid Dynamics for Astrophysics	12 weeks
1142	Introduction to Astrophysical Fluids	12 weeks
1143	A brief course on Superconductivity	4 weeks
1144	The Future of Manufacturing Business: Role of Digital Technologies	12 weeks
1145	Theory of Production Processes	12 weeks
1146	Toyota Production System	4 weeks
1147	Work System Design	12 weeks
1148	An Introduction to Artificial Intelligence	12 weeks
1149	An Introduction To Programming Through C++	12 weeks
1150	Business Analytics For Management Decision	12 weeks
1151	Data Mining	4 weeks
1152	Design, Technology and Innovation	12 weeks
1153	Electric Vehicles - Part 1	12 weeks
1154	Entrepreneurship Essentials	4 weeks
1155	Financial Management For Managers	12 weeks
1156	Financial Mathematics	12 weeks
1157	Fundamentals of Automotive Systems	12 weeks
1158	Gear And Gear Unit Design : Theory And Practice	12 weeks
1159	German - I	4 weeks
1160	German - II	12 weeks
1161	Global Marketing Management	12 weeks
1162	Industrial Automation And Control	4 weeks
1163	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks
1164	Introduction to internet of things	12 weeks
1165	Manufacturing Process Technology I & II	12 weeks
1166	Modelling and Analytics for Supply Chain Management	12 weeks
1167	Operations Management	4 weeks
1168	Patent Law for Engineers and Scientists	12 weeks
1169	Principles of Industrial Engineering	12 weeks
1170	Problem solving through Programming In C	4 weeks
1171	Production and Operation Management	12 weeks
1172	Quantum Mechanics I	12 weeks
1173	Six Sigma	12 weeks

1174	The Joy of Computing using Python	12 weeks
1175	A brief introduction of Micro - Sensors	4 weeks
1176	Aircraft Maintenance	12 weeks
1177	Corrosion - Part I	4 weeks
1178	Effective Writing	12 weeks
1179	Emotional Intelligence	12 weeks
1180	Introduction to Accounting and Finance for Civil Engineers	12 weeks
1181	Machining Science	12 weeks
1182	Materials Science and Engineering	4 weeks
1183	Optical Sensors	12 weeks
1184	Principles of Casting Technology	12 weeks
1185	Programming in C++	4 weeks
1186	Programming, Data Structures And Algorithms Using Python	12 weeks
1187	Speaking Effectively	12 weeks
1188	Supply Chain Analytics	12 weeks
1189	Advance Aircraft Maintenance	12 weeks
1190	Advanced Fluid Mechanics	12 weeks
1191	Advanced Machining Processes	4 weeks
1192	Aircraft Propulsion	12 weeks
1193	Artificial Intelligence Search Methods For Problem Solving	12 weeks
1194	Automation in Manufacturing	12 weeks
1195	Basics of Materials Engineering	12 weeks
1196	Body language: Key to professional Success	4 weeks
1197	Business Analytics & Text Mining Modeling Using Python	12 weeks
1198	C Programming and Assembly Language	12 weeks
1199	Data Science for Engineers	4 weeks
1200	Design of steel structures	12 weeks
1201	Design Thinking - A Primer	12 weeks
1202	Developing Soft Skills and Personality	12 weeks
1203	Engineering Mathematics - I	12 weeks
1204	Engineering Mechanics	12 weeks
1205	Engineering Metrology	4 weeks
1206	Ethics in Engineering Practice	12 weeks
1207	Farm Machinery	12 weeks
1208	Fluid Machines	12 weeks
1209	Foundations of Cognitive Robotics	12 weeks
1210	Fundamentals of Electric vehicles: Technology & Economics	4 weeks

1211	Fundamentals of manufacturing processes	12 weeks
1212	Heat Exchangers: Fundamentals and Design Analysis	12 weeks
1213	Industrial Safety Engineering	4 weeks
1214	Innovation by Design	12 weeks
1215	Introduction to Machine Learning	12 weeks
1216	Knowledge Management	12 weeks
1217	Leadership	12 weeks
1218	Learning Analytics Tools	12 weeks
1219	Marketing research and analysis	4 weeks
1220	Nanotechnology in Agriculture	12 weeks
1221	Operations Research	12 weeks
1222	Organic Farming for Sustainable Agricultural Production	12 weeks
1223	Principles of Metal Forming Technology	12 weeks
1224	Product Design and Development	4 weeks
1225	Project management for managers	12 weeks
1226	Project Planning & Control	12 weeks
1227	Robotics	4 weeks
1228	Strength Of Materials	12 weeks
1229	Structural analysis-I	12 weeks
1230	Technical English for Engineers	12 weeks
1231	The Future of Manufacturing Business: Role of Additive Manufacturing	12 weeks
1232	Theory of Production Processes	12 weeks
1233	Work System Design	12 weeks
1234	CRASH COURSES ON PYTHON	39 Hrs
1235	PATHON BASICS	34 Hrs
1236	ALGORITHMIC TOOLBOX	40 Hrs
1237	WIND ENERGY	34 Hrs
1238	CRASH COURESE ON PYTHON	39 Hrs
1239	MASTERING DATA STRUCTURES & ALGPRITHMS USING C& C++	60 Hrs
1240	Communication Skills	2 weeks
1241	Python Basics	34 Hrs
1242	Wind Energy	34 Hrs
1243	Machine Design Part I	31 Hrs
1244	Energy Production, Distribution & Safety	40 Hrs
1245	Career Edge - Knockdown the Lockdown	5 Weeks
1246	Programming Foundations with JavaScript, HTML and CSS	33 Hrs

1247	Crash Course on Python	39 Hrs
1248	Foundatation of project planning and management	80 Hrs
1249	Four Days Online Training Program on "Geometric Dimensioning and Tolerancing"	32 hr
1250	One Week Students Development Program on "GATE Coaching with Tips and Tricks"	1 week

