

1.1.2 The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements.

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1.1.2 The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

S.No.	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
B. E. Mechanical Engineering			
1	Manufacturing Processes	18ME301	Skill development
2	Engineering Mechanics	18ME302	Skill development
3	Thermodynamics	18ME303	Skill development
4	Basic Electronics Engineering	18EC308	Skill development
5	Manufacturing Technology Laboratory	18ME304	Entrepreneurship/ Skill development/ Employability Enhancement Courses
6	Electronics Laboratory	18EC309	Skill development / Employability Enhancement Courses
7	Kinematics of Machinery	18ME401	Skill development
8	Applied Thermodynamics	18ME402	Skill development
9	Fluid Mechanics and Machinery	18ME403	Skill development
10	Strength of Materials	18ME404	Skill development
11	Materials Engineering	18ME405	Skill development
12	Environmental Science	18CYMC01	Skill development
13	Strength of Materials and Fluid Mechanics Laboratory	18ME406	Entrepreneurship/ Skill development/ Employability Enhancement Courses
14	Thermal Engineering Laboratory	18ME407	Entrepreneurship/ Skill development/ Employability Enhancement Courses
15	Heat and Mass Transfer	18ME501	Skill development
16	Instrumentation & Control	18ME502	Skill development
17	Metrology and Quality Control	18ME503	Skill development
18	Dynamics of Machinery	18ME504	Skill development
19	Indian Constitution	18MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
20	Heat Transfer and Refrigeration Laboratory	18ME505	Entrepreneurship/ Skill development/ Employability Enhancement Courses


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21	Communication Skills and Language Laboratory	18EN501	Entrepreneurship/ Skill development/ Employability Enhancement Courses
22	Dynamics and Metrology Laboratory	18ME506	Entrepreneurship/ Skill development/ Employability Enhancement Courses
23	Computer Integrated Manufacturing	18ME601	Skill development / Employability Enhancement Courses
24	Finite Element Analysis	18ME602	Skill development
25	Design of Machine Elements	18ME603	Skill development / Employability Enhancement Courses
26	CAD /CAM Laboratory	18ME604	Entrepreneurship/ Skill development/ Employability Enhancement Courses
27	Mini Project	18ME605	Entrepreneurship/ Skill development/ Employability Enhancement Courses
28	Composite Materials	18MEPE11	Skill development / Employability Enhancement Courses
29	Design of Transmission System	18MEPE12	Skill development / Employability Enhancement Courses
30	Gas Dynamics & Jet Propulsion	18MEPE13	Skill development / Employability Enhancement Courses
31	Renewable Energy System	18MEPE14	Skill development / Employability Enhancement Courses
32	Metal Cutting & Tool Design	18MEPE15	Skill development / Employability Enhancement Courses
33	Aeronautical Engineering	18MEPE16	Skill development / Employability Enhancement Courses
34	Operations Research	18MEPE17	Skill development / Employability Enhancement Courses
35	Advanced Strength of Materials	18MEPE21	Skill development / Employability Enhancement Courses
36	Internal Combustion Engines	18MEPE22	Skill development / Employability Enhancement Courses
37	Power plant Engineering	18MEPE23	Skill development / Employability Enhancement Courses
38	Machine Drawing	18MEPE24	Skill development / Employability Enhancement Courses
39	Engineering System Analysis and Design	18MEPE25	Skill development / Employability Enhancement Courses
40	Mechatronics	18ME701	Skill development
41	Mechatronics & Simulation Laboratory	18ME702	Entrepreneurship/ Skill development/ Employability Enhancement Courses
42	Project – I	18ME703	Entrepreneurship/ Skill development/ Employability Enhancement Courses
43	Applied Hydraulics and Pneumatics	18MEPE31	Skill development / Employability Enhancement Courses

44	Professional Ethics and Human Values	18MEPE32	Entrepreneurship/ Skill development/ Employability Enhancement Courses
45	Maintenance Engineering	18MEPE33	Skill development / Employability Enhancement Courses
46	Fuels and Combustion	18MEPE34	Skill development / Employability Enhancement Courses
47	Rapid Product Development Technologies	18MEPE35	Skill development / Employability Enhancement Courses
48	Refrigeration & Air Conditioning	18MEPE36	Skill development / Employability Enhancement Courses
49	Marine Engineering	18MEPE41	Skill development / Employability Enhancement Courses
50	Fracture Mechanics and Failure Analysis	18MEPE42	Skill development / Employability Enhancement Courses
51	Automation in Manufacturing	18MEPE43	Skill development / Employability Enhancement Courses
52	Fundamentals of Tribology	18MEPE44	Skill development / Employability Enhancement Courses
53	Advanced Decision Modelling Technique	18MEPE45	Skill development / Employability Enhancement Courses
54	Total Quality Management	18MEPE46	Entrepreneurship/ Skill development/ Employability Enhancement Courses
55	Project –II	18ME801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
56	Advanced Mechanics of Solids	18MEPE51	Skill development / Employability Enhancement Courses
57	Heat Transfer Problems in Electronics and Instrumentation	18MEPE52	Skill development / Employability Enhancement Courses
58	Nuclear Engineering	18MEPE53	Skill development / Employability Enhancement Courses
59	Analysis and Synthesis of Mechanism	18MEPE54	Skill development / Employability Enhancement Courses
60	Thermal Turbo Machines	18MEPE55	Skill development / Employability Enhancement Courses
61	Cryogenic Engineering	18MEPE61	Skill development / Employability Enhancement Courses
62	Introduction to Computational Fluid Dynamics	18MEPE62	Skill development / Employability Enhancement Courses
63	Robotics	18MEPE63	Skill development / Employability Enhancement Courses
64	Engineering System Modeling and Simulation	18MEPE64	Skill development / Employability Enhancement Courses

65	Design of Production Tooling	18MEPE65	Skill development / Employability Enhancement Courses
66	Design of Machine Elements and Machining	18MEOE01	Skill development / Employability Enhancement Courses
67	Industrial Engineering	18MEOE02	Skill development / Employability Enhancement Courses
68	Total Quality Management	18MEOE03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
69	Principles of Management	18MEOE04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
70	Professional Ethics and Human Values	18MEOE05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
71	Robotics	18MEOE06	Skill development / Employability Enhancement Courses
72	Robotic Process Automation	18MEOE07	Skill development / Employability Enhancement Courses
B.E. Civil Engineering			
73	Statistics and Numerical Methods	18MA302	Skill development
74	Biology for Engineers	18CY301	Skill development
75	Mechanics of Solids	18ES205	Skill development
76	Mechanics of Fluids	18CE301	Skill development
77	Surveying & Geomatics	18CE302	Skill development
78	Effective Technical Communication	18EN301	Skill development / Employability Enhancement Courses
79	Surveying Practical	18CE303	Entrepreneurship/ Skill development/ Employability Enhancement Courses
80	Computer Aided Building Drawing	18CE304	Entrepreneurship/ Skill development/ Employability Enhancement Courses
81	Strength of Materials	18CE401	Skill development
82	Design of Steel Structural Elements	18CE402	Skill development
83	Engineering Geology	18CE403	Skill development
84	Water Supply Engineering	18CE404	Skill development
85	Applied Hydraulics and Fluid Machinery	18CE405	Skill development
86	Concrete Technology	18CE406	Skill development

87	Material Testing & Evaluation Lab	18CE407	Entrepreneurship/ Skill development/ Employability Enhancement Courses
88	Hydraulic Engineering Laboratory	18CE408	Entrepreneurship/ Skill development/ Employability Enhancement Courses
89	Disaster Preparedness & Planning	18CEMC01	Skill development
90	Basic Structural Analysis	18CE501	Skill development
91	Mechanics of Soils	18CE502	Skill development
92	Water Resources Engineering	18CE503	Skill development
93	Design of Reinforced Concrete Elements	18CE504	Skill development
94	Waste Water Engineering	18CE505	Skill development
95	Transportation Engineering	18CE506	Skill development
96	Geotechnical Laboratory	18CE507	Entrepreneurship/ Skill development/ Employability Enhancement Courses
97	Environmental Engineering laboratory	18CE508	Entrepreneurship/ Skill development/ Employability Enhancement Courses
98	Indian Constitution	18MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
99	Advanced Structural Analysis	18CE601	Skill development / Employability Enhancement Courses
100	Foundation Engineering	18CE602	Skill development
101	Engineering Economics, Estimation and Costing	18CE603	Entrepreneurship/ Skill development/ Employability Enhancement Courses
102	Professional Practices, Ethics and Building by-laws	18CE604	Entrepreneurship/ Skill development/ Employability Enhancement Courses
103	Concrete Laboratory	18CE605	Entrepreneurship/ Skill development/ Employability Enhancement Courses
104	Computer Aided Design and Drawing (Concrete & Steel)	18CE606	Entrepreneurship/ Skill development/ Employability Enhancement Courses
105	Internship/Industrial training/Academic attachment*	18CE701	Entrepreneurship/ Skill development/ Employability Enhancement Courses

106	Design project	18CE702	Entrepreneurship/ Skill development/ Employability Enhancement Courses
107	Construction Management	18CE801	Skill development
108	Project Work	18CE802	Entrepreneurship/ Skill development/ Employability Enhancement Courses
109	Traffic Engineering	18CEPE01	Skill development / Employability Enhancement Courses
110	Airports, Docks and Harbors Engineering	18CEPE02	Skill development / Employability Enhancement Courses
111	Integrated Traffic Planning and Management	18CEPE03	Skill development / Employability Enhancement Courses
112	Smart Materials and Smart Structures	18CEPE04	Skill development / Employability Enhancement Courses
113	Construction Techniques and Equipments	18CEPE05	Skill development / Employability Enhancement Courses
114	Project Safety Management	18CEPE06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
115	Repair and Rehabilitation of Structures	18CEPE07	Skill development / Employability Enhancement Courses
116	Industrial Waste Management	18CEPE08	Skill development / Employability Enhancement Courses
117	Hazardous Waste Management	18CEPE09	Skill development / Employability Enhancement Courses
118	Air Pollution Monitoring and Control	18CEPE10	Skill development / Employability Enhancement Courses
119	Municipal Solid Waste Management	18CEPE11	Skill development / Employability Enhancement Courses
120	Marine Pollution Monitoring and Control	18CEPE12	Skill development / Employability Enhancement Courses
121	Environmental Impact Assessment	18CEPE13	Skill development / Employability Enhancement Courses
122	Open Channel Flow	18CEPE14	Skill development / Employability Enhancement Courses
123	River Engineering	18CEPE15	Skill development / Employability Enhancement Courses
124	Groundwater Engineering	18CEPE16	Skill development / Employability Enhancement Courses
125	Irrigation Engineering	18CEPE17	Skill development / Employability Enhancement Courses
126	Water Shed Management	18CEPE18	Skill development / Employability Enhancement Courses

127	Hydrology	18CEPE19	Skill development / Employability Enhancement Courses
128	Design of Bridges	18CEPE20	Skill development / Employability Enhancement Courses
129	Modern Structural Analysis	18CEPE21	Skill development / Employability Enhancement Courses
130	Storage Structures	18CEPE22	Skill development / Employability Enhancement Courses
131	Pre stressed Concrete Structures	18CEPE23	Skill development / Employability Enhancement Courses
132	Advanced Steel Structures	18CEPE24	Skill development / Employability Enhancement Courses
133	Tall Buildings	18CEPE25	Skill development / Employability Enhancement Courses
134	Prefabricated Structures	18CEPE26	Skill development / Employability Enhancement Courses
135	Design of Composite Structures	18CEPE27	Skill development / Employability Enhancement Courses
136	Coastal Structures	18CEPE28	Skill development / Employability Enhancement Courses
137	Dynamics and Earthquake Resistant Design of Structures	18CEPE29	Skill development / Employability Enhancement Courses
138	Industrial Structures	18CEPE30	Skill development / Employability Enhancement Courses
139	Ferrocement Technology	18CEPE31	Skill development / Employability Enhancement Courses
140	Finite Elements Analysis	18CEPE32	Skill development / Employability Enhancement Courses
141	Experimental Techniques and Instrumentation	18CEPE33	Skill development / Employability Enhancement Courses
142	Ground Improvement Techniques	18CEPE34	Skill development / Employability Enhancement Courses
143	Introduction to Soil Dynamics and Machine Foundation	18CEPE35	Skill development / Employability Enhancement Courses
144	Soil Structure Interaction	18CEPE36	Skill development / Employability Enhancement Courses
145	Subsurface Investigation and Instrumentation	18CEPE37	Skill development / Employability Enhancement Courses
146	Fundamentals of Remote Sensing and GIS	18CEPE38	Skill development / Employability Enhancement Courses
147	Advanced Surveying Techniques	18CEPE39	Skill development / Employability Enhancement Courses
148	Environmental Management	18CEOEO1	Entrepreneurship/ Skill development/ Employability Enhancement Courses
149	Disaster Mitigation and Management	18CEOEO2	Entrepreneurship/ Skill development/ Employability Enhancement Courses

150	Repair and Rehabilitation of Building Elements	18CEOEO3	Skill development / Employability Enhancement Courses
151	Mechanics of Deformable bodies	18CEOEO4	Skill development / Employability Enhancement Courses
152	Induction Program	18CEMC01	Skill development / Employability Enhancement Courses
153	Disaster Preparedness & Planning	18CEMC02	Skill development / Employability Enhancement Courses
154	Indian Constitution	18MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
B.E. Electrical and Electronics Engineering			
155	Statistics and Numerical Methods	18MA302	Skill development
156	Electric Circuit Analysis	18EE301	Skill development
157	Electromagnetic Fields	18EE302	Skill development
158	DC Machines and Transformers	18EE303	Skill development
159	Electron Devices and Circuits	18EE304	Skill development
160	DC Machines and Transformers Laboratory	18EE305	Skill development / Employability Enhancement Courses
161	Electron Devices and Circuits Laboratory	18EE306	Skill development / Employability Enhancement Courses
162	Environmental Science	18CYMC01	Skill development
163	Signals and Systems	18EE401	Skill development
164	Synchronous and Induction Machines	18EE402	Skill development
165	Measurements and Instrumentation	18EE403	Skill development
166	Analog and Digital Integrated Circuits	18EE404	Skill development
167	Engineering Mechanics	18ME408	Skill development
168	Synchronous and Induction Machines Laboratory	18EE405	Skill development / Employability Enhancement Courses
169	Measurements and Instrumentation Laboratory	18EE406	Skill development / Employability Enhancement Courses

170	Analog and Digital Integrated Circuits Laboratory	18EE407	Skill development / Employability Enhancement Courses
171	Indian Constitution	18MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
172	Power Generation, Transmission and Distribution System	18EE501	Skill development
173	Control Systems	18EE502	Skill development
174	Power Electronics	18EE503	Skill development
175	Microprocessor and Microcontroller	18EE504	Skill development
176	Control System Laboratory	18EE505	Skill development / Employability Enhancement Courses
177	Power Electronics Laboratory	18EE506	Skill development / Employability Enhancement Courses
178	Microprocessor and Microcontroller Laboratory	18EE507	Skill development / Employability Enhancement Courses
179	Power System Analysis and Stability	18EE601	Skill development
180	Electrical Drives and Control	18EE602	Skill development
181	Professional Ethics and Human Values	18EE603	Entrepreneurship/ Skill development/ Employability Enhancement Courses
182	Mini Project	18EE604	Entrepreneurship/ Skill development/ Employability Enhancement Courses
183	Communication Skills Laboratory	18EN501	Entrepreneurship/ Skill development/ Employability Enhancement Courses
184	Summer Internship	18EE605	Entrepreneurship/ Skill development/ Employability Enhancement Courses
185	Power System Protection and Switch Gear	18EE701	Skill development
186	Industrial Management and Economics	18EE702	Entrepreneurship/ Skill development/ Employability Enhancement Courses
187	Power Systems Laboratory	18EE703	Skill development / Employability Enhancement Courses
188	Electrical Drives and Control Laboratory	18EE704	Skill development / Employability Enhancement Courses

189	Project Work	18EE801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
190	Electrical Machine Design	18EEP01	Skill development / Employability Enhancement Courses
191	Biology for Electrical Engineers	18EEP02	Skill development / Employability Enhancement Courses
192	Digital Signal Processing	18EEP03	Skill development / Employability Enhancement Courses
193	Discrete Control Systems	18EEP04	Skill development / Employability Enhancement Courses
194	High Voltage Engineering	18EEP05	Skill development / Employability Enhancement Courses
195	HVDC Transmission Systems	18EEP06	Skill development / Employability Enhancement Courses
196	EHVAC Transmission Systems	18EEP07	Skill development / Employability Enhancement Courses
197	FACTS Controllers	18EEP08	Skill development / Employability Enhancement Courses
198	Power Quality	18EEP09	Skill development / Employability Enhancement Courses
199	Utilization of Electrical Energy	18EEP10	Skill development / Employability Enhancement Courses
200	Electrical Energy Conservation and Auditing	18EEP11	Entrepreneurship/ Skill development/ Employability Enhancement Courses
201	Power System Operation and Control	18EEP12	Skill development / Employability Enhancement Courses
202	Distributed Generation and Micro Grid	18EEP13	Skill development / Employability Enhancement Courses
203	Wind and Solar Energy Systems	18EEP14	Skill development / Employability Enhancement Courses
204	Electrical and Hybrid Vehicles	18EEP15	Skill development / Employability Enhancement Courses
205	Soft Computing and Machine Learning	18EEP16	Skill development / Employability Enhancement Courses
206	Advanced Electric Drives	18EEP17	Skill development / Employability Enhancement Courses
207	Computational Electromagnetics	18EEP18	Skill development / Employability Enhancement Courses
208	Special Electrical Machines	18EEP19	Skill development / Employability Enhancement Courses
209	Electrical Wiring Estimation and Costing	18EEP20	Entrepreneurship/ Skill development/ Employability Enhancement Courses
210	Total Quality Management	18EEP21	Entrepreneurship/ Skill development/ Employability Enhancement Courses
211	Restructured Power System	18EEP22	Skill development / Employability Enhancement Courses
212	Industrial Electrical Systems	18EEP23	Skill development / Employability Enhancement Courses
213	Smart Grid	18EEP24	Skill development / Employability Enhancement Courses

214	Renewable Energy Sources	18EEOE1	Skill development / Employability Enhancement Courses
215	Smart Grid Technology	18EEOE2	Skill development / Employability Enhancement Courses
216	Energy Conservation and Management	18EEOE3	Skill development / Employability Enhancement Courses
217	Electric Vehicles	18EEOE4	Entrepreneurship/ Skill development/ Employability Enhancement Courses
B.E. Metallurgical Engineering			
218	Fourier Series & Transforms	18MA204	Skill development
219	Elements of Physical Metallurgy	18MT301	Skill development
220	Mineral Dressing, Fuels & Furnaces	18MT302	Skill development
221	Metallurgical Thermodynamics & Kinetics	18MT303	Skill development
222	Testing of Materials	18MT304	Skill development
223	Engineering Mechanics	18CE305	Skill development
224	Metallography Laboratory	18MT305	Entrepreneurship/ Skill development/ Employability Enhancement Courses
225	Chemical Metallurgy Laboratory	18MT306	Entrepreneurship/ Skill development/ Employability Enhancement Courses
226	Environmental Sciences	18CYMC01	Skill development
227	Statistics and Numerical Methods	18MA302	Skill development
228	Biology for Engineers	18CY301	Skill development
229	Mechanical Behaviour of Materials	18MT401	Skill development
230	Phase Transformation	18MT402	Skill development
231	Iron Making	18MT403	Skill development
232	Material Testing Laboratory	18MT404	Entrepreneurship/ Skill development/ Employability Enhancement Courses
233	Machine shop Practice	18MT405	Entrepreneurship/ Skill development/ Employability Enhancement Courses
234	Heat treatment and Surface Engineering	18MT501	Skill development

