CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075

List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
1	Mathematics -III	18MTC05	B.E. Mechanical Engineering
2	Engineering Economics And Accountancy	18MB C01	B.E. Mechanical Engineering
3	Material Science And Metallurgy	18ME C03	B.E. Mechanical Engineering
4	Mechanics Of Materials	18ME C04	B.E. Mechanical Engineering
5	Manufacturing Processes	18PE C01	B.E. Mechanical Engineering
6	Indian Constitution And Fundamental Principles	18EG M01	B.E. Mechanical Engineering
7	Indian Traditional Knowledge	18EE A01	B.E. Mechanical Engineering
8	Material Science And Metallurgy Lab	18ME C05	B.E. Mechanical Engineering
9	Mechanics Of Materials Lab	18ME C06	B.E. Mechanical Engineering
10	Manufacturing Processes Lab	18PE C02	B.E. Mechanical Engineering
11	Basics Of Data Structures	18CS C05	B.E. Mechanical Engineering
12	Kinematics Of Machines	18ME C07	B.E. Mechanical Engineering
13	Thermo Dynamics	18ME C08	B.E. Mechanical Engineering
14	Principles Of Management	18ME C09	B.E. Mechanical Engineering
15	Fluid Principles And Hydraulic Machines	18ME C10	B.E. Mechanical Engineering
16	Environmental Science	18CE M01	B.E. Mechanical Engineering
17	Basics Of Data Structures Lab	18CS C08	B.E. Mechanical Engineering
18	Soft Skills Lab	18EG C03	B.E. Mechanical Engineering
19	Fluid Principles And Hydraulic Machines Lab	18ME C11	B.E. Mechanical Engineering
20	Metrology and Instrumentation	16ME C33	B.E. Mechanical Engineering
21	Operations Research	16ME C34	B.E. Mechanical Engineering
22	Production Drawing	16PE C10	B.E. Mechanical Engineering
23	Production and Operations Management	16PE C11	B.E. Mechanical Engineering
24	Finite Element Analysis	16ME C35	B.E. Mechanical Engineering
25	Renewable Energy Sources	16ME E10	B.E. Mechanical Engineering
26	Energy Conservation, Management and Audit	16ME E11	B.E. Mechanical Engineering
27	Engineering Research Methodology	16ME E12	B.E. Mechanical Engineering

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List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
28	Environmental Pollution	16ME E13	B.E. Mechanical Engineering
29	Metrology and Instrumentation Lab	16ME C36	B.E. Mechanical Engineering
30	Computer Aided Engineering Lab	16ME C37	B.E. Mechanical Engineering
31	Project Seminar	16ME C38	B.E. Mechanical Engineering
32	Power Plant Engineering	16ME E15	B.E. Mechanical Engineering
33	Principles of Entrepreneurship	16ME E16	B.E. Mechanical Engineering
34	Innovations, Protection and Legal Aspects	16ME E17	B.E. Mechanical Engineering
35	Supply Chain Management	16PE E11	B.E. Mechanical Engineering
36	Nano Science and Technology	16ME E18	B.E. Mechanical Engineering
37	Disaster Mitigation and Management	16CE O02	B.E. Mechanical Engineering
38	Principles of Internet of Things	16IT O02	B.E. Mechanical Engineering
39	Energy Auditing	16EE O03	B.E. Mechanical Engineering
40	System Automation and Control	16EC O07	B.E. Mechanical Engineering
41	Basics of Artificial Intelligence	16CS O09	B.E. Mechanical Engineering
42	Object Oriented Programming using JAVA	16IT O01	B.E. Mechanical Engineering
43	History of Science and Technology	16PY O01	B.E. Mechanical Engineering
44	Waste Management	16EE O05	B.E. Mechanical Engineering
45	MEMS and its Applications	16EC O05	B.E. Mechanical Engineering
46	Basics of Cyber Security	16CS O07	B.E. Mechanical Engineering
47	Seminar	16ME C39	B.E. Mechanical Engineering
48	Project	16ME C40	B.E. Mechanical Engineering
49	Mathematics -III	18MTC05	B.E. Production Engineering
50	Engineering Economics And Accountancy	18MB C01	B.E. Production Engineering
51	Material Science And Metallurgy	18ME C03	B.E. Production Engineering
52	Mechanics Of Materials	18ME C04	B.E. Production Engineering
53	Fluid Principles And Hydraulic Machines	18ME C10	B.E. Production Engineering
54	Indian Constitution And Fundamental Principles	18EG M01	B.E. Production Engineering

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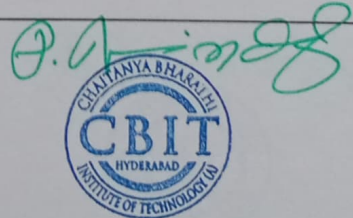
List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
55	Indian Traditional Knowledge	18EE A01	B.E. Production Engineering
56	Material Science And Metallurgy Lab	18ME C05	B.E. Production Engineering
57	Mechanics Of Materials Lab	18ME C06	B.E. Production Engineering
58	Fluid Principles And Hydraulic Machines Lab	18ME C11	B.E. Production Engineering
59	Basics Of Data Structures	18CS C05	B.E. Production Engineering
60	Kinematics Of Machines	18ME C07	B.E. Production Engineering
61	Thermo Dynamics	18ME C08	B.E. Production Engineering
62	Principles Of Management	18ME C09	B.E. Production Engineering
63	Metal Casting And Welding	18PE C03	B.E. Production Engineering
64	Environmental Science	18CE M01	B.E. Production Engineering
65	Basics Of Data Structures Lab	18CS C08	B.E. Production Engineering
66	Soft Skills Lab	18EG C03	B.E. Production Engineering
67	Metal Casting And Welding Lab	18PE C04	B.E. Production Engineering
68	Metrology and Instrumentation	16ME C33	B.E. Production Engineering
69	Operations Research	16ME C34	B.E. Production Engineering
70	Production Drawing	16PE C10	B.E. Production Engineering
71	Production and Operations Management	16PE C11	B.E. Production Engineering
72	Tool Engineering	16PE C12	B.E. Production Engineering
73	Renewable Energy Sources	16ME E10	B.E. Production Engineering
74	Energy Conservation, Management and Audit	16ME E11	B.E. Production Engineering
75	Engineering Research Methodology	16ME E12	B.E. Production Engineering
76	Finite Element Methods	16ME E14	B.E. Production Engineering
77	Metrology and Instrumentation Lab	16ME C36	B.E. Production Engineering
78	Manufacturing Engineering Lab	16PE C13	B.E. Production Engineering
79	Project Seminar	16PE C14	B.E. Production Engineering
80	Power Plant Engineering	16ME E15	B.E. Production Engineering
81	Principles of Entrepreneurship	16ME E16	B.E. Production Engineering