Year 4: AY 2019-20		
Sr. No.	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Duration of course
1251	Advanced Concrete Technology	12 weeks
1252	An Introduction to Materials: Nature and Properties (Part 1: Structure of Materials)	12 weeks
1253	An Introduction to Programming through C++	12 weeks
1254	Architectural Acoustics	12 weeks
1255	Concrete Technology	12 weeks
1256	Design of Masonry Structures	12 weeks
1257	Design of Reinforced Concrete Structures	12 weeks
1258	Design of steel structures	12 weeks
1259	Developing Soft Skills and Personality	12 weeks
1260	Disaster Recovery and Build Back Better	12 weeks
1261	Ethics in Engineering Practice	12 weeks
1262	Fluid Mechanics	12 weeks
1263	Foundation Engineering	12 weeks
1264	Global Navigation Satellite Systems and Applications	12 weeks
1265	GPS Surveying	12 weeks
1266	Integrated Waste Management for a Smart City	12 weeks

1267	Interpersonal Skills	12 weeks
1268	Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts	12 weeks
1269	Leadership	12 weeks
1270	Mathematical Methods for Boundary Value Problems	12 weeks
1271	Matrix Method of Structural Analysis	12 weeks
1272	Operations Research	12 weeks
1273	Principles of Construction Management	12 weeks
1274	Programming In Java	12 weeks
1275	Project Management	12 weeks
1276	Project Planning & Control	12 weeks
1277	Reinforced Concrete Road Bridges	12 weeks
1278	Role of Craft and Technology in Interior - Architecture	12 weeks
1279	Scheduling Techniques in Projects	12 weeks
1280	Strength of Materials	12 weeks
1281	Structural analysis-I	12 weeks
1282	Structural Dynamics for Civil Engineers - SDOF systems	12 weeks
1283	Sustainable Materials and Green Buildings	12 weeks
1284	The Joy of Computing using Python	12 weeks
1285	Wastewater Treatment and Recycling	12 weeks
1286	Water, Society and Sustainability	12 weeks
1287	Geotechnical Engineering Laboratory	12 weeks
1288	Programming in Java	12 weeks
1289	Programming, Data Structures and Algorithms using Python	8 weeks
1290	Data Science for Engineers	8 weeks
1291	Cloud Computing	11 weeks

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1292	Introduction to Internet of Things	12 weeks
1293	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks
1294	The Joy of Computing using Python - Online	12 weeks
1295	AI: Knowledge Representation and Reasoning	12 weeks
1296	Switching Circuits and Logic Design	8 weeks
1297	Introduction to Soft Computing	8 weeks
1298	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks
1299	Introduction to Soft Computing	12 weeks
1300	Data Science for Engineers	12 weeks
1301	Machine Learning, ML	12 weeks
1302	Programming, Data Structures and Algorithms using Python	8 weeks
1303	An Introduction To Programming Through C++	8 weeks
1304	Cloud computing	8 weeks
1305	Computer Architecture	8 weeks
1306	Cryptography and Network Security	8 weeks
1307	Data Analytics with Python	8 weeks
1308	Data Science for Engineers	8 weeks
1309	Data Structure and algorithms using Java	8 weeks
1310	Design and analysis of algorithms	8 weeks
1311	Discrete Mathematics	12 weeks
1312	Introduction to algorithms and analysis	8 weeks
1313	Introduction to Machine Learning	8 weeks
1314	Machine Learning, ML	8 weeks
1315	Operating System	12 weeks
1316	Problem solving through Programming In C	8 weeks
1317	Programming in C++	8 weeks

1318	Programming in Java	8 weeks
1319	Programming, Data Structures And Algorithms Using Python	8 weeks
1320	Python for Data Science	8 weeks
1321	Randomized Algorithms	8 weeks
1322	The Joy of Computing using Python	8 weeks
1323	Swayam Mooc Courses	8 /12 weeks
1324	Power System Engineering	12weeks
1325	Electric Vehicles - Part 1	4 weeks
1326	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	8 weeks
1327	Principals of communication systems-1	12weeks
1328	Power System Analysis - Online	12weeks
1329	A brief introduction of Micro - Sensors	12weeks
1330	Advance power electronics and Control	12weeks
1331	An Introduction to Artificial Intelligence	12weeks
1332	An Introduction to Coding Theory	12weeks
1333	Analog Electronic Circuit	12weeks
1334	Application of Spectroscopic Methods in Molecular Structure Determination	12weeks
1335	Applied Electromagnetics For Engineers	12weeks
1336	Basic Electrical Circuits	12weeks
1337	C Programming and Assembly Language	12weeks
1338	Cloud computing	12weeks
1339	Cloud computing	12weeks
1340	Computer Networks and Internet Protocol	12weeks
1341	Control engineering	12weeks

1342	Cryptography and Network Security	12weeks
1343	Data Science for Engineers	12weeks
1344	Deep Learning	12weeks
1345	Deep Learning for Computer Vision	12weeks
1346	Design and Simulation of Power conversion using open source tools	12weeks
1347	Digital Circuits	12weeks
1348	Digital Image Processing	12weeks
1349	Digital VLSI Testing	12weeks
1350	Discrete Mathematics	12weeks
1351	Ecology and Environment	12weeks
1352	Ecology and Society	12weeks
1353	Electromagnetism	12weeks
1354	Embedded System Design with ARM	12weeks
1355	Embedded Systems Design	12weeks
1356	Energy Economics And Policy	12weeks
1357	Engineering Mathematics - I	12weeks
1358	English Language for Competitive Exams	12weeks
1359	Enhancing Soft Skills and Personality	12weeks
1360	Ethics in Engineering Practice	12weeks
1361	Ethics in Engineering Practice	12weeks
1362	Fundamentals Of Artificial Intelligence	12weeks
1363	Fundamentals of electronic device fabrication	12weeks
1364	Gender justice and workplace security	12weeks
1365	German - I	12weeks
1366	German - II	12weeks
1367	Google Cloud Computing Foundations	12weeks

