

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075**List of New Courses introduced for the AY:2021-22**

S.No	Name of the Course	CourseCode	Name of the Programme
1	Material Science And Metallurgy	20MEC04	B.E. Mechanical Engineering
2	Strength of Materials	20MEC05	B.E. Mechanical Engineering
3	Manufacturing Processes	20MEC06	B.E. Mechanical Engineering
4	Partial Differential Equations And Statistics	20MTC08	B.E. Mechanical Engineering
5	Basics Of Data Structures	20CSC06	B.E. Mechanical Engineering
6	Universal Human Values II- Understanding Harmony	20EGM03	B.E. Mechanical Engineering
7	Environmental Science	20CEM01	B.E. Mechanical Engineering
8	Material Science and Metallurgy Lab	20MEC07	B.E. Mechanical Engineering
9	Strength of Materials Lab	20MEC08	B.E. Mechanical Engineering
10	Manufacturing Processes Lab	20MEC09	B.E. Mechanical Engineering
11	Basic data structures Lab	20CSC07	B.E. Mechanical Engineering
12	Kinematics of Machines	20MEC10	B.E. Mechanical Engineering
13	Thermodynamics	20MEC11	B.E. Mechanical Engineering
14	Fluid Principles and Hydraulic Machines	20MEC12	B.E. Mechanical Engineering
15	Metal Cutting and Machine Tool Engineering	20MEC13	B.E. Mechanical Engineering
16	Indian Constitution and Fundamental Principles	20EGM01	B.E. Mechanical Engineering
17	Indian Traditional Knowledge	20EGM02	B.E. Mechanical Engineering
18	Power Plant Engineering	20MEE01	B.E. Mechanical Engineering
19	Production and Operations Management	20MEE02	B.E. Mechanical Engineering
20	Entrepreneurship	20MEE03	B.E. Mechanical Engineering
21	Mechatronics and Automation	20MEE04	B.E. Mechanical Engineering
22	Fluid Principles and Hydraulic Machines Lab	20MEC14	B.E. Mechanical Engineering
23	Metal Cutting and Machine Tool Engineering Lab	20MEC15	B.E. Mechanical Engineering
24	Metrology and Instrumentation	18ME C22	B.E. Mechanical Engineering
25	Operations Research	18ME C23	B.E. Mechanical Engineering
26	Finite Element Analysis	18ME C24	B.E. Mechanical Engineering
27	Power Plant Engineering	18ME E21	B.E. Mechanical Engineering
28	Engineering Research Methodology	18ME E22	B.E. Mechanical Engineering
29	Data Analytics	18ME E23	B.E. Mechanical Engineering
30	Innovation and Intellectual Property Rights	18ME E24	B.E. Mechanical Engineering
31	Supply Chain Management	18PE E12	B.E. Mechanical Engineering
32	Object Oriented Programming using JAVA	18IT O01	B.E. Mechanical Engineering
33	History of Science & Technology	18PY O01	B.E. Mechanical Engineering
34	Gender Sensitization	18EG O02	B.E. Mechanical Engineering



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S.No	Name of the Course	CourseCode	Name of the Programme
35	Principles of Internet of Things	18IT 003	B.E. Mechanical Engineering
36	Basics of Artificial Intelligence	18CS 009	B.E. Mechanical Engineering
37	Metrology and Instrumentation Lab	18ME C25	B.E. Mechanical Engineering
38	Computer Aided Engineering Lab	18ME C26	B.E. Mechanical Engineering
39	Project: Part – 1	18ME C27	B.E. Mechanical Engineering
40	Remote Sensing and GIS	18EC 001	B.E. Mechanical Engineering
41	Decision Theory	18MT 001	B.E. Mechanical Engineering
42	Energy Auditing	18EE 003	B.E. Mechanical Engineering
43	Basics of Cyber Security	18CS 004	B.E. Mechanical Engineering
44	MEMS and its Applications	18EC 005	B.E. Mechanical Engineering
45	Technical Writing Skills	18EG 001	B.E. Mechanical Engineering
46	Basics of Biology	18BT 001	B.E. Mechanical Engineering
47	Disaster Mitigation and Management	18CE 002	B.E. Mechanical Engineering
48	Waste Management	18EE 005	B.E. Mechanical Engineering
49	Systems Automation & Control	18EC 007	B.E. Mechanical Engineering
50	Technical Seminar	18ME C28	B.E. Mechanical Engineering
51	Project Part - 2	18ME C29	B.E. Mechanical Engineering
52	Metrology and Instrumentation	18ME C22	B.E. Production Engineering
53	Operations Research	18ME C23	B.E. Production Engineering
54	Additive Manufacturing Technologies	18PE C11	B.E. Production Engineering
55	Power Plant Engineering	18ME E21	B.E. Production Engineering
56	Engineering Research Methodology	18ME E22	B.E. Production Engineering
57	Data Analytics	18ME E23	B.E. Production Engineering
58	Innovation and Intellectual Property Rights	18ME E24	B.E. Production Engineering
59	Supply Chain Management	18PE E12	B.E. Production Engineering
60	Object Oriented Programming using JAVA	18IT 001	B.E. Production Engineering
61	History of Science & Technology	18PY 001	B.E. Production Engineering
62	Gender Sensitization	18EG 002	B.E. Production Engineering
63	Principles of Internet of Things	18IT 003	B.E. Production Engineering
64	Basics of Artificial Intelligence	18CS 009	B.E. Production Engineering
65	Metrology and Instrumentation Lab	18ME C25	B.E. Production Engineering
66	Additive Manufacturing Lab	18PE C12	B.E. Production Engineering
67	Project: Part - 1	18PE C13	B.E. Production Engineering
68	Remote Sensing and GIS	18EC 001	B.E. Production Engineering