235	Steel Making	18MT502	Skill development
236	Corrosion Engineering	18MT503	Skill development
237	Introduction to Instrumentation	18MT504	Skill development
238	Heat treatment Laboratory	18MT505	Entrepreneurship/ Skill development/ Employability Enhancement Courses
239	Corrosion Science Laboratory	18MT506	Entrepreneurship/ Skill development/ Employability Enhancement Courses
240	Non Ferrous Extractive Metallurgy	18MT601	Skill development
241	Forming Processes	18MT602	Skill development
242	Foundry Processes and Metallurgy	18MT603	Skill development
243	Welding Processes and Metallurgy	18MT604	Skill development
244	Indian Constitution	18MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
245	Welding & NDT Laboratory	18MT605	Entrepreneurship/ Skill development/ Employability Enhancement Courses
246	Foundry & Forming Processes Laboratory	18MT606	Entrepreneurship/ Skill development/ Employability Enhancement Courses
247	Communication Skills Laboratory	18EN501	Entrepreneurship/ Skill development/ Employability Enhancement Courses
248	Characterization of Materials	18MT701	Skill development
249	Introduction to Industrial Management	18MT702	Entrepreneurship/ Skill development/ Employability Enhancement Courses
250	Materials Characterization Laboratory	18MT703	Entrepreneurship/ Skill development/ Employability Enhancement Courses
251	Computer application in Metallurgy Laboratory	18MT704	Entrepreneurship/ Skill development/ Employability Enhancement Courses
252	Total Quality Management	18MT801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
253	Project Work	18MT802	Entrepreneurship/ Skill development/ Employability Enhancement Courses

254	Transport phenomena	18MTE11	Skill development / Employability Enhancement Courses
255	Fractography and failure analysis	18MTE12	Skill development / Employability Enhancement Courses
256	Metallurgical kinetics	18MTE13	Skill development / Employability Enhancement Courses
257	Solidification Processing	18MTE14	Skill development / Employability Enhancement Courses
258	Fracture Mechanics	18MTE15	Skill development / Employability Enhancement Courses
259	Ferrous and Non Ferrous alloys	18MTE21	Skill development / Employability Enhancement Courses
260	Composite Materials	18MTE22	Skill development / Employability Enhancement Courses
261	Ceramic materials	18MTE23	Skill development / Employability Enhancement Courses
262	Metallurgy of tool Steels	18MTE24	Skill development / Employability Enhancement Courses
263	Bio and smart materials	18MTE25	Skill development / Employability Enhancement Courses
264	Nonmetallic Materials	18MTE31	Skill development / Employability Enhancement Courses
265	Continuous casting of steel	18MTE32	Skill development / Employability Enhancement Courses
266	Special casting Technology	18MTE33	Skill development / Employability Enhancement Courses
267	Alternate routes of Iron making	18MTE34	Skill development / Employability Enhancement Courses
268	Secondary steel making	18MTE35	Skill development / Employability Enhancement Courses
269	Particulate processing Technology	18MTE41	Skill development / Employability Enhancement Courses
270	Severe plastic deformation	18MTE42	Skill development / Employability Enhancement Courses
271	Metallurgical waste utilization and management	18MTE43	Skill development / Employability Enhancement Courses
272	Computational Materials Engineering	18MTE44	Skill development / Employability Enhancement Courses
273	Special welding processes	18MTE45	Skill development / Employability Enhancement Courses
274	Physics of Engineering Materials	18MTE51	Skill development / Employability Enhancement Courses
275	X- ray diffraction and Electron microscopy	18MTE52	Skill development / Employability Enhancement Courses
276	Electrical ,Electronics and magnetic materials	18MTE53	Skill development / Employability Enhancement Courses
277	Surface engineering	18MTE54	Skill development / Employability Enhancement Courses
278	Additive manufacturing	18MTE55	Skill development / Employability Enhancement Courses
279	Nano Materials	18MTE61	Skill development / Employability Enhancement Courses

280	Thin films, coatings and applications	18MTE62	Skill development / Employability Enhancement Courses
281	Aerospace materials	18MTE63	Skill development / Employability Enhancement Courses
282	Modeling and simulation in material processes	18MTE64	Skill development / Employability Enhancement Courses
283	Nuclear materials	18MTE65	Skill development / Employability Enhancement Courses
284	Foundry and Welding Technology	18MTOE01	Skill development / Employability Enhancement Courses
285	Surface Engineering	18MTOE02	Skill development / Employability Enhancement Courses
286	Design and Selection of Materials	18MTOE03	Skill development / Employability Enhancement Courses
287	Nano science and Technology	18MTOE04	Skill development / Employability Enhancement Courses
B.E. Electronics and Communication Engineering			
288	Linear Algebra and Numerical Methods	18MA303	Skill development
289	Semiconductor Physics and Devices	18EC301	Skill development
290	Digital System Design	18EC302	Skill development
291	Signals and Systems	18EC303	Skill development
292	Network Theory and Synthesis	18EC304	Skill development
293	Transmission Lines and Waveguides	18EC305	Skill development
294	Indian Constitution	18MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
295	Electronic Devices and Circuits Laboratory	18EC306	Skill development / Employability Enhancement Courses
296	Digital System Design Laboratory	18EC307	Skill development / Employability Enhancement Courses
297	Probability and Stochastic Process	18MA402	Skill development
298	Antenna and Wave Propagation	18EC401	Skill development
299	Analog Circuits	18EC402	Skill development

300	Microprocessor and Microcontroller	18EC403	Skill development
301	Analog Communication	18EC404	Skill development
302	Control Systems	18EC405	Skill development
303	Analog Circuits Laboratory	18EC406	Skill development / Employability Enhancement Courses
304	Microprocessor and Microcontroller Laboratory	18EC407	Skill development / Employability Enhancement Courses
305	Digital Communication	18EC501	Skill development
306	Computer Architecture	18EC502	Skill development
307	Digital Signal Processing	18EC503	Skill development
308	Computer Networks	18EC504	Skill development
309	Communication Systems Laboratory	18EC505	Skill development / Employability Enhancement Courses
310	Digital Signal Processing Laboratory	18EC506	Skill development / Employability Enhancement Courses
311	VLSI Design	18EC601	Skill development
312	Embedded Systems	18EC602	Skill development
313	VLSI Design Laboratory	18EC603	Skill development / Employability Enhancement Courses
314	Mini Project	18EC604	Entrepreneurship/ Skill development/ Employability Enhancement Courses
315	Communication Skills Laboratory	18EN501	Skill development / Employability Enhancement Courses
316	Optical and Microwave Engineering	18EC701	Skill development
317	Principles of Management	18ECM701	Entrepreneurship/ Skill development/ Employability Enhancement Courses
318	Optical and Microwave Engineering Laboratory	18EC702	Skill development / Employability Enhancement Courses
319	Embedded system Laboratory	18EC703	Skill development / Employability Enhancement Courses
320	Project Work	18EC801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
321	Electronic Measurements	18ECPE601	Skill development / Employability Enhancement Courses
322	Physics of Optoelectronics	18ECPE602	Skill development / Employability Enhancement Courses

323	Digital Image Processing	18ECPE603	Skill development / Employability Enhancement Courses
324	Wireless Communication	18ECPE604	Skill development / Employability Enhancement Courses
325	FPGA based System Design	18ECPE701	Skill development / Employability Enhancement Courses
326	Radar Communication	18ECPE702	Skill development / Employability Enhancement Courses
327	Internet of Things	18ECPE703	Skill development / Employability Enhancement Courses
328	Nano Electronics	18ECPE704	Skill development / Employability Enhancement Courses
329	VLSI Testing	18ECPE705	Skill development / Employability Enhancement Courses
330	Advanced Radiating System	18ECPE706	Skill development / Employability Enhancement Courses
331	High Speed Networks	18ECPE707	Skill development / Employability Enhancement Courses
332	Virtual Instrumentation	18ECPE708	Skill development / Employability Enhancement Courses
333	Low Power VLSI Design	18ECPE801	Skill development / Employability Enhancement Courses
334	Multimedia Compression Techniques	18ECPE802	Skill development / Employability Enhancement Courses
335	Software Defined Radio	18ECPE803	Skill development / Employability Enhancement Courses
336	Pattern Recognition	18ECPE804	Skill development / Employability Enhancement Courses
337	System on Chip Design	18ECPE805	Skill development / Employability Enhancement Courses
338	Wireless Sensor Networks	18ECPE806	Skill development / Employability Enhancement Courses
339	Microwave ICs	18ECPE807	Skill development / Employability Enhancement Courses
340	Physics of Sensors	18ECPE808	Skill development / Employability Enhancement Courses
341	Network Security	18ECPE809	Skill development / Employability Enhancement Courses
342	Satellite Communication	18ECPE810	Skill development / Employability Enhancement Courses
343	Bio Medical Electronics	18ECPE811	Skill development / Employability Enhancement Courses
344	Artificial Intelligence and Machine Learning	18ECPE812	Skill development / Employability Enhancement Courses
345	Fundamentals of Electron Devices	18ECOEO1	Skill development / Employability Enhancement Courses
346	Principles of Modern Communication Systems	18ECOEO2	Skill development / Employability Enhancement Courses
347	Microcontroller and its Applications	18ECOEO3	Skill development / Employability Enhancement Courses
348	Basic VLSI Design	18ECOEO4	Skill development / Employability Enhancement Courses
349	Basics of Embedded Systems	18ECOEO5	Skill development / Employability Enhancement Courses
350	Basics of Internet of Things	18ECOEO6	Skill development / Employability Enhancement Courses

B.E. Computer Science Engineering			
351	Probability and Statistics	18MA301	Skill development
352	Digital Principles and System Design	18CS301	Skill development
353	Data Structures and Algorithms	18CS302	Skill development
354	Computer Organization and Architecture	18CS303	Skill development
355	Operating Systems	18CS304	Skill development
356	Data Structures and Algorithms Laboratory	18CS305	Skill development / Employability Enhancement Courses
357	Operating Systems Laboratory	18CS306	Skill development / Employability Enhancement Courses
358	Numerical Methods and Linear Programming Problem	18MA401	Skill development
359	Computer Networks	18CS401	Skill development
360	Design and Analysis of Algorithms	18CS402	Skill development
361	Object Oriented Programming using C++	18CS403	Skill development
362	Software Engineering	18CS404	Skill development
363	Microprocessors and Microcontrollers	18CS405	Skill development
364	Object Oriented Programming using C++ Laboratory	18CS406	Skill development / Employability Enhancement Courses
365	Microprocessors and Microcontrollers Laboratory	18CS407	Skill development / Employability Enhancement Courses
366	Environmental Science	18CYMC01	Skill development
367	Database Management Systems	18CS501	Skill development
368	Theory of Computation	18CS502	Skill development
369	Java Programming	18CS503	Skill development
370	Principles of Management	18MG501	Entrepreneurship/ Skill development/ Employability Enhancement Courses

371	Database Management Systems Laboratory	18CS504	Skill development / Employability Enhancement Courses
372	Java Programming Laboratory	18CS505	Skill development / Employability Enhancement Courses
373	Communication Skills and Language Laboratory	18EN501	Skill development / Employability Enhancement Courses
374	Indian Constitution	18MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
375	Principles of Compiler Design	18CS601	Skill development
376	Web Technology	18CS602	Skill development
377	Compiler Design Laboratory	18CS603	Skill development / Employability Enhancement Courses
378	Web Technology Laboratory	18CS604	Skill development / Employability Enhancement Courses
379	Mini Project	18CS605	Entrepreneurship/ Skill development/ Employability Enhancement Courses
380	Cryptography and Network Security	18CS701	Skill development
381	Network Security Laboratory	18CS702	Skill development / Employability Enhancement Courses
382	Project Phase I	18CS703	Entrepreneurship/ Skill development/ Employability Enhancement Courses
383	Project Phase II	18CS801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
384	Software Project Management	18CSPE601	Skill development / Employability Enhancement Courses
385	Artificial Intelligence	18CSPE602	Skill development / Employability Enhancement Courses
386	Distributed and Parallel Computing	18CSPE603	Skill development / Employability Enhancement Courses
387	Python Programming	18CSPE604	Skill development / Employability Enhancement Courses
388	Agile Technologies	18CSPE605	Skill development / Employability Enhancement Courses
389	Object Oriented Analysis and Design	18CSPE606	Skill development / Employability Enhancement Courses
390	Data Mining and Warehousing	18CSPE607	Skill development / Employability Enhancement Courses
391	Component Based Technology	18CSPE608	Skill development / Employability Enhancement Courses
392	Computer Hardware and Trouble Shooting	18CSPE609	Skill development / Employability Enhancement Courses
393	Middleware Technologies	18CSPE610	Skill development / Employability Enhancement Courses

394	UNIX Architecture	18CSPE701	Skill development / Employability Enhancement Courses
395	Big Data Analytics	18CSPE702	Skill development / Employability Enhancement Courses
396	Cyber Forensic	18CSPE703	Skill development / Employability Enhancement Courses
397	User Interface Design	18CSPE704	Skill development / Employability Enhancement Courses
398	Software Quality Assurance	18CSPE705	Skill development / Employability Enhancement Courses
399	Computer Graphics and Multimedia	18CSPE706	Skill development / Employability Enhancement Courses
400	C # & .NET Frameworks	18CSPE707	Skill development / Employability Enhancement Courses
401	Advanced Databases	18CSPE708	Skill development / Employability Enhancement Courses
402	Machine Learning	18CSPE709	Skill development / Employability Enhancement Courses
403	Nano Computing	18CSPE710	Skill development / Employability Enhancement Courses
404	Information Security	18CSPE801	Skill development / Employability Enhancement Courses
405	Business Intelligence and Its Application	18CSPE802	Entrepreneurship/ Skill development/ Employability Enhancement Courses
406	E-Commerce	18CSPE803	Entrepreneurship/ Skill development/ Employability Enhancement Courses
407	Mobile Computing	18CSPE804	Skill development / Employability Enhancement Courses
408	Deep Learning	18CSPE805	Skill development / Employability Enhancement Courses
409	Adhoc and Sensor Networks	18CSPE806	Skill development / Employability Enhancement Courses
410	Cloud Computing	18CSPE807	Skill development / Employability Enhancement Courses
411	Service Oriented Architecture	18CSPE808	Skill development / Employability Enhancement Courses
412	Free and Open Source Software	18CSPE809	Skill development / Employability Enhancement Courses
413	Natural Language Processing	18CSPE810	Skill development / Employability Enhancement Courses
414	Object Oriented Programming using C++	18CSOE01	Skill development / Employability Enhancement Courses
415	Operating Systems	18CSOE02	Skill development / Employability Enhancement Courses
416	Computer Networks	18CSOE03	Skill development / Employability Enhancement Courses
417	Python Programming	18CSOE04	Skill development / Employability Enhancement Courses
418	Java Programming	18CSOE05	Skill development / Employability Enhancement Courses
419	Computer Organization and Architecture	18CSOE06	Skill development / Employability Enhancement Courses
420	Data Structures using C++	18CSOE07	Skill development / Employability Enhancement Courses
421	Neural Networks	18CSOE08	Skill development / Employability Enhancement Courses

422	Soft Computing	18CSOE09	Skill development / Employability Enhancement Courses
423	Artificial Intelligence and Machine Learning	18CSOE10	Skill development / Employability Enhancement Courses
M.E. Thermal Engineering			
424	Thermodynamics and Combustion	18THC11	Skill development
425	Advanced Fluid Dynamics	18THC12	Skill development
426	Thermal Engineering Lab -I	18THC13	Skill development / Employability Enhancement Courses
427	Simulation Laboratory	18THC14	Skill development / Employability Enhancement Courses
428	Research Methodology and IPR	18MLC01	Skill development / Employability Enhancement Courses
429	Advanced Heat Transfer	18THC21	Skill development
430	Instrumentation for Thermal Systems	18THC22	Skill development
431	Thermal Engineering Laboratory-II	18THC23	Skill development / Employability Enhancement Courses
432	Modelling Laboratory	18THC24	Skill development / Employability Enhancement Courses
433	Mini-Project	18THC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
434	Dissertation Phase - I	18THC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
435	Dissertation Phase - II	18THC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
436	Advanced Mathematical methods in Engineering	18CDE11	Skill development / Employability Enhancement Courses
437	Nuclear Engineering	18THE11	Skill development / Employability Enhancement Courses
438	Energy Conservation and Management	18THE12	Skill development / Employability Enhancement Courses
439	Alternative Fuels for IC Engines	18THE13	Skill development / Employability Enhancement Courses
440	Electronic Engine Management Systems	18THE14	Skill development / Employability Enhancement Courses
441	Analysis of Heat Transfer	18THE15	Skill development / Employability Enhancement Courses
442	Air Conditioning System Design	18THE21	Skill development / Employability Enhancement Courses

443	Advanced IC Engines	18THE22	Skill development / Employability Enhancement Courses
444	Optimization Techniques in Engineering	18THE23	Skill development / Employability Enhancement Courses
445	Boundary Layer Theory and Turbulence	18THE24	Skill development / Employability Enhancement Courses
446	Combustion in IC Engines	18THE25	Skill development / Employability Enhancement Courses
447	Nanomaterials Technology	18CDE26	Skill development / Employability Enhancement Courses
448	Refrigeration and cryogenics	18THE31	Skill development / Employability Enhancement Courses
449	Design of Heat Exchangers	18THE32	Skill development / Employability Enhancement Courses
450	Cogeneration and Waste Heat Recovery Systems	18THE33	Skill development / Employability Enhancement Courses
451	Design of Condensers Evaporators and Cooling Towers	18THE34	Skill development / Employability Enhancement Courses
452	Steam Engineering	18THE35	Skill development / Employability Enhancement Courses
453	Computational Fluid Dynamics	18THE41	Skill development / Employability Enhancement Courses
454	Simulation of IC Engines Processes	18THE42	Skill development / Employability Enhancement Courses
455	Fuels and Combustion	18THE43	Skill development / Employability Enhancement Courses
456	Environment and Pollution Control	18THE44	Skill development / Employability Enhancement Courses
457	Modern Power Plant Engineering	18THE45	Skill development / Employability Enhancement Courses
458	Design of Solar and Wind System	18THE51	Skill development / Employability Enhancement Courses
459	Design and Analysis of Turbo machines	18THE52	Skill development / Employability Enhancement Courses
460	Energy Systems Modelling & Analysis	18THE53	Skill development / Employability Enhancement Courses
461	Internal Combustion Engine Design	18THE54	Skill development / Employability Enhancement Courses
462	Advanced Finite Element Analysis	18THE55	Skill development / Employability Enhancement Courses
463	Business Analytics	18THE61	Skill development / Employability Enhancement Courses