1368	Hardware modeling using verilog	12weeks
1369	Introduction to Embedded System Design	12weeks
1370	Introduction to internet of things	12weeks
1371	Introduction to internet of things	12weeks
1372	Introduction to internet of things	12weeks
1373	Introduction To Japanese Language And Culture	12weeks
1374	Introduction to Machine Learning	12weeks
1375	Introduction to Machine Learning	12weeks
1376	Introduction to Programming in C	12weeks
1377	Introduction to robotics	12weeks
1378	Introduction to Wireless and Cellular Communications	12weeks
1379	Machine Learning, ML	12weeks
1380	Matlab Programming for Numerical Computation	12weeks
1381	Microelectronics: Devices To Circuits	12weeks
1382	Microprocessors And Microcontrollers	12weeks
1383	Multi-Core Computer Architecture - Storage and Interconnects	12weeks
1384	Network Analysis	12weeks
1385	Op-Amp Practical Applications: Design, Simulation and Implementation	12weeks
1386	Ordinary and Partial Differential Equations and Applications	12weeks
1387	Organizational Behaviour	12weeks
1388	Power Electronics	12weeks
1389	Practical Machine Learning with Tensorflow	12weeks
1390	Problem solving through Programming In C	12weeks
1391	Programming in C++	12weeks
1392	Programming in C++	12weeks

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1393	Programming in Java	12weeks
1394	Programming, Data Structures And Algorithms Using Python	12weeks
1395	Programming, Data Structures And Algorithms Using Python	12weeks
1396	Python for Data Science	12weeks
1397	Python for Data Science	12weeks
1398	Reinforcement Learning	12weeks
1399	Scalable Data Science	12weeks
1400	Science, Technology and Society	12weeks
1401	Speaking Effectively	12weeks
1402	Technical English for Engineers	12weeks
1403	The Joy of Computing using Python	12weeks
1404	The Joy of Computing using Python	12weeks
1405	VLSI Signal Processing	12weeks
1406	Introduction to Aerospace Engineering - Flight	12 weeks
1407	Design of fixed wing Unmanned Aerial Vehicles	8 weeks
1408	Introduction to Ancient Indian Technology	8 weeks
1409	Introduction to Rocket Propulsion	12 weeks
1410	Vibration and Structural Dynamics	8 weeks
1411	Aircraft Stability and Control	12 weeks
1412	Fundamentals of Food Process Engineering	12 weeks
1413	Dairy and Food process and products technology	12 weeks
1414	Thermal operations in food process engineering: Theory and applications	12 weeks
1415	Thermal Processing of Foods	12 weeks
1416	Genetic Engineering: Theory and Application	12 weeks
1417	Industrial Biotechnology	12 weeks

1418	Computer Aided Drug Design	8 weeks
1419	Introduction to Mechanobiology	8 weeks
1420	Strength of Materials	12 weeks
1421	Fluid Mechanics	8 weeks
1422	Project Planning & Control	8 weeks
1423	Geotechnical Engineering Laboratory	4 weeks
1424	GPS Surveying	4 weeks
1425	Heat Transfer	12 weeks
1426	Programming in C++	8 weeks
1427	An Introduction to Programming through C++	12 weeks
1428	Programming, Data Structures and Algorithms Using Python	8 weeks
1429	The Joy of Computing using Python	12 weeks
1430	Introduction to Programming in C	8 weeks
1431	C Programming and Assembly Language	4 weeks
1432	Data Base Management System	8 weeks
1433	Design and analysis of algorithms	8 weeks
1434	Discrete Mathematics	12 weeks
1435	Introduction to Machine Learning	12 weeks
1436	Applied Natural Language Processing	12 weeks
1437	Computer Vision	12 weeks
1438	Python for Data Science	4 weeks
1439	Data Science for Engineers	8 weeks
1440	Blockchain Architecture Design and Use Cases	12 weeks
1441	Cloud Computing	8 weeks
1442	Introduction to Internet of Things	12 weeks
1443	Social Networks	12 weeks

1444	Discrete Mathematics	12 weeks
1445	Ethical Hacking	12 weeks
1446	Theory of Computation	8 weeks
1447	Practical Machine Learning with Tensorflow	8 weeks
1448	Machine Learning for Engineering and Science Applications	12 weeks
1449	Programming In Java	12 weeks
1450	Metals in Biology	8 weeks
1451	Ergonomics in Automotive Design	4 weeks
1452	Ergonomics Workplace Analysis	4 weeks
1453	Innovation by Design	4 weeks
1454	Understanding Design	4 weeks
1455	Fundamentals of Electrical Engineering	12 weeks
1456	Sensors and Actuators	12 weeks
1457	Computational Electromagnetics	12 weeks
1458	Stress Management	4 weeks
1459	Numerical Methods for Engineers	12 weeks
1460	Biology for engineers and other non-biologists	4 weeks
1461	Game theory	8 weeks
1462	Technical english for engineers	8 weeks
1463	Developing Soft Skills and Personality	8 weeks
1464	Body Language: Key to Professional Success	4 weeks
1465	Ethics in Engineering Practice	8 weeks
1466	Interpersonal Skills	8 weeks
1467	The Psychology of Language	8 weeks
1468	Applied Linguistics	12 weeks
1469	German-II	12 weeks