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List of New Courses introduced for the AY:2019-20

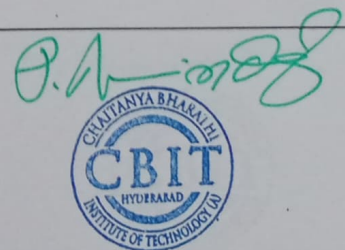| S.No	Name of the Course	Course Code	Name of the Programme
82	Innovations, Protection and Legal Aspects	16ME E17	B.E. Production Engineering
83	Supply Chain Management	16PE E11	B.E. Production Engineering
84	Total Quality Management	16PE E12	B.E. Production Engineering
85	Disaster Mitigation and Management	16CE O02	B.E. Production Engineering
86	Principles of Internet of Things	16IT O02	B.E. Production Engineering
87	Energy Auditing	16EE O03	B.E. Production Engineering
88	System Automation and Control	16EC O07	B.E. Production Engineering
89	Basics of Artificial Intelligence	16CS O09	B.E. Production Engineering
90	Object Oriented Programming using JAVA	16IT O01	B.E. Production Engineering
91	History of Science and Technology	16PY O01	B.E. Production Engineering
92	Waste Management	16EE O05	B.E. Production Engineering
93	MEMS and its Applications	16EC O05	B.E. Production Engineering
94	Basics of Cyber Security	16CS O07	B.E. Production Engineering
95	Seminar	16PE C15	B.E. Production Engineering
96	Project	16PE C16	B.E. Production Engineering
97	Computer Aided Modeling and Design	19MEC 101	M.E. CAD-CAM
98	Computer Integrated Manufacturing	19MEC 102	M.E. CAD-CAM
99	Research Methodology and IPR	19MEC 103	M.E. CAD-CAM
100	Advanced Machine Design	19MEE 101	M.E. CAD-CAM
101	Advanced Vibrations and Acoustics	19MEE 102	M.E. CAD-CAM
102	Optimization Techniques	19MEE 103	M.E. CAD-CAM
103	Automation	19MEE 104	M.E. CAD-CAM
104	Design for Manufacturing and Assembly	19MEE 105	M.E. CAD-CAM
105	Industrial Robotics	19MEE 106	M.E. CAD-CAM
106	Integrated Design and Manufacturing Lab	19MEC 104	M.E. CAD-CAM
107	Vibrations and Acoustics Lab	19MEC 105	M.E. CAD-CAM
108	Value Education	19ECA 101	M.E. CAD-CAM

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List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
109	Pedagogy Studies	19ITA 101	M.E. CAD-CAM
110	Disaster Mitigation and Management	19CEA 101	M.E. CAD-CAM
111	Sanskrit for Technical Knowledge	19EEA 101	M.E. CAD-CAM
112	Finite Element Techniques	19MEC 106	M.E. CAD-CAM
113	Mechanical Design and Analysis	19MEC 107	M.E. CAD-CAM
114	Computational Fluid Dynamics	19MEE 206	M.E. CAD-CAM
115	Mechanics of Composite Materials	19MEE 107	M.E. CAD-CAM
116	Fracture Mechanics	19MEE 108	M.E. CAD-CAM
117	Multibody Dynamics	19MEE 109	M.E. CAD-CAM
118	Tribology in Design	19MEE 110	M.E. CAD-CAM
119	Failure Analysis and Design	19MEE 111	M.E. CAD-CAM
120	Computer Aided Engineering Lab	19MEC 108	M.E. CAD-CAM
121	Computational Fluid Dynamics Lab	19MEC 206	M.E. CAD-CAM
122	Mini Project with Seminar	19MEC 109	M.E. CAD-CAM
123	English for Research Paper Writing	19EGA 101	M.E. CAD-CAM
124	Indian Constitution and Fundamental Rights	19EGA 102	M.E. CAD-CAM
125	Stress Management by Yoga	19EGA 103	M.E. CAD-CAM
126	Personality Development through Life's Enlightenment Skills	19EGA 104	M.E. CAD-CAM
127	Thermodynamics and Combustion	19MEC 201	M.E. Thermal Engineering
128	Advanced Fluid Dynamics	19MEC 202	M.E. Thermal Engineering
129	Research Methodology and IPR	19MEC 103	M.E. Thermal Engineering
130	Thermal and Nuclear Power Plants	19MEE 201	M.E. Thermal Engineering
131	Environmental Engineering and Pollution Control	19MEE 202	M.E. Thermal Engineering
132	Optimization Techniques	19MEE 103	M.E. Thermal Engineering
133	Air Conditioning System Design	19MEE 203	M.E. Thermal Engineering
134	Energy Conservation and Management	19MEE 204	M.E. Thermal Engineering
135	Design of Solar and Wind Systems	19MEE 205	M.E. Thermal Engineering