464	Industrial Safety	18THE62	Skill development / Employability Enhancement Courses
465	Operations Research	18THE63	Skill development / Employability Enhancement Courses
466	Cost Management of Engineering Projects	18THE64	Skill development / Employability Enhancement Courses
467	Waste to Energy	18THE65	Skill development / Employability Enhancement Courses
468	English for Research Paper Writing	18AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
469	Disaster Management	18AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Computer Aided Design			
470	Concepts of Engineering Design	18CDC11	Skill development
471	Computer Aided Modeling and Design	18CDC12	Skill development
472	CAD Modeling and Drafting Lab	18CDC13	Skill development / Employability Enhancement Courses
473	Finite Element Analysis Lab- I	18CDC14	Skill development / Employability Enhancement Courses
474	Research Methodology and IPR	18MLC01	Skill development / Employability Enhancement Courses
475	Finite Element Methods in Design	18CDC21	Skill development
476	Mechanical Vibrations and Acoustics	18CDC22	Skill development
477	Finite Element Analysis Lab -II	18CDC23	Skill development / Employability Enhancement Courses
478	CAM and Robotics Lab	18CDC24	Skill development / Employability Enhancement Courses
479	Mini Project	18CDC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
480	Dissertation Phase – I	18CDC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
481	Dissertation Phase – II	18CDC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
482	Advanced Mathematical Methods in Engineering	18CDE11	Skill development / Employability Enhancement Courses
483	Advanced Composite Materials	18CDE12	Skill development / Employability Enhancement Courses
484	Product Lifecycle Management	18CDE13	Skill development / Employability Enhancement Courses

485	Design for Manufacturing, Assembly	18CDE14	Skill development / Employability Enhancement Courses
486	Advanced Engineering Materials	18CDE15	Skill development / Employability Enhancement Courses
487	Experimental Stress Analysis	18CDE16	Skill development / Employability Enhancement Courses
488	Advanced Kinematics of Mechanisms	18CDE21	Skill development / Employability Enhancement Courses
489	Advanced Tool Design	18CDE22	Skill development / Employability Enhancement Courses
490	Advanced Strength of Materials	18CDE23	Skill development / Employability Enhancement Courses
491	Mechanics of Fracture	18CDE24	Skill development / Employability Enhancement Courses
492	Rapid Prototyping and Tooling	18CDE25	Skill development / Employability Enhancement Courses
493	Nano Materials Technology	18CDE26	Skill development / Employability Enhancement Courses
494	Productivity Management and Re-engineering	18CDE31	Skill development / Employability Enhancement Courses
495	Theory of Plates and Shells	18CDE32	Skill development / Employability Enhancement Courses
496	Optimization Techniques in Design	18CDE33	Skill development / Employability Enhancement Courses
497	Computational Fluid Dynamics	18CDE34	Skill development / Employability Enhancement Courses
498	Computer Integrated Manufacturing systems	18CDE35	Skill development / Employability Enhancement Courses
499	Industrial Robotics and Expert Systems	18CDE36	Skill development / Employability Enhancement Courses
500	Experimental Techniques and Data analysis	18CDE41	Skill development / Employability Enhancement Courses
501	CAD/CAM tools	18CDE42	Skill development / Employability Enhancement Courses
502	Contact Mechanics	18CDE43	Skill development / Employability Enhancement Courses
503	Advanced Automotive Systems	18CDE44	Skill development / Employability Enhancement Courses
504	Design of Material Handling Equipment	18CDE45	Skill development / Employability Enhancement Courses
505	Plasticity and Metal Forming	18CDE46	Skill development / Employability Enhancement Courses
506	Tribology in Design	18CDE51	Skill development / Employability Enhancement Courses
507	Enterprise Resource Planning	18CDE52	Skill development / Employability Enhancement Courses
508	Mechatronics System Design	18CDE53	Skill development / Employability Enhancement Courses

509	Failure Analysis	18CDE54	Skill development / Employability Enhancement Courses
510	Maintenance Engineering	18CDE55	Skill development / Employability Enhancement Courses
511	Design of Pressure Vessels	18CDE56	Skill development / Employability Enhancement Courses
512	Integrated Product And Processes Development	18CDE61	Skill development / Employability Enhancement Courses
513	Industrial Safety Management	18CDE62	Skill development / Employability Enhancement Courses
514	Reliability in Engineering Systems	18CDE63	Skill development / Employability Enhancement Courses
515	Neural Networks and Fuzzy Logic	18CDE64	Skill development / Employability Enhancement Courses
516	Ergonomics in Manufacturing	18CDE65	Skill development / Employability Enhancement Courses
517	English for Research Paper Writing	18AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
518	Disaster Management	18AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Structural Engineering			
519	Advanced Structural Analysis	18STC11	Skill development
520	Theory of Elasticity and Plasticity	18STC12	Skill development
521	Structural Design Lab	18STC13	Skill development / Employability Enhancement Courses
522	Concrete and Experimental Stress Analysis Lab	18STC14	Skill development / Employability Enhancement Courses
523	Research Methodology and IPR	18MLC01	Skill development / Employability Enhancement Courses
524	Finite Element Method in Structural Engineering	18STC21	Skill development
525	Structural Dynamics	18STC22	Skill development
526	Advanced Concrete Lab	18STC23	Skill development / Employability Enhancement Courses
527	Numerical Analysis Lab	18STC24	Skill development / Employability Enhancement Courses
528	Mini Project	18STC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
529	Dissertation Phase – I	18STC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses

530	Dissertation Phase – II	18STC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
531	Theory of Thin Plates and Shells	18STE11	Skill development / Employability Enhancement Courses
532	Theory and Applications of Cement Composites	18STE12	Skill development / Employability Enhancement Courses
533	Theory of Structural Stability	18STE13	Skill development / Employability Enhancement Courses
534	Corrosion and its Prevention	18STE14	Skill development / Employability Enhancement Courses
535	Analytical and Numerical Methods for Structural Engineering	18STE21	Skill development / Employability Enhancement Courses
536	Structural Health Monitoring	18STE22	Skill development / Employability Enhancement Courses
537	Structural Optimization	18STE23	Skill development / Employability Enhancement Courses
538	Experimental Techniques and Instrumentation	18STE24	Skill development / Employability Enhancement Courses
539	Advanced Steel Design	18STE31	Skill development / Employability Enhancement Courses
540	Design of Formwork	18STE32	Skill development / Employability Enhancement Courses
541	Design of High Rise Structures	18STE33	Skill development / Employability Enhancement Courses
542	Design of Masonry Structures	18STE34	Skill development / Employability Enhancement Courses
543	Design of Prefabricated Structures	18STE35	Skill development / Employability Enhancement Courses
544	Design of Steel - Concrete Composite Structures	18STE36	Skill development / Employability Enhancement Courses
545	Design of Advanced Concrete Structures	18STE41	Skill development / Employability Enhancement Courses
546	Advanced Design of Foundations	18STE42	Skill development / Employability Enhancement Courses
547	Soil Structure Interaction	18STE43	Skill development / Employability Enhancement Courses
548	Design of Industrial Structures	18STE44	Skill development / Employability Enhancement Courses
549	Sub Structure Design	18STE45	Skill development / Employability Enhancement Courses
550	Design and Construction of Ferrocement Structures	18STE46	Skill development / Employability Enhancement Courses

551	Design of Prestressed Concrete Structures	18STE51	Skill development / Employability Enhancement Courses
552	Analysis of Laminated Composite Plates	18STE52	Skill development / Employability Enhancement Courses
553	Fracture Mechanics of Concrete Structures	18STE53	Skill development / Employability Enhancement Courses
554	Design of Plates and Shells	18STE54	Skill development / Employability Enhancement Courses
555	Design of Bridges	18STE55	Skill development / Employability Enhancement Courses
556	Modern Construction Materials	18STE56	Skill development / Employability Enhancement Courses
557	Advanced Concrete Technology	18STE61	Skill development / Employability Enhancement Courses
558	Disaster Resistant Structures	18STE62	Skill development / Employability Enhancement Courses
559	Soil Structure Interaction	18STE63	Skill development / Employability Enhancement Courses
560	Environmental Engineering and Offshore Structures	18STE64	Skill development / Employability Enhancement Courses
561	Wind and Cyclone Effects on Structures	18STE65	Skill development / Employability Enhancement Courses
562	English for Research Paper Writing	18AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
563	Disaster Management	18AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
564	Sanskrit for Technical Knowledge	18AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
565	Value Addition	18AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
566	Constitution of India	18AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
567	Pedagogy Studies	18AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
568	Stress Management by Yoga	18AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
569	Personality Development through Life Enlightenment Skills	18AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses

M.E. Welding Technologies			
570	Advanced Mathematics and Statistics	18WTC11	Skill development
571	Welding Processes – I	18WTC12	Skill development
572	Metallography Lab	18WTC13	Skill development / Employability Enhancement Courses
573	Welding Lab	18WTC14	Skill development / Employability Enhancement Courses
574	Research Methodology and IPR	18MLC01	Skill development / Employability Enhancement Courses
575	Welding Processes – II	18WTC21	Skill development
576	Welding Metallurgy	18WTC22	Skill development
577	Quality control in Weldments Lab	18WTC23	Entrepreneurship/ Skill development/ Employability Enhancement Courses
578	Materials Characterization Lab	18WTC24	Entrepreneurship/ Skill development/ Employability Enhancement Courses
579	Mini Project	18WTC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
580	Dissertation Phase – I	18WTC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
581	Dissertation Phase – II	18WTC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
582	Electrical Aspects of Welding	18WTE11	Skill development / Employability Enhancement Courses
583	Design of Weldments	18WTE12	Skill development / Employability Enhancement Courses
584	Welding Economics, Management and Safety	18WTE13	Skill development / Employability Enhancement Courses
585	Materials and Behaviour	18WTE21	Skill development / Employability Enhancement Courses
586	Failure Analysis in Weldments	18WTE22	Skill development / Employability Enhancement Courses
587	Non - metallic Materials	18WTE23	Skill development / Employability Enhancement Courses
588	Testing and Inspection of Weldments	18WTE31	Skill development / Employability Enhancement Courses
589	Finite Element Analysis	18WTE32	Skill development / Employability Enhancement Courses
590	Total Quality System and Engineering	18WTE33	Skill development / Employability Enhancement Courses
591	Materials Characterization	18WTE41	Skill development / Employability Enhancement Courses

592	Automation and Robots in Welding	18WTE42	Skill development / Employability Enhancement Courses
593	Welding Application Technology	18WTE43	Skill development / Employability Enhancement Courses
594	Corrosion and Surface Engineering	18WTE51	Skill development / Employability Enhancement Courses
595	Composite Materials	18WTE52	Skill development / Employability Enhancement Courses
596	Industrial Safety	18WTE53	Skill development / Employability Enhancement Courses
597	Welding Codes and Standards	18WTE61	Skill development / Employability Enhancement Courses
598	Brazing, Soldering, Surfacing and Cutting	18WTE62	Skill development / Employability Enhancement Courses
599	Waste to Energy	18WTE63	Skill development / Employability Enhancement Courses
600	English for Research Paper Writing	18AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
601	Disaster Management	18AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
602	Sanskrit for Technical Knowledge	18AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
603	Value Education	18AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
604	Constitution of India	18AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
605	Pedagogy Studies	18AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
606	Stress Management by Yoga	18AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
607	Personality Development through Life Enlightenment Skills	18AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Power Electronics and Drives			
608	Power Semiconductor Devices and Components	18PEC11	Skill development
609	Analysis of Power Converters	18PEC12	Skill development

610	Advanced Power Electronics Laboratory-I	18PEC13	Skill development / Employability Enhancement Courses
611	Advanced Digital Control Laboratory	18PEC14	Skill development / Employability Enhancement Courses
612	Research Methodology and IPR	18MLC01	Skill development / Employability Enhancement Courses
613	Modelling and Analysis of Electrical Machines	18PEC21	Skill development
614	Modern Electrical Drives	18PEC22	Skill development
615	Advanced Power Electronics Laboratory-II	18PEC23	Skill development / Employability Enhancement Courses
616	Advanced Electrical Drives Laboratory	18PEC24	Skill development / Employability Enhancement Courses
617	Mini Project With Seminar	18PEC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
618	Dissertation Phase – I	18PEC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
619	Dissertation Phase – II	18PEC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
620	Advanced Microcontroller Based System Design	18PEE11	Skill development / Employability Enhancement Courses
621	Applied Mathematics for Electrical Engineering	18PEE12	Skill development / Employability Enhancement Courses
622	System Theory	18PEE13	Skill development / Employability Enhancement Courses
623	Artificial Intelligence and Machine Learning	18PEE14	Skill development / Employability Enhancement Courses
624	Discrete Control System	18PEE15	Skill development / Employability Enhancement Courses
625	Advanced Power Electronic Circuits	18PEE21	Skill development / Employability Enhancement Courses
626	Digital Signal Processing for Power Electronics	18PEE22	Skill development / Employability Enhancement Courses
627	Dynamics of power Converters	18PEE23	Skill development / Employability Enhancement Courses
628	Modulation Control for Power Converters	18PEE24	Skill development / Employability Enhancement Courses

629	Design of Power Converters	18PEE25	Skill development / Employability Enhancement Courses
630	Advanced Power Quality	18PEE31	Skill development / Employability Enhancement Courses
631	Harmonics and Filters for Power Electronic Circuits	18PEE32	Skill development / Employability Enhancement Courses
632	Energy Conservation, Auditing and Management	18PEE33	Skill development / Employability Enhancement Courses
633	Special Electrical Machines and Drives	18PEE34	Skill development / Employability Enhancement Courses
634	Digital Simulation of Power Electronics System	18PEE35	Skill development / Employability Enhancement Courses
635	Photo Voltaic System	18PEE41	Skill development / Employability Enhancement Courses
636	Optimization Techniques	18PEE42	Skill development / Employability Enhancement Courses
637	Power System Optimization Techniques	18PEE43	Skill development / Employability Enhancement Courses
638	Wind Energy System	18PEE44	Skill development / Employability Enhancement Courses
639	Power Electronics for Renewable Energy System	18PEE45	Skill development / Employability Enhancement Courses
640	Smart Grid Technology	18PEE51	Skill development / Employability Enhancement Courses
641	Distributed Generation	18PEE52	Skill development / Employability Enhancement Courses
642	FACTS Controllers	18PEE53	Skill development / Employability Enhancement Courses
643	HVDC Transmission Systems	18PEE54	Skill development / Employability Enhancement Courses
644	SCADA Systems and Applications	18PEE55	Skill development / Employability Enhancement Courses
645	Electric Vehicles	18PEE61	Skill development / Employability Enhancement Courses
646	Theory and Design of SMPS	18PEE62	Skill development / Employability Enhancement Courses
647	Energy Storage Technology	18PEE63	Entrepreneurship/ Skill development/ Employability Enhancement Courses
648	Internet of Things for Electrical Engineers	18PEE64	Entrepreneurship/ Skill development/ Employability Enhancement Courses
649	Digital Signal Processors for Power Converters	18PEE65	Entrepreneurship/ Skill development/ Employability Enhancement Courses
650	English for Research paper writing	18AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses

651	Disaster Management	18AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
652	Sanskrit for Technical Knowledge	18AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
653	Value Education	18AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
654	Constitution of India	18AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
655	Pedagogy Studies	18AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
656	Stress Management by Yoga	18AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
657	Personality Development through Life Enlightenment Skills	18AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses
658	Pattern Recognition	18PESE1	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Communication Systems			
659	Statistical Information Processing	18COC11	Skill development
660	Advanced Digital Communication Techniques	18COC12	Skill development
661	Statistical Information Processing Lab	18COC13	Skill development / Employability Enhancement Courses
662	Advanced Digital Communication System Lab	18COC14	Skill development / Employability Enhancement Courses
663	Research Methodology and IPR	18MLC01	Skill development / Employability Enhancement Courses
664	Antennas and Radiating Systems	18COC21	Skill development
665	Advanced Digital Signal Processing	18COC22	Skill development
666	Antennas and Radiating Systems Lab	18COC23	Skill development / Employability Enhancement Courses

667	Advanced Digital Signal Processing Lab	18COC24	Skill development / Employability Enhancement Courses
668	Mini Project	18CO205	Entrepreneurship/ Skill development/ Employability Enhancement Courses
669	Dissertation Phase I	18CO301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
670	Dissertation Phase II	18CO401	Entrepreneurship/ Skill development/ Employability Enhancement Courses
671	Multimedia Compression Techniques	18COE11	Skill development / Employability Enhancement Courses
672	Advanced Communication Networks	18COE12	Skill development / Employability Enhancement Courses
673	Wireless Sensor Networks	18COE13	Skill development / Employability Enhancement Courses
674	RF and Microwave Circuit Design	18COE21	Skill development / Employability Enhancement Courses
675	Optical Networks	18COE22	Skill development / Employability Enhancement Courses
676	Satellite Communication	18COE23	Skill development / Employability Enhancement Courses
677	Wireless and Mobile Communication	18COE31	Skill development / Employability Enhancement Courses
678	Pattern Recognition and Machine Learning	18COE32	Skill development / Employability Enhancement Courses
679	Voice and data networks	18COE33	Skill development / Employability Enhancement Courses
680	Spread Spectrum Communication	18COE41	Skill development / Employability Enhancement Courses
681	MIMO System	18COE42	Skill development / Employability Enhancement Courses
682	High Performance Networks	18COE43	Skill development / Employability Enhancement Courses
683	Cognitive Radio	18COE51	Skill development / Employability Enhancement Courses
684	Internet of Things	18COE52	Skill development / Employability Enhancement Courses
685	VLSI for Wireless Communication	18COE53	Skill development / Employability Enhancement Courses
686	Remote Sensing	18COE61	Skill development / Employability Enhancement Courses
687	Wavelet Signal Processing	18COE62	Skill development / Employability Enhancement Courses
688	Bio Mems	18COE63	Skill development / Employability Enhancement Courses

689	Big Data Technology	18COE64	Skill development / Employability Enhancement Courses
690	English for Research Paper Writing	18AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
691	Disaster Management	18AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
692	Constitution of India	18AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
693	Pedagogy Studies	18AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
694	Personality Development through Life Enlightenment Skills	18AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses

1.1.2 The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

S.No.	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
B. E. Mechanical Engineering			
1	Fourier Series, Boundary Value Problems and Transforms	22MA305	Skill Development
2	Engineering Thermodynamics	22ME301	Skill development / Employability Enhancement Courses
3	Fluid Mechanics and Machinery	22ME302	Skill development / Employability Enhancement Courses
4	Manufacturing Processes	22ME303	Skill Development
5	Materials Engineering	22MT310	Skill Development
6	Innovation Sprints	22MCIN02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
7	NCC Course – II (only for NCC Students)*	22NC301	Skill development / Employability Enhancement Courses
8	CAD Laboratory	22ME304	Entrepreneurship/ Skill development/ Employability Enhancement Courses
9	Strength of Materials and Fluid Mechanics Laboratory	22CE308	Entrepreneurship/ Skill development/ Employability Enhancement Courses
10	Kinematics of Machinery	22ME401	Skill Development
11	Thermal Engineering	22ME402	Skill development / Employability Enhancement Courses
12	Metal cutting and Machine Tools	22ME403	Entrepreneurship/ Skill development/ Employability Enhancement Courses
13	Hydraulics and Pneumatics	22ME404	Skill Development
14	Strength of Materials	22CE409	Skill Development
15	Design Sprints	22MCIN03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
16	Environmental Science	22CYMC01	Skill Development
17	Thermal Engineering Laboratory	22ME405	Entrepreneurship/ Skill development/ Employability Enhancement Courses
18	Manufacturing Technology Laboratory	22ME406	Entrepreneurship/ Skill development/ Employability Enhancement Courses
19	Design of Machine Elements	22ME501	Skill development / Employability Enhancement Courses

20	Heat and Mass Transfer	22ME502	Skill Development
21	Metrology and Quality Control	22ME503	Skill Development
22	Dynamics of Machinery	22ME504	Skill Development
23	Instrumentation and Control system	22ME505	Skill Development
24	Ideation Sprints	22MCIN04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
25	Indian Constitution	22MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
26	Dynamics and Metrology Laboratory	22ME506	Entrepreneurship/ Skill development/ Employability Enhancement Courses
27	Placement and Career Training Laboratory	22EN502	Entrepreneurship/ Skill development/ Employability Enhancement Courses
28	Heat Transfer and Refrigeration Laboratory	22ME507	Entrepreneurship/ Skill development/ Employability Enhancement Courses
29	Mini Project	22ME601	Entrepreneurship/ Skill development/ Employability Enhancement Courses
30	Computational Hardware	22PSPE01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
31	Coding for Innovators	22PSPE02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
32	Industrial Automation	22PSPE03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
33	Applied Design Thinking	22PSOE01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
34	Startup Fundamentals	22PSOE02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
35	Prototype Development	22PSOE03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
36	Robotics	22MEPS17	Skill Development
37	Mechatronics	22ME701	Skill Development
38	Finite Element Analysis	22ME702	Skill development / Employability Enhancement Courses
39	Operations Research	22HS701	Skill development / Employability Enhancement Courses
40	Mechatronics Laboratory	22ME703	Entrepreneurship/ Skill development/ Employability Enhancement Courses
41	Simulation Laboratory	22ME704	Entrepreneurship/ Skill development/ Employability Enhancement Courses

42	CAM Laboratory	22ME705	Entrepreneurship/ Skill development/ Employability Enhancement Courses
43	Project – I	22ME706	Entrepreneurship/ Skill development/ Employability Enhancement Courses
44	Project –II	22ME801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
45	Automobile Engineering	22MEPE11	Skill development / Employability Enhancement Courses
46	Composite Materials	22MEPE12	Skill development / Employability Enhancement Courses
47	Computer Integrated Manufacturing	22MEPE13	Skill development / Employability Enhancement Courses
48	Design of Transmission system	22MEPE14	Skill development / Employability Enhancement Courses
49	Energy Conservation in Industries	22MEPE15	Skill development / Employability Enhancement Courses
50	Gas Dynamics & Jet Propulsion	22MEPE16	Skill development / Employability Enhancement Courses
51	Renewable Energy System	22MEPE17	Skill development / Employability Enhancement Courses
52	Advanced Strength of Materials	22MEPE21	Skill development / Employability Enhancement Courses
53	Energy Efficient Buildings Design	22MEPE22	Skill development / Employability Enhancement Courses
54	Engineering System Analysis and Design	22MEPE23	Skill development / Employability Enhancement Courses
55	Industrial Engineering and Management	22MEPE24	Skill development / Employability Enhancement Courses
56	Internal Combustion Engines	22MEPE25	Skill development / Employability Enhancement Courses
57	Machine Drawing	22MEPE26	Skill development / Employability Enhancement Courses
58	Power plant Engineering	22MEPE27	Skill development / Employability Enhancement Courses
59	Fuels and Combustion	22MEPE31	Skill development / Employability Enhancement Courses
60	Maintenance Engineering	22MEPE32	Skill development / Employability Enhancement Courses
61	Non-traditional Machining Process	22MEPE33	Skill development / Employability Enhancement Courses
62	Professional Ethics and Human Values	22MEPE34	Entrepreneurship/ Skill development/ Employability Enhancement Courses
63	Rapid Product Development Technologies	22MEPE35	Skill development / Employability Enhancement Courses
64	Refrigeration & Air Conditioning	22MEPE36	Skill development / Employability Enhancement Courses
65	Solar Energy Technology	22MEPE37	Skill development / Employability Enhancement Courses
66	Advanced Decision Modelling Technique	22MEPE41	Skill development / Employability Enhancement Courses
67	Automation in Manufacturing	22MEPE42	Skill development / Employability Enhancement Courses
68	Cryogenic Engineering	22MEPE43	Skill development / Employability Enhancement Courses

69	Fracture Mechanics and Failure Analysis	22MEPE44	Skill development / Employability Enhancement Courses
70	Fundamentals of Tribology	22MEPE45	Skill development / Employability Enhancement Courses
71	Metal Forming Processes	22MEPE46	Skill development / Employability Enhancement Courses
72	Micro and Nano Machining	22MEPE47	Skill development / Employability Enhancement Courses
73	Analysis and Synthesis of Mechanism	22MEPE51	Skill development / Employability Enhancement Courses
74	Design of Jigs, Fixtures and Press tools	22MEPE52	Skill development / Employability Enhancement Courses
75	Heat Transfer Problems in Electronics and Instrumentation	22MEPE53	Skill development / Employability Enhancement Courses
76	Nano Technology	22MEPE54	Skill development / Employability Enhancement Courses
77	Nuclear Engineering	22MEPE55	Skill development / Employability Enhancement Courses
78	Thermal Turbo Machines	22MEPE56	Skill development / Employability Enhancement Courses
79	Total Quality Management	22MEPE57	Entrepreneurship/ Skill development/ Employability Enhancement Courses
80	Design of Production Tooling	22MEPE61	Skill development / Employability Enhancement Courses
81	Engineering System Modelling and Simulation	22MEPE62	Skill development / Employability Enhancement Courses
82	Entrepreneurship Development	22MEPE63	Skill development / Employability Enhancement Courses
83	Industrial Safety	22MEPE64	Skill development / Employability Enhancement Courses
84	Introduction to Computational Fluid Dynamics	22MEPE65	Skill development / Employability Enhancement Courses
85	Marine Engineering	22MEPE66	Skill development / Employability Enhancement Courses
86	Robotics	22MEPE67	Skill development / Employability Enhancement Courses
87	Design of Machine Elements and Machining	22MEOE01	Skill development / Employability Enhancement Courses
88	Industrial Engineering	22MEOE02	Skill development / Employability Enhancement Courses
89	Industrial Robotics	22MEOE03	Skill development / Employability Enhancement Courses
90	Power plant Engineering	22MEOE04	Skill development / Employability Enhancement Courses
91	Principles of Management	22MEOE05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
92	Professional Ethics in Engineering	22MEOE06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
93	Renewable Sources of Energy	22MEOE07	Skill development / Employability Enhancement Courses
94	Robotic Process Automation	22MEOE08	Skill development / Employability Enhancement Courses

95	Total Quality Management	22MEOE09	Entrepreneurship/ Skill development/ Employability Enhancement Courses
96	Hydrogen and Fuel Cell Technologies	22MEH101	Skill development / Employability Enhancement Courses
97	Thermal Management of Electric Vehicle Battery Systems	22MEH102	Skill development / Employability Enhancement Courses
98	Electric and Hybrid Vehicle Technology	22MEH103	Skill development / Employability Enhancement Courses
99	Alternate Fuels for IC Engines	22MEH104	Skill development / Employability Enhancement Courses
100	Advanced Energy Storage Technologies	22MEH105	Skill development / Employability Enhancement Courses
101	Solar Power Plants	22MEH106	Skill development / Employability Enhancement Courses
102	Materials for Solar Devices	22MEH107	Skill development / Employability Enhancement Courses
103	Design of Solar and Wind Systems	22MEH108	Skill development / Employability Enhancement Courses
104	Fire Engineering and Explosion Control	22MEH109	Skill development / Employability Enhancement Courses
105	Energy Management and Environmental Benefits	22MEH110	Skill development / Employability Enhancement Courses
106	Numerical methods in Mechanical Engineering	22MEH201	Skill development / Employability Enhancement Courses
107	Advanced Fluid Mechanics	22MEH202	Skill development / Employability Enhancement Courses
108	Fundamentals of Bio-Mechanics	22MEH203	Skill development / Employability Enhancement Courses
109	Introduction to Machine Learning	22MEH204	Skill development / Employability Enhancement Courses
110	Design Optimization and Design Theory	22MEH205	Skill development / Employability Enhancement Courses
111	Advanced Finite Element Methods	22MEH206	Skill development / Employability Enhancement Courses
112	Advanced Computational Fluid Dynamics	22MEH207	Skill development / Employability Enhancement Courses
113	Smart Materials and Structures	22MEH208	Skill development / Employability Enhancement Courses
114	Design of Pressure vessels	22MEH209	Skill development / Employability Enhancement Courses
115	Mechanical Vibrations	22MEH210	Skill development / Employability Enhancement Courses
116	Precision Engineering	22MEH301	Skill development / Employability Enhancement Courses
117	Advanced Materials Technology	22MEH302	Skill development / Employability Enhancement Courses
118	Additive Manufacturing	22MEH303	Skill development / Employability Enhancement Courses
119	Non Destructive Testing and Failure Analysis	22MEH304	Skill development / Employability Enhancement Courses
120	Product Life Cycle Management	22MEH305	Entrepreneurship/ Skill development/ Employability Enhancement Courses
121	Ergonomics in Design	22MEH306	Skill development / Employability Enhancement Courses
122	Surface Engineering	22MEH307	Skill development / Employability Enhancement Courses

123	Industrial Layout Design and Safety	22MEH308	Skill development / Employability Enhancement Courses
124	Digital Manufacturing and IOT	22MEH309	Skill development / Employability Enhancement Courses
125	Smart Mobility and Intelligent vehicles	22MEH310	Skill development / Employability Enhancement Courses
B.E. Civil Engineering			
126	Transforms and Numerical Methods	22MA301	Skill Development
127	Mechanics of Fluids	22CE301	Skill Development
128	Surveying	22CE302	Skill Development
129	Construction Materials and Technology	22CE303	Skill Development
130	Mechanics of Solids	22ES301	Skill Development
131	Technical English	22EN301	Skill Development
132	Innovation Sprints	22MCIN02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
133	Advanced Surveying and Basic GIS Practical	22CE304	Entrepreneurship/ Skill development/ Employability Enhancement Courses
134	Material Testing and Evaluation Laboratory	22CE305	Entrepreneurship/ Skill development/ Employability Enhancement Courses
135	NCC Course – II (Only for NCC Students)	22NC301	Skill development / Employability Enhancement Courses
136	Strength of Materials	22CE401	Skill Development
137	Steel Structural Elements	22CE402	Skill Development
138	Mechanics of Soils	22CE403	Skill Development
139	Water Supply Engineering	22CE404	Skill Development
140	Applied Hydraulics and Fluid Machinery	22CE405	Skill Development
141	Concrete Technology	22CE406	Skill Development
142	Design Sprints	22MCIN03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
143	Disaster Preparedness and Planning	22MC401	Entrepreneurship/ Skill development/ Employability Enhancement Courses
144	Computer Aided Building Drawing	22CE407	Entrepreneurship/ Skill development/ Employability Enhancement Courses
145	Applied Hydraulics and Machinery Laboratory	22CE408	Entrepreneurship/ Skill development/ Employability Enhancement Courses
146	Basic Structural Analysis	22CE501	Skill Development
147	Foundation Engineering	22CE502	Skill Development
148	Water Resources Engineering	22CE503	Skill Development

149	Design of Reinforced Concrete Elements	22CE504	Skill Development
150	Waste Water Engineering	22CE505	Skill Development
151	Transportation Engineering	22CE506	Skill Development
152	Ideation Sprints	22MCIN04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
153	Indian Constitution	22MC501	Entrepreneurship/ Skill development/ Employability Enhancement Courses
154	Geotechnical Engineering Laboratory	22CE507	Entrepreneurship/ Skill development/ Employability Enhancement Courses
155	Environmental Quality Measurement Laboratory	22CE508	Entrepreneurship/ Skill development/ Employability Enhancement Courses
156	Mini Project	22CE601	Entrepreneurship/ Skill development/ Employability Enhancement Courses
157	Computational Hardware	22PSPE01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
158	Coding for Innovators	22PSPE02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
159	Industrial Automation	22PSPE03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
160	Applied Design Thinking	22PSOE01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
161	Startup Fundamentals	22PSOE02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
162	Prototype Development	22PSOE03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
163	Robotics	22PSEE01	Skill Development
164	Advanced Structural Analysis	22CE701	Skill development / Employability Enhancement Courses
165	Human Values, Professional Practices, Ethics and Building by-laws	22CE702	Entrepreneurship/ Skill development/ Employability Enhancement Courses
166	Estimation, Costing and Valuation	22CE703	Entrepreneurship/ Skill development/ Employability Enhancement Courses
167	Concrete Technology Laboratory	22CE704	Entrepreneurship/ Skill development/ Employability Enhancement Courses
168	Computer Aided Design and Drawing (Concrete & Steel)	22CE705	Entrepreneurship/ Skill development/ Employability Enhancement Courses

169	Project Work	22CE802	Entrepreneurship/ Skill development/ Employability Enhancement Courses
170	Prestressed Concrete Structures	22CEPE01	Skill development / Employability Enhancement Courses
171	Building Information Modelling	22CEPE02	Skill development / Employability Enhancement Courses
172	Sustainable and Green Building Technology	22CEPE03	Skill development / Employability Enhancement Courses
173	Advanced Steel Structures	22CEPE04	Skill development / Employability Enhancement Courses
174	Dynamics and Earthquake Resistant Design of Structures	22CEPE05	Skill development / Employability Enhancement Courses
175	Storage Structures	22CEPE06	Skill development / Employability Enhancement Courses
176	Highrise Buildings	22CEPE07	Skill development / Employability Enhancement Courses
177	Advanced Concrete Design	22CEPE08	Skill development / Employability Enhancement Courses
178	Design of Composite Structures	22CEPE09	Skill development / Employability Enhancement Courses
179	Coastal Structures	22CEPE10	Skill development / Employability Enhancement Courses
180	Ferrocement Technology	22CEPE11	Skill development / Employability Enhancement Courses
181	Air Pollution Control Engineering	22CEPE12	Skill development / Employability Enhancement Courses
182	Marine pollution Monitoring and Control	22CEPE13	Skill development / Employability Enhancement Courses
183	Solid Waste Management	22CEPE14	Skill development / Employability Enhancement Courses
184	Hazardous Waste Management	22CEPE15	Skill development / Employability Enhancement Courses
185	Open Channel Flow	22CEPE16	Skill development / Employability Enhancement Courses
186	River Engineering	22CEPE17	Skill development / Employability Enhancement Courses
187	Irrigation Engineering	22CEPE18	Skill development / Employability Enhancement Courses
188	Watershed Management	22CEPE19	Skill development / Employability Enhancement Courses
189	Hydrology	22CEPE20	Skill development / Employability Enhancement Courses
190	Ground Improvement Techniques	22CEPE21	Skill development / Employability Enhancement Courses
191	Soil Structure Interaction	22CEPE22	Skill development / Employability Enhancement Courses
192	Subsurface Investigation and Instrumentation	22CEPE23	Skill development / Employability Enhancement Courses
193	Earth Retaining Structures	22CEPE24	Skill development / Employability Enhancement Courses
194	Rock Mechanics and Applications	22CEPE25	Skill development / Employability Enhancement Courses
195	Traffic Engineering & Management	22CEPE26	Skill development / Employability Enhancement Courses
196	Airports, Docks and Harbours Engineering	22CEPE27	Skill development / Employability Enhancement Courses
197	Railway Engineering	22CEPE28	Skill development / Employability Enhancement Courses
198	Urban Planning & Development	22CEPE29	Skill development / Employability Enhancement Courses

199	Formwork for Concrete Structures	22CEPE30	Skill development / Employability Enhancement Courses
200	Advanced Surveying Techniques	22CEPE31	Skill development / Employability Enhancement Courses
201	Environmental Management	22CEOE01	Skill development / Employability Enhancement Courses
202	Disaster Mitigation and Management	22CEOE02	Skill development / Employability Enhancement Courses
203	Repair and Rehabilitation of Building Elements	22CEOE03	Skill development / Employability Enhancement Courses
204	Mechanics of Deformable bodies	22CEOE04	Skill development / Employability Enhancement Courses
205	Bridge Engineering	22CEH101	Skill development / Employability Enhancement Courses
206	Repair & Rehabilitation of Structures	22CEH102	Skill development / Employability Enhancement Courses
207	Industrial Structures	22CEH103	Skill development / Employability Enhancement Courses
208	Prefabricated Structures	22CEH104	Skill development / Employability Enhancement Courses
209	Finite Elements Analysis	22CEH105	Skill development / Employability Enhancement Courses
210	Experimental Techniques and Instrumentation	22CEH106	Skill development / Employability Enhancement Courses
211	Advanced Concrete Technology	22CEH107	Skill development / Employability Enhancement Courses
212	Industrial Wastewater Treatment	22CEH201	Skill development / Employability Enhancement Courses
213	Environmental Impact and Risk Assessment	22CEH202	Skill development / Employability Enhancement Courses
214	Environmental Management & Sustainable development	22CEH203	Skill development / Employability Enhancement Courses
215	Environmental Legislations in India	22CEH204	Skill development / Employability Enhancement Courses
216	Environmental Microbiology	22CEH205	Skill development / Employability Enhancement Courses
217	Waste Management Techniques	22CEH206	Skill development / Employability Enhancement Courses
218	Unit Operations and Processes in Water and Wastewater Treatment	22CEH207	Skill development / Employability Enhancement Courses
219	Smart Materials and Smart Structures	22CEH301	Skill development / Employability Enhancement Courses
220	Construction Techniques and Equipment	22CEH302	Skill development / Employability Enhancement Courses
221	Project Safety Management	22CEH303	Skill development / Employability Enhancement Courses
222	Sustainable and Green Building Technology	22CEH304	Skill development / Employability Enhancement Courses
223	Functional Planning in Building Services	22CEH305	Skill development / Employability Enhancement Courses
224	Building Valuation	22CEH306	Skill development / Employability Enhancement Courses