1470	German-1	12 weeks
1471	Text, Textuality and Digital Media	12 weeks
1472	Psychology of Everyday	4 weeks
1473	Development Research Methods	8 weeks
1474	Positive Psychology	8 weeks
1475	Consumer Psychology	8 weeks
1476	Patent Law for Engineers and Scientists	12 weeks
1477	Patent Drafting for Beginners	4 weeks
1478	Numerical methods	8 weeks
1479	Higher Engineering Mathematics	12 weeks
1480	Mathematical Finance	12 weeks
1481	Introduction to methods of Applied Mathematics	12 weeks
1482	Industrial Safety Engineering	12 weeks
1483	Engineering Mechanics	12 weeks
1484	Engineering Fracture Mechanics	12 weeks
1485	Solid Mechanics	12 weeks
1486	Fundamentals of manufacturing processes	12 weeks
1487	Manufacturing Systems Technology Part I & II	12 weeks
1488	Computer numerical control CNC of machine tools and processes	4 weeks
1489	Mathematical Modeling Of Manufacturing Processes	12 weeks
1490	Design for Quality, Manufacturing and Assembly	8 weeks
1491	Design Practice	8 weeks
1492	Work System Design	12 weeks
1493	Product Design using Value Engineering	4 weeks
1494	Principles of Metal Forming Technology	8 weeks
1495	Advanced Concepts in Fluid Mechanics	12 weeks

1496	Two-Phase Flow with Phase Change in Conventional and Miniature Channels	4 weeks
1497	Fluid Machines	8 weeks
1498	Concepts of Thermodynamics	12 weeks
1499	Applied Thermodynamics for Engineers	12 weeks
1500	Refrigeration and air-conditioning	8 weeks
1501	Fundamentals of Conduction and Radiation	12 weeks
1502	Energy Conservation and Waste Heat Recovery	12 weeks
1503	Heat Exchangers: Fundamentals and Design Analysis	12 weeks
1504	Turbulent Combustion: Theory and Modelling	12 weeks
1505	Dynamic Behaviour of Materials	12 weeks
1506	Manufacturing of Composites	8 weeks
1507	Smart Materials and Intelligent System Design	4 weeks
1508	Fundamentals of Surface Engineering : Mechanisms, Processes and Characterizations	12 weeks
1509	Engineering Metrology	12 weeks
1510	Fundamentals of Artificial Intelligence	12 weeks
1511	Noise Management and Control	12 weeks
1512	Robotics	8 weeks
1513	A short lecture series on contour integration in the complex plane	4 weeks
1514	Aircraft Propulsion	12 weeks
1515	Convective Heat Transfer	12 weeks
1516	Manufacturing Automation	4 weeks
1517	Project Management	8 weeks
1518	Project management for managers	12 weeks
1519	Training of Trainers	12 weeks

1520	Knowledge Management	8 weeks
1521	Leadership	4 weeks
1522	Educational Leadership	8 weeks
1523	Financial Accounting	8 weeks
1524	Cost Accounting	4 weeks
1525	Financial Derivatives & Risk Management	12 weeks
1526	Working Capital Management	12 weeks
1527	Decision-Making Under Uncertainty	4 weeks
1528	Decision making using financial accounting	8 weeks
1529	Marketing Management-I	8 weeks
1530	Performance and Reward management	12 weeks
1531	Corporate Social Responsibility	8 weeks
1532	E-Business	12 weeks
1533	Innovation, Business Models and Entrepreneurship	8 weeks
1534	Toyota Production System	8 weeks
1535	Intellectual Property Rights and Competition Law	8 weeks
1536	Patent Search for Engineers and Lawyers	8 weeks
1537	Design Thinking - A Primer	4 weeks
1538	Advanced Materials and Processes	12 weeks
1539	An Introduction to Materials: Nature and Properties (Part 1: Structure of Materials)	8 weeks
1540	Welding Metallurgy	12 weeks
1541	Transport Phenomena in Materials	12 weeks
1542	Introduction to Statistical Mechanics	8 weeks
1543	Numerical Methods and Simulation Techniques for Scientists and Engineers	8 weeks

1544	Theoretical Mechanics	8 weeks
1545	Computational Physics	12 weeks
1546	Programming in Java	12 weeks
1547	Product Design and Manufacturing	12 weeks
1548	Gear And Gear Unit Design : Theory And Practice	8 weeks
1549	Advance Aircraft Maintenance	12 weeks
1550	Satellite Attitude Dynamics and Control	12 weeks
1551	Design of fixed wing Unmanned Aerial Vehicles	12 weeks
1552	Introduction to Rocket Propulsion	12 weeks
1553	Novel Technologies for Food Processing and Shelf Life Extension	12 weeks
1554	Demystifying the Brain	8 weeks
1555	Bioengineering: An Interface with Biology and Medicine	12 weeks
1556	Bioenergy	12 weeks
1557	Biomedical nanotechnology	8 weeks
1558	Tissue engineering	8 weeks
1559	Introduction to Remote Sensing	8 weeks
1560	Strength of Materials	12 weeks
1561	Waste to Energy Conversion	12 weeks
1562	Problem solving through Programming In C	12 weeks
1563	Programming in Java	12 weeks
1564	Programming, Data Structures and Algorithms using Python	12 weeks
1565	Joy of computing using Python	12 weeks
1566	Programming In C++	12 weeks
1567	Introduction to Industry 4.0 and Industrial Internet of Things	8 weeks
1568	Machine Learning, ML	12 weeks
1569	An Introduction to Programming through C++	12 weeks

1570	The Joy of Computing using Python	8 weeks
1571	Introduction to Programming in C	8 weeks
1572	C Programming and Assembly Language	8 weeks
1573	Discrete Mathematics	12 weeks
1574	Python for Data Science	8 weeks
1575	Cloud Computing	12 weeks
1576	Ethical Hacking	12 weeks
1577	Theory of Computation	12 weeks
1578	Practical Machine Learning with Tensorflow	12 weeks
1579	Artificial Intelligence : Search Methods for Problem Solving	12 weeks
1580	Organic Chemistry in Biology and Drug Development	8 weeks
1581	Quantum Computing	12 weeks
1582	Analog Electronic Circuit	12 weeks
1583	Digital Circuits	8 weeks
1584	Entrepreneurship Essentials	8 weeks
1585	Matlab Programming for Numerical Computation	8 weeks
1586	Concepts of Thermodynamics	12 weeks
1587	Problem Solving through Programming in C	12 weeks
1588	Programming In Java	12 weeks
1589	Programming, Data Structures and Algorithms Using Python	12 weeks
1590	Non-Conventional Energy Resources	12 weeks
1591	Biology for engineers and other non-biologists	12 weeks
1592	Psychiatry - An overview	12 weeks
1593	Better Spoken English	8 weeks
1594	Employment Communication - A Lab based course	12 weeks
1595	Enhancing Soft Skills and Personality	12 weeks