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List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
136	Disaster Mitigation and Management	19CEA 101	M.E. Thermal Engineering
137	Sanskrit for Technical Knowledge	19EEA 101	M.E. Thermal Engineering
138	Value Education	19ECA 101	M.E. Thermal Engineering
139	Pedagogy Studies	19ITA 101	M.E. Thermal Engineering
140	Thermal Systems Lab	19MEC 203	M.E. Thermal Engineering
141	Design of Solar and Wind Systems Lab	19MEC 204	M.E. Thermal Engineering
142	Finite Element Techniques	19MEC 106	M.E. Thermal Engineering
143	Advanced Heat and Mass Transfer	19MEC 205	M.E. Thermal Engineering
144	Computational Fluid Dynamics	19MEE 206	M.E. Thermal Engineering
145	Refrigeration and Cryogenics	19MEE 207	M.E. Thermal Engineering
146	Design of Heat Exchangers	19MEE 208	M.E. Thermal Engineering
147	Turbo Machines	19MEE 209	M.E. Thermal Engineering
148	Gas Turbines	19MEE 210	M.E. Thermal Engineering
149	Power Plant Control and Instrumentation	19MEE 211	M.E. Thermal Engineering
150	English for Research Paper Writing	19EGA 101	M.E. Thermal Engineering
151	Indian Constitution and Fundamental Rights	19EGA 102	M.E. Thermal Engineering
152	Stress Management by Yoga	19EGA 103	M.E. Thermal Engineering
153	Personality Development through Life's Enlightenment Skills	19EGA 104	M.E. Thermal Engineering
154	Computer Aided Engineering Lab	19MEC 108	M.E. Thermal Engineering
155	Computational Fluid Dynamics Lab	19MEC 206	M.E. Thermal Engineering
156	Mini Project with Seminar	19MEC 207	M.E. Thermal Engineering
157	Engineering Mathematics-III	18MTC06	B.Tech.- Biotechnology
158	Cell and Molecular Biology	18BT C03	B.Tech.- Biotechnology
159	Biochemistry	18BT C04	B.Tech.- Biotechnology
160	Microbiology and Industrial Biotechnology	18BT C05	B.Tech.- Biotechnology
161	Process Principles and Reaction Engineering	18BT C06	B.Tech.- Biotechnology
162	Genetics	18BT C07	B.Tech.- Biotechnology

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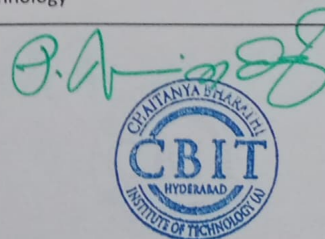## List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
163	Biochemistry Lab	18BT C08	B.Tech.- Biotechnology
164	Microbiology Lab	18BT C09	B.Tech.- Biotechnology
165	Basics of Data Structures	18CS C05	B.Tech.- Biotechnology
166	Immunology	18BT C10	B.Tech.- Biotechnology
167	Instrumental Methods in Biotechnology	18BT C11	B.Tech.- Biotechnology
168	Chemical and Biochemical Thermodynamics	18BT C12	B.Tech.- Biotechnology
169	Principles of Management	18ME C09	B.Tech.- Biotechnology
170	Basics of Data Structures	18CS C06	B.Tech.- Biotechnology
171	Immunology Lab	18BT C13	B.Tech.- Biotechnology
172	Instrumentation Lab	18BT C14	B.Tech.- Biotechnology
173	Soft Skills Lab	18EG C03	B.Tech.- Biotechnology
174	Down Stream Processing	16BT C41	B.Tech.- Biotechnology
175	Plant Biotechnology	16BT C42	B.Tech.- Biotechnology
176	Animal Biotechnology	16BT C43	B.Tech.- Biotechnology
177	Bioprocess Dynamics & Control	16BT C44	B.Tech.- Biotechnology
178	Computer Applications in Bioprocess Industries	16BT C45	B.Tech.- Biotechnology
179	Genomics & Proteomics	16BT E46	B.Tech.- Biotechnology
180	Cancer Biology	16BT E47	B.Tech.- Biotechnology
181	Intellectual Property Rights Regulatory Affairs & Clinical Trials	16BT E48	B.Tech.- Biotechnology
182	Down Stream Processing Lab	16BT C49	B.Tech.- Biotechnology
183	Tissue Culture Lab	16BT C50	B.Tech.- Biotechnology
184	Project Seminar	16BT C51	B.Tech.- Biotechnology
185	Tissue Engineering	16BT E52	B.Tech.- Biotechnology
186	Immunodiagnostics	16BT E53	B.Tech.- Biotechnology
187	Molecular Modeling & Drug Design	16BT E54	B.Tech.- Biotechnology
188	Research Methodologies	16ME O06	B.Tech.- Biotechnology
189	Biomedical Instrumentation	16EC O02	B.Tech.- Biotechnology

