

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
1	Calculus	20MTC05	B.E. Mechanical Engineering
2	Chemistry	20CYC01	B.E. Mechanical Engineering
3	Engineering Mechanics-I	20CEC01	B.E. Mechanical Engineering
4	Programming for Problem Solving	20CSC01	B.E. Mechanical Engineering
5	Chemistry Lab	20CYC02	B.E. Mechanical Engineering
6	Programming for Problem Solving Lab	20CSC02	B.E. Mechanical Engineering
7	Workshop / Manufacturing Practice	20MEC02	B.E. Mechanical Engineering
8	Engineering Exploration	20MEC03	B.E. Mechanical Engineering
9	Vector Calculus and Differential Equations	20MTC06	B.E. Mechanical Engineering
10	English	20EGC01	B.E. Mechanical Engineering
11	Mechanics and Materials Science	20PYC05	B.E. Mechanical Engineering
12	Basic Electrical Engineering	20EEC01	B.E. Mechanical Engineering
13	English lab	20EGC02	B.E. Mechanical Engineering
14	Mechanics and Materials Science Lab	20PYC08	B.E. Mechanical Engineering
15	Basic Electrical Engineering Lab	20EEC02	B.E. Mechanical Engineering
16	CAD and Drafting	20MEC01	B.E. Mechanical Engineering
17	Community Engagement	20MBC02	B.E. Mechanical Engineering
18	Dynamics of Machines	18ME C12	B.E. Mechanical Engineering
19	Applied Thermodynamics and Heat Transfer	18ME C13	B.E. Mechanical Engineering
20	Design of Machine Elements	18ME C14	B.E. Mechanical Engineering
21	Metal Cutting and Machine Tool Engineering	18PE C07	B.E. Mechanical Engineering
22	Refrigeration and Air Conditioning	18ME E01	B.E. Mechanical Engineering
23	Values, Ethics and Society	18ME E02	B.E. Mechanical Engineering
24	Plastics, Ceramics and Composite Materials	18PE E01	B.E. Mechanical Engineering
25	Product Design and Process Planning	18PE E02	B.E. Mechanical Engineering
26	Mechanical Vibrations	18ME E03	B.E. Mechanical Engineering
27	Automobile Engineering	18ME E04	B.E. Mechanical Engineering
28	Nano Science and Technology	18ME E05	B.E. Mechanical Engineering
29	Rights, Duties and Legislation	18ME E06	B.E. Mechanical Engineering



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
30	Non Destructive Testing and Evaluation	18PE E04	B.E. Mechanical Engineering
31	Fuels, Combustion and Environment	18ME E07	B.E. Mechanical Engineering
32	Dynamics and Vibrations Lab	18ME C15	B.E. Mechanical Engineering
33	Applied Thermodynamics and Heat Transfer Lab	18ME C16	B.E. Mechanical Engineering
34	Metal Cutting and Machine Tool Engineering Lab	18PE C08	B.E. Mechanical Engineering
35	CAD/CAM	18ME C17	B.E. Mechanical Engineering
36	Machine Design	18ME C18	B.E. Mechanical Engineering
37	Thermal Turbo Machines	18ME C19	B.E. Mechanical Engineering
38	Object Oriented Programming with C++	18ME E08	B.E. Mechanical Engineering
39	Mechanics of Composite Materials	18ME E09	B.E. Mechanical Engineering
40	Robotic Engineering	18ME E10	B.E. Mechanical Engineering
41	Production and Operations Management	18PE E06	B.E. Mechanical Engineering
42	Advanced IC Engines	18ME E11	B.E. Mechanical Engineering
43	Computational Fluid Dynamics	18ME E12	B.E. Mechanical Engineering
44	Principles of Entrepreneurship	18ME E13	B.E. Mechanical Engineering
45	Modern Machining and Forming Methods	18PE E08	B.E. Mechanical Engineering
46	Heat and Mass Transfer	18ME E14	B.E. Mechanical Engineering
47	Blockchain Technology	18ME E15	B.E. Mechanical Engineering
48	Renewable Energy Sources	18ME E17	B.E. Mechanical Engineering
49	Control Systems Theory	18ME E18	B.E. Mechanical Engineering
50	Artificial Intelligence	18ME E19	B.E. Mechanical Engineering
51	Industrial Administration and Financial Management	18ME E20	B.E. Mechanical Engineering
52	Principles and Applications of Additive Manufacturing	18PE E11	B.E. Mechanical Engineering
53	CAD/CAM LAB	18ME C20	B.E. Mechanical Engineering
54	Thermal Engineering Lab	18ME C21	B.E. Mechanical Engineering
55	Dynamics of Machines	18ME C12	B.E. Production Engineering
56	Applied Thermodynamics and Heat Transfer	18ME C13	B.E. Production Engineering
57	Design of Machine Elements	18ME C14	B.E. Production Engineering
58	Metal Forming Technology	18PE C05	B.E. Production Engineering

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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
59	Refrigeration and Air Conditioning	18ME E01	B.E. Production Engineering
60	Values, Ethics and Society	18ME E02	B.E. Production Engineering
61	Plastics, Ceramics and Composite Materials	18PE E01	B.E. Production Engineering
62	Product Design and Process Planning	18PE E02	B.E. Production Engineering
63	Powder Processing	18PE E03	B.E. Production Engineering
64	Automobile Engineering	18ME E04	B.E. Production Engineering
65	Nano Science and Technology	18ME E05	B.E. Production Engineering
66	Rights, Duties and Legislation	18ME E06	B.E. Production Engineering
67	Non Destructive Testing and Evaluation	18PE E04	B.E. Production Engineering
68	Surface Engineering	18PE E05	B.E. Production Engineering
69	Dynamics and Vibrations Lab	18ME C15	B.E. Production Engineering
70	Applied Thermodynamics and Heat Transfer Lab	18ME C16	B.E. Production Engineering
71	Metal Forming Technology Lab	18PE C06	B.E. Production Engineering
72	CAD/CAM	18ME C17	B.E. Production Engineering
73	Machine Design	18ME C18	B.E. Production Engineering
74	Machine Tool Engineering	18PE C09	B.E. Production Engineering
75	Object Oriented Programming with C++	18ME E08	B.E. Production Engineering
76	Mechanics of Composite Materials	18ME E09	B.E. Production Engineering
77	Robotic Engineering	18ME E10	B.E. Production Engineering
78	Production and Operations Management	18PE E06	B.E. Production Engineering
79	Principles of Industrial Engineering	18PE E07	B.E. Production Engineering
80	Computational Fluid Dynamics	18ME E12	B.E. Production Engineering
81	Principles of Entrepreneurship	18ME E13	B.E. Production Engineering
82	Modern Machining and Forming Methods	18PE E08	B.E. Production Engineering
83	Finite Element Methods	18ME E16	B.E. Production Engineering
84	Blockchain Technology	18ME E15	B.E. Production Engineering
85	Renewable Energy Sources	18ME E17	B.E. Production Engineering
86	Control Systems Theory	18ME E18	B.E. Production Engineering
87	Artificial Intelligence	18ME E19	B.E. Production Engineering