1596	Technical english for engineers	8 weeks
1597	Developing Soft Skills and Personality	8 weeks
1598	Soft skills	8 weeks
1599	Body Language: Key to Professional Success	12 weeks
1600	Interpersonal Skills	8 weeks
1601	Population Studies	12 weeks
1602	German-II	12 weeks
1603	German-I	12 weeks
1604	Introduction to Japanese Language and Culture	12 weeks
1605	Text, Textuality and Digital Media	12 weeks
1606	Patent Drafting for Beginners	8 weeks
1607	Engineering Mathematics - I	12 weeks
1608	Advanced Engineering Mathematics	12 weeks
1609	Mathematical Methods and its Applications	8 weeks
1610	Operations Research	8 weeks
1611	Engineering Mechanics - Statics and Dynamics	8 weeks
1612	Principles of Mechanical Measurement	12 weeks
1613	Industrial Automation and Control	12 weeks
1614	Steam and Gas Power Systems	12 weeks
1615	IC Engines and Gas Turbines	12 weeks
1616	Thermodynamics	12 weeks
1617	Concepts of Thermodynamics	12 weeks
1618	Introduction to Fluid Mechanics	12 weeks
1619	Joining Technologies for metals	8 weeks
1620	Principles of Casting Technology	12 weeks
1621	Manufacturing Process Technology	12 weeks

1622	Product Design and Development	8 weeks
1623	Manufacturing Guidelines for Product Design	8 weeks
1624	Product Design and Manufacturing	8 weeks
1625	Inspection and Quality Control in Manufacturing	12 weeks
1626	Kinematics of Mechanisms and Machines	8 weeks
1627	Financial Mathematics	12 weeks
1628	Modelling and Simulation of Dynamic Systems	12 weeks
1629	Fundamentals of manufacturing processes	12 weeks
1630	Computer numerical control CNC of machine tools and processes	12 weeks
1631	Design for Quality, Manufacturing and Assembly	12 weeks
1632	Fluid Machines	8 weeks
1633	Steam Power Engineering	12 weeks
1634	Fundamentals of Artificial Intelligence	12 weeks
1635	Aircraft Propulsion	8 weeks
1636	Manufacturing Automation	8 weeks
1637	Principles Of Human Resource Management	8 weeks
1638	Consumer Behaviour	12 weeks
1639	Soft Skills For Business Negotiations And Marketing Strategies	12 weeks
1640	Business Statistics	12 weeks
1641	Six Sigma	12 weeks
1642	Manufacturing Strategy	12 weeks
1643	Operations and supply chain management	12 weeks
1644	Advanced Green Manufacturing Systems	12 weeks
1645	Project management for managers	8 weeks
1646	Cost Accounting	12 weeks
1647	Business Analytics & Data Mining Modeling Using R Part II	12 weeks

1648	Toyota Production System	8 weeks
1649	Material Science and Engineering	8 weeks
1650	Introduction to Materials Science and Engineering	8 weeks
1651	Friction and Wear of Materials: Principles and Case Studies	12 weeks
1652	Surface Engineering for Corrosion and Wear Resistance Application	8 weeks
1653	Theory And Practice Of Non Destructive Testing	12 weeks
1654	Material Characterization	12 weeks
1655	Defects in Crystalline Solids (Part-II)	8 weeks
1656	Welding Processes	8 weeks
1657	Advanced Materials and Processes	8 weeks
1658	An Introduction to Materials: Nature and Properties (Part 1: Structure of Materials)	12 weeks
1659	Fundamentals and Applications of Dielectric Ceramics	12 weeks
1660	A brief course on Superconductivity	12 weeks
1661	Non-Conventional Energy Resources	12 weeks
1662	Computational Fluid Dynamics	12 weeks
1663	Consumer Behaviour	12 weeks
1664	Descriptive Statistics with R Software	12 weeks
1665	Design Thinking - A Primer	12 weeks
1666	Digital Land Surveying And Mapping (DLS & M)	12 weeks
1667	Earth Sciences For Civil Engineering Part - I & II	12 weeks
1668	Effective Engineering Teaching In Practice	12 weeks
1669	Electronic Waste Management - Issues And Challenges	8 weeks
1670	Emotional Intelligence	12 weeks
1671	Energy Efficiency, Acoustics and Daylighting in Building	12 weeks
1672	Engineering Mathematics - I	8 weeks

1673	Engineering Mechanics - Statics and Dynamics	8 weeks
1674	English language for Competitive exams	8 weeks
1675	Enhancing Soft Skills and Personality	12 weeks
1676	Entrepreneurship Essentials	12 weeks
1677	Fuzzy Logic and Neural Networks	12 weeks
1678	Geosynthetics And Reinforced Soil Structures	12 weeks
1679	Geotechnical Engineering II Foundation Engineering	12 weeks
1680	Housing Policy & Planning	12 weeks
1681	Hydration, Porosity & Strength of Cementitious Materials	12 weeks
1682	Infrastructure Planning and Management	8 weeks
1683	Integral and Vector Calculus	12 weeks
1684	Introduction to Fluid Mechanics	12 weeks
1685	Introduction to Political Theory	8 weeks
1686	Introduction to Remote Sensing	8 weeks
1687	Introduction to Soft Computing	8 weeks
1688	Kinematics of Mechanisms and Machines	12 weeks
1689	Matlab Programming for Numerical Computation	8 weeks
1690	Plastic Waste Management	12 weeks
1691	Principles and Applications of Building Science	12 weeks
1692	Principles Of Human Resource Management	8 weeks
1693	Probability and Statistics	8 weeks
1694	Qualitative Research Methods and Research Writing	12 weeks
1695	Six Sigma	8 weeks
1696	Soft Skills For Business Negotiations And Marketing Strategies	12 weeks
1697	Soil Mechanics / Geotechnical Engineering I	12 weeks
1698	Statistical Mechanics	8 weeks