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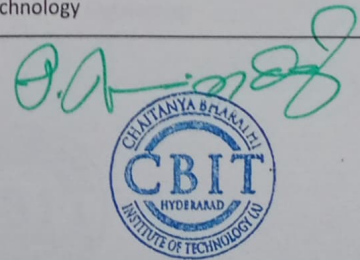
List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
190	Technical Writing Skills	16EG O01	B.Tech.- Biotechnology
191	IOT and Applications	16CS O03	B.Tech.- Biotechnology
192	Basics of Data Science Using R	16CS O04	B.Tech.- Biotechnology
193	Entrepreneurship	16ME O01	B.Tech.- Biotechnology
194	Seminar	16BT C55	B.Tech.- Biotechnology
195	Project	16BT C56	B.Tech.- Biotechnology
196	Mathematical Foundation of Computer Science	19CSC 101	M.Tech-Computer Science and Engineering
197	Advanced Data Structures	19CSC 102	M.Tech-Computer Science and Engineering
198	Machine Learning	19CSE101	M.Tech-Computer Science and Engineering
199	Internet of Things	19CSE102	M.Tech-Computer Science and Engineering
200	Introduction to Intelligent Systems	19CSE103	M.Tech-Computer Science and Engineering
201	Data Science & Big Data Analytics	19CSE113	M.Tech-Computer Science and Engineering
202	Distributed Database Systems	19CSE114	M.Tech-Computer Science and Engineering
203	Advanced Wireless and Mobile Networks	19CSE115	M.Tech-Computer Science and Engineering
204	RM and IPR	19MEC 103	M.Tech-Computer Science and Engineering
205	Laboratory 1 Advanced Data Structures	19CSC 103	M.Tech-Computer Science and Engineering
206	Laboratory 2 Introduction to Intelligent Systems Lab	19CSE109	M.Tech-Computer Science and Engineering
207	Advanced Algorithms	19CSC104	M.Tech-Computer Science and Engineering
208	Soft Computing	19CSC105	M.Tech-Computer Science and Engineering
209	Data Preparation and Analysis	19CSE104	M.Tech-Computer Science and Engineering
210	Human and Computer Interaction	19CSE116	M.Tech-Computer Science and Engineering
211	AA & Soft Computing Lab	19CSC106	M.Tech-Computer Science and Engineering
212	Data Preparation and Analysis Lab	19CSE110	M.Tech-Computer Science and Engineering
213	Mini Projects with Seminar	19CSC107	M.Tech-Computer Science and Engineering
214	Mini Project – I	18IT C08	B.E. - Information Technology
215	Basic Electronics Lab	18EC C35	B.E. - Information Technology
216	Soft Skills	18EG C03	B.E. - Information Technology

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S.No	Name of the Course	Course Code	Name of the Programme
217	Basic Electrical Engineering Lab	18EE C02	B.E. - Information Technology
218	Digital Logic and Computer Architecture	18IT C03	B.E. - Information Technology
219	Database Management Systems	18IT C09	B.E. - Information Technology
220	Java Programming	18IT C10	B.E. - Information Technology
221	Design and Analysis of Algorithms	18IT C11	B.E. - Information Technology
222	Probability and Statistics	18MT C09	B.E. - Information Technology
223	Indian Constitution	18EG M01	B.E. - Information Technology
224	IT Workshop	18IT C07	B.E. - Information Technology
225	Database Management Systems Lab	18IT C12	B.E. - Information Technology
226	Java Programming Lab	18IT C13	B.E. - Information Technology
227	Mini Project - II	18IT C14	B.E. - Information Technology
228	Embeeded Systems & Internet of Things	16IT C31	B.E. - Information Technology
229	Distributed Systems	16IT C32	B.E. - Information Technology
230	Information Security	16IT C33	B.E. - Information Technology
231	Big Data Analytics	16IT C34	B.E. - Information Technology
232	Human Computer Interaction	16IT E10	B.E. - Information Technology
233	Natural Language Processing	16IT E13	B.E. - Information Technology
234	Business Intelligence	16IT E15	B.E. - Information Technology
235	Big Data Analytics Lab	16IT C35	B.E. - Information Technology
236	Embeeded Systems & Internet of Things Lab	16IT C36	B.E. - Information Technology
237	Project Seminar	16IT C37	B.E. - Information Technology
238	Social Media Analytics	16IT E17	B.E. - Information Technology
239	Research Methodologies	16ME 006	B.E. - Information Technology
240	Introduction to Operations Research	16ME 007	B.E. - Information Technology
241	Gender Sensitization	16EG 002	B.E. - Information Technology
242	Disaster Mitigation and Management	16CE002	B.E. - Information Technology
243	Entrepreneurship	16ME001	B.E. - Information Technology

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S.No	Name of the Course	Course Code	Name of the Programme
244	Seminar	16IT C38	B.E. - Information Technology
245	Project	16IT C39	B.E. - Information Technology
246	Computational Number Theory	19MTC101	M.Tech Computer Networks and Information Security
247	Cryptography and Network Security	19ITC101	M.Tech Computer Networks and Information Security
248	Ethical hacking	19ITE106	M.Tech Computer Networks and Information Security
249	Data Science	19ITE113	M.Tech Computer Networks and Information Security
250	Research methodology and IPR	19MEC103	M.Tech Computer Networks and Information Security
251	Audit course-1	AC1	M.Tech Computer Networks and Information Security
252	Cryptography and Network Security Lab	16ITC104	M.Tech Computer Networks and Information Security
253	Data Science Lab	19ITE119	M.Tech Computer Networks and Information Security
254	Cryptography &Network security	19ITC101	M.Tech Computer Networks and Information Security
255	Adhoc Sensor networks	19ITC102	M.Tech Computer Networks and Information Security
256	Biometric Security	19ITE101	M.Tech Computer Networks and Information Security
257	Data Science	19ITE113	M.Tech Computer Networks and Information Security
258	Audit course-2	AC2	M.Tech Computer Networks and Information Security
259	Cryptography and Network Security LAB	19ITC104	M.Tech Computer Networks and Information Security
260	Data Science Lab	19ITE119	M.Tech Computer Networks and Information Security
261	MP LAB with Seminars	19ITC106	M.Tech Computer Networks and Information Security
262	Project Seminar	16ITC301	M.Tech Computer Networks and Information Security
263	Project Work and Dissertation	16ITC401	M.Tech Computer Networks and Information Security
264	Applied mathematics	18MTC07	B.E. Electrical and Electronics Engineering
265	Analog Electronic Circuits	18EEC03	B.E. Electrical and Electronics Engineering
266	Electrical Measurements and Instrumentation	18EEC04	B.E. Electrical and Electronics Engineering
267	Electromagnetic Fields	18EEC05	B.E. Electrical and Electronics Engineering
268	Electrical Circuit Analysis	18EEC06	B.E. Electrical and Electronics Engineering
269	Indian constitution	18EGM01	B.E. Electrical and Electronics Engineering
270	Indian Traditional Knowledge	18EEM01	B.E. Electrical and Electronics Engineering