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
88	Industrial Administration and Financial Management	18ME E20	B.E. Production Engineering
89	Total Quality Management	18PE E10	B.E. Production Engineering
90	CAD/CAM LAB	18ME C20	B.E. Production Engineering
91	Machine Tool Engineering Lab	18PE C10	B.E. Production Engineering
92	Computer Aided Modeling and Design	20MEC 101	M.E. CAD-CAM
93	Computer Integrated Manufacturing	20MEC 102	M.E. CAD-CAM
94	Research Methodology and IPR	20MEC 103	M.E. CAD-CAM
95	Advanced Machine Design	20MEE 101	M.E. CAD-CAM
96	Advanced Vibrations and Acoustics	20MEE 102	M.E. CAD-CAM
97	Optimization Techniques	20MEE 103	M.E. CAD-CAM
98	Automation	20MEE 104	M.E. CAD-CAM
99	Design for Manufacturing and Assembly	20MEE 105	M.E. CAD-CAM
100	Industrial Robotics	20MEE 106	M.E. CAD-CAM
101	Integrated Design and Manufacturing Lab	20MEC 104	M.E. CAD-CAM
102	Vibrations and Acoustics Lab	20MEC 105	M.E. CAD-CAM
103	Value Education	20ECA 101	M.E. CAD-CAM
104	Pedagogy Studies	20ITA 101	M.E. CAD-CAM
105	Disaster Mitigation and Management	20CEA 101	M.E. CAD-CAM
106	Sanskrit for Technical Knowledge	20EEA 101	M.E. CAD-CAM
107	Finite Element Techniques	20MEC 106	M.E. CAD-CAM
108	Mechanical Design and Analysis	20MEC 107	M.E. CAD-CAM
109	Computational Fluid Dynamics	20MEE 206	M.E. CAD-CAM
110	Mechanics of Composite Materials	20MEE 107	M.E. CAD-CAM
111	Fracture Mechanics	20MEE 108	M.E. CAD-CAM
112	Multibody Dynamics	20MEE 109	M.E. CAD-CAM
113	Tribology in Design	20MEE 110	M.E. CAD-CAM
114	Failure Analysis and Design	20MEE 111	M.E. CAD-CAM
115	Computer Aided Engineering Lab	20MEC 108	M.E. CAD-CAM
116	Computational Fluid Dynamics Lab	20MEC 206	M.E. CAD-CAM



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

## List of New Courses introduced for the AY:2020-21

S.No	Name of the Course	Course Code	Name of the Programme
117	Mini Project with Seminar	20MEC 109	M.E. CAD-CAM
118	English for Research Paper Writing	20EGA 101	M.E. CAD-CAM
119	Indian Constitution and Fundamental Rights	20EGA 102	M.E. CAD-CAM
120	Stress Management by Yoga	20EGA 103	M.E. CAD-CAM
121	Personality Development through Life's Enlightenment Skills	20EGA 104	M.E. CAD-CAM
122	Advanced Finite Element Method	19MEE 112	M.E. CAD-CAM
123	Product Design and Process Planning	19MEE 113	M.E. CAD-CAM
124	Theory of Elasticity and Plasticity	19MEE 114	M.E. CAD-CAM
125	Industrial Safety	19MEO 101	M.E. CAD-CAM
126	Introduction to Optimization Techniques	19MEO 102	M.E. CAD-CAM
127	Composite Materials	19MEO 103	M.E. CAD-CAM
128	Cost Management of Engineering Projects	19CEO 101	M.E. CAD-CAM
129	Waste to Energy	19EEO 101	M.E. CAD-CAM
130	Dissertation Phase - I	19MEC 110	M.E. CAD-CAM
131	DISSERTATION PHASE - II	19MEC 111	M.E. CAD-CAM
132	Thermodynamics and Combustion	20ME C201	M.E. Thermal Engineering
133	Advanced Fluid Dynamics	20ME C202	M.E. Thermal Engineering
134	Research Methodology and IPR	20ME M103	M.E. Thermal Engineering
135	Thermal and Nuclear Power Plants	20ME E201	M.E. Thermal Engineering
136	Environmental Engineering and Pollution Control	20ME E202	M.E. Thermal Engineering
137	Optimization Techniques	20ME E103	M.E. Thermal Engineering
138	Air Conditioning System Design	20ME E203	M.E. Thermal Engineering
139	Design of Solar and Wind Systems	20ME E205	M.E. Thermal Engineering
140	Disaster Mitigation and Management	20CE A101	M.E. Thermal Engineering
141	English for Research Paper Writing	20EG A101	M.E. Thermal Engineering
142	Indian Constitution and Fundamental Rights	20EG A102	M.E. Thermal Engineering
143	Energy Conservation and Management	20ME E204	M.E. Thermal Engineering
144	Personality Development through Life's Enlightenment Skills	20EG A104	M.E. Thermal Engineering
145	Thermal Systems Lab	20ME C203	M.E. Thermal Engineering

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S.No	Name of the Course	Course Code	Name of the Programme
146	Design of Solar and Wind Systems Lab	20ME C204	M.E. Thermal Engineering
147	Finite Element Techniques	20ME C106	M.E. Thermal Engineering
148	Advanced Heat and Mass Transfer	20ME C205	M.E. Thermal Engineering
149	Computational Fluid Dynamics	20ME E206	M.E. Thermal Engineering
150	Refrigeration and Cryogenics	20ME E207	M.E. Thermal Engineering
151	Design of Heat Exchangers	20ME E208	M.E. Thermal Engineering
152	Turbo Machines	20ME E209	M.E. Thermal Engineering
153	Gas Turbines	20ME E210	M.E. Thermal Engineering
154	Power Plant Control and Instrumentation	20ME E211	M.E. Thermal Engineering
155	Sanskrit for Technical Knowledge	20EE A101	M.E. Thermal Engineering
156	Value Education	20EC A101	M.E. Thermal Engineering
157	Pedagogy Studies	20IT A101	M.E. Thermal Engineering
158	Stress Management by Yoga	20EG A103	M.E. Thermal Engineering
159	Computer Aided Engineering Lab	20ME C108	M.E. Thermal Engineering
160	Computational Fluid Dynamics Lab	20ME C206	M.E. Thermal Engineering
161	Mini Project with Seminar	20ME C207	M.E. Thermal Engineering
162	Advances in IC Engines	19MEE 212	M.E. Thermal Engineering
163	Convective Heat Transfer	19MEE 213	M.E. Thermal Engineering
164	Heat Pipe	19MEE 214	M.E. Thermal Engineering
165	Cost Management of Engineering Projects	19CEO 101	M.E. Thermal Engineering
166	Waste to Energy	19EEO 101	M.E. Thermal Engineering
167	Industrial Safety	19MEO 101	M.E. Thermal Engineering
168	Introduction to Optimization Techniques	19MEO 102	M.E. Thermal Engineering
169	Composite Materials	19MEO 103	M.E. Thermal Engineering
170	Dissertation Phase - I	19MEC 208	M.E. Thermal Engineering
171	Dissertation Phase - II	19MEC 209	M.E. Thermal Engineering
172	Mathematics-I	20MT C21	B.Tech.- Biotechnology
173	Basics of Biology-1	20BT C01	B.Tech.- Biotechnology
174	English	20 EG C01	B.Tech.- Biotechnology