225	Quality Control and Assurance in Construction	22CEH307	Skill development / Employability Enhancement Courses
B.E. Electrical and Electronics Engineering			
226	Statistics and Numerical Methods	22MA302	Skill Development
227	Electric Circuit Analysis	22EE301	Skill Development
228	Electromagnetic Theory	22EE302	Skill Development
229	DC Machines and Transformers	22EE303	Skill Development
230	Electron Devices and Circuits	22EE304	Skill Development
231	Signals and Systems	22EE305	Skill Development
232	Innovation Sprints	22MCIN02	Skill development / Employability Enhancement Courses
233	Indian Constitution	22MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
234	NCC Course – II (only for NCC Students)*	22NCC31	Skill development / Employability Enhancement Courses
235	DC Machines and Transformers Laboratory	22EE306	Entrepreneurship/ Skill development/ Employability Enhancement Courses
236	Circuits and Electron Devices Laboratory	22EE307	Entrepreneurship/ Skill development/ Employability Enhancement Courses
237	Synchronous and Induction Machines	22EE401	Skill Development
238	Measurements and Instrumentation	22EE402	Skill Development
239	Analog and Digital Integrated Circuits	22EE403	Skill Development
240	Power Generation, Transmission and Distribution System	22EE404	Skill Development
241	Power Electronics	22EE405	Skill Development
242	Design Sprints	22MCIN03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
243	Environmental Science	22CYMC01	Skill Development
244	Synchronous and Induction Machines Laboratory	22EE406	Entrepreneurship/ Skill development/ Employability Enhancement Courses
245	Analog and Digital Integrated Circuits Laboratory	22EE407	Entrepreneurship/ Skill development/ Employability Enhancement Courses
246	Placement and Soft Skills Laboratory	22EN401	Entrepreneurship/ Skill development/ Employability Enhancement Courses
247	Control Systems	22EE501	Skill Development
248	Microprocessors and Microcontrollers	22EE502	Skill Development

249	Electrical Machine Design	22EE503	Skill Development
250	Electrical Drives and Control	22EE504	Skill Development
251	Power System Analysis and Stability	22EE505	Skill Development
252	Solar and Wind Energy Conversion System	22EE506	Skill Development
253	Ideation Sprints	22MCIN04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
254	Power Electronics and Energy Systems Laboratory	22EE507	Skill development / Employability Enhancement Courses
255	Microprocessor and Microcontroller Laboratory	22EE508	Skill development / Employability Enhancement Courses
256	Control and Instrumentation Laboratory	22EE509	Skill development / Employability Enhancement Courses
257	Mini Project	22EE601	Entrepreneurship/ Skill development/ Employability Enhancement Courses
258	Internship	22EE602	Entrepreneurship/ Skill development/ Employability Enhancement Courses
259	Applied Design Thinking	22MEPS11	Entrepreneurship/ Skill development/ Employability Enhancement Courses
260	Startup Fundamentals	22MEPS12	Entrepreneurship/ Skill development/ Employability Enhancement Courses
261	Computational Hardware	22MEPS13	Entrepreneurship/ Skill development/ Employability Enhancement Courses
262	Coding for Innovators	22MEPS14	Entrepreneurship/ Skill development/ Employability Enhancement Courses
263	Industrial Design & Rapid Prototyping Techniques	22MEPS15	Entrepreneurship/ Skill development/ Employability Enhancement Courses
264	Industrial Automation / Data Life Cycle Management	22MEPS16	Entrepreneurship/ Skill development/ Employability Enhancement Courses
265	Robotics / ML / MLOps	22MEPS17	Entrepreneurship/ Skill development/ Employability Enhancement Courses
266	Power System Protection and Switch Gear	22EE701	Skill Development
267	Smart Grid	22EE702	Skill Development
268	High Voltage Engineering	22EE703	Skill Development
269	Industrial Management and Economics	22EE704	Entrepreneurship/ Skill development/ Employability Enhancement Courses

270	Power Systems Laboratory	22EE705	Skill development / Employability Enhancement Courses
271	Electric Drives and Control Laboratory	22EE706	Skill development / Employability Enhancement Courses
272	Project Work	22EE801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
273	Network Analysis and Synthesis	22EEPE11	Skill development / Employability Enhancement Courses
274	Advanced Control Systems	22EEPE12	Skill development / Employability Enhancement Courses
275	Discrete Control Systems	22EEPE13	Skill development / Employability Enhancement Courses
276	Biomedical Instrumentation	22EEPE14	Skill development / Employability Enhancement Courses
277	Biology for Electrical Engineers	22EEPE15	Skill development / Employability Enhancement Courses
278	HVDC Transmission Systems	22EEPE21	Skill development / Employability Enhancement Courses
279	EHVAC Transmission Systems	22EEPE22	Skill development / Employability Enhancement Courses
280	Flexible AC Transmission System	22EEPE23	Skill development / Employability Enhancement Courses
281	Power System Operation and Control	22EEPE24	Skill development / Employability Enhancement Courses
282	Digital Signal Processing	22EEPE31	Skill development / Employability Enhancement Courses
283	Embedded System Design	22EEPE32	Skill development / Employability Enhancement Courses
284	Artificial Intelligence and Computer Vision	22EEPE33	Skill development / Employability Enhancement Courses
285	Soft Computing	22EEPE34	Skill development / Employability Enhancement Courses
286	Internet of Things for Electrical System	22EEPE35	Skill development / Employability Enhancement Courses
287	Power System Transients	22EEPE41	Skill development / Employability Enhancement Courses
288	Power Quality	22EEPE42	Skill development / Employability Enhancement Courses
289	Distributed Generation and Micro Grid	22EEPE43	Skill development / Employability Enhancement Courses
290	Restructured Power System	22EEPE44	Skill development / Employability Enhancement Courses
291	Utilization of Electrical Energy	22EEPE51	Skill development / Employability Enhancement Courses
292	Electrical Energy Conservation and Auditing	22EEPE52	Skill development / Employability Enhancement Courses
293	Electrical Wiring Estimation and Costing	22EEPE53	Skill development / Employability Enhancement Courses
294	Special Electrical Machines	22EEPE61	Skill development / Employability Enhancement Courses
295	Industrial Electrical Systems	22EEPE62	Skill development / Employability Enhancement Courses
296	Electric Vehicles and Control	22EEPE63	Skill development / Employability Enhancement Courses
297	Renewable Energy Sources	22EEOE01	Skill development / Employability Enhancement Courses
298	Industrial Drives	22EEOE02	Skill development / Employability Enhancement Courses
299	Energy Conservation and Management	22EEOE03	Skill development / Employability Enhancement Courses
300	Electric Vehicles	22EEOE04	Skill development / Employability Enhancement Courses

301	Substation Engineering and Automation	22EEHO101	Skill development / Employability Enhancement Courses
302	EMS and SCADA	22EEHO102	Skill development / Employability Enhancement Courses
303	Power system State Estimation and Security Control	22EEHO103	Skill development / Employability Enhancement Courses
304	Power System Automation	22EEHO104	Skill development / Employability Enhancement Courses
305	Power Plant Engineering	22EEHO105	Skill development / Employability Enhancement Courses
306	Computer Relaying and Wide Area Measurement Systems	22EEHO106	Skill development / Employability Enhancement Courses
307	Power System Planning and Reliability	22EEHO107	Skill development / Employability Enhancement Courses
308	Advanced Power System Protection	22EEHO108	Skill development / Employability Enhancement Courses
309	High Voltage Insulation Systems	22EEHO109	Skill development / Employability Enhancement Courses
310	Traction Engineering	22EEHO110	Skill development / Employability Enhancement Courses
311	Analysis of Electrical Machines	22EEHO201	Skill development / Employability Enhancement Courses
312	Multilevel Power Converters	22EEHO202	Skill development / Employability Enhancement Courses
313	SMPS and UPS	22EEHO203	Skill development / Employability Enhancement Courses
314	Modelling and Control of Power Converters	22EEHO204	Skill development / Employability Enhancement Courses
315	Digital Controller in Power Electronics Applications	22EEHO205	Skill development / Employability Enhancement Courses
316	PWM Converters and Application	22EEHO206	Skill development / Employability Enhancement Courses
317	Grid Converters for Renewable Energy Applications	22EEHO207	Skill development / Employability Enhancement Courses
318	Control and Integration of Renewable Energy Sources	22EEHO208	Skill development / Employability Enhancement Courses
319	Modern Electrical Drives	22EEHO209	Skill development / Employability Enhancement Courses
320	Electric Vehicle Architecture	22EEHO301	Skill development / Employability Enhancement Courses
321	Design of Motor and Power Converters for Electric Vehicles	22EEHO302	Skill development / Employability Enhancement Courses
322	Electric Vehicle Design, Mechanics and Control	22EEHO303	Skill development / Employability Enhancement Courses
323	Design of Electric Vehicle Charging System	22EEHO304	Skill development / Employability Enhancement Courses
324	Testing of Electric Vehicles	22EEHO305	Skill development / Employability Enhancement Courses
325	Intelligent Control of Electric Vehicles	22EEHO306	Skill development / Employability Enhancement Courses
326	Hybrid Electric vehicles	22EEHO307	Skill development / Employability Enhancement Courses

327	Battery Management Systems	22EEHO308	Skill development / Employability Enhancement Courses
328	Advanced Electric Drives for EV	22EEHO309	Skill development / Employability Enhancement Courses
329	Energy Storage Systems and Applications	22EEHO310	Skill development / Employability Enhancement Courses
B.E. Electronics and Communication Engineering			
330	Fourier Series, Complex Variables and Transf	22MA304	Skill Development
331	Semiconductor Devices and Circuits	22EC301	Skill Development
332	Digital System Design	22EC302	Skill Development
333	Network Theory and Synthesis	22EC303	Skill Development
334	Transmission Lines and Waveguides	22EC304	Skill Development
335	Analog Communication	22EC305	Skill Development
336	Indian Constitution	22MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
337	Innovation Sprint	22MCIN02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
338	NCC Course – II(Only for NCC Students)	22NC301	Skill development / Employability Enhancement Courses
339	Semiconductor Devices and Circuits Laboratory	22EC306	Skill development / Employability Enhancement Courses
340	Digital System Design Laboratory	22EC307	Skill development / Employability Enhancement Courses
341	Probability and Stochastic Process	22MA402	Skill Development
342	Analog Circuits	22EC401	Skill Development
343	Microprocessors and Microcontrollers	22EC402	Skill Development
344	Signals and Systems	22EC403	Skill Development
345	Control Systems	22EC404	Skill Development
346	Antenna and Wave Propagation	22EC405	Skill Development
347	Design Sprint	22MCIN03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
348	Environmental Science	22CYMC01	Skill Development
349	Placement and Soft skills Laboratory	22EN401	Entrepreneurship/ Skill development/ Employability Enhancement Courses
350	Analog Circuits Laboratory	22EC406	Entrepreneurship/ Skill development/ Employability Enhancement Courses
351	Microprocessors and Microcontrollers Laboratory	22EC407	Entrepreneurship/ Skill development/ Employability Enhancement Courses
352	Digital Communication	22EC501	Skill Development

353	Digital Signal Processing	22EC502	Skill Development
354	Embedded Systems	22EC503	Skill Development
355	Principles of Management	22EC504	Entrepreneurship/ Skill development/ Employability Enhancement Courses
356	Ideation Sprint	22MCIN04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
357	Communication Systems Laboratory	22EC505	Skill development / Employability Enhancement Courses
358	Digital Signal Processing Laboratory	22EC506	Skill development / Employability Enhancement Courses
359	Mini Project	22EC601	Entrepreneurship/ Skill development/ Employability Enhancement Courses
360	Applied Design Thinking	22IPPS11	Entrepreneurship/ Skill development/ Employability Enhancement Courses
361	Start- up Fundamentals	22IPPS12	Entrepreneurship/ Skill development/ Employability Enhancement Courses
362	Computational Hardware	22IPPS13	Entrepreneurship/ Skill development/ Employability Enhancement Courses
363	Coding for Innovators	22IPPS14	Entrepreneurship/ Skill development/ Employability Enhancement Courses
364	Industrial Design & Rapid Prototyping Techni	22IPPS15	Entrepreneurship/ Skill development/ Employability Enhancement Courses
365	Industrial Automation	22IPPS16	Entrepreneurship/ Skill development/ Employability Enhancement Courses
366	Robotics	22IPPS17	Entrepreneurship/ Skill development/ Employability Enhancement Courses
367	VLSI Design	22EC701	Skill Development
368	Optical and Microwave Engineering	22EC702	Skill Development
369	Wireless and Mobile Communication	22EC703	Skill Development
370	Optical and Microwave Engineering Laboratory	22EC704	Entrepreneurship/ Skill development/ Employability Enhancement Courses
371	VLSI Design and Embedded Systems Laboratory	22EC705	Entrepreneurship/ Skill development/ Employability Enhancement Courses
372	Project Work	22EC801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
373	Electronic Measurements	22ECPE601	Skill development / Employability Enhancement Courses
374	Computer Architecture	22ECPE602	Skill development / Employability Enhancement Courses

375	Digital Image Processing	22ECPE603	Skill development / Employability Enhancement Courses
376	Machine Learning	22ECPE604	Skill development / Employability Enhancement Courses
377	Modern Sensors and its Applications	22ECPE605	Skill development / Employability Enhancement Courses
378	Radar Communication	22ECPE606	Skill development / Employability Enhancement Courses
379	Internet of Things	22ECPE607	Skill development / Employability Enhancement Courses
380	Computer Networks	22ECPE608	Skill development / Employability Enhancement Courses
381	Software Defined Radio	22ECPE609	Skill development / Employability Enhancement Courses
382	High Speed Networks	22ECPE610	Skill development / Employability Enhancement Courses
383	Robotics	22ECPE611	Skill development / Employability Enhancement Courses
384	Virtual Instrumentation	22ECPE612	Skill development / Employability Enhancement Courses
385	Automotive Electronics	22ECPE613	Skill development / Employability Enhancement Courses
386	Embedded C	22ECPE614	Skill development / Employability Enhancement Courses
387	VLSI Physical Design	22ECPE615	Skill development / Employability Enhancement Courses
388	RF & EMI/EMC Testing	22ECPE616	Skill development / Employability Enhancement Courses
389	Multimedia Compression and Communication Techniques	22ECPE801	Skill development / Employability Enhancement Courses
390	Wireless Sensor Networks	22ECPE802	Skill development / Employability Enhancement Courses
391	Telecommunication and Switching Networks	22ECPE803	Skill development / Employability Enhancement Courses
392	Deep Learning	22ECPE804	Skill development / Employability Enhancement Courses
393	Network Security	22ECPE805	Skill development / Employability Enhancement Courses
394	Satellite Communication	22ECPE806	Skill development / Employability Enhancement Courses
395	Bio Medical Electronics	22ECPE807	Skill development / Employability Enhancement Courses
396	Cognitive Radio	22ECPE808	Skill development / Employability Enhancement Courses
397	Fundamentals of Electron Devices	22ECOE01	Skill development / Employability Enhancement Courses
398	Principles of Modern Communication Systems	22ECOE02	Skill development / Employability Enhancement Courses
399	Microcontrollers and its applications	22ECOE03	Skill development / Employability Enhancement Courses
400	Computer Networks	22ECOE04	Skill development / Employability Enhancement Courses
401	Basics of Embedded Systems	22ECOE05	Skill development / Employability Enhancement Courses
402	Basics of Internet of Things	22ECOE06	Skill development / Employability Enhancement Courses
403	Artificial Intelligence and Machine Learning	22ECOE07	Skill development / Employability Enhancement Courses
404	VLSI technology	22ECH101	Skill development / Employability Enhancement Courses
405	Analog CMOS IC design	22ECH102	Skill development / Employability Enhancement Courses

406	Device modelling	22ECH103	Skill development / Employability Enhancement Courses
407	Network on chip	22ECH104	Skill development / Employability Enhancement Courses
408	DSP integrated circuits	22ECH105	Skill development / Employability Enhancement Courses
409	VLSI signal processing	22ECH106	Skill development / Employability Enhancement Courses
410	Mixed signal VLSI design	22ECH107	Skill development / Employability Enhancement Courses
411	VLSI for wireless communication	22ECH108	Skill development / Employability Enhancement Courses
412	VLSI for IOT systems	22ECH109	Skill development / Employability Enhancement Courses
413	VLSI for CAD Design	22ECH110	Skill development / Employability Enhancement Courses
414	High performance networks	22ECH201	Skill development / Employability Enhancement Courses
415	Optical communication networks	22ECH202	Skill development / Employability Enhancement Courses
416	Network security and management	22ECH203	Skill development / Employability Enhancement Courses
417	Artificial neural networks	22ECH204	Skill development / Employability Enhancement Courses
418	5G communication networks	22ECH205	Skill development / Employability Enhancement Courses
419	Wireless Adhoc and sensor networks	22ECH206	Skill development / Employability Enhancement Courses
420	Software defined networks	22ECH207	Skill development / Employability Enhancement Courses
421	Embedded system for networking	22ECH208	Skill development / Employability Enhancement Courses
422	Cognitive radio networking	22ECH209	Skill development / Employability Enhancement Courses
423	Next generation networks	22ECH210	Skill development / Employability Enhancement Courses
424	Statistical Theory of Communication	22ECH301	Skill development / Employability Enhancement Courses
425	Information Theory and Coding	22ECH302	Skill development / Employability Enhancement Courses
426	mm Wave Communication	22ECH303	Skill development / Employability Enhancement Courses
427	Spread Spectrum Communication	22ECH304	Skill development / Employability Enhancement Courses
428	MIMO Communication	22ECH305	Skill development / Employability Enhancement Courses
429	Smart Antennas	22ECH306	Skill development / Employability Enhancement Courses
430	RF IC and Microwave MEMs	22ECH307	Skill development / Employability Enhancement Courses
431	Satellite Positioning and Navigation Systems	22ECH309	Skill development / Employability Enhancement Courses
432	Remote Sensing	22ECH310	Skill development / Employability Enhancement Courses
433	Advanced digital signal processing	22ECH401	Skill development / Employability Enhancement Courses
434	Speech processing	22ECH402	Skill development / Employability Enhancement Courses
435	Wavelet signal processing	22ECH404	Skill development / Employability Enhancement Courses
436	Pattern recognition and machine learning	22ECH405	Skill development / Employability Enhancement Courses
437	Adaptive/array signal processing	22ECH406	Skill development / Employability Enhancement Courses

438	Multimedia processing	22ECH407	Skill development / Employability Enhancement Courses
439	Biomedical signal and image processing	22ECH408	Skill development / Employability Enhancement Courses
440	VLSI signal processing	22ECH409	Skill development / Employability Enhancement Courses
441	Radar signal processing	22ECH410	Skill development / Employability Enhancement Courses
B.E. Computer Science Engineering			
442	Probability and Numerical Methods	22MA303	Skill Development
443	Computer Organization and Architecture	22CS301	Skill Development
444	Software Engineering	22CS302	Skill Development
445	Data Structures and Algorithms	22CS303	Skill Development
446	Operating Systems	22CS304	Skill Development
447	Innovation Sprints	22MCIN02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
448	NCC Course – II (Only for NCC Students)	22NC301	Skill development / Employability Enhancement Courses
449	Operating Systems Laboratory	22CS305	Skill development / Employability Enhancement Courses
450	Data Structures and Algorithms Laboratory	22CS306	Skill development / Employability Enhancement Courses
451	Discrete Mathematics	22MA401	Skill Development
452	Design and Analysis of Algorithms	22CS401	Skill Development
453	Theory of Computation	22CS402	Skill Development
454	Object Oriented Programming using C++	22CS403	Skill Development
455	Microprocessors and Microcontrollers	22CS404	Skill Development
456	Design Sprints	22MCIN03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
457	Environmental Science	22CYMC01	Skill Development
458	Object Oriented Programming using C++ Laboratory	22CS405	Skill development / Employability Enhancement Courses
459	Microprocessors and Microcontrollers Laboratory	22CS406	Skill development / Employability Enhancement Courses
460	Database Management Systems	22CS501	Skill Development
461	Java Programming	22CS502	Skill Development
462	Computer Networks	22CS503	Skill Development
463	Principles of Compiler Design	22CS504	Skill Development
464	Ideation Sprints	22MCIN04	Entrepreneurship/ Skill development/ Employability Enhancement Courses