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List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
271	Analog Electronic Circuits Lab	18EEC07	B.E. Electrical and Electronics Engineering
272	Electrical Measurements and Instrumentation Lab	18EEC08	B.E. Electrical and Electronics Engineering
273	Basics of Data Structures	18CSC05	B.E. Electrical and Electronics Engineering
274	Digital Electronics	18EEC09	B.E. Electrical and Electronics Engineering
275	Electrical Machines-1	18EEC10	B.E. Electrical and Electronics Engineering
276	Power Systems-I	18EEC11	B.E. Electrical and Electronics Engineering
277	Principles of Management	18ME C09	B.E. Electrical and Electronics Engineering
278	Environmental Science	18CEM01	B.E. Electrical and Electronics Engineering
279	Basics of Data Structures lab	18CSC06	B.E. Electrical and Electronics Engineering
280	Digital Electronics Lab	18EEC12	B.E. Electrical and Electronics Engineering
281	Electrical Machines-1 Lab	18EEC13	B.E. Electrical and Electronics Engineering
282	Soft Skills Lab	18EGC03	B.E. Electrical and Electronics Engineering
283	Utilization of Electrical Energy	16EE C32	B.E. Electrical and Electronics Engineering
284	DSP and Embedded Systems	16EE C33	B.E. Electrical and Electronics Engineering
285	Computer methods in power systems	16EEE15	B.E. Electrical and Electronics Engineering
286	Power Quality Engineering	16EEE16	B.E. Electrical and Electronics Engineering
287	Special Electrical Machines	16EEE17	B.E. Electrical and Electronics Engineering
288	Disaster Mitigation and Management	16CE O02	B.E. Electrical and Electronics Engineering
289	Machine Learning Using Phyton	16CS O10	B.E. Electrical and Electronics Engineering
290	Entrepreneurship	16ME O01	B.E. Electrical and Electronics Engineering
291	Power Systems Simulation Lab	16EE C34	B.E. Electrical and Electronics Engineering
292	Digital Signal Processor and Embedded Systems Lab`	16EE C35	B.E. Electrical and Electronics Engineering
293	Project Seminar	16EE C36	B.E. Electrical and Electronics Engineering
294	Flexible AC Transmission Systems(FACTS)	16EE E19	B.E. Electrical and Electronics Engineering
295	Electrical Estimation and Costing(EEC)	16EE E25	B.E. Electrical and Electronics Engineering
296	Technical Writing Skills	16EG O01	B.E. Electrical and Electronics Engineering
297	Industrial Administration and Financial Management	16 ME O08	B.E. Electrical and Electronics Engineering

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List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
298	Seminar	16EE C37	B.E. Electrical and Electronics Engineering
299	Project	16EE C38	B.E. Electrical and Electronics Engineering
300	Power system Analysis	19EEC101	M.E. Power Systems and Power Electronics
301	Power Eelctronic Converters	19EEC102	M.E. Power Systems and Power Electronics
302	Artificial Intelligence Techniques	19EEE108	M.E. Power Systems and Power Electronics
303	Power Quality	19EEE110	M.E. Power Systems and Power Electronics
304	Research Methodology and IPR	19MEC103	M.E. Power Systems and Power Electronics
305	English for Research Paper Writing	19EGA101	M.E. Power Systems and Power Electronics
306	Power Systems Lab	19EEC103	M.E. Power Systems and Power Electronics
307	Power Electronics Simulation Lab	19EEC104	M.E. Power Systems and Power Electronics
308	Power System dynamics	19EEC105	M.E. Power Systems and Power Electronics
309	Advanced Power Electronic Circuits	19EEC106	M.E. Power Systems and Power Electronics
310	Renewable Energy System	19EEE107	M.E. Power Systems and Power Electronics
311	Energy Auditing & Management	19EEE113	M.E. Power Systems and Power Electronics
312	Disaster Mitigation and Management	19CEA101	M.E. Power Systems and Power Electronics
313	Power Electronics Lab	19EEC107	M.E. Power Systems and Power Electronics
314	Power Systems Simulation Lab	19EEC108	M.E. Power Systems and Power Electronics
315	Mini Project with Seminar	19EEC109	M.E. Power Systems and Power Electronics
316	Project Seminar (i) Problem formulation & submission of synopsis within 8 weeks from the	16EEC101	M.E. Power Systems and Power Electronics
317	Project Work & Dissertation	16EEC103	M.E. Power Systems and Power Electronics
318	Applied Mathematics	18MTC07	B.E-Electronics and Communication Engineering
319	Basics of Data Structures	18CSC05	B.E-Electronics and Communication Engineering
320	Electromagnetic Theory and Transmission Lines	18ECC01	B.E-Electronics and Communication Engineering
321	Electronic Devices	18ECC02	B.E-Electronics and Communication Engineering
322	Network Theory	18ECC03	B.E-Electronics and Communication Engineering
323	Signals and Systems	18ECC04	B.E-Electronics and Communication Engineering
324	Environmental Science	18CEM01	B.E-Electronics and Communication Engineering