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S.No	Name of the Course	Course Code	Name of the Programme
175	Physics	20PY C02	B.Tech.- Biotechnology
176	Programming for Problem Solving	20CS C01	B.Tech.- Biotechnology
177	Physics lab	20PY C04	B.Tech.- Biotechnology
178	English lab	20EG C02	B.Tech.- Biotechnology
179	Programming for Problem Solving lab	20CS C02	B.Tech.- Biotechnology
180	Mathematics –II	20MT C22	B.Tech.- Biotechnology
181	Basics Of Biology-II	20BT C02	B.Tech.- Biotechnology
182	Process Principles and Reaction Engineering	20BT C03	B.Tech.- Biotechnology
183	Basic Electrical Engineering lab	20EE C02	B.Tech.- Biotechnology
184	Workshop/Manufacturing Practices	20ME C02	B.Tech.- Biotechnology
185	Engineering Exploration	20ME C03	B.Tech.- Biotechnology
186	Community Engagement	20MBC02	B.Tech.- Biotechnology
187	Fluid Mechanics and Heat Transfer	18BT C15	B.Tech.- Biotechnology
188	Enzyme Technology	18BT C16	B.Tech.- Biotechnology
189	Genetic Engineering and rDNA Technology	18BT C17	B.Tech.- Biotechnology
190	Virology	18BT E01	B.Tech.- Biotechnology
191	Phytochemicals and Herbal Products	18BT E02	B.Tech.- Biotechnology
192	Introduction to Anatomy and Physiology of Humans	18BT E03	B.Tech.- Biotechnology
193	Environmental Biotechnology	18BT E04	B.Tech.- Biotechnology
194	Developmental Biology	18BT E05	B.Tech.- Biotechnology
195	Metabolic Engineering	18BT E06	B.Tech.- Biotechnology
196	Engineering Economics and Accountancy	18MB C01	B.Tech.- Biotechnology
197	Fluid Mechanics and Heat Transfer Lab	18BT C18	B.Tech.- Biotechnology
198	Enzyme Technology Lab	18BT C19	B.Tech.- Biotechnology
199	Genetic Engineering Lab	18BT C20	B.Tech.- Biotechnology
200	Fermentation Technology	18BT C21	B.Tech.- Biotechnology
201	Bioinformatics	18BT C22	B.Tech.- Biotechnology
202	Mass Transfer Operations	18BT C23	B.Tech.- Biotechnology
203	Medical Biotechnology	18BT E07	B.Tech.- Biotechnology



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## List of New Courses introduced for the AY:2020-21

S.No	Name of the Course	Course Code	Name of the Programme
204	Food Biotechnology	18BT E08	B.Tech.- Biotechnology
205	Bioprocess Dynamics and Control	18BT E09	B.Tech.- Biotechnology
206	Artificial Intelligence in Biology	18BT E10	B.Tech.- Biotechnology
207	Pharmaceutical Biotechnology	18BT E11	B.Tech.- Biotechnology
208	Intellectual Property Rights Regulatory Affairs and Clinical Trials	18BT E12	B.Tech.- Biotechnology
209	Nanobiotechnology	18BT E13	B.Tech.- Biotechnology
210	Biomedical Instrumentation	18EC O02	B.Tech.- Biotechnology
211	Research Methodologies	18ME O03	B.Tech.- Biotechnology
212	Fermentation Lab	18BT C24	B.Tech.- Biotechnology
213	Bioinformatics Lab	18BT C25	B.Tech.- Biotechnology
214	Computer Programming using 'C'	20MCC101	Master of Computer Applications
215	Computer Organization and Architecture	20MCC102	Master of Computer Applications
216	Software Engineering	20MCC103	Master of Computer Applications
217	Mathematical Foundations for Computer Applications	20MCC104	Master of Computer Applications
218	Probability & Statistics	20MTC27	Master of Computer Applications
219	Computer Programming Lab using 'C'	20MCC105	Master of Computer Applications
220	Python Programming Lab	20MCC106	Master of Computer Applications
221	Professional Communication in English Lab	20EG101	Master of Computer Applications
222	Data Structures and Algorithms	20MCC107	Master of Computer Applications
223	Artificial Intelligence	20MCC108	Master of Computer Applications
224	Object Oriented Programming using Java	20MCC109	Master of Computer Applications
225	Entrepreneurship	20MCE102	Master of Computer Applications
226	Business Intelligence & Analytics	20MCE103	Master of Computer Applications
227	Data Structures Lab using C++	20MCC111	Master of Computer Applications
228	Object Oriented Programming Lab using Java	20MCC112	Master of Computer Applications
229	Linear Algebra & Calculus	20MT C01	B.E.-Computer Science and Engineering
230	English	20EG C01	B.E.-Computer Science and Engineering
231	Optics and Semiconductor Physics	20PY C01	B.E.-Computer Science and Engineering
232	Programming for Problem Solving	20CS C01	B.E.-Computer Science and Engineering

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S.No	Name of the Course	Course Code	Name of the Programme
233	Linear Algebra & Calculus Lab	20MT C02	B.E.-Computer Science and Engineering
234	English lab	20EG C02	B.E.-Computer Science and Engineering
235	Optics and Semiconductor Physics Lab	20PY C03	B.E.-Computer Science and Engineering
236	Programming for problem Solving Lab	20CS C02	B.E.-Computer Science and Engineering
237	CAD AND DRAFTING	20ME C01	B.E.-Computer Science and Engineering
238	Community Engagement	20MB C02	B.E.-Computer Science and Engineering
239	Differential Equations & Transform Theory	20MT C03	B.E.-Computer Science and Engineering
240	Chemistry	20CYC01	B.E.-Computer Science and Engineering
241	Industry 4.0	20CS C05	B.E.-Computer Science and Engineering
242	Object Oriented Programming	20CS C03	B.E.-Computer Science and Engineering
243	Differential Equations & Transform Theory Lab	20MT C04	B.E.-Computer Science and Engineering
244	Chemistry Lab	20CYC02	B.E.-Computer Science and Engineering
245	Object Oriented Programming Lab	20CSC04	B.E.-Computer Science and Engineering
246	Workshop / Manufacturing Practice	20ME C02	B.E.-Computer Science and Engineering
247	Engineering Exploration	20ME C03	B.E.-Computer Science and Engineering
248	Formal Language and Automata Theory	18CSC17	B.E.-Computer Science and Engineering
249	Operating System	18CSC18	B.E.-Computer Science and Engineering
250	Design and Analysis of Algorithms	18CSC19	B.E.-Computer Science and Engineering
251	Web and Internet Technologies	18CSE01	B.E.-Computer Science and Engineering
252	Mobile Application Development	18CSE04	B.E.-Computer Science and Engineering
253	Graph Theory	18MTO 02	B.E.-Computer Science and Engineering
254	Number Theory and Cryptography	18MTO 03	B.E.-Computer Science and Engineering
255	Decision Theory	18MTO 05	B.E.-Computer Science and Engineering
256	Operating System Lab	18CSC20	B.E.-Computer Science and Engineering
257	Design and Analysis of Algorithms Lab	18CSC21	B.E.-Computer Science and Engineering
258	Mini Project-II	18CSC22	B.E.-Computer Science and Engineering
259	Web and Internet Technologies Lab	18CSE05	B.E.-Computer Science and Engineering
260	Mobile Application Development Lab	18CSE08	B.E.-Computer Science and Engineering
261	Data communication and computer networks	18CSC23	B.E.-Computer Science and Engineering