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1699	Teaching And Learning in Engineering (TALE)	8 weeks
1700	Moral Foundation of Politics	44 Hrs
1701	Vector Calculus for Engineers	30 Hrs
1702	Hands on Workshop on IOT and its Applications	32 hrs
1703	Self-Development Training for FE Student	31hr
1704	Soft Skills Training for SE Student	50 hr
1705	Mathematical Aptitude Training for TE Student	175 hr
1706	Professional Skill Training for BE Student	96 hr

Year 5: AY 2018-19		
Sr. No.	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Duration of course
1707	Artificial Intelligence: Knowledge Representation and Reasoning	12 weeks
1708	Programming in C++	8 weeks
1709	Deep Learning	12 weeks
1710	Computer Organization and Architecture A Pedagogical Aspect	12 weeks
1711	Introduction to Modern Application Development	8 weeks
1712	Advanced Graph Theory	12 weeks
1713	Embedded Systems Design	12 weeks
1714	Cryptography and Network Security	8 weeks
1715	Introduction to Internet of Things	12 weeks
1716	Wireless Ad Hoc and Sensor Networks	12 weeks
1717	Data Mining	8 weeks
1718	Database Management System	12 weeks

1719	Cloud Computing	12 weeks
1720	Artificial Intelligence: Knowledge Representation and Reasoning	8 weeks
1721	AI:Constraint Satisfaction	12 weeks
1722	Design and Analysis of Algorithms	12 weeks
1723	Programming, Data Structures and Algorithms using Python	8 weeks
1724	Information Security - IV	12 weeks
1725	Programming, Data Structures and Algorithms using C	12 weeks
1726	Introduction to Machine Learning	8 weeks
1727	Reinforcement Learning	12 weeks
1728	Data Science for Engineers	12 weeks
1729	Swayam Mooc Courses	8 / 12 weeks
1730	Control Engineering	12 weeks
1731	Analog Circuits	8 weeks
1732	Advanced Linear Continuous Control Systems	8 weeks
1733	Power System Engineering	12 weeks
1734	Soft skills	8 weeks
1735	Digital Circuit	12 weeks
1736	Introduction to Smart Grid	8 weeks
1737	Analog circuits	12weeks
1738	Analog communication	12weeks
1739	Analog Electronic Circuit	12weeks
1740	Basic electrical circuits	12weeks
1741	Basic Electronics	12weeks
1742	Basics of software-defined radios and practical applications	12weeks
1743	Better Spoken English	12weeks
1744	Brief Introduction to Psychology	12weeks

1745	Cloud Computing	12weeks
1746	Computer Networks and Internet Protocol	12weeks
1747	Control Engineering	12weeks
1748	Data Base Management Systems	12weeks
1749	Developing Soft Skills and Personality	12weeks
1750	Digital Circuits	12weeks
1751	Discrete Time Signal Processing	12weeks
1752	Embedded Systems Design	12weeks
1753	English Language for Competitive Exams	12weeks
1754	Groups : Motion, symmetry and puzzles	12weeks
1755	Hardware modeling using verilog	12weeks
1756	Introduction to Internet of Things	12weeks
1757	Introduction to Machine Learning	12weeks
1758	Introduction to Programming in C	12weeks
1759	Introduction to Wireless and Cellular Communications	12weeks
1760	Microprocessors and Microcontrollers	12weeks
1761	Op-Amp Practical Applications: Design, Simulation and Implementation	12weeks
1762	Principles of Communication Systems - I	12weeks
1763	Principles of Digital Communications	12weeks
1764	Principles of Signals and Systems	12weeks
1765	Problem Solving through Programming in C	12weeks
1766	Programming, Data Structures and Algorithms using C	12weeks
1767	Scalable Data Science	12weeks
1768	Semiconductor Devices and Circuits	12weeks
1769	Technical english for engineers	12weeks

1770	Fundamentals of Combustion (Part 2)	08 weeks
1771	Engineering Thermodynamics	12 weeks
1772	Aircraft Stability and Control	12 weeks
1773	Design of fixed wing Unmanned Aerial Vehicles	08 weeks
1774	Introduction to Finite Volume Methods I	08 weeks
1775	Farm Machinery	12 weeks
1776	Organic Farming for Sustainable Agricultural Production	08 weeks
1777	Irrigation and Drainage	12 weeks
1778	Fundamentals of Food Process Engineering	12 weeks
1779	Soil and Water Conservation Engineering	12 weeks
1780	Dairy and Food process and products technology	12 weeks
1781	Role of Craft and Technology in Interior - Architecture	08 weeks
1782	Biomedical nanotechnology	04 weeks
1783	Biology for engineers and other non-biologists	04 weeks
1784	Nanotechnology in Agriculture	08 weeks
1785	WildLife Conservation	08 weeks
1786	Strength of materials	12 weeks
1787	Matrix Method of Structural Analysis	08 weeks
1788	Integrated Waste Management for a Smart City	12 weeks
1789	Wastewater Treatment and Recycling	12 weeks
1790	Project planning and control	08 weeks
1791	Phase equilibrium thermodynamics	08 weeks
1792	Heat Transfer	12 weeks
1793	Natural Gas Engineering	08 weeks
1794	Problem Solving through Programming in C	12 weeks
1795	Programming in C++	08 weeks