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List of New Courses introduced for the AY:2021-22

S.No	Name of the Course	CourseCode	Name of the Programme
69	Applied Operations Research	18MT 001	B.E. Production Engineering
70	Energy Auditing	18EE 003	B.E. Production Engineering
71	Basics of Cyber Security	18CS 004	B.E. Production Engineering
72	MEMS and its Applications	18EC 005	B.E. Production Engineering
73	Technical Writing Skills	18EG 001	B.E. Production Engineering
74	Basics of Biology	18BT 001	B.E. Production Engineering
75	Disaster Mitigation and Management	18CE 002	B.E. Production Engineering
76	Waste Management	18EE 005	B.E. Production Engineering
77	Systems Automation & Control	18EC 007	B.E. Production Engineering
78	Technical Seminar (On the latest trends and other than Project)	18PE C14	B.E. Production Engineering
79	Project Part - 2	18PE C15	B.E. Production Engineering
80	Advanced Finite Element Method	20ME E112	M.E. CAD-CAM
81	Digital Manufacturing and Design	20ME E113	M.E. CAD-CAM
82	Waste to Energy	20EE O101	M.E. CAD-CAM
83	Theory of Elasticity and Plasticity	20ME E114	M.E. CAD-CAM
84	Cost Management of Engineering Projects	20CE O101	M.E. CAD-CAM
85	Business Analytics	20CSO101	M.E. CAD-CAM
86	Industrial Project / Dissertation Phase - I	20MEC 110	M.E. CAD-CAM
87	DISSERTATION PHASE - II	20MEC 111	M.E. CAD-CAM
88	Experimental Methods in Thermal Engineering	20ME E212	M.E. Thermal Engineering
89	Fluid Power Systems	20ME E213	M.E. Thermal Engineering
90	Engine Emissions and Pollution Control	20ME E214	M.E. Thermal Engineering
91	Cost Management of Engineering Projects	20CE O101	M.E. Thermal Engineering
92	Waste to Energy	20EE O101	M.E. Thermal Engineering
93	Business Analytics	20CS O101	M.E. Thermal Engineering
94	Industrial Project / Dissertation Phase - I	20ME C208	M.E. Thermal Engineering
95	Industrial Project / Dissertation Phase - II	20MEC209	M.E. Thermal Engineering
96	OOPS using Python	20CSC34	B.Tech.- Biotechnology
97	Biochemistry	20BTC04	B.Tech.- Biotechnology
98	Microbiology	20BTC05	B.Tech.- Biotechnology
99	Thermodynamics for Biotechnologists	20BTC06	B.Tech.- Biotechnology
100	Cell and Molecular Biology	20BTC07	B.Tech.- Biotechnology
101	Genetics	20BTC08	B.Tech.- Biotechnology
102	OOPS using python LAB	20CSE35	B.Tech.- Biotechnology