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S.No	Name of the Course	Course Code	Name of the Programme
325	Basics of Data Structures Lab	18CSC06	B.E-Electronics and Communication Engineering
326	Electronic Devices Lab	18ECC05	B.E-Electronics and Communication Engineering
327	Electronic Workshop and Networks Lab	18ECC06	B.E-Electronics and Communication Engineering
328	Soft Skills	18EGC03	B.E-Electronics and Communication Engineering
329	Analog Circuits	18ECC07	B.E-Electronics and Communication Engineering
330	Analog Communication	18ECC08	B.E-Electronics and Communication Engineering
331	Antennas and Wave Propagation	18ECC09	B.E-Electronics and Communication Engineering
332	Control Systems	18ECC10	B.E-Electronics and Communication Engineering
333	Digital Systems Design	18ECC11	B.E-Electronics and Communication Engineering
334	Indian Constitution	18EGM01	B.E-Electronics and Communication Engineering
335	Indian Traditional Knowledge	18EEM01	B.E-Electronics and Communication Engineering
336	Analog Circuits Lab	18ECC12	B.E-Electronics and Communication Engineering
337	Analog Communication Lab	18ECC13	B.E-Electronics and Communication Engineering
338	Digital Systems Design Lab	18ECC14	B.E-Electronics and Communication Engineering
339	Data Communication and Computer Networks	16ECC32	B.E-Electronics and Communication Engineering
340	Principles of GNSS	16ECC33	B.E-Electronics and Communication Engineering
341	Radar and Satellite Communication	16ECC34	B.E-Electronics and Communication Engineering
342	VLSI Design	16ECC35	B.E-Electronics and Communication Engineering
343	Principles of Real Time Operating Systems	16ECE09	B.E-Electronics and Communication Engineering
344	Speech Processing	16ECE10	B.E-Electronics and Communication Engineering
345	Applications of IoT in ECE	16ECE12	B.E-Electronics and Communication Engineering
346	Digital Image Processing	16ECE13	B.E-Electronics and Communication Engineering
347	Advanced Simulation Lab	16ECC36	B.E-Electronics and Communication Engineering
348	ElectronicDesign and Automation Lab	16ECC37	B.E-Electronics and Communication Engineering
349	Project Seminar	16ECC38	B.E-Electronics and Communication Engineering
350	DSP Processors and Architectures	16ECE16	B.E-Electronics and Communication Engineering
351	VLSI Technology	16ECE18	B.E-Electronics and Communication Engineering

S.No	Name of the Course	Course Code	Name of the Programme
352	Voice over IP	16ECE19	B.E-Electronics and Communication Engineering
353	Basics of Machine Learning Using Python	16CSO10	B.E-Electronics and Communication Engineering
354	Entrepreneurship	16MEO01	B.E-Electronics and Communication Engineering
355	Gender Sensitization	16EGO02	B.E-Electronics and Communication Engineering
356	History of Science and Technology	16PYO01	B.E-Electronics and Communication Engineering
357	Disaster Mitigation and Management	16CEO02	B.E-Electronics and Communication Engineering
358	Fundamentals of DBMS	16CSO06	B.E-Electronics and Communication Engineering
359	Seminar	16EC C39	B.E-Electronics and Communication Engineering
360	Project	16EC C40	B.E-Electronics and Communication Engineering
361	Advanced Digital Signal Processing	19EC C102	M.E-Communication Engineering
362	Wireless and Mobile Communication	19EC C104	M.E-Communication Engineering
363	Research Methodology and IPR	19ME C103	M.E-Communication Engineering
364	Global Navigation Satellite Systems	19EC E103	M.E-Communication Engineering
365	Software Defined and Cognitive Radio	19EC E112	M.E-Communication Engineering
366	English for Research Paper Writing	19EG A101	M.E-Communication Engineering
367	Advanced Digital Signal Processing Lab Lab	19EC C106	M.E-Communication Engineering
368	Wireless and Mobile Communication Lab	19EC C108	M.E-Communication Engineering
369	Advanced Communication Networks	19EC C101	M.E-Communication Engineering
370	Antennas and Radiating Systems	19EC C103	M.E-Communication Engineering
371	Signal Intelligence Systems	19EC E111	M.E-Communication Engineering
372	Internet of Things	19EC E106	M.E-Communication Engineering
373	Value Education	19EC A101	M.E-Communication Engineering
374	Advanced Communication Networks lab	19EC C105	M.E-Communication Engineering
375	Antennas and Radiating Systems Lab	19EC C107	M.E-Communication Engineering
376	Mini Project with Seminar	19EC C109	M.E-Communication Engineering
377	Analog and Digital CMOS VLSI Design	19EC C201	M.E-Embedded Systems & VLSI Design
378	Microcontrollers and Programmable Digital Signal Processors	19EC C203	M.E-Embedded Systems & VLSI Design

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S.No	Name of the Course	Course Code	Name of the Programme
379	Research Methodology and IPR	19ME C103	M.E-Embedded Systems & VLSI Design
380	Advanced Computer Organization	19EC E201	M.E-Embedded Systems & VLSI Design
381	VLSI Technology and Physical Design Automation	19EC E213	M.E-Embedded Systems & VLSI Design
382	English for Research Paper Writing	19EG A101	M.E-Embedded Systems & VLSI Design
383	Analog and Digital CMOS VLSI Design Lab	19EC C205	M.E-Embedded Systems & VLSI Design
384	Microcontrollers and Programmable Digital Signal Processors Lab	19EC C206	M.E-Embedded Systems & VLSI Design
385	Embedded System Design using RTOS	19EC C202	M.E-Embedded Systems & VLSI Design
386	VLSI Design Verification and Testing	19EC C204	M.E-Embedded Systems & VLSI Design
387	Low Power VLSI Design	19EC E205	M.E-Embedded Systems & VLSI Design
388	SoC Design	19EC E210	M.E-Embedded Systems & VLSI Design
389	Value Education	19EC A101	M.E-Embedded Systems & VLSI Design
390	RTL Simulation and Synthesis with PLDs Lab	19EC C207	M.E-Embedded Systems & VLSI Design
391	RTOS and VLSI Design Verification Lab	19EC C208	M.E-Embedded Systems & VLSI Design
392	Mini Project with Seminar	19EC C209	M.E-Embedded Systems & VLSI Design
393	Management and Organization Behaviour	19MB C101	Master of Bussiness Administration
394	Managerial Economics	19MB C102	Master of Bussiness Administration
395	Financial Accounting for Management	19MB C103	Master of Bussiness Administration
396	Marketing Management	19MB C104	Master of Bussiness Administration
397	Statistics for Management	19MB C105	Master of Bussiness Administration
398	Digital Technology	19MB C106	Master of Bussiness Administration
399	Business Communication Lab	19MB C107	Master of Bussiness Administration
400	Statistics Lab	19MB C108	Master of Bussiness Administration
401	Business Environment	19MB O101	Master of Bussiness Administration
402	Corporate Social Responsibility	19MB O102	Master of Bussiness Administration
403	Business Law and Ethics	19MB O103	Master of Bussiness Administration
404	Human Resource Management	19MB C109	Master of Bussiness Administration
405	Financial Management	19MB C110	Master of Bussiness Administration