1796	Introduction to Programming in C	08 weeks
1797	Programming, Data Structures and Algorithms using Python	08 weeks
1798	The Joy of Computing using Python	12 weeks
1799	Design and Analysis of Algorithms	08 weeks
1800	Introduction to Machine Learning	08 weeks
1801	Deep Learning	12 weeks
1802	Software testing	12 weeks
1803	Artificial Intelligence : Search Methods For Problem solving	12 weeks
1804	Introduction to parallel Programming in Open MP	04 weeks
1805	Advanced Chemical Thermodynamics and Kinetics	12 weeks
1806	Product Design and Innovation	04 weeks
1807	Interaction Design	04 weeks
1808	Yarn manufacture I : Principle of Carding and Drawing	08 weeks
1809	Science of Clothing Comfort	12 weeks
1810	Control Engineering	12 weeks
1811	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	08 weeks
1812	Digital Circuits	12 weeks
1813	Control systems	12 weeks
1814	Manage TB	08 weeks
1815	Introduction to Research	08 weeks
1816	Neuroscience of Human Movement	12 weeks
1817	Non-Conventional Energy Resources	12 weeks
1818	Symbolic Logic	08 weeks
1819	Stress Management	04 weeks
1820	Technical english for engineers	08 weeks

1821	English Language for Competitive Exams	12 weeks
1822	Soft skills	12 weeks
1823	Developing Soft Skills and Personality	08 weeks
1824	Applied linguistics	12 weeks
1825	Consumer Psychology	08 weeks
1826	Introduction to probability and Statistics	04 weeks
1827	Calculus of One Real Variable	08 weeks
1828	Integral Equations, Calculus of variations and its applications	12 weeks
1829	Ordinary and Partial Differential Equations and Applications	12 weeks
1830	Numerical methods	08 weeks
1831	Transform Techniques for Engineers	12 weeks
1832	Matrix Solver	12 weeks
1833	Matrix Analysis with Applications	08 weeks
1834	Mathematical Modelling: Analysis and Applications	04 weeks
1835	Groups : Motion, symmetry and puzzles	04 weeks
1836	Statistical Inference	08 weeks
1837	RAC Product Design	04 weeks
1838	Heat Exchangers: Fundamentals and Design Analysis	12 weeks
1839	Energy conservation and waste heat recovery	12 weeks
1840	Laws of thermodynamics	04 weeks
1841	Refrigeration And Air-Conditioning	08 weeks
1842	Fluid dynamics and turbomachines	08 weeks
1843	Computational Fluid Dynamics	12 weeks
1844	Principles of Metal Forming Technology	08 weeks
1845	Principles of Casting Technology	08 weeks
1846	Fundamentals of manufacturing processes	12 weeks

1847	Manufacturing Systems Technology I & II	12 weeks
1848	Design for Quality, Manufacturing and Assembly	08 weeks
1849	Mechanics of Human Movement	12 weeks
1850	Mechanics of Machining	08 weeks
1851	Processing of Polymers and Polymer Composites	08 weeks
1852	Advanced Composites	12 weeks
1853	Manufacturing of Composites	08 weeks
1854	Smart Materials and Intelligent System Design	04 weeks
1855	Robotics	08 weeks
1856	Engineering Metrology	12 weeks
1857	Noise Management and Control	12 weeks
1858	Principles of Hydraulic Machines and System Design	08 weeks
1859	Fundamentals of Surface Engineering : Mechanisms, Processes and Characterizations	12 weeks
1860	Surrogates and Approximations in Engineering Design	04 weeks
1861	Work System Design	12 weeks
1862	Design Practice - II	08 weeks
1863	Introduction to Abrasive Machining and Finishing Processes	08 weeks
1864	Engineering fracture mechanics	12 weeks
1865	Experimental Stress Analysis-An Overview	04 weeks
1866	Economic Growth and Development	08 weeks
1867	Engineering Econometrics	12 weeks
1868	Ethics in Engineering Practice	08 weeks
1869	Human Resource Development	12 weeks
1870	Corporate social responsibility	08 weeks
1871	Leadership	04 weeks

1872	Marketing Management-I	08 weeks
1873	Marketing research and analysis	08 weeks
1874	E-business	12 weeks
1875	Innovation, Business Models and Entrepreneurship	08 weeks
1876	Simulation of Business Systems: An Applied Approach	08 weeks
1877	Total Quality Management - I	08 weeks
1878	Introduction to Operations Research	08 weeks
1879	Industrial Safety Engineering	12 weeks
1880	Management of Inventory Systems	12 weeks
1881	Nature and Properties of Materials	08 weeks
1882	Defects in Crystalline Solids (Part-I)	08 weeks
1883	Advanced Materials and Processes	12 weeks
1884	Corrosion - Part I	08 weeks
1885	Analysis and Modeling of Welding	08 weeks
1886	Steel Quality : Role of Secondary Refining & Continuous Casting	12 weeks
1887	Drilling and Blasting Technology	08 weeks
1888	Phase Equilibria in Materials (Nature & Properties of Materials-II)	08 weeks
1889	Welding of Advanced High Strength Steels for Automotive Applications	04 weeks
1890	Solid state physics	12 weeks
1891	Introduction to Airplane Performance	12 weeks
1892	Advance Aircraft Maintenance	12 weeks
1893	Satellite Attitude Dynamics and Control	08 weeks
1894	Computational Fluid Dynamics	12 weeks
1895	Waste to Energy Conversion	08 weeks
1896	Problem solving through Programming In C	08 weeks