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S.No	Name of the Course	CourseCode	Name of the Programme
103	Biochemistry Lab	20BTC09	B.Tech.- Biotechnology
104	Microbiology Lab	20BTC10	B.Tech.- Biotechnology
105	MOOCs/ Training /internship/ (90hrs)	20BT101	B.Tech.- Biotechnology
106	Engineering Mathematics for Biotechnologists	20MTC23	B.Tech.- Biotechnology
107	Bioprocess Engineering	20BTC12	B.Tech.- Biotechnology
108	Immunology & Immunotechnology	20BTC13	B.Tech.- Biotechnology
109	Instrumental Methods in Biotechnology	20BTC14	B.Tech.- Biotechnology
110	Environmental Science	20CEM01	B.Tech.- Biotechnology
111	Environmental Biotechnology	20BTE01	B.Tech.- Biotechnology
112	Process Dynamics and Control for Biotechnologists	20BTE02	B.Tech.- Biotechnology
113	Intellectual Property Rights and Bioethics	20BTE03	B.Tech.- Biotechnology
114	Enzyme technology	20BTE04	B.Tech.- Biotechnology
115	Industrial Biotechnology	20BTE05	B.Tech.- Biotechnology
116	Bioprocess Engineering Lab	20BTC15	B.Tech.- Biotechnology
117	Immunology Lab	20BTC16	B.Tech.- Biotechnology
118	Instrumentation Lab	20BTC17	B.Tech.- Biotechnology
119	Downstream Processing	18BT C26	B.Tech.- Biotechnology
120	Plant Biotechnology	18BT C27	B.Tech.- Biotechnology
121	Biostatistics	18MT C08	B.Tech.- Biotechnology
122	Animal Biotechnology	18BT E14	B.Tech.- Biotechnology
123	Cancer Biology	18BT E15	B.Tech.- Biotechnology
124	Computer Applications in Bioprocess	18BT E16	B.Tech.- Biotechnology
125	Principles of data analytics	18BT E17	B.Tech.- Biotechnology
126	Block chain technologies	18 CS O13	B.Tech.- Biotechnology
127	Basics of Data Science Using R	18CS O04	B.Tech.- Biotechnology
128	Technical Writing	18EG O01	B.Tech.- Biotechnology
129	Waste Management	18EE O05	B.Tech.- Biotechnology
130	Downstream Processing Lab	18BT C28	B.Tech.- Biotechnology
131	Tissue Culture Lab	18BT C29	B.Tech.- Biotechnology
132	Project Part 1	18BT C30	B.Tech.- Biotechnology
133	Tissue Engineering	18BT E18	B.Tech.- Biotechnology
134	Immunodiagnosics	18BT E19	B.Tech.- Biotechnology
135	Genomics and Proteomics	18BT E20	B.Tech.- Biotechnology
136	Entrepreneurship	18ME O04	B.Tech.- Biotechnology



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S.No	Name of the Course	CourseCode	Name of the Programme
137	Open Source Technology	18CS 008	B.Tech.- Biotechnology
138	Python for Bioinformatics	18CS 001	B.Tech.- Biotechnology
139	Technical Seminar (On the latest trends and other than project)	18BT C31	B.Tech.- Biotechnology
140	Project Part II	18BT C32	B.Tech.- Biotechnology
141	Basics of Electrical Engineering	20EEEC01	B.E.-Computer Science and Engineering
142	Basic Electronics	20ECC35	B.E.-Computer Science and Engineering
143	Data Structures	20CSC08	B.E.-Computer Science and Engineering
144	Discrete Mathematics	20CSC09	B.E.-Computer Science and Engineering
145	Digital Logic Design	20CSC10	B.E.-Computer Science and Engineering
146	Indian Traditional Knowledge	20EGM02	B.E.-Computer Science and Engineering
147	Basics of Electrical Engineering Lab	20EEEC02	B.E.-Computer Science and Engineering
148	Basic Electronics Lab	20ECC36	B.E.-Computer Science and Engineering
149	Data Structures Lab	20CSC11	B.E.-Computer Science and Engineering
150	Mathematical Foundation for Data Science & Security	20MTC13	B.E.-Computer Science and Engineering
151	Design and Analysis of Algorithms	20CSC12	B.E.-Computer Science and Engineering
152	Computer Architecture and Microprocessor	20CSC13	B.E.-Computer Science and Engineering
153	Data Base Management Systems	20CSC14	B.E.-Computer Science and Engineering
154	Internet & Web Technologies	20CSC15	B.E.-Computer Science and Engineering
155	Engineering Economics & Accountancy	20MBC01	B.E.-Computer Science and Engineering
156	Mathematical Foundation for Data Science & Security Lab	20MTC14	B.E.-Computer Science and Engineering
157	Design and Analysis of Algorithms Lab	20CSC16	B.E.-Computer Science and Engineering
158	Data Base Management Systems Lab	20CSC17	B.E.-Computer Science and Engineering
159	Internet & Web Technologies Lab	20CSC18	B.E.-Computer Science and Engineering
160	Activity Points	20ACT	B.E.-Computer Science and Engineering
161	Basics of Biology	18BTO01	B.E.-Computer Science and Engineering
162	Compiler Design	18CSC28	B.E.-Computer Science and Engineering
163	Data Science and Big Data Analytics	18CSE17	B.E.-Computer Science and Engineering
164	Machine Learning	18CSE18	B.E.-Computer Science and Engineering
165	Cyber Security	18CSE20	B.E.-Computer Science and Engineering
166	Human Computer Interaction	18CSE22	B.E.-Computer Science and Engineering
167	Neural Networks and Deep Learning	18CSE23	B.E.-Computer Science and Engineering
168	DevOps	18CSE24	B.E.-Computer Science and Engineering
169	Disaster Mitigation and Management	18CEO02	B.E.-Computer Science and Engineering
170	Technical Writing Skills	18EGO01	B.E.-Computer Science and Engineering