465	Indian Constitution	22MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
466	Database Management Systems Laboratory	22CS505	Skill development / Employability Enhancement Courses
467	Java Programming Laboratory	22CS506	Skill development / Employability Enhancement Courses
468	Placement and Soft Skills Laboratory	22EN401	Skill development / Employability Enhancement Courses
469	Mini Project	22CS601	Entrepreneurship/ Skill development/ Employability Enhancement Courses
470	Computational Hardware	22PSPE01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
471	Coding for Innovators	22PSPE02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
472	Industrial Automation	22PSPE03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
473	Applied Design Thinking	22PSOE01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
474	Startup Fundamentals	22PSOE02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
475	Industrial Design & Rapid Prototyping Technic	22PSOE03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
476	Robotics/ML/ML/Ops	22PSEE01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
477	Cryptography and Network Security	22CS701	Skill Development
478	Python Programming	22CS702	Skill Development
479	Machine Learning	22CS703	Skill Development
480	Mobile Computing	22CS704	Skill Development
481	Principles of Management	22MG701	Entrepreneurship/ Skill development/ Employability Enhancement Courses
482	Machine Learning Laboratory	22CS705	Skill development / Employability Enhancement Courses
483	Project Work	22CS801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
484	Software Project Management	22CSPE101	Skill development / Employability Enhancement Courses
485	Artificial Intelligence	22CSPE102	Skill development / Employability Enhancement Courses
486	Web Technology	22CSPE103	Skill development / Employability Enhancement Courses
487	Agile Technology	22CSPE104	Skill development / Employability Enhancement Courses

488	Data Mining and Warehousing	22CSPE105	Skill development / Employability Enhancement Courses
489	Computer Hardware and Troubleshooting	22CSPE106	Skill development / Employability Enhancement Courses
490	Software Quality and Testing	22CSPE201	Skill development / Employability Enhancement Courses
491	Blockchain Technologies	22CSPE202	Skill development / Employability Enhancement Courses
492	Parallel Computing Architecture and Programming	22CSPE203	Skill development / Employability Enhancement Courses
493	Computer Graphics and Multimedia	22CSPE204	Skill development / Employability Enhancement Courses
494	Object Oriented Analysis and Design	22CSPE205	Skill development / Employability Enhancement Courses
495	Cyber Forensics	22CSPE206	Skill development / Employability Enhancement Courses
496	Service Oriented Architecture	22CSPE301	Skill development / Employability Enhancement Courses
497	Cloud Computing	22CSPE302	Skill development / Employability Enhancement Courses
498	Open-Source Technologies	22CSPE303	Skill development / Employability Enhancement Courses
499	Big Data Analytics	22CSPE304	Skill development / Employability Enhancement Courses
500	User Interface Design	22CSPE305	Skill development / Employability Enhancement Courses
501	E-Commerce	22CSPE306	Entrepreneurship/ Skill development/ Employability Enhancement Courses
502	Wireless Sensor Networks	22CSPE401	Skill development / Employability Enhancement Courses
503	Mobile Application Development	22CSPE402	Skill development / Employability Enhancement Courses
504	Data Visualization Technique	22CSPE403	Skill development / Employability Enhancement Courses
505	Predictive Data Analytics	22CSPE404	Skill development / Employability Enhancement Courses
506	Game Theory and its Applications	22CSPE405	Skill development / Employability Enhancement Courses
507	Business Intelligence and its Application	22CSPE406	Entrepreneurship/ Skill development/ Employability Enhancement Courses
508	Information Security	22CSPE501	Skill development / Employability Enhancement Courses
509	Data Science	22CSPE502	Skill development / Employability Enhancement Courses
510	Deep Learning	22CSPE503	Skill development / Employability Enhancement Courses
511	Social Network Analysis	22CSPE504	Skill development / Employability Enhancement Courses
512	Natural Language Processing	22CSPE505	Skill development / Employability Enhancement Courses
513	Ethical Hacking	22CSPE506	Skill development / Employability Enhancement Courses
514	Object Oriented Programming using C++	22CSOE01	Skill development / Employability Enhancement Courses
515	Operating Systems	22CSOE02	Skill development / Employability Enhancement Courses
516	Computer Networks	22CSOE03	Skill development / Employability Enhancement Courses
517	Python Programming	22CSOE04	Skill development / Employability Enhancement Courses

518	Java Programming	22CSOE05	Skill development / Employability Enhancement Courses
519	Computer Organization and Architecture	22CSOE06	Skill development / Employability Enhancement Courses
520	Data Structures using C++	22CSOE07	Skill development / Employability Enhancement Courses
521	Cloud Computing	22CSOE08	Skill development / Employability Enhancement Courses
522	Artificial Intelligence and Machine Learning	22CSOE09	Skill development / Employability Enhancement Courses
523	Exploratory Data Analysis	22CSH101	Skill development / Employability Enhancement Courses
524	Recommender Systems	22CSH102	Skill development / Employability Enhancement Courses
525	Neural Networks and Deep Learning	22CSH103	Skill development / Employability Enhancement Courses
526	Text and Speech Analysis	22CSH104	Skill development / Employability Enhancement Courses
527	Business Analytics	22CSH105	Skill development / Employability Enhancement Courses
528	Image and Video Analytics	22CSH106	Skill development / Employability Enhancement Courses
529	Computer Vision	22CSH107	Skill development / Employability Enhancement Courses
530	Full Stack Web Application Development	22CSH201	Skill development / Employability Enhancement Courses
531	App Development	22CSH202	Skill development / Employability Enhancement Courses
532	UI and UX Design	22CSH204	Skill development / Employability Enhancement Courses
533	Software Testing and Automation	22CSH205	Skill development / Employability Enhancement Courses
534	Web Application Security	22CSH206	Skill development / Employability Enhancement Courses
535	DevOps	22CSH207	Skill development / Employability Enhancement Courses
536	Principles of Programming Languages	22CSH208	Skill development / Employability Enhancement Courses
537	Cloud Computing	22CSH301	Skill development / Employability Enhancement Courses
538	Virtualization	22CSH302	Skill development / Employability Enhancement Courses
539	Cloud Services Management	22CSH303	Skill development / Employability Enhancement Courses
540	Data Warehousing	22CSH304	Skill development / Employability Enhancement Courses
541	Storage Technologies	22CSH305	Skill development / Employability Enhancement Courses
542	Software Defined Networks	22CSH306	Skill development / Employability Enhancement Courses
543	Stream Processing	22CSH307	Skill development / Employability Enhancement Courses
544	Security and Privacy in Cloud	22CSH308	Skill development / Employability Enhancement Courses
B.E. Metallurgical Engineering			
545	Linear Algebra & Transforms	22MA306	Skill Development
546	Elements of Physical Metallurgy	22MT301	Skill Development
547	Mineral Dressing, Fuels & Furnaces	22MT302	Skill Development
548	Metallurgical Thermodynamics and Kinetics	22MT303	Skill Development

549	Materials Science for Engineering	22PH102	Skill Development
550	Innovation Sprints	22MCIN02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
551	Mechanics of Deformable bodies	22CE310	Skill Development
552	NCC Course – II (Only for NCC Students)*	22NC301	Skill development / Employability Enhancement Courses
553	Metallography Laboratory	22MT304	Skill development / Employability Enhancement Courses
554	Chemical Metallurgy Laboratory	22MT305	Skill development / Employability Enhancement Courses
555	Probability and Statistical Methods	22MA403	Skill Development
556	Non Metallic Materials	22CY401	Skill Development
557	Mechanical Behaviour and Testing of Materials	22MT401	Skill Development
558	Advanced Physical Metallurgy	22MT402	Skill Development
559	Heat Treatment Technology	22MT403	Skill Development
560	Iron Making	22MT404	Skill Development
561	Design Sprints	22MCIN03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
562	Environmental Science	22CYMC01	Skill Development
563	Material Testing Laboratory	22MT405	Skill development / Employability Enhancement Courses
564	Placement and Soft Skills Laboratory	22EN401	Skill development / Employability Enhancement Courses
565	Forming Processes	22MT501	Skill Development
566	Steel Making	22MT502	Skill Development
567	Corrosion Engineering	22MT503	Skill Development
568	Casting Engineering	22MT504	Skill Development
569	Welding Engineering	22MT505	Skill Development
570	Introduction to instrumentation	22MT506	Skill Development
571	Indian Constitution	22MC301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
572	Ideation Sprints	22MCIN04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
573	Heat Treatment Laboratory	22MT507	Skill development / Employability Enhancement Courses
574	Corrosion Science Laboratory	22MT508	Skill development / Employability Enhancement Courses
575	Machine Shop Practice	22MT509	Entrepreneurship/ Skill development/ Employability Enhancement Courses
576	Mini Project	22ME601	Entrepreneurship/ Skill development/ Employability Enhancement Courses

577	Applied Design Thinking	22MEPS11	Entrepreneurship/ Skill development/ Employability Enhancement Courses
578	Start- up Fundamentals	22MEPS12	Entrepreneurship/ Skill development/ Employability Enhancement Courses
579	Computational Hardware	22MEPS13	Entrepreneurship/ Skill development/ Employability Enhancement Courses
580	Coding for Innovators	22MEPS14	Entrepreneurship/ Skill development/ Employability Enhancement Courses
581	Industrial Design & Rapid Prototyping Techni	22MEPS15	Entrepreneurship/ Skill development/ Employability Enhancement Courses
582	Industrial Automation	22MEPS16	Entrepreneurship/ Skill development/ Employability Enhancement Courses
583	Robotics	22MEPS17	Entrepreneurship/ Skill development/ Employability Enhancement Courses
584	Robotics/ML/MLOPs	22GE601	Skill Development
585	Characterization of Materials	22MT701	Skill Development
586	Introduction of Industrial Management	22MT702	Skill Development
587	Non Ferrous Extractive Metallurgy	22MT703	Skill Development
588	Materials Characterization Laboratory	22MT703	Skill development / Employability Enhancement Courses
589	Computer Application in Metallurgy Laboratory	22MT704	Skill development / Employability Enhancement Courses
590	Manufacturing Processes Laboratory	22MT705	Skill development / Employability Enhancement Courses
591	Casting & Forming Processes Laboratory	22MT706	Skill development / Employability Enhancement Courses
592	Total Quality Management	22MT801	Entrepreneurship/ Skill development/ Employability Enhancement Courses
593	Project Work	22MT802	Entrepreneurship/ Skill development/ Employability Enhancement Courses
594	Transport phenomena	22MTE01	Skill development / Employability Enhancement Courses
595	Fractography and failure Analysis	22MTE02	Skill development / Employability Enhancement Courses
596	Metallurgical kinetics	22MTE03	Skill development / Employability Enhancement Courses
597	Solidification Processing	22MTE04	Skill development / Employability Enhancement Courses
598	Fracture Mechanics	22MTE05	Skill development / Employability Enhancement Courses
599	Composite Materials	22MTE06	Skill development / Employability Enhancement Courses
600	Ceramic materials	22MTE07	Skill development / Employability Enhancement Courses

601	Metallurgy of tool Steels	22MTE08	Skill development / Employability Enhancement Courses
602	Bio and smart materials	22MTE09	Skill development / Employability Enhancement Courses
603	Continuous casting of steel	22MTE10	Skill development / Employability Enhancement Courses
604	Ferrous and Non Ferrous alloys	22MTE11	Skill development / Employability Enhancement Courses
605	Special casting Technology	22MTE12	Skill development / Employability Enhancement Courses
606	Alternate routes of Iron making	22MTE13	Skill development / Employability Enhancement Courses
607	Secondary steel making	22MTE14	Skill development / Employability Enhancement Courses
608	Powder Metallurgy	22MTE15	Skill development / Employability Enhancement Courses
609	Non Destructive Evaluation	22MTE16	Skill development / Employability Enhancement Courses
610	Severe plastic deformation	22MTE17	Skill development / Employability Enhancement Courses
611	Metallurgical waste utilization and management	22MTE18	Skill development / Employability Enhancement Courses
612	Computational Materials Engineering	22MTE19	Skill development / Employability Enhancement Courses
613	Special welding processes	22MTE20	Skill development / Employability Enhancement Courses
614	X- ray diffraction and Electron microscopy	22MTE21	Skill development / Employability Enhancement Courses
615	Electrical ,Electronics and magnetic materials	22MTE22	Skill development / Employability Enhancement Courses
616	Surface Engineering	22MTE23	Skill development / Employability Enhancement Courses
617	Additive manufacturing	22MTE24	Skill development / Employability Enhancement Courses
618	Nano Materials	22MTE25	Skill development / Employability Enhancement Courses
619	Thin films, coatings and applications	22MTE26	Skill development / Employability Enhancement Courses
620	Aerospace materials	22MTE27	Skill development / Employability Enhancement Courses
621	Modeling and simulation in material processes	22MTE28	Skill development / Employability Enhancement Courses
622	Welding Metallurgy	22MTE29	Skill development / Employability Enhancement Courses
623	Foundry Metallurgy	22MTE30	Skill development / Employability Enhancement Courses
624	Nuclear materials	22MTE31	Skill development / Employability Enhancement Courses
625	Foundry and Welding Technology	22MTOE01	Skill development / Employability Enhancement Courses
626	Surface Engineering	22MTOE02	Skill development / Employability Enhancement Courses
627	Design and Selection of Materials	22MTOE03	Skill development / Employability Enhancement Courses
628	Nano science and Technology	22MTOE04	Skill development / Employability Enhancement Courses
629	Materials for automobile components	22MTOE05	Skill development / Employability Enhancement Courses
630	Advanced Metal Joining Processes	22HMTW101	Skill development / Employability Enhancement Courses
631	Metallurgy of Welding	22HMTW102	Skill development / Employability Enhancement Courses

632	Welding Equipment and consumables	22HMTW103	Skill development / Employability Enhancement Courses
633	Welding codes and standards	22HMTW104	Skill development / Employability Enhancement Courses
634	Automation and Robotics	22HMTW105	Skill development / Employability Enhancement Courses
635	Welding Application Technology	22HMTW106	Skill development / Employability Enhancement Courses
636	Brazing, Soldering, Surfacing and Cutting	22HMTW107	Skill development / Employability Enhancement Courses
637	Design of Weldments	22HMTW108	Skill development / Employability Enhancement Courses
638	Failure Analysis in Weldments	22HMTW109	Skill development / Employability Enhancement Courses
639	Finite Element Analysis in welding	22HMTW110	Skill development / Employability Enhancement Courses
640	Electrical, Magnetic and Optical Materials	22HMTMP201	Skill development / Employability Enhancement Courses
641	Material Technology	22HMTMP202	Skill development / Employability Enhancement Courses
642	Polymers and Composites	22HMTMP203	Skill development / Employability Enhancement Courses
643	Design and Selection of Materials	22HMTMP204	Skill development / Employability Enhancement Courses
644	High Temperature Materials	22HMTMP205	Skill development / Employability Enhancement Courses
645	Processing of Nonmetallic Materials	22HMTMP206	Skill development / Employability Enhancement Courses
646	Biomaterials	22HMTMP207	Skill development / Employability Enhancement Courses
647	Nuclear materials	22HMTMP208	Skill development / Employability Enhancement Courses
648	Automotive and Aerospace materials	22HMTMP209	Skill development / Employability Enhancement Courses
649	Processing of Nonferrous alloys	22HMTMP210	Skill development / Employability Enhancement Courses
650	Advanced Physical Metallurgy	22MDMT101	Skill development / Employability Enhancement Courses
651	Metallurgical Thermodynamics and Kinetic	22MDMT102	Skill development / Employability Enhancement Courses
652	Mechanical Behaviour of Materials	22MDMT103	Skill development / Employability Enhancement Courses
653	Rate Processes in Metallurgy	22MDMT104	Skill development / Employability Enhancement Courses
654	Corrosion and Surface Engineering	22MDMT105	Skill development / Employability Enhancement Courses
655	Characterization of Materials	22MDMT106	Skill development / Employability Enhancement Courses
656	Automotive, Aerospace and Defence Materials	22MDMT107	Skill development / Employability Enhancement Courses
M.E. Thermal Engineering			
657	Advanced Thermodynamics	22THC11	Skill Development
658	Advanced Fluid Dynamics	22THC12	Skill Development
659	Advanced Heat Transfer	22THC13	Skill Development
660	Research Methodology and IPR	22MLC01	Skill development / Employability Enhancement Courses

661	Thermal Engineering Laboratory	22THC14	Skill development / Employability Enhancement Courses
662	Technical Seminar- I	22THC15	Entrepreneurship/ Skill development/ Employability Enhancement Courses
663	Hydrogen and Fuel cell Technologies	22THC21	Skill Development
664	Computational Fluid Dynamics for Thermal Systems	22THC22	Skill Development
665	Instrumentation for Thermal Systems	22THC23	Skill Development
666	Analysis & Simulation Laboratory	22THC24	Skill development / Employability Enhancement Courses
667	Applied Thermal Engineering Laboratory	22THC25	Skill development / Employability Enhancement Courses
668	Technical Seminar- II	22THC26	Entrepreneurship/ Skill development/ Employability Enhancement Courses
669	Dissertation Phase – I	22THC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
670	Dissertation Phase – II	22THC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
671	Advanced Mathematical Methods in Engineering	22CDE11	Skill development / Employability Enhancement Courses
672	Combustion in IC Engines	22THE11	Skill development / Employability Enhancement Courses
673	Thermal management of Electric Vehicle Battery Systems	22THE12	Skill development / Employability Enhancement Courses
674	Nuclear Engineering	22THE13	Skill development / Employability Enhancement Courses
675	Boundary Layer Theory and Turbulence	22THE14	Skill development / Employability Enhancement Courses
676	Air Conditioning System Design	22THE21	Skill development / Employability Enhancement Courses
677	Bio Energy Technologies	22THE22	Skill development / Employability Enhancement Courses
678	Optimization Techniques in Engineering	22THE23	Skill development / Employability Enhancement Courses
679	Electric and Hybrid Vehicle Technology	22THE24	Skill development / Employability Enhancement Courses
680	Alternate Fuels for IC Engines	22THE25	Skill development / Employability Enhancement Courses
681	Advanced Energy Storage Technologies Refrigeration systems	22THE31	Skill development / Employability Enhancement Courses
682	Refrigeration systems	22THE32	Skill development / Employability Enhancement Courses
683	Advanced Power Plant Engineering	22THE33	Skill development / Employability Enhancement Courses
684	Electronic Engine Management Systems	22THE34	Skill development / Employability Enhancement Courses