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S.No	Name of the Course	Course Code	Name of the Programme
262	Software Engineering	18CSC24	B.E.-Computer Science and Engineering
263	Artificial Intelligence	18CSC25	B.E.-Computer Science and Engineering
264	Engineering economics and accountancy	18MBC01	B.E.-Computer Science and Engineering
265	Indian Traditional Knowledge	18EEM01	B.E.-Computer Science and Engineering
266	Internet of Things	18CSE09	B.E.-Computer Science and Engineering
267	Cloud Computing	18CSE11	B.E.-Computer Science and Engineering
268	Soft Computing	18CSE13	B.E.-Computer Science and Engineering
269	Network and System Administration	18CSE14	B.E.-Computer Science and Engineering
270	Free and Open Source Software	18CSE16	B.E.-Computer Science and Engineering
271	DCCN Lab	18CSC26	B.E.-Computer Science and Engineering
272	Case Study(AI/SE and PE-II Lab)	18CSC27	B.E.-Computer Science and Engineering
273	Programming for Problem Solving	20CS C01	B.E.-CSE(Artificial Intelligence & Machine Learning)
274	Programming for problem Solving Lab	20CS C02	B.E.-CSE(Artificial Intelligence & Machine Learning)
275	Industry 4.0	20CS C05	B.E.-CSE(Artificial Intelligence & Machine Learning)
276	Object Oriented Programming	20CS C03	B.E.-CSE(Artificial Intelligence & Machine Learning)
277	Object Oriented Programming Lab	20CSC04	B.E.-CSE(Artificial Intelligence & Machine Learning)
278	Basics of Electrical Engineering	20EEC01	B.E.-CSE(Artificial Intelligence & Machine Learning)
279	Basic Electronics	20ECC35	B.E.-CSE(Artificial Intelligence & Machine Learning)
280	Data Structures	20CSC08	B.E.-CSE(Artificial Intelligence & Machine Learning)
281	Discrete Mathematics	20CSC09	B.E.-CSE(Artificial Intelligence & Machine Learning)
282	Digital Logic Design	20CSC10	B.E.-CSE(Artificial Intelligence & Machine Learning)
283	Fundamentals of Data Science	20CAC01	B.E.-CSE(Artificial Intelligence & Machine Learning)
284	Basics of Electrical Engineering Lab	20EEC02	B.E.-CSE(Artificial Intelligence & Machine Learning)
285	Basic Electronics Lab	20ECC36	B.E.-CSE(Artificial Intelligence & Machine Learning)
286	Data Structures Lab	20CSC11	B.E.-CSE(Artificial Intelligence & Machine Learning)
287	Fundamentals of Data Science Lab	20CAC02	B.E.-CSE(Artificial Intelligence & Machine Learning)
288	Mathematical Foundation for Data Science & Security	20MTC13	B.E.-CSE(Artificial Intelligence & Machine Learning)
289	Computer Architecture and Microprocessor	20CSC13	B.E.-CSE(Artificial Intelligence & Machine Learning)
290	Data Base Management Systems	20CSC14	B.E.-CSE(Artificial Intelligence & Machine Learning)



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S.No	Name of the Course	Course Code	Name of the Programme
291	Internet & Web Technologies	20CSC15	B.E.-CSE(Artificial Intelligence & Machine Learning)
292	Artificial Intelligence	20CAC03	B.E.-CSE(Artificial Intelligence & Machine Learning)
293	Engineering Economics & Accountancy	20MBC01	B.E.-CSE(Artificial Intelligence & Machine Learning)
294	Mathematical Foundation for Data Science & Security Lab	20MTC14	B.E.-CSE(Artificial Intelligence & Machine Learning)
295	Data Base Management Systems Lab	20CSC17	B.E.-CSE(Artificial Intelligence & Machine Learning)
296	Internet & Web Technologies Lab	20CSC18	B.E.-CSE(Artificial Intelligence & Machine Learning)
297	Linear Algebra & Calculus	20MT C01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
298	English	20EG C01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
299	Optics and Semiconductor Physics	20PY C01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
300	Programming for Problem Solving	20CS C01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
301	Linear Algebra & Calculus Lab	20MT C02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
302	English lab	20EG C02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
303	Optics and Semiconductor Physics Lab	20PY C03	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
304	Programming for problem Solving Lab	20CS C02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
305	CAD AND DRAFTING	20ME C01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
306	Community Engagement	20MB C02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
307	Differential Equations & Transform Theory	20MT C03	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
308	Chemistry	20CYC01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
309	Industry 4.0	20CS C05	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
310	Object Oriented Programming	20CS C03	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
311	Differential Equations & Transform Theory Lab	20MT C04	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
312	Chemistry Lab	20CYC02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
313	Object Oriented Programming Lab	20CSC04	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
314	Workshop / Manufacturing Practice	20ME C02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
315	Engineering Exploration	20ME C03	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
316	Mathematical Foundation of Computer Science	20CSC 101	M.Tech-Computer Science and Engineering
317	Advanced Data Structures	20CSC 102	M.Tech-Computer Science and Engineering
318	Research Methodology and IPR	20MEC 103	M.Tech-Computer Science and Engineering
319	Machine Learning	20CSE101	M.Tech-Computer Science and Engineering



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S.No	Name of the Course	Course Code	Name of the Programme
320	Data Science & Big Data Analytics	20CSE113	M.Tech-Computer Science and Engineering
321	ENGLISH FOR RESEARCH PAPER WRITING	20EGA101	M.Tech-Computer Science and Engineering
322	Laboratory 1 (Advanced Data Structures)	20CSC 103	M.Tech-Computer Science and Engineering
323	Machine Learning Lab	20CSE107	M.Tech-Computer Science and Engineering
324	Advanced Algorithms	20CSC 104	M.Tech-Computer Science and Engineering
325	Soft Computing	20CSC105	M.Tech-Computer Science and Engineering
326	Disaster mitigation and management	20CEA101	M.Tech-Computer Science and Engineering
327	Value Education	20ECA101	M.Tech-Computer Science and Engineering
328	Data Preparation and Analysis	20CSE104	M.Tech-Computer Science and Engineering
329	Human and Computer Interaction	20CSE116	M.Tech-Computer Science and Engineering
330	Laboratory 3(AA& Soft Computing)	20CSC 106	M.Tech-Computer Science and Engineering
331	Data Preparation and Analysis Lab	20CSE110	M.Tech-Computer Science and Engineering
332	Mini Projects with seminar	20CSC 107	M.Tech-Computer Science and Engineering
333	Linear Algebra & Calculus	20MT C01	B.E. - Information Technology
334	English	20EG C01	B.E. - Information Technology
335	Optics and Semiconductor Physics	20PY C01	B.E. - Information Technology
336	Programming for Problem Solving	20CS C01	B.E. - Information Technology
337	Linear Algebra & Calculus Lab	20MT C02	B.E. - Information Technology
338	English lab	20EG C02	B.E. - Information Technology
339	Optics and Semiconductor Physics Lab	20PY C03	B.E. - Information Technology
340	Programming for problem Solving Lab	20CS C02	B.E. - Information Technology
341	CAD and Drafting	20ME C01	B.E. - Information Technology
342	Community Engagement	20MB C02	B.E. - Information Technology
343	Differential Equations & Transform Theory	20MT C01	B.E. - Information Technology
344	Chemistry	20EG C01	B.E. - Information Technology
345	Data Structures and Algorithms	20PY C01	B.E. - Information Technology
346	Object Oriented Programming using Python	20CS C01	B.E. - Information Technology
347	Differential Equations & Transform Theory Lab	20MT C02	B.E. - Information Technology
348	Chemistry Lab	20EG C02	B.E. - Information Technology