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S.No	Name of the Course	CourseCode	Name of the Programme
171	Compiler Design Lab	18CSC29	B.E.-Computer Science and Engineering
172	Project: PART-1	18CSC30	B.E.-Computer Science and Engineering
173	Data Science and Big Data Analytics Lab	18CSE26	B.E.-Computer Science and Engineering
174	Machine Learning Lab	18CSE27	B.E.-Computer Science and Engineering
175	Cyber Security Lab	18CSE29	B.E.-Computer Science and Engineering
176	Social Networking and its Impact	18CSE32	B.E.-Computer Science and Engineering
177	Blockchain Technology	18CSE33	B.E.-Computer Science and Engineering
178	Entrepreneurship	18MEO04	B.E.-Computer Science and Engineering
179	Technical Seminar	18CSC31	B.E.-Computer Science and Engineering
180	Project : PART2	18CSC32	B.E.-Computer Science and Engineering
181	Basics of Electrical Engineering	20EEC01	B.E.-CSE(Artificial Intelligence & Machine Learning)
182	Basic Electronics	20ECC35	B.E.-CSE(Artificial Intelligence & Machine Learning)
183	Data Structures	20CSC08	B.E.-CSE(Artificial Intelligence & Machine Learning)
184	Discrete Mathematics	20CSC09	B.E.-CSE(Artificial Intelligence & Machine Learning)
185	Digital Logic Design	20CSC10	B.E.-CSE(Artificial Intelligence & Machine Learning)
186	Fundamentals of Data Science	20CAC01	B.E.-CSE(Artificial Intelligence & Machine Learning)
187	Basics of Electrical Engineering Lab	20EEC02	B.E.-CSE(Artificial Intelligence & Machine Learning)
188	Basic Electronics Lab	20ECC36	B.E.-CSE(Artificial Intelligence & Machine Learning)
189	Data Structures Lab	20CSC11	B.E.-CSE(Artificial Intelligence & Machine Learning)
190	Fundamentals of Data Science Lab	20CAC02	B.E.-CSE(Artificial Intelligence & Machine Learning)
191	Mathematical Foundation for Data Science & Security	20MTC13	B.E.-CSE(Artificial Intelligence & Machine Learning)
192	Computer Architecture and Microprocessor	20CSC13	B.E.-CSE(Artificial Intelligence & Machine Learning)
193	Data Base Management Systems	20CSC14	B.E.-CSE(Artificial Intelligence & Machine Learning)
194	Internet & Web Technologies	20CSC15	B.E.-CSE(Artificial Intelligence & Machine Learning)
195	Artificial Intelligence	20CAC03	B.E.-CSE(Artificial Intelligence & Machine Learning)
196	Engineering Economics & Accountancy	20MBC01	B.E.-CSE(Artificial Intelligence & Machine Learning)
197	Mathematical Foundation for Data Science & Security Lab	20MTC14	B.E.-CSE(Artificial Intelligence & Machine Learning)
198	Data Base Management Systems Lab	20CSC17	B.E.-CSE(Artificial Intelligence & Machine Learning)
199	Internet & Web Technologies Lab	20CSC18	B.E.-CSE(Artificial Intelligence & Machine Learning)
200	Basic Electrical Engineering	20EEC01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
201	Basic Electronics	20ECC35	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
202	Data Structures	20CSC08	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
203	Discrete Mathematics	20CSC09	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
204	Digital Logic Design	20CSC10	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)