685	Design of Heat Exchangers	22THE35	Skill development / Employability Enhancement Courses
686	Solar Power Plants	22THE41	Skill development / Employability Enhancement Courses
687	Cryogenic Engineering	22THE42	Skill development / Employability Enhancement Courses
688	Renewable Energy Systems	22THE43	Skill development / Employability Enhancement Courses
689	Materials For Solar Devices	22THE44	Skill development / Employability Enhancement Courses
690	Energy Systems Modelling & Analysis	22THE45	Skill development / Employability Enhancement Courses
691	Design of Solar and Wind Systems	22THE51	Skill development / Employability Enhancement Courses
692	Design and Analysis of Turbo machines	22THE52	Skill development / Employability Enhancement Courses
693	Fire Engineering and Explosion control	22THE53	Skill development / Employability Enhancement Courses
694	Waste to Energy	22THE54	Skill development / Employability Enhancement Courses
695	Solar Refrigeration and Air-conditioning	22THE55	Skill development / Employability Enhancement Courses
696	Environmental And Pollution control	22THE61	Skill development / Employability Enhancement Courses
697	Nanotechnology	22THE62	Skill development / Employability Enhancement Courses
698	Solar Energy for Industrial Process Heating	22THE63	Skill development / Employability Enhancement Courses
699	Energy Efficient Buildings Design	22THE64	Skill development / Employability Enhancement Courses
700	Analysis Of Thermal Power Cycles	22THE65	Skill development / Employability Enhancement Courses
701	Energy Forecasting, Modeling and Project Management	22THE71	Skill development / Employability Enhancement Courses
702	Energy Management and Environmental Benefits	22THE72	Skill development / Employability Enhancement Courses
703	Solar Energy Appliances	22THE73	Skill development / Employability Enhancement Courses
704	Cost Management of Engineering Projects	22THE74	Skill development / Employability Enhancement Courses
705	Advanced Composite materials	22THE75	Skill development / Employability Enhancement Courses
706	English for Research Paper Writing	22AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
707	Disaster Management	22AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
708	Sanskrit for Technical Knowledge	22AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
709	Value Education	22AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
710	Constitution of India	22AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses

711	Pedagogy Studies	22AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
712	Stress Management by Yoga	22AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
713	Personality Development through Life Enlightenment Skills	22AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Computer Aided Design			
714	Concepts of Engineering Design	22CDC11	Skill Development
715	Computer Aided Modeling and Design	22CDC12	Skill Development
716	Advanced Mechanics of Materials	22CDC13	Skill Development
717	Research Methodology and IPR	22MLC01	Skill development / Employability Enhancement Courses
718	CAD Modeling and Drafting Laboratory	22CDC14	Skill development / Employability Enhancement Courses
719	Technical Seminar-I	22CDC15	Entrepreneurship/ Skill development/ Employability Enhancement Courses
720	Finite Element Methods in Design	22CDC21	Skill development / Employability Enhancement Courses
721	Mechanical Vibrations and Acoustics	22CDC22	Skill Development
722	Solid Freeform Manufacturing	22CDC23	Skill Development
723	Finite Element Analysis Laboratory	22CDC24	Skill development / Employability Enhancement Courses
724	CAM and Robotics Laboratory	22CDC25	Skill development / Employability Enhancement Courses
725	Technical Seminar-II	22CDC26	Entrepreneurship/ Skill development/ Employability Enhancement Courses
726	Dissertation Phase – I	22CDC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
727	Dissertation Phase – II	22CDC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
728	Advanced Mathematical Methods in Engineering	22CDE11	Skill development / Employability Enhancement Courses
729	Advanced Composite Materials	22CDE12	Skill development / Employability Enhancement Courses
730	Product Lifecycle Management	22CDE13	Skill development / Employability Enhancement Courses
731	Advanced Engineering Materials	22CDE14	Skill development / Employability Enhancement Courses
732	Experimental Stress Analysis	22CDE15	Skill development / Employability Enhancement Courses
733	Advanced Kinematics of Mechanisms	22CDE21	Skill development / Employability Enhancement Courses
734	Advanced Tool Design	22CDE22	Skill development / Employability Enhancement Courses
735	Industry 4.0	22CDE23	Skill development / Employability Enhancement Courses
736	Mechanics of Fracture	22CDE24	Skill development / Employability Enhancement Courses

737	Design for Manufacturing, Assembly	22CDE25	Skill development / Employability Enhancement Courses
738	Productivity Management and Re-engineering	22CDE31	Skill development / Employability Enhancement Courses
739	Theory of Plates and Shells	22CDE32	Skill development / Employability Enhancement Courses
740	Optimization Techniques in Design	22CDE33	Skill development / Employability Enhancement Courses
741	Computational Fluid Dynamics	22CDE34	Skill development / Employability Enhancement Courses
742	Supply Chain Management	22CDE35	Skill development / Employability Enhancement Courses
743	Experimental Techniques and Data analysis	22CDE41	Skill development / Employability Enhancement Courses
744	CAD/CAM tools	22CDE42	Skill development / Employability Enhancement Courses
745	Contact Mechanics	22CDE43	Skill development / Employability Enhancement Courses
746	Advanced Automotive Systems	22CDE44	Skill development / Employability Enhancement Courses
747	Design of Material Handling Equipment	22CDE45	Skill development / Employability Enhancement Courses
748	MEMS & NEMS Technology	22CDE51	Skill development / Employability Enhancement Courses
749	Enterprise Resource Planning	22CDE52	Skill development / Employability Enhancement Courses
750	Mechatronics System Design	22CDE53	Skill development / Employability Enhancement Courses
751	Failure Analysis	22CDE54	Skill development / Employability Enhancement Courses
752	Maintenance Engineering	22CDE55	Skill development / Employability Enhancement Courses
753	Integrated Product and Processes Development	22CDE61	Skill development / Employability Enhancement Courses
754	Industrial Safety Management	22CDE62	Skill development / Employability Enhancement Courses
755	Reliability in Engineering Systems	22CDE63	Skill development / Employability Enhancement Courses
756	Mechanical Measurement and Analysis	22CDE64	Skill development / Employability Enhancement Courses
757	Ergonomics in Manufacturing	22CDE65	Skill development / Employability Enhancement Courses
758	Quality concepts in design	22CDE71	Skill development / Employability Enhancement Courses
759	Design of Pressure Vessels	22CDE72	Skill development / Employability Enhancement Courses
760	Plasticity and Metal Forming	22CDE73	Skill development / Employability Enhancement Courses
761	Nano Materials Technology	22CDE74	Skill development / Employability Enhancement Courses
762	Tribology in design	22CDE75	Skill development / Employability Enhancement Courses
763	English for Research Paper Writing	22AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
764	Disaster Management	22AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
765	Sanskrit for Technical Knowledge	22AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses

766	Value Education	22AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
767	Constitution of India	22AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
768	Pedagogy Studies	22AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
769	Stress Management by Yoga	22AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
770	Personality Development through Life Enlightenment Skills	22AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Structural Engineering			
771	Advanced Structural Analysis	22STC11	Skill Development
772	Theory of Elasticity and Plasticity	22STC12	Skill Development
773	Structural Design Lab	22STC13	Skill development / Employability Enhancement Courses
774	Concrete and Experimental Stress Analysis Lab	22STC14	Skill development / Employability Enhancement Courses
775	Research Methodology and IPR	22MLC01	Skill development / Employability Enhancement Courses
776	Finite Element Method in Structural Engineering	22STC21	Skill Development
777	Structural Dynamics	22STC22	Skill Development
778	Model Testing Lab	22STC23	Skill development / Employability Enhancement Courses
779	Numerical Analysis Lab	22STC24	Skill development / Employability Enhancement Courses
780	Mini Project	22STC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
781	Dissertation Phase – I	22STC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
782	Dissertation Phase – II	22STC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
783	Theory of Thin Plates and Shells	22STE11	Skill development / Employability Enhancement Courses
784	Theory and Applications of Cement Composites	22STE12	Skill development / Employability Enhancement Courses
785	Theory of Structural Stability	22STE13	Skill development / Employability Enhancement Courses
786	Corrosion and its Prevention	22STE14	Skill development / Employability Enhancement Courses
787	Analytical and Numerical Methods for Structural Engineering	22STE21	Skill development / Employability Enhancement Courses

788	Structural Health Monitoring	22STE22	Skill development / Employability Enhancement Courses
789	Structural Optimization	22STE23	Skill development / Employability Enhancement Courses
790	Experimental Techniques and Instrumentation	22STE24	Skill development / Employability Enhancement Courses
791	Advanced Steel Design	22STE31	Skill development / Employability Enhancement Courses
792	Design of Formwork	22STE32	Skill development / Employability Enhancement Courses
793	Design of High Rise Structures	22STE33	Skill development / Employability Enhancement Courses
794	Design of Masonry Structures	22STE34	Skill development / Employability Enhancement Courses
795	Design of Prefabricated Structures	22STE35	Skill development / Employability Enhancement Courses
796	Design of Steel - Concrete Composite Structures	22STE36	Skill development / Employability Enhancement Courses
797	Design of Advanced Concrete Structures	22STE41	Skill development / Employability Enhancement Courses
798	Advanced Design of Foundations	22STE42	Skill development / Employability Enhancement Courses
799	Design of Industrial Structures	22STE43	Skill development / Employability Enhancement Courses
800	Sub Structure Design	22STE44	Skill development / Employability Enhancement Courses
801	Design and Construction of Ferrocement Structures	22STE45	Skill development / Employability Enhancement Courses
802	Design of Prestressed Concrete Structures	22STE51	Skill development / Employability Enhancement Courses
803	Analysis of Laminated Composite Plates	22STE52	Skill development / Employability Enhancement Courses
804	Fracture Mechanics of Concrete Structures	22STE53	Skill development / Employability Enhancement Courses
805	Design of Plates and Shells	22STE54	Skill development / Employability Enhancement Courses
806	Design of Bridges	22STE55	Skill development / Employability Enhancement Courses
807	Modern Construction Materials	22STE56	Skill development / Employability Enhancement Courses
808	Advanced Concrete Technology	22STE61	Skill development / Employability Enhancement Courses
809	Disaster Resistant Structures	22STE62	Skill development / Employability Enhancement Courses
810	Soil Structure Interaction	22STE63	Skill development / Employability Enhancement Courses
811	Environmental Engineering and Offshore Structures	22STE64	Skill development / Employability Enhancement Courses
812	Wind and Cyclone Effects on Structures	22STE65	Skill development / Employability Enhancement Courses
813	English for Research Paper Writing	22AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses

814	Disaster Management	22AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
815	Sanskrit for Technical Knowledge	22AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
816	Value Addition	22AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
817	Constitution of India	22AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
818	Pedagogy Studies	22AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
819	Stress Management by Yoga	22AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
820	Personality Development through Life Enlightenment Skills	22AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Welding Technologies			
821	Advanced Mathematics and Statistics	22WTC11	Skill Development
822	Welding Processes – I	22WTC12	Skill Development
823	Metallography Lab	22WTC13	Skill development / Employability Enhancement Courses
824	Joining Lab	22WTC14	Skill development / Employability Enhancement Courses
825	Research Methodology and IPR	22MLC01	Skill development / Employability Enhancement Courses
826	Welding Processes – II	22WTC21	Skill Development
827	Welding Metallurgy	22WTC22	Skill Development
828	Quality Control in Weldments Lab	22WTC23	Skill development / Employability Enhancement Courses
829	Characterization Lab	22WTC24	Skill development / Employability Enhancement Courses
830	Mini Project	22WTC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
831	Project Phase – I	22WTC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
832	Project Phase – II	22WTC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
833	Physical Metallurgy and Heat Treatment	22WTE01	Skill development / Employability Enhancement Courses
834	Welding Economics, Management and Safety	22WTE02	Skill development / Employability Enhancement Courses
835	Composite Materials	22WTE03	Skill development / Employability Enhancement Courses

836	Materials Characterization	22WTE04	Skill development / Employability Enhancement Courses
837	Failure Analysis in Weldments	22WTE05	Skill development / Employability Enhancement Courses
838	Testing and Inspection of Materials	22WTE06	Skill development / Employability Enhancement Courses
839	Non - metallic Materials	22WTE07	Skill development / Employability Enhancement Courses
840	Finite Element Analysis	22WTE08	Skill development / Employability Enhancement Courses
841	Electrical Aspects of Welding	22WTE09	Skill development / Employability Enhancement Courses
842	Total Quality System and Engineering	22WTE10	Skill development / Employability Enhancement Courses
843	Automation and Robots in Welding	22WTE11	Skill development / Employability Enhancement Courses
844	Welding Application Technology	22WTE12	Skill development / Employability Enhancement Courses
845	Brazing, Soldering, Surfacing and Cutting	22WTE13	Skill development / Employability Enhancement Courses
846	Corrosion and Surface Engineering	22WTE14	Skill development / Employability Enhancement Courses
847	Design of Weldments	22WTE15	Skill development / Employability Enhancement Courses
848	Industrial Safety	22WTE16	Skill development / Employability Enhancement Courses
849	Welding Codes and Standards	22WTE17	Skill development / Employability Enhancement Courses
850	Foundry Processes and Metallurgy	22WTE18	Skill development / Employability Enhancement Courses
851	Forming Processes	22WTE19	Skill development / Employability Enhancement Courses
852	English for Research Paper Writing	22AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
853	Disaster Management	22AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
854	Sanskrit for Technical Knowledge	22AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses
855	Value Education	22AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
856	Constitution of India	22AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
857	Pedagogy Studies	22AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
858	Stress Management by Yoga	22AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
859	Personality Development through Life Enlightenment Skills	22AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Power Electronics and Drives			

860	Power Semiconductor Devices and Components	22PEC11	Skill Development
861	Analysis of Power Converters	22PEC12	Skill Development
862	Advanced Power Electronics Laboratory	22PEC13	Skill development / Employability Enhancement Courses
863	Advanced Digital Control Laboratory	22PEC14	Skill development / Employability Enhancement Courses
864	Research Methodology and IPR	22MLC01	Skill development / Employability Enhancement Courses
865	Modelling and Analysis of Electrical Machines	22PEC21	Skill Development
866	Modern Electrical Drives	22PEC22	Skill Development
867	Power Electronics for Renewable Energy System Laboratory	22PEC23	Skill development / Employability Enhancement Courses
868	Advanced Electrical Drives Laboratory	22PEC24	Skill development / Employability Enhancement Courses
869	Mini Project With Seminar	22PEC25	Entrepreneurship/ Skill development/ Employability Enhancement Courses
870	Dissertation Phase – I	22PEC31	Entrepreneurship/ Skill development/ Employability Enhancement Courses
871	Dissertation Phase – II	22PEC41	Entrepreneurship/ Skill development/ Employability Enhancement Courses
872	Advanced Microcontroller Based System Design	22PEE11	Skill development / Employability Enhancement Courses
873	Applied Mathematics for Electrical Engineering	22PEE12	Skill development / Employability Enhancement Courses
874	System Theory	22PEE13	Skill development / Employability Enhancement Courses
875	Artificial Intelligence and Machine Learning	22PEE14	Skill development / Employability Enhancement Courses
876	Digital Control System	22PEE15	Skill development / Employability Enhancement Courses
877	Advanced Power Electronic Circuits	22PEE21	Skill development / Employability Enhancement Courses
878	Applied Digital Control for Power Electronics	22PEE22	Skill development / Employability Enhancement Courses
879	Modern Rectifiers and Resonant Converters	22PEE23	Skill development / Employability Enhancement Courses
880	Modulation Control for Power Converters	22PEE24	Skill development / Employability Enhancement Courses
881	Design of Power Converters	22PEE25	Skill development / Employability Enhancement Courses
882	Advanced Power Quality	22PEE31	Skill development / Employability Enhancement Courses

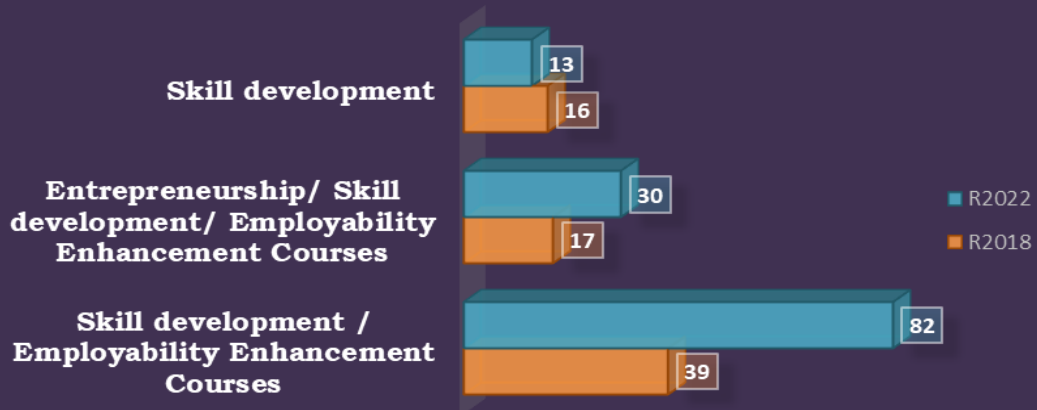
883	Harmonics and Filters for Power Electronic Circuits	22PEE32	Skill development / Employability Enhancement Courses
884	Energy Conservation, Auditing and Management	22PEE33	Skill development / Employability Enhancement Courses
885	Special Electrical Machines and Drives	22PEE34	Skill development / Employability Enhancement Courses
886	Digital Simulation of Power Electronics System	22PEE35	Skill development / Employability Enhancement Courses
887	Modeling of Switched Mode Power Converters	22PEE36	Skill development / Employability Enhancement Courses
888	Solar Photo Voltaic System	22PEE41	Skill development / Employability Enhancement Courses
889	Optimization Techniques	22PEE42	Skill development / Employability Enhancement Courses
890	Dynamics of Power Converters	22PEE43	Skill development / Employability Enhancement Courses
891	Wind Energy Conversion System	22PEE44	Skill development / Employability Enhancement Courses
892	Power Electronics for Renewable Energy System	22PEE45	Skill development / Employability Enhancement Courses
893	Smart Grid Technology	22PEE51	Skill development / Employability Enhancement Courses
894	Distributed Generation and Micro Grid	22PEE52	Skill development / Employability Enhancement Courses
895	FACTS Controllers	22PEE53	Skill development / Employability Enhancement Courses
896	HVDC Transmission Systems	22PEE54	Skill development / Employability Enhancement Courses
897	SCADA Systems and Applications	22PEE55	Skill development / Employability Enhancement Courses
898	Electric Vehicles and Power Management	22PEE61	Skill development / Employability Enhancement Courses
899	Grid Integration of Renewable Energy Sources	22PEE62	Skill development / Employability Enhancement Courses
900	Energy Storage Technologies	22PEE63	Skill development / Employability Enhancement Courses
901	Internet of Things for Smart System	22PEE64	Skill development / Employability Enhancement Courses
902	Digital Signal Processors for Power Converters	22PEE65	Skill development / Employability Enhancement Courses
903	English for Research paper writing	22AC01	Entrepreneurship/ Skill development/ Employability Enhancement Courses
904	Disaster Management	22AC02	Entrepreneurship/ Skill development/ Employability Enhancement Courses
905	Sanskrit for Technical Knowledge	22AC03	Entrepreneurship/ Skill development/ Employability Enhancement Courses