1897	Programming, Data Structures and Algorithms using Python	12 weeks
1898	Joy of computing using Python	08 weeks
1899	Programming In C++	08 weeks
1900	Machine Learning for Engineering and Science Applications	12 weeks
1901	AI: Knowledge Representation and Reasoning	12 weeks
1902	Embedded System Design with ARM	12 weeks
1903	Blockchain Architecture Design and Use Cases	04 weeks
1904	Cryptography and Network Security	12 weeks
1905	Machine Learning, ML	04 weeks
1906	Electrochemical impedance Spectroscopy	04 weeks
1907	Entrepreneurship Essentials	08 weeks
1908	Matlab Programming for Numerical Computation	12 weeks
1909	Patent Law For Engineers And Scientists	12 weeks
1910	Introduction to Basic Cognitive Processes	08 weeks
1911	Better Spoken English	12 weeks
1912	Enhancing Soft Skills and Personality	12 weeks
1913	An Introduction to Microeconomics	08 weeks
1914	Engineering Mathematics - I	08 weeks
1915	Basic Linear Algebra	12 weeks
1916	Statistical Inference	12 weeks
1917	Advanced Engineering Mathematics	08 weeks
1918	Engineering Mechanics - Statics and Dynamics	04 weeks
1919	Basics of Finite Element Analysis-I	08 weeks
1920	Industrial Automation and Control	12 weeks
1921	Automatic Control	12 weeks
1922	Conduction and Convection Heat Transfer	08 weeks

1923	Convective Heat Transfer	12 weeks
1924	Radiative Heat Transfer	08 weeks
1925	Steam and Gas Power Systems	04 weeks
1926	IC Engines and Gas Turbines	08 weeks
1927	Thermodynamics	12 weeks
1928	Concepts of Thermodynamics	12 weeks
1929	Introduction to Fluid Mechanics	08 weeks
1930	Fundamentals of Welding Science and Technology	12 weeks
1931	Joining Technologies for metals	12 weeks
1932	Weldability of Metals	08 weeks
1933	Manufacturing Process Technology	04 weeks
1934	Product Design and Development	04 weeks
1935	Manufacturing Guidelines for Product Design	08 weeks
1936	Product Design and Manufacturing	04 weeks
1937	Rapid Manufacturing	12 weeks
1938	Inspection and Quality Control in Manufacturing	12 weeks
1939	Introduction To Mechanical Micro Machining	04 weeks
1940	Machinery Fault Diagnosis And Signal Processing	08 weeks
1941	Kinematics of Mechanisms and Machines	08 weeks
1942	Surface Engineering of Nanomaterials	12 weeks
1943	Introduction to Machining and Machining Fluids	08 weeks
1944	Introduction To Composites	08 weeks
1945	Financial Mathematics	12 weeks
1946	BioMEMS and Microsystems	12 weeks
1947	Modelling and Simulation of Dynamic Systems	08 weeks
1948	Services Marketing: A Practical Approach	12 weeks

1949	Six Sigma	08 weeks
1950	Advanced Green Manufacturing Systems	08 weeks
1951	Systems Engineering: Theory & Practice	12 weeks
1952	Business analytics and data mining Modeling using R	08 weeks
1953	Friction and Wear of Materials: Principles and Case Studies	04 weeks
1954	Welding Processes	08 weeks
1955	Experimental Physics I	12 weeks
1956	Quantum Mechanics I	12 weeks
1957	A brief course on Superconductivity	08 weeks
1958	Aircraft Maintenance	04 weeks
1959	An Introduction to Materials: Nature and Properties (Part 1: Structure of Materials)	08 weeks
1960	Automatic Control	04 weeks
1961	Bioenergy	12 weeks
1962	Design and Analysis of Experiments	12 weeks
1963	Engineering Thermodynamics	04 weeks
1964	Enhancing Soft Skills and Personality	08 weeks
1965	Failure Analysis and Prevention	08 weeks
1966	Fundamentals of manufacturing processes	12 weeks
1967	Gear and Gear Unit Design : Theory and Practice	08 weeks
1968	Heat Treatment and Surface Hardening - I	08 weeks
1969	Introduction to Materials Science and Engineering	12 weeks
1970	Management of New Products and Services	12 weeks
1971	Operations Management	08 weeks
1972	Patent Drafting for Beginners	12 weeks
1973	Principles of Human Resource Management	08 weeks

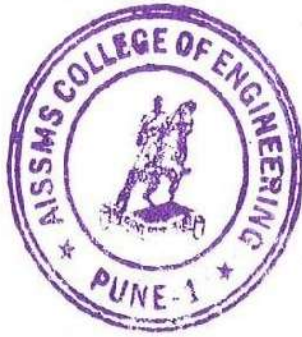| 1974	Product Design and Innovation	08 weeks
1975	Product Design and Manufacturing	12 weeks
1976	Project Management	08 weeks
1977	Quality Design and Control	04 weeks
1978	Six Sigma	08 weeks
1979	Smart Materials and Intelligent System Design	12 weeks
1980	Stress Management	04 weeks
1981	Total Quality Management - II	08 weeks
1982	Cloud Computing	04 weeks
1983	Computer Architecture	12 weeks
1984	Corrosion - Part I	12 weeks
1985	Design for Quality, Manufacturing and Assembly	04 weeks
1986	Design of fixed wing Unmanned Aerial Vehicles	08 weeks
1987	Design Practice - II	08 weeks
1988	Developing Soft Skills and Personality	12 weeks
1989	Engineering Metrology	08 weeks
1990	English Language for Competitive Exams	08 weeks
1991	Experimental Stress Analysis-An Overview	12 weeks
1992	Farm Machinery	12 weeks
1993	Fundamentals of Combustion - I	08 weeks
1994	Human Resource Development	12 weeks
1995	Indian Fiction in English	08 weeks
1996	Industrial Safety Engineering	08 weeks
1997	Introduction to Internet of Things	12 weeks
1998	Introduction to Machine Learning	08 weeks
1999	Introduction to Operations Research	04 weeks

2000	Leadership	08 weeks
2001	Mathematical Modelling: Analysis and Applications	12 weeks
2002	Product Design and Development	12 weeks
2003	RAC Product Design	08 weeks
2004	Robotics	12 weeks
2005	Simulation of Business Systems: An Applied Approach	08 weeks
2006	Strength of materials	08 weeks
2007	Welding of Advanced High Strength Steels for Automotive Applications	12 weeks
2008	Work System Design	08 weeks
2009	Value Added Course on ' Chemical Process Design	35 Hours
2010	5 days' workshop on "Embedded C with Aurdino"	5 Days