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S.No	Name of the Course	Course Code	Name of the Programme
406	Business Research Methods	19MB C111	Master of Bussiness Administration
407	Operations Research	19MB C112	Master of Bussiness Administration
408	Operations Management	19MB C113	Master of Bussiness Administration
409	Business Analytics	19MB C114	Master of Bussiness Administration
410	Logistics and Supply Chain Management	19MB C115	Master of Bussiness Administration
411	Comprehensive Viva	19MB C116	Master of Bussiness Administration
412	E-Business	19MB O104	Master of Bussiness Administration
413	Banking Management	19MB O105	Master of Bussiness Administration
414	Customer Relationship Management	19MB O106	Master of Bussiness Administration
415	Personality Development	19MBSD01	Master of Bussiness Administration
416	Strategic Management	19MBC117	Master of Bussiness Administration
417	Investment Management	19MBE101	Master of Bussiness Administration
418	Financial Markets and Services	19MBE102	Master of Bussiness Administration
419	Performance and Compensation Management	19MBE103	Master of Bussiness Administration
420	Training and Development	19MBE104	Master of Bussiness Administration
421	Product and Brand Management	19MBE105	Master of Bussiness Administration
422	Integrated Marketing Communications and Digital Marketing	19MBE106	Master of Bussiness Administration
423	Business Data Mining	19MBE107	Master of Bussiness Administration
424	R-Programming	19MBE108	Master of Bussiness Administration
425	Transport Management	19MBE109	Master of Bussiness Administration
426	Distribution and Warehouse Management	19MBE110	Master of Bussiness Administration
427	Career Guidance	19MBSD102	Master of Bussiness Administration
428	Entrepreneurship Development	19MBC119	Master of Bussiness Administration
429	Financial Risk Management	19MBE111	Master of Bussiness Administration
430	Project Appraisal and Financing	19MBE112	Master of Bussiness Administration
431	International Human Resource Management	19MBE114	Master of Bussiness Administration
432	Consumer Behaviour	19MBE115	Master of Bussiness Administration

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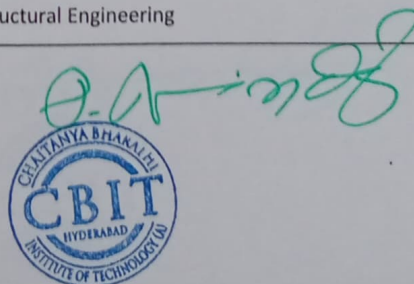| S.No	Name of the Course	Course Code	Name of the Programme
433	Services and Retail Marketing	19MBE116	Master of Bussiness Administration
434	Machine Learning and Artificial Intelligence	19MBE117	Master of Bussiness Administration
435	Cloud Computing	19MBE118	Master of Bussiness Administration
436	E-Commerce Logistics	19MBE119	Master of Bussiness Administration
437	International Logistics	19MBE120	Master of Bussiness Administration
438	Mathematics -III	18MT C 05	B.Tech - Chemical Engineering
439	Technology of Surface Coatings and Oils	18CH C 01	B.Tech - Chemical Engineering
440	Chemical Engineering Thermodynamics - I	18CH C 02	B.Tech - Chemical Engineering
441	Numerical Methods in Chemical Engineering	18CH C 03	B.Tech - Chemical Engineering
442	Material and Energy Balance Computations	18CH C 04	B.Tech - Chemical Engineering
443	Indian constitution	18EG M 01	B.Tech - Chemical Engineering
444	Indian Traditional Knowledge	18EE M 01	B.Tech - Chemical Engineering
445	Numerical methods in Chemical Engineering Lab	18CH C 05	B.Tech - Chemical Engineering
446	Technology of Surface Coatings and Oils Lab	18CH C 06	B.Tech - Chemical Engineering
447	Basics of Data Structures	18CS C 05	B.Tech - Chemical Engineering
448	Chemical Engineering Thermodynamics - II	18CH C 07	B.Tech - Chemical Engineering
449	Fluid Mechanics	18CH C 08	B.Tech - Chemical Engineering
450	Material Science	18CH C 09	B.Tech - Chemical Engineering
451	Principles of Management	18ME C 09	B.Tech - Chemical Engineering
452	Environment science	18CE M 01	B.Tech - Chemical Engineering
453	Soft skills lab	18EG C 03	B.Tech - Chemical Engineering
454	Basics of Data structures Lab	18CS C 06	B.Tech - Chemical Engineering
455	Mass Transfer Operations –II	16CH C 24	B.Tech - Chemical Engineering
456	Petrochemical Engineering	16CH C 25	B.Tech - Chemical Engineering
457	Process Equipment Design	16CH C 26	B.Tech - Chemical Engineering
458	Transport Phenomena	16CH C 27	B.Tech - Chemical Engineering
459	Polymer Technology	16CH E 11	B.Tech - Chemical Engineering

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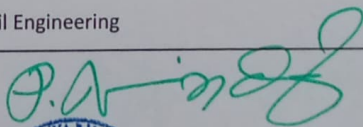
List of New Courses introduced for the AY:2019-20