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
349	Data Structures and Algorithms Lab	20PY C03	B.E. - Information Technology
350	Object Oriented Programming using Python Lab	20CS C02	B.E. - Information Technology
351	Workshop / Manufacturing Practice	20ME C01	B.E. - Information Technology
352	Engineering Exploration	20MB C02	B.E. - Information Technology
353	Operating Systems	18IT C15	B.E. - Information Technology
354	Theory of Automata	18IT C16	B.E. - Information Technology
355	Computer Networks	18IT C17	B.E. - Information Technology
356	Software Engineering	18IT C18	B.E. - Information Technology
357	Data Warehousing and Data Mining	18IT E01	B.E. - Information Technology
358	UNIX and Shell Programming	18IT E04	B.E. - Information Technology
359	Predictive Analytics with '_R'	18IT E05	B.E. - Information Technology
360	Operating Systems and Computer Networks Lab	18IT C19	B.E. - Information Technology
361	Software Engineering Lab	18IT C20	B.E. - Information Technology
362	Mini Project - III	18IT C21	B.E. - Information Technology
363	Artificial Intelligence	18IT C22	B.E. - Information Technology
364	Information Security	18IT C23	B.E. - Information Technology
365	Social Media Analytics	18IT E09	B.E. - Information Technology
366	Mobile Commerce	18IT E12	B.E. - Information Technology
367	Data Science with Python	18IT E13	B.E. - Information Technology
368	Cyber Security	18IT E16	B.E. - Information Technology
369	Engineering Economics and Accountancy	18MB C01	B.E. - Information Technology
370	Gender Sensitization	18EG O02	B.E. - Information Technology
371	Indian Traditional Knowledge	18EE M01	B.E. - Information Technology
372	Artificial Intelligence Lab	18IT C24	B.E. - Information Technology
373	Information Security Lab	18IT C25	B.E. - Information Technology
374	Mini Project - IV	18IT C26	B.E. - Information Technology
375	Linear Algebra & Calculus	20MT C01	B.E. - Artificial Intelligence and Data Science
376	English	20EG C01	B.E. - Artificial Intelligence and Data Science
377	Optics and Semiconductor Physics	20PY C01	B.E. - Artificial Intelligence and Data Science



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
378	Programming for Problem Solving	20CS C01	B.E. - Artificial Intelligence and Data Science
379	Linear Algebra & Calculus Lab	20MT C02	B.E. - Artificial Intelligence and Data Science
380	English lab	20EG C02	B.E. - Artificial Intelligence and Data Science
381	Optics and Semiconductor Physics Lab	20PY C03	B.E. - Artificial Intelligence and Data Science
382	Programming for problem Solving Lab	20CS C02	B.E. - Artificial Intelligence and Data Science
383	CAD and Drafting	20ME C01	B.E. - Artificial Intelligence and Data Science
384	Community Engagement	20MB C02	B.E. - Artificial Intelligence and Data Science
385	Differential Equations & Transform Theory	20MT C03	B.E. - Artificial Intelligence and Data Science
386	Chemistry	20CY C01	B.E. - Artificial Intelligence and Data Science
387	Data Structures and Algorithms	20IT C01	B.E. - Artificial Intelligence and Data Science
388	Object Oriented Programming using Python	20IT C02	B.E. - Artificial Intelligence and Data Science
389	Differential Equations & Transform Theory Lab	20MT C04	B.E. - Artificial Intelligence and Data Science
390	Chemistry Lab	20CYC02	B.E. - Artificial Intelligence and Data Science
391	Data Structures and Algorithms Lab	20IT C03	B.E. - Artificial Intelligence and Data Science
392	Object Oriented Programming using Python Lab	20IT C04	B.E. - Artificial Intelligence and Data Science
393	Workshop / Manufacturing Practice	20ME C02	B.E. - Artificial Intelligence and Data Science
394	Engineering Exploration	20ME C03	B.E. - Artificial Intelligence and Data Science
395	Mathematical Foundations of Data Science	20MTC101	M.Tech - Artificial Intelligence and Data Science
396	Artificial Intelligence	20ITC101	M.Tech - Artificial Intelligence and Data Science
397	Social Network Analytics	20ITE105	M.Tech - Artificial Intelligence and Data Science
398	Digital Image Processing and Analysis	20ITE112	M.Tech - Artificial Intelligence and Data Science
399	Research Methodology and IPR	20MEM103	M.Tech - Artificial Intelligence and Data Science
400	English for Research Paper Writing	20EGA101	M.Tech - Artificial Intelligence and Data Science
401	Mathematical Foundations of Data Science Lab	20MTC102	M.Tech - Artificial Intelligence and Data Science
402	Artificial Intelligence Lab	20ITC104	M.Tech - Artificial Intelligence and Data Science
403	Digital Image Processing and Analysis Lab	20ITE122	M.Tech - Artificial Intelligence and Data Science
404	Introduction to data science	20ITC102	M.Tech - Artificial Intelligence and Data Science
405	Machine Learning	20ITC103	M.Tech - Artificial Intelligence and Data Science
406	Information Retrieval System	20ITE103	M.Tech - Artificial Intelligence and Data Science



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
407	Deep Learning	20ITE119	M.Tech - Artificial Intelligence and Data Science
408	Value Education	20ECA101	M.Tech - Artificial Intelligence and Data Science
409	Introduction to data science Lab	20ITC105	M.Tech - Artificial Intelligence and Data Science
410	Machine Learning Lab	20ITC106	M.Tech - Artificial Intelligence and Data Science
411	Deep Learning Lab	20ITE129	M.Tech - Artificial Intelligence and Data Science
412	Mini Project with Seminar	20ITC107	M.Tech - Artificial Intelligence and Data Science
413	Intrusion Detection (Program Elective-V)	19IT E107	M.Tech - Computer Networks and Information Security
414	Business Analytics (Open Elective)	19CSO101	M.Tech - Computer Networks and Information Security
415	Dissertation Phase-I	19IT C107	M.Tech - Computer Networks and Information Security
416	Project Work and Dissertation	19IT C108	M.Tech - Computer Networks and Information Security
417	Calculus	20MT C05	B.E. Electrical and Electronics Engineering
418	Chemistry	20CY C01	B.E. Electrical and Electronics Engineering
419	Engineering Mechanics-I	20CE C01	B.E. Electrical and Electronics Engineering
420	Programming for Problem Solving	20CS C01	B.E. Electrical and Electronics Engineering
421	Chemistry Lab	20CY C02	B.E. Electrical and Electronics Engineering
422	Programming for Problem Solving Lab	20CS C02	B.E. Electrical and Electronics Engineering
423	Workshop/ Manufacturing Practice	20ME C02	B.E. Electrical and Electronics Engineering
424	Engineering Exploration	20ME C03	B.E. Electrical and Electronics Engineering
425	Vector Calculus and Differential Equations	20MT C06	B.E. Electrical and Electronics Engineering
426	English	20EG C01	B.E. Electrical and Electronics Engineering
427	Electromagnetic Theory and Quantum Mechanics	20PY C06	B.E. Electrical and Electronics Engineering
428	Basic Electrical Engineering	20EE C01	B.E. Electrical and Electronics Engineering
429	English lab	20EG C02	B.E. Electrical and Electronics Engineering
430	Electromagnetic Theory and Quantum Mechanics Lab	20PY C09	B.E. Electrical and Electronics Engineering
431	Basic Electrical Engineering Lab	20EE C02	B.E. Electrical and Electronics Engineering
432	CAD and Drafting	20ME C01	B.E. Electrical and Electronics Engineering
433	Community Engagement	20MB C02	B.E. Electrical and Electronics Engineering
434	Electrical Machines-II	18EEC14	B.E. Electrical and Electronics Engineering
435	Power Systems-II	18EEC15	B.E. Electrical and Electronics Engineering