906	Value Education	22AC04	Entrepreneurship/ Skill development/ Employability Enhancement Courses
907	Constitution of India	22AC05	Entrepreneurship/ Skill development/ Employability Enhancement Courses
908	Pedagogy Studies	22AC06	Entrepreneurship/ Skill development/ Employability Enhancement Courses
909	Stress Management by Yoga	22AC07	Entrepreneurship/ Skill development/ Employability Enhancement Courses
910	Personality Development through Life Enlightenment Skills	22AC08	Entrepreneurship/ Skill development/ Employability Enhancement Courses
M.E. Communication Systems			
911	Antennas and Radiating Systems	22COC11	Skill Development
912	Advanced Digital Communication Techniques	22COC12	Skill Development
913	Research Methodology and IPR	22MLC01	Skill development / Employability Enhancement Courses
914	Antennas and Radiating Systems lab	22COC13	Skill development / Employability Enhancement Courses
915	Advanced Digital Communication Systems Lab	22COC14	Skill development / Employability Enhancement Courses
916	RF and Microwave Circuit Design	22COC21	Skill Development
917	Advanced Digital Signal Processing	22COC22	Skill Development
918	Advanced Digital Signal Processing Lab	22COC23	Skill development / Employability Enhancement Courses
919	Mini Project	22COC24	Entrepreneurship/ Skill development/ Employability Enhancement Courses
920	Dissertation Phase – I	22CO301	Entrepreneurship/ Skill development/ Employability Enhancement Courses
921	Dissertation Phase – II	22CO401	Entrepreneurship/ Skill development/ Employability Enhancement Courses
922	Multimedia Compression Techniques	22COE11	Skill development / Employability Enhancement Courses
923	Advanced Communication Networks	22COE12	Skill development / Employability Enhancement Courses
924	Wireless Sensor Networks	22COE13	Skill development / Employability Enhancement Courses
925	Deep Learning	22COE14	Skill development / Employability Enhancement Courses
926	Signal Detection and Estimation	22COE21	Skill development / Employability Enhancement Courses
927	Optical Networks	22COE22	Skill development / Employability Enhancement Courses
928	Satellite Communication and Navigation Systems	22COE23	Skill development / Employability Enhancement Courses

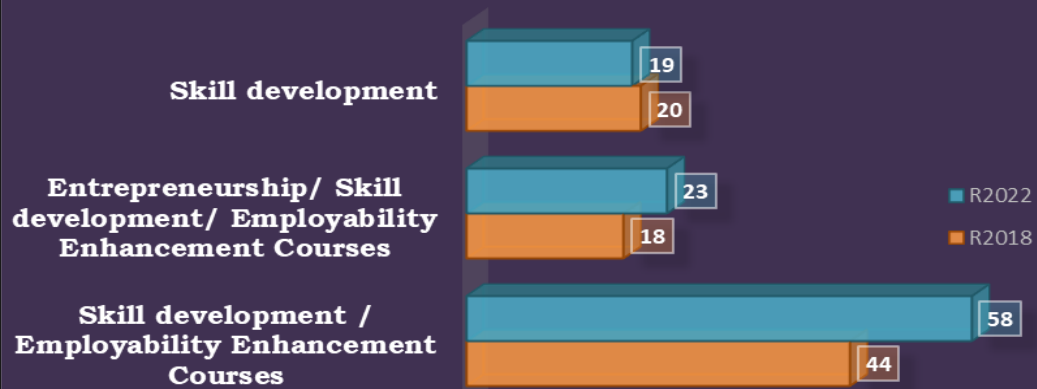
929	Cloud Computing Technologies	22COE24	Skill development / Employability Enhancement Courses
930	Wireless and Mobile Communication	22COE31	Skill development / Employability Enhancement Courses
931	Pattern Recognition and Machine learning	22COE32	Skill development / Employability Enhancement Courses
932	Voice and data networks	22COE33	Skill development / Employability Enhancement Courses
933	Digital Image and Video Processing	22COE34	Skill development / Employability Enhancement Courses
934	Spread Spectrum Communication	22COE41	Skill development / Employability Enhancement Courses
935	MIMO System	22COE42	Skill development / Employability Enhancement Courses
936	High Performance Networks	22COE43	Skill development / Employability Enhancement Courses
937	5G Communication Networks	22COE44	Skill development / Employability Enhancement Courses
938	DSP Architecture	22COE51	Skill development / Employability Enhancement Courses
939	Electromagnetic Interference and Compatibility	22COE52	Skill development / Employability Enhancement Courses
940	Radar Signal Processing	22COE53	Skill development / Employability Enhancement Courses
941	Natural Language Processing	22COE54	Skill development / Employability Enhancement Courses
942	Cognitive Radio	22COE61	Skill development / Employability Enhancement Courses
943	Internet of Things	22COE62	Skill development / Employability Enhancement Courses
944	VLSI for Wireless Communication	22COE63	Skill development / Employability Enhancement Courses
945	Cryptography and Network Security	22COE64	Skill development / Employability Enhancement Courses
946	Remote Sensing	22COE71	Skill development / Employability Enhancement Courses
947	Wavelet signal processing	22COE72	Skill development / Employability Enhancement Courses
948	Bio Memes	22COE73	Skill development / Employability Enhancement Courses
949	Big Data Technologies	22COE74	Skill development / Employability Enhancement Courses
950	Stress Management	22AC11	Entrepreneurship/ Skill development/ Employability Enhancement Courses
951	Disaster Management	22AC12	Entrepreneurship/ Skill development/ Employability Enhancement Courses
952	Constitution of India	22AC13	Entrepreneurship/ Skill development/ Employability Enhancement Courses
953	English for Research Paper Writing	22AC21	Entrepreneurship/ Skill development/ Employability Enhancement Courses
954	Pedagogy Studies	22AC22	Entrepreneurship/ Skill development/ Employability Enhancement Courses
955	Personality Development through Life Enlightenment Skills.	22AC23	Entrepreneurship/ Skill development/ Employability Enhancement Courses

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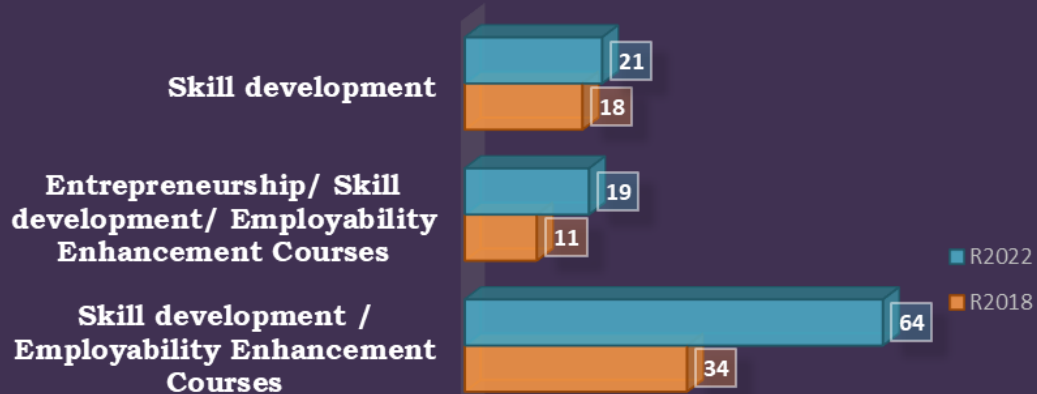
B.E. MECHANICAL ENGINEERING



B.E. CIVIL ENGINEERING

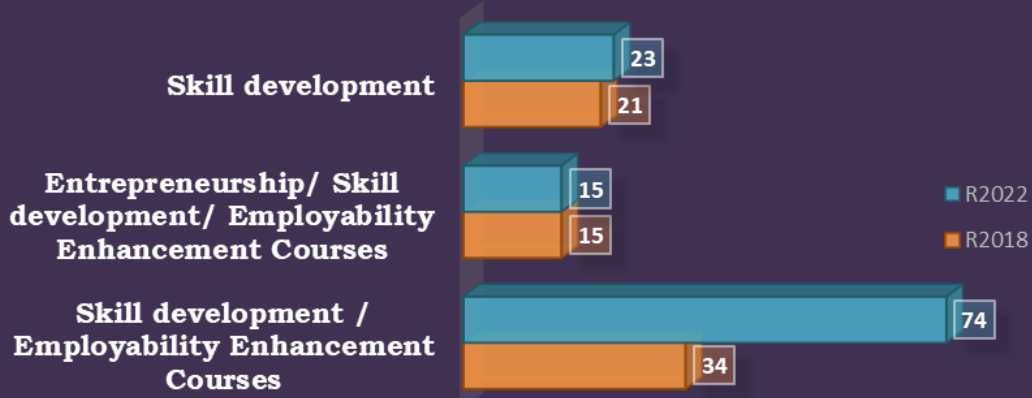


B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

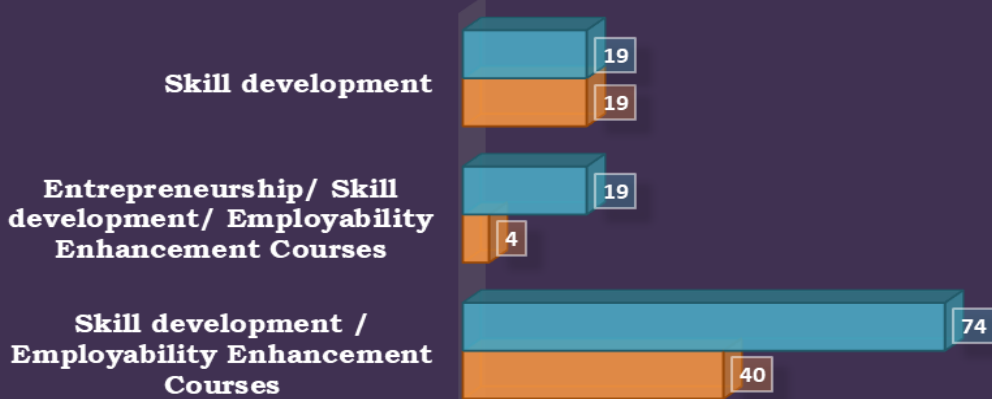



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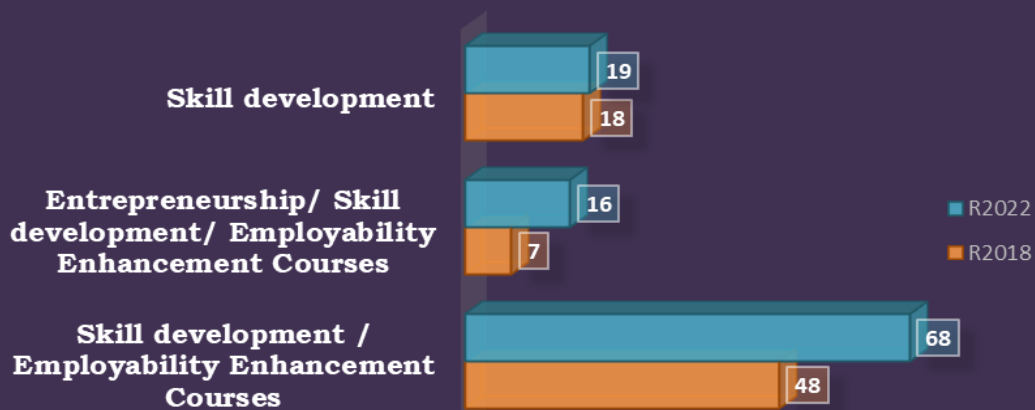
B.E. METALLURGICAL ENGINEERING



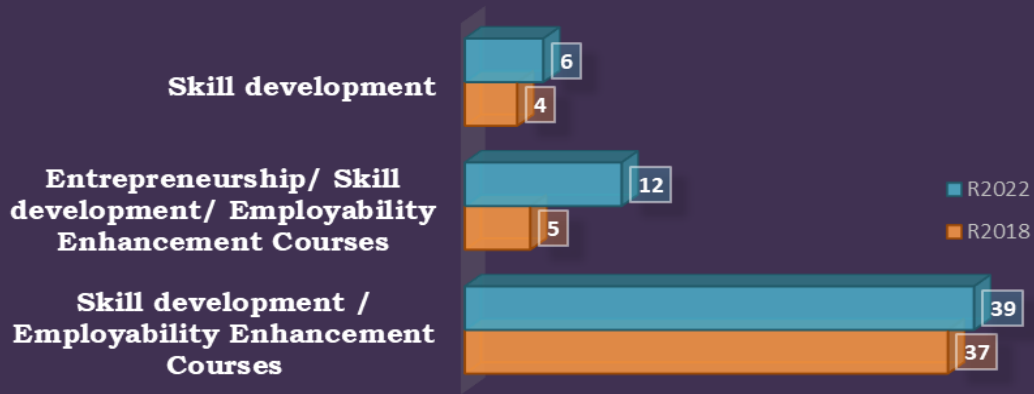
B.E. ELECTRONICS AND COMMUNICATION ENGINEERING



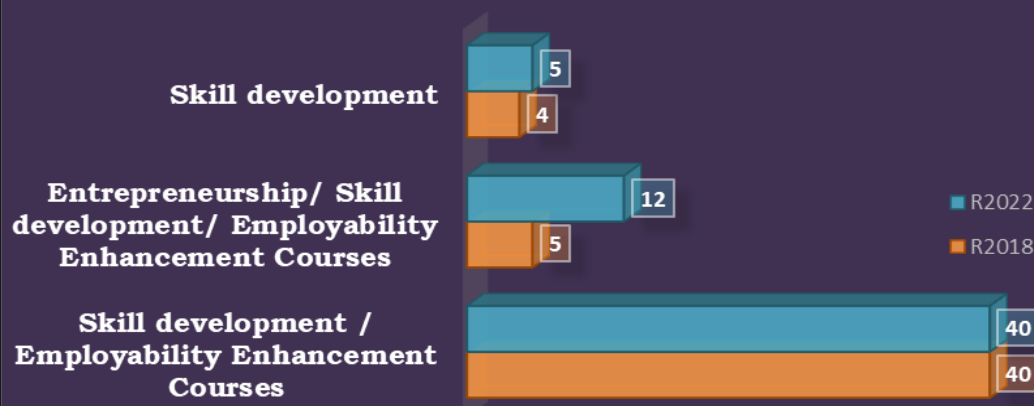
B.E. COMPUTER SCIENCE AND ENGINEERING



M.E. THERMAL ENGINEERING



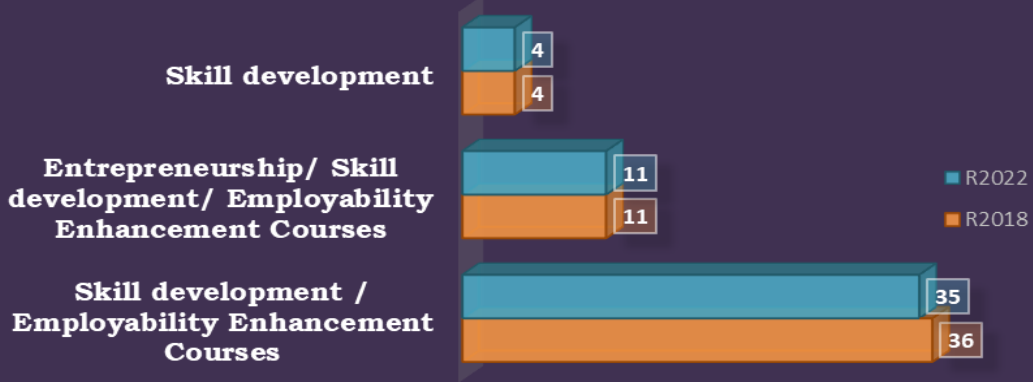
M.E. COMPUTER AIDED DESIGN



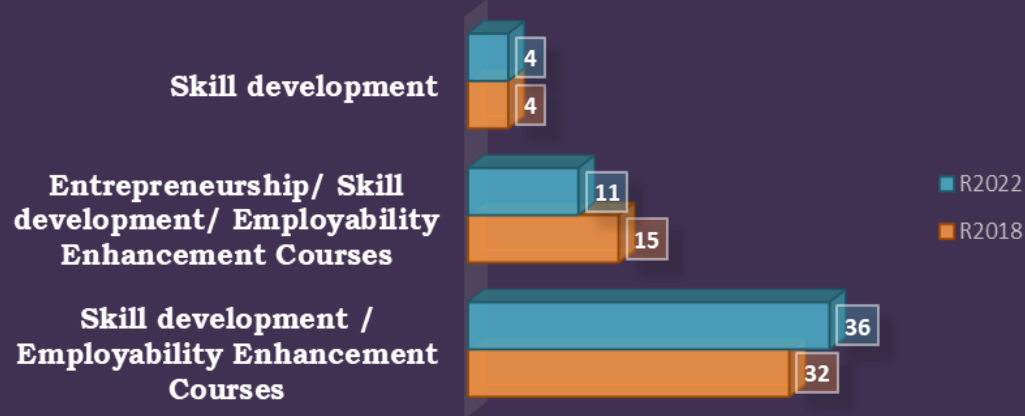
M.E. WELDING TECHNOLOGIES



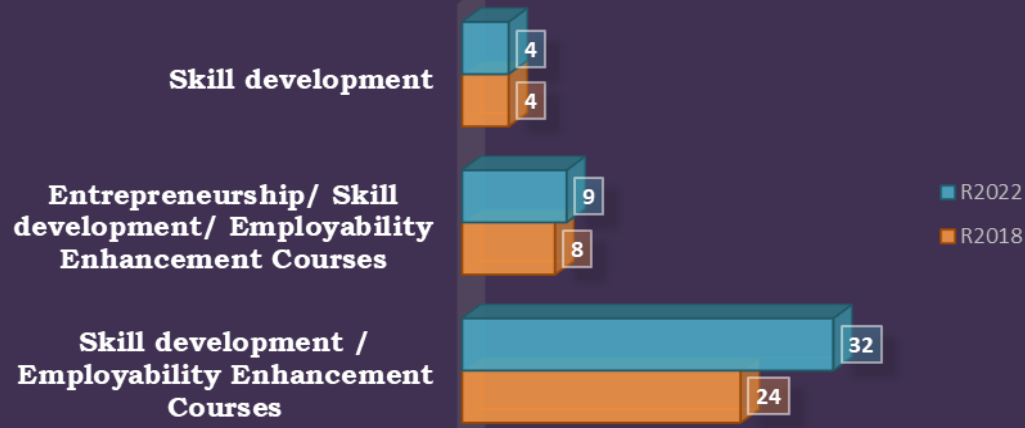
M.E. STRUCTURAL ENGINEERING



M.E. POWER ELECTRONICS AND DRIVES



M.E. COMMUNICATION SYSTEMS




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