S.No	Name of the Course	Course Code	Name of the Programme
460	Pulp and Paper Technology	16CH E 12	B.Tech - Chemical Engineering
461	Pollution Control in Process Industries	16CH E 13	B.Tech - Chemical Engineering
462	Disaster Mitigation and Management	16CE O 02	B.Tech - Chemical Engineering
463	Entrepreneurship	16ME O 01	B.Tech - Chemical Engineering
464	Intellectual Property Rights	16ME O 04	B.Tech - Chemical Engineering
465	Technical Writing Skills	16EG O 01	B.Tech - Chemical Engineering
466	Equipment Design and Drawing Lab	16CH C 28	B.Tech - Chemical Engineering
467	Mass Transfer Operations Lab	16CH C 29	B.Tech - Chemical Engineering
468	Seminar	16CH C 30	B.Tech - Chemical Engineering
469	Plant Design Economics	16CH C 31	B.Tech - Chemical Engineering
470	Membrane Separation Technology	16CH E 14	B.Tech - Chemical Engineering
471	Sugar Technology	16CH E 15	B.Tech - Chemical Engineering
472	Food Technology	16CH E 16	B.Tech - Chemical Engineering
473	Nano Materials and Technology	16ME O 05	B.Tech - Chemical Engineering
474	IoT and application	16CS O 03	B.Tech - Chemical Engineering
475	History of Science and Technology	16PY O 01	B.Tech - Chemical Engineering
476	Gender Sensitization	16EG O 02	B.Tech - Chemical Engineering
477	Project Seminar	16CH C 32	B.Tech - Chemical Engineering
478	Project	16CH C 33	B.Tech - Chemical Engineering
479	Structural Dynamics	19CEC106	ME - Structural Engineering
480	Advanced Steel Design	19CEE106	ME - Structural Engineering
481	Repair & Retrofitting of Structures	19CEE107	ME - Structural Engineering
482	Design of Advanced Concrete Structures	19CEE110	ME - Structural Engineering
483	Advanced Foundation Engineering	19CEE111	ME - Structural Engineering
484	Disaster Mitigation & Management	19CEA101	ME - Structural Engineering
485	Model Testing Lab	19CEC107	ME - Structural Engineering
486	Numerical Analysis Lab	19CEC108	ME - Structural Engineering

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S.No	Name of the Course	Course Code	Name of the Programme
487	Mini Project with Seminars	19CEC109	ME - Structural Engineering
488	Adv. Strcuctural Analysis	19CE C101	ME - Structural Engineering
489	Adv. Solid Mechanics	19CE C102	ME - Structural Engineering
490	Theory & Applications of CementComposites	19CE E102	ME - Structural Engineering
491	Structural Health Monitoring	19CE E104	ME - Structural Engineering
492	Research Methodology & IPR	19ME C103	ME - Structural Engineering
493	English for Research paper writing	19EGA101	ME - Structural Engineering
494	Structural Design Lab	19CE C103	ME - Structural Engineering
495	Adv. Concrete Lab	19CE C104	ME - Structural Engineering
496	Building Construction Practice	18CE 02	B.E. Civil Engineering
497	Solid Mechanics	18CE 03	B.E. Civil Engineering
498	Surveying and Geomatics	18CE 04	B.E. Civil Engineering
499	Fluid Mechanics	18CE 05	B.E. Civil Engineering
500	Indian Constitution	18EG M01	B.E. Civil Engineering
501	Indian Traditional Knowledge	18EE A01	B.E. Civil Engineering
502	Surveying and Geomatics Lab	18CE 06	B.E. Civil Engineering
503	Fluid Mechanics Lab	18CE 07	B.E. Civil Engineering
504	Basic Data Structures	18CS C05	B.E. Civil Engineering
505	Hydraulic Engineering	18CE C08	B.E. Civil Engineering
506	Reinforced Concrete Design-I	18CE C09	B.E. Civil Engineering
507	Structural Analysis-I	18CE C10	B.E. Civil Engineering
508	Principles of Management	18MEC09	B.E. Civil Engineering
509	Environmental Science	18CE M01	B.E. Civil Engineering
510	Basics of Data Structures Lab	18CS C06	B.E. Civil Engineering
511	Solid Mechanics Lab	18CE C11	B.E. Civil Engineering
512	Hydraulic Engineering Lab	18CE C12	B.E. Civil Engineering
513	Soft Skills Lab	18EG C03	B.E. Civil Engineering

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S.No	Name of the Course	Course Code	Name of the Programme
514	Water Resources Engineering-II	16CE C34	B.E. Civil Engineering
515	Design of Steel structures-I	16CE C35	B.E. Civil Engineering
516	Estimation and Specifications	16CE C36	B.E. Civil Engineering
517	Computer Applications Lab	16CE C37	B.E. Civil Engineering
518	Project Seminar	16CE C38	B.E. Civil Engineering
519	Advanced Reinforced Concrete Design	16CE E07	B.E. Civil Engineering
520	Advanced Environmental Engineering	16CE E08	B.E. Civil Engineering
521	Ground Improvement Techniques	16CE E09	B.E. Civil Engineering
522	Elements of Earthquake Engineering	16CE E10	B.E. Civil Engineering
523	Advanced Transportation Engineering	16CE E11	B.E. Civil Engineering
524	Design and Detailing of Irrigation Structures	16CE E12	B.E. Civil Engineering
525	Fundamentals of DBMS	16CS O06	B.E. Civil Engineering
526	Entrepreneurship	16ME O01	B.E. Civil Engineering
527	Technical Writing Skills	16EG O01	B.E. Civil Engineering
528	Energy Management Systems	16EE O02	B.E. Civil Engineering
529	Seminar	16CE C39	B.E. Civil Engineering
530	Project	16CE C40	B.E. Civil Engineering
531	Design of Steel structures-II	16CE E13	B.E. Civil Engineering
532	Advanced steel Design	16CE E14	B.E. Civil Engineering
533	Industrial Structures	16CE E15	B.E. Civil Engineering
534	Intellectual Property Rights	16ME O04	B.E. Civil Engineering
535	Gender Sensitization	16EG O02	B.E. Civil Engineering
536	Basics of Artificial Intelligence	16CS O09	B.E. Civil Engineering
537	Waste Management	16EE O05	B.E. Civil Engineering
538	Health Monitoring and Retrofitting of Structures	16CE E16	B.E. Civil Engineering
539	Ground Water Hydrology	16CE E17	B.E. Civil Engineering
540	Pre-stressed Concrete	16CE E18	B.E. Civil Engineering