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
436	Power Electronics	18EEEC16	B.E. Electrical and Electronics Engineering
437	Engineering Economics and Accountancy	18MBC01	B.E. Electrical and Electronics Engineering
438	Wind and Solar Energy	18EEEE01	B.E. Electrical and Electronics Engineering
439	Optimization Techniques	18EEEE02	B.E. Electrical and Electronics Engineering
440	Electrical Engineering Materials	18EEEE03	B.E. Electrical and Electronics Engineering
441	Simulation Techniques in Electrical Engineering	18EEEE05	B.E. Electrical and Electronics Engineering
442	Industrial Electrical Systems	18EEEE07	B.E. Electrical and Electronics Engineering
443	Electrical Machines-II Lab	18EEEC17	B.E. Electrical and Electronics Engineering
444	Power Systems-I Lab	18EEEC18	B.E. Electrical and Electronics Engineering
445	Power Electronics Lab	18EEEC19	B.E. Electrical and Electronics Engineering
446	Control Systems	18EEEC20	B.E. Electrical and Electronics Engineering
447	Microprocessors and Microcontrollers	18EEEC21	B.E. Electrical and Electronics Engineering
448	Power Systems Operation and control	18EEEC22	B.E. Electrical and Electronics Engineering
449	Power Quality	18EEEE09	B.E. Electrical and Electronics Engineering
450	Electrical Distribution Systems	18EEEE11	B.E. Electrical and Electronics Engineering
451	HVDC Transmission Systems	18EEEE12	B.E. Electrical and Electronics Engineering
452	AI Techniques In Electrical Engineering	18EEEE13	B.E. Electrical and Electronics Engineering
453	Electric Hybrid Vehicles	18EEEE14	B.E. Electrical and Electronics Engineering
454	Special Electrical Machines	18EEEE16	B.E. Electrical and Electronics Engineering
455	Basics of Cyber Security	18CSO 07	B.E. Electrical and Electronics Engineering
456	History of Science and Technology	18 PYO 01	B.E. Electrical and Electronics Engineering
457	Control Systems Lab	18EEEC23	B.E. Electrical and Electronics Engineering
458	Microprocessors Lab	18EEEC24	B.E. Electrical and Electronics Engineering
459	Real Time Applications for Power systems	20EEEC101	M.E. Power Systems and Power Electronics
460	Power Electronic Converters	20EEEC102	M.E. Power Systems and Power Electronics
461	Artificial Intelligence Techniques	20EEEE108	M.E. Power Systems and Power Electronics
462	Power Quality	20EEEE110	M.E. Power Systems and Power Electronics
463	Research Methodology and IPR	20MEEC103	M.E. Power Systems and Power Electronics
464	English for Research Paper Writing	20EGA101	M.E. Power Systems and Power Electronics



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
465	Power Systems Lab	20EEEC103	M.E. Power Systems and Power Electronics
466	Power Electronics Simulation Lab	20EEEC104	M.E. Power Systems and Power Electronics
467	Power System dynamics	20EEEC105	M.E. Power Systems and Power Electronics
468	Advanced Power Electronic Circuits	20EEEC106	M.E. Power Systems and Power Electronics
469	Renewable Energy System	20EEEE107	M.E. Power Systems and Power Electronics
470	Energy Auditing & Management	20EEEE113	M.E. Power Systems and Power Electronics
471	Disaster Mitigation and Management	20CEEA101	M.E. Power Systems and Power Electronics
472	Power Electronics Lab	20EEEC107	M.E. Power Systems and Power Electronics
473	Power Systems Simulation Lab	20EEEC108	M.E. Power Systems and Power Electronics
474	Mini Project with Seminar	20EEEC109	M.E. Power Systems and Power Electronics
475	Electric and Hybrid Vehicles	19EEEE116	M.E. Power Systems and Power Electronics
476	Introduction to Optimization Techniques	19MEO102	M.E. Power Systems and Power Electronics
477	Industrial Project/Dissertation Phase I	19EEEC110	M.E. Power Systems and Power Electronics
478	Dissertation Phase II	19EEEC111	M.E. Power Systems and Power Electronics
479	Calculus	20MTC05	B.E-Electronics and Communication Engineering
480	Chemistry	20CYC01	B.E-Electronics and Communication Engineering
481	Engineering Mechanics-I	20CEEC01	B.E-Electronics and Communication Engineering
482	Programming for Problem Solving	20CSC01	B.E-Electronics and Communication Engineering
483	Chemistry Lab	20CYC02	B.E-Electronics and Communication Engineering
484	Programming for Problem Solving Lab	20CSC02	B.E-Electronics and Communication Engineering
485	Workshop/ Manufacturing Practice	20MEEC02	B.E-Electronics and Communication Engineering
486	Engineering Exploration	20MEEC03	B.E-Electronics and Communication Engineering
487	Vector Calculus and Differential Equations	20MTC06	B.E-Electronics and Communication Engineering
488	English	20EGC01	B.E-Electronics and Communication Engineering
489	Electromagnetic Theory and Quantum Mechanics	20PYC06	B.E-Electronics and Communication Engineering
490	Basic Electrical Engineering	20EEEC01	B.E-Electronics and Communication Engineering
491	English lab	20EGC02	B.E-Electronics and Communication Engineering
492	Electromagnetic Theory and Quantum Mechanics Lab	20PYC09	B.E-Electronics and Communication Engineering
493	Basic Electrical Engineering Lab	20EEEC02	B.E-Electronics and Communication Engineering



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
494	CAD and Drafting	20MEC01	B.E-Electronics and Communication Engineering
495	Community Engagement	20MBC02	B.E-Electronics and Communication Engineering
496	Computer Architecture and Microprocessors	18ECC15	B.E-Electronics and Communication Engineering
497	Digital Communication	18ECC16	B.E-Electronics and Communication Engineering
498	Linear and Digital Integrated Circuits	18ECC17	B.E-Electronics and Communication Engineering
499	Principles of Management	18MEC09	B.E-Electronics and Communication Engineering
500	Electronic Measurements and Instrumentation	18ECE01	B.E-Electronics and Communication Engineering
501	Optical Communication	18ECE03	B.E-Electronics and Communication Engineering
502	Telecommunications Switching Systems	18ECE04	B.E-Electronics and Communication Engineering
503	Fundamentals of Virtual Reality	18CSO05	B.E-Electronics and Communication Engineering
504	Object Oriented Programming Using Java	18ITO01	B.E-Electronics and Communication Engineering
505	Quantum Computing	18MTO04	B.E-Electronics and Communication Engineering
506	Digital Communication Lab	18ECC18	B.E-Electronics and Communication Engineering
507	Linear and Digital Integrated Circuits Lab	18ECC19	B.E-Electronics and Communication Engineering
508	Digital Signal Processing	18ECC20	B.E-Electronics and Communication Engineering
509	Microcontrollers	18ECC21	B.E-Electronics and Communication Engineering
510	Microwave and Radar Engineering	18ECC22	B.E-Electronics and Communication Engineering
511	Mobile Cellular Communication	18ECE06	B.E-Electronics and Communication Engineering
512	Principles and Applications of AI	18ECE07	B.E-Electronics and Communication Engineering
513	CPLD and FPGA Architectures	18ECE11	B.E-Electronics and Communication Engineering
514	Data Analytics for signal processing	18ECE12	B.E-Electronics and Communication Engineering
515	Satellite Communication	18ECE13	B.E-Electronics and Communication Engineering
516	Engineering Economics and Accountancy	18MBC01	B.E-Electronics and Communication Engineering
517	Digital Signal Processing Lab	18ECC23	B.E-Electronics and Communication Engineering
518	Microcontrollers Lab	18ECC24	B.E-Electronics and Communication Engineering
519	Microwave Engineering Lab	18ECC25	B.E-Electronics and Communication Engineering
520	Advanced Digital Signal Processing	20EC C102	M.E-Communication Engineering
521	Wireless and Mobile Communication	20EC C104	M.E-Communication Engineering
522	Research Methodology and IPR	20ME C103	M.E-Communication Engineering



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

## List of New Courses Introduced for the AY-2020-21

S.No	Name of the Course	Course Code	Name of the Programme
523	Global Navigation Satellite Systems	20EC E109	M.E-Communication Engineering
524	Software Defined and Cognitive Radio	20EC E112	M.E-Communication Engineering
525	English for Research Paper Writing	20EC K101	M.E-Communication Engineering
526	Advanced Digital Signal Processing Lab	20EC E106	M.E-Communication Engineering
527	Wireless and Mobile Communication Lab	20EC E106	M.E-Communication Engineering
528	Advanced Communication Networks	20EC E101	M.E-Communication Engineering
529	Antennas and Radiating Systems	20EC E105	M.E-Communication Engineering
530	Signal Intelligence Systems	20EC E111	M.E-Communication Engineering
531	Internet of Things	20EC E108	M.E-Communication Engineering
532	Value Education	20EC K101	M.E-Communication Engineering
533	Advanced Communication Networks Lab	20EC E105	M.E-Communication Engineering
534	Antennas and Radiating Systems Lab	20EC E107	M.E-Communication Engineering
535	Mini Project with Seminar	20EC E109	M.E-Communication Engineering
536	WiFi@ Wireless Communications	20EC E108	M.E-Communication Engineering
537	Cost Management of Engineering Projects	20EC G101	M.E-Communication Engineering
538	Project work - Project Seminar	20EC E103	M.E-Communication Engineering
539	Project work - Dissertation	20EC E103	M.E-Communication Engineering
540	Analogue and Digital CMOS VLSI Design	20EC C201	M.E-Embedded Systems & VLSI Design
541	Microcontrollers and Programmable Digital Signal Processors	20EC C205	M.E-Embedded Systems & VLSI Design
542	Research Methodology and IPB	20ME W101	M.E-Embedded Systems & VLSI Design
543	Advanced Computer Organization	20EC E201	M.E-Embedded Systems & VLSI Design
544	VLSI Technology and Physical Design Automation	20EC E203	M.E-Embedded Systems & VLSI Design
545	English for Research Paper Writing	20EC K101	M.E-Embedded Systems & VLSI Design
546	Analogue and Digital CMOS VLSI Design Lab	20EC C205	M.E-Embedded Systems & VLSI Design
547	Microcontrollers and Programmable Digital Signal Processors Lab	20EC C206	M.E-Embedded Systems & VLSI Design
548	Embedded System Design using RTOS	20EC C202	M.E-Embedded Systems & VLSI Design
549	VLSI Design Verification and Testing	20EC C204	M.E-Embedded Systems & VLSI Design
550	Low Power VLSI Design	20EC E205	M.E-Embedded Systems & VLSI Design
551	SoC Design	20EC E203	M.E-Embedded Systems & VLSI Design

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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
552	Value Education	20EC A101	M.E-Embedded Systems & VLSI Design
553	RTL Simulation and Synthesis with PLDs Lab	20EC C207	M.E-Embedded Systems & VLSI Design
554	RTOS and VLSI Design Verification Lab	20EC C208	M.E-Embedded Systems & VLSI Design
555	Mini Project with Seminar	20EC C209	M.E-Embedded Systems & VLSI Design
556	FPGA & CPLD Architectures	19EC E204	M.E-Embedded Systems & VLSI Design
557	Cost Management of Engineering Projects	19CE O101	M.E-Embedded Systems & VLSI Design
558	Industrial Project /Dissertation Phase I	19EC C210	M.E-Embedded Systems & VLSI Design
559	Industrial Project /Dissertation Phase II	19EC C211	M.E-Embedded Systems & VLSI Design
560	Management and Organization Behaviour	20MBC101	Master of Bussiness Administration
561	Managerial Economics	20MBC102	Master of Bussiness Administration
562	Financial Accounting for Management	20MBC103	Master of Bussiness Administration
563	Marketing Management	20MBC104	Master of Bussiness Administration
564	Statistics for Management	20MBC105	Master of Bussiness Administration
565	Digital Technology	20MBC106	Master of Bussiness Administration
566	Business Communication Lab	20MBC107	Master of Bussiness Administration
567	Statistics Lab	20MBC108	Master of Bussiness Administration
568	Business Environment	20MBO101	Master of Bussiness Administration
569	Corporate Social Responsibility	20MBO102	Master of Bussiness Administration
570	Business Law and Ethics	20MBO103	Master of Bussiness Administration
571	Human Resource Management	20MBC201	Master of Bussiness Administration
572	Financial Management	20MBC202	Master of Bussiness Administration
573	Business Research Methods	20MBC203	Master of Bussiness Administration
574	Operations Research	20MBC204	Master of Bussiness Administration
575	Operations Management	20MBC205	Master of Bussiness Administration
576	Business Analytics	20MBC206	Master of Bussiness Administration
577	Logistics and Supply Chain Management	20MBC207	Master of Bussiness Administration
578	Personality Development and Career Guidance	20MBSD201	Master of Bussiness Administration
579	E-Business	20MBO201	Master of Bussiness Administration
580	Banking Management	20MBO202	Master of Bussiness Administration



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

## List of New Courses introduced for the AY:2020-21

S.No	Name of the Course	Course Code	Name of the Programme
581	Customer Relationship Management	20MBO203	Master of Bussiness Administration
582	Calculus	20MTC05	B.Tech - Chemical Engineering
583	Chemistry	20CYC01	B.Tech - Chemical Engineering
584	Engineering Mechanics-I	20CE C01	B.Tech - Chemical Engineering
585	Programming for Problem Solving	20CS C01	B.Tech - Chemical Engineering
586	Chemistry Lab	20CYC02	B.Tech - Chemical Engineering
587	Programming for Problem Solving Lab	20CS C02	B.Tech - Chemical Engineering
588	Workshop/ Manufacturing Practice	20MEC02	B.Tech - Chemical Engineering
589	Engineering Exploration	20MEC03	B.Tech - Chemical Engineering
590	Vector Calculus and Differential Equations	20MT C06	B.Tech - Chemical Engineering
591	English	20EG C01	B.Tech - Chemical Engineering
592	Physics	20PY C07	B.Tech - Chemical Engineering
593	Basic Electrical Engineering	20EEC01	B.Tech - Chemical Engineering
594	English lab	20EG C02	B.Tech - Chemical Engineering
595	Physics Lab	20PY C10	B.Tech - Chemical Engineering
596	Basic Electrical Engineering Lab	20EEC02	B.Tech - Chemical Engineering
597	CAD and Drafting	20ME C01	B.Tech - Chemical Engineering
598	Community Engagement	20MB C02	B.Tech - Chemical Engineering
599	Chemical Reaction Engineering I	18CH C 10	B.Tech - Chemical Engineering
600	Mass Transfer I	18CH C 11	B.Tech - Chemical Engineering
601	Heat Transfer	18CH C 12	B.Tech - Chemical Engineering
602	Particle and Fluid Particle Processing	18CH C 13	B.Tech - Chemical Engineering
603	Water Conservation and Management	18CH E 01	B.Tech - Chemical Engineering
604	Renewable Energy	18CH E 02	B.Tech - Chemical Engineering
605	Experimental and Analytical Techniques	18CH E 03	B.Tech - Chemical Engineering
606	Polymer Science and Technology	18CH E 04	B.Tech - Chemical Engineering
607	Green Technology	18CH E 05	B.Tech - Chemical Engineering
608	Catalysis	18CH E 06	B.Tech - Chemical Engineering
609	Chemical Engineering Lab IA - MUO	18CH C 14	B.Tech - Chemical Engineering



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
610	Chemical Engineering Lab IB - FM and HT	18CH C 15	B.Tech - Chemical Engineering
611	Chemical Reaction Engineering II	18CH C 16	B.Tech - Chemical Engineering
612	Mass Transfer II	18CH C 17	B.Tech - Chemical Engineering
613	Process Control	18CH C 18	B.Tech - Chemical Engineering
614	Fluidization Engineering	18CH E 07	B.Tech - Chemical Engineering
615	Petrochemical Technology	18CH E 08	B.Tech - Chemical Engineering
616	Biochemical Engineering	18CH E 09	B.Tech - Chemical Engineering
617	Sugar Technology	18CH E 10	B.Tech - Chemical Engineering
618	Pulp and Paper Technology	18CH E 11	B.Tech - Chemical Engineering
619	Food Technology	18CH E 12	B.Tech - Chemical Engineering
620	Waste Management	18EE O 05	B.Tech - Chemical Engineering
621	Enterpreneurship	18ME O 04	B.Tech - Chemical Engineering
622	Basics Of Artificial Intelligence	18CS O 09	B.Tech - Chemical Engineering
623	Nanomaterials and Technology	18ME O 06	B.Tech - Chemical Engineering
624	Intellectual Property Rights	18ME O 07	B.Tech - Chemical Engineering
625	Chemical Engineering Lab IIA - CRE	18CH C 19	B.Tech - Chemical Engineering
626	Chemical Engineering Lab IIB - MTO and TD	18CH C 20	B.Tech - Chemical Engineering
627	Transportation Engineering	18CE C13	B.E. Civil Engineering
628	Geotechnical Engineering	18CE C14	B.E. Civil Engineering
629	Structural Analysis-II	18CE C15	B.E. Civil Engineering
630	Engineering Economics and Accountancy	18MB C01	B.E. Civil Engineering
631	Transportation Engineering Lab	18CE C16	B.E. Civil Engineering
632	Geotechnical Engineering Lab	18CE C17	B.E. Civil Engineering
633	Auto CAD Lab	18CE C18	B.E. Civil Engineering
634	Prestressed Concrete	18CE E01	B.E. Civil Engineering
635	Green Building Technologies	18CE E02	B.E. Civil Engineering
636	Principles of Geographical Information Systems	18CE E03	B.E. Civil Engineering
637	Masonry Structures	18CE E04	B.E. Civil Engineering
638	Solid and Hazardous Waste Management	18CE E05	B.E. Civil Engineering



*B. N. Singh*



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
639	Mechanics of Materials	18CE E06	B.E. Civil Engineering
640	Repair and Rehabilitation of Structures	18CE E07	B.E. Civil Engineering
641	Concrete Technology	18CE E08	B.E. Civil Engineering
642	Design of Steel Structures-I	18CE C 19	B.E. Civil Engineering
643	Environmental Engineering	18CE C20	B.E. Civil Engineering
644	Engineering Geology	18CE C21	B.E. Civil Engineering
645	Environmental Engineering Lab	18CE C22	B.E. Civil Engineering
646	Engineering Geology lab	18CE C23	B.E. Civil Engineering
647	Advanced Structural Analysis	18CE E09	B.E. Civil Engineering
648	Foundation Engineering	18CE E10	B.E. Civil Engineering
649	Water Shed Management	18CE E11	B.E. Civil Engineering
650	Urban Transportation Planning	18CE E12	B.E. Civil Engineering
651	Finite Element Methods	18CE E13	B.E. Civil Engineering
652	Reinforced Concrete Design-II	18CE E14	B.E. Civil Engineering
653	Railway Engineering	18CE E15	B.E. Civil Engineering
654	Ground Water	18CE E16	B.E. Civil Engineering
655	Fundamentals of DBMS	18CS O06	B.E. Civil Engineering
656	Entrepreneurship	18ME O04	B.E. Civil Engineering
657	Technical Writing Skills	18EG O01	B.E. Civil Engineering
658	Energy Management Systems	18EE O04	B.E. Civil Engineering
659	Structural Dynamics	20CE C101	ME - Structural Engineering
660	Finite Element Method in Structural Engineering	20CE C102	ME - Structural Engineering
661	Advanced Structural Analysis	20CE E104	ME - Structural Engineering
662	Structural Health Monitoring	20CE E104	ME - Structural Engineering
663	English for Research Paper Writing	19EG A101	ME - Structural Engineering
664	Structural Design Lab	20CE C103	ME - Structural Engineering
665	Advanced Structural Concrete Lab	20CE C104	ME - Structural Engineering
666	Design of High Rise Structures	20CEC105	ME - Structural Engineering
667	Advanced Solid mechanics	20CEC106	ME - Structural Engineering



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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075****List of New Courses introduced for the AY:2020-21**

S.No	Name of the Course	Course Code	Name of the Programme
668	Repair and Retrofitting of Structures	20CEC107	ME - Structural Engineering
669	Advanced Foundation Design	20CEE110	ME - Structural Engineering
670	Disaster Mitigation and Management	20CEA101	ME - Structural Engineering
671	Model Testing Lab	20CEC107	ME - Structural Engineering
672	Numerical Analysis Lab	20CEC108	ME - Structural Engineering
673	Mini Project With Seminar	20CEC109	ME - Structural Engineering
674	Design of Prestressed Concrete Structures (DoPCS)	19CE E114	ME - Structural Engineering
675	Waste to Energy(WTE)	19EE O103	ME - Structural Engineering
676	PROJECT PRESENTATION	19CE C110	ME - Structural Engineering



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