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S.No	Name of the Course	CourseCode	Name of the Programme
205	Fundamentals of Cyber Security and Tools	20CIC01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
206	Basic Electrical Engineering Lab	20EEC02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
207	Data Structures Lab	20CSC11	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
208	Fundamentals of Cyber Security and Tools Lab	20CIC02	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
209	MOOCs / Training / Internship	20CII01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
210	Activity Points	20ACT	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
211	Mathematical Foundation for Data Science & Security	20MTC13	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
212	Computer Architecture and Microprocessor	20CSC13	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
213	Data Base Management Systems	20CSC14	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
214	Internet & Web Technologies	20CSC15	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
215	Introduction to AI Tools, Techniques and Applications	20CSC36	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
216	Engineering Economics & Accountancy	20MBC01	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
217	Mathematical Foundation for Data Science & Security Lab	20MTC14	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
218	Data Base Management Systems Lab	20CSC17	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
219	Internet & Web Technologies Lab	20CSC18	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
220	Introduction to AI Tools, Techniques and Applications Lab	20CSC37	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
221	Activity Points	20ACT	B.E-CSE (Internet of Things and Cyber Security including Blockchain Technology)
222	DC Circuits, Sensors and Transducers	20ECC34	B.E. - Information Technology
223	Digital Logic and Computer Architecture	20ITC05	B.E. - Information Technology
224	Discrete Mathematics and Applications	20ITC06	B.E. - Information Technology
225	Java Programming & Enterprise Frameworks	20ITC07	B.E. - Information Technology
226	Database Management Systems	20ITC08	B.E. - Information Technology
227	Indian Constitution and Fundamental Principles	20EGM01	B.E. - Information Technology
228	Indian Traditional Knowledge	20EGM02	B.E. - Information Technology
229	Java Programming & Enterprise Frameworks Lab	20ITC09	B.E. - Information Technology
230	DBMS Lab	20ITC010	B.E. - Information Technology
231	IT Workshop	20ITC11	B.E. - Information Technology
232	Mini Project-1	20ITC12	B.E. - Information Technology
233	MOOCs/Training/Internship	20ITIO1	B.E. - Information Technology
234	Probability and Queueing Theory	20MTC12	B.E. - Information Technology
235	Software Engineering	20MTC13	B.E. - Information Technology
236	Automata Theory and Compiler Design	20MTC14	B.E. - Information Technology
237	Design and Analysis of Algorithms	20MTC15	B.E. - Information Technology
238	Digital Image Processing	20ITE01	B.E. - Information Technology



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List of New Courses introduced for the AY:2021-22

S.No	Name of the Course	CourseCode	Name of the Programme
239	Data Analysis and Visualization	20ADE01	B.E. - Information Technology
240	Engineering Economics & Accountancy	20MBC01	B.E. - Information Technology
241	Environmental Science	20CEM01	B.E. - Information Technology
242	Mobile Application Development with Android and Kotlin	20ITE02	B.E. - Information Technology
243	Software Engineering Lab	20ITC16	B.E. - Information Technology
244	Design and Analysis of Algorithms Lab	20ITC17	B.E. - Information Technology
245	Artificial Intelligence & Machine Learning Tools, Techniques and Applications	20ADC03	B.E. - Information Technology
246	Mini Project – II	20ITC18	B.E. - Information Technology
247	Big Data Analytics	18IT C27	B.E. - Information Technology
248	Embedded Systems	18IT C28	B.E. - Information Technology
249	Internet of Things	18IT C29	B.E. - Information Technology
250	Distributed Systems	18IT C30	B.E. - Information Technology
251	Cloud Computing	18IT E17	B.E. - Information Technology
252	Block Chain Technology	18IT E20	B.E. - Information Technology
253	Big Data Analytics Lab	18IT C31	B.E. - Information Technology
254	Embedded Systems and IoT Lab	18IT C32	B.E. - Information Technology
255	Distributed Systems Lab	18IT C33	B.E. - Information Technology
256	Project Part - 1	18IT C34	B.E. - Information Technology
257	Intellectual Property Rights	18ME007	B.E. - Information Technology
258	Entrepreneurship	18ME 004	B.E. - Information Technology
259	Technical Writing Skills	18EG 001	B.E. - Information Technology
260	Technical Seminar	18IT C35	B.E. - Information Technology
261	Project Part-2	18ITC36	B.E. - Information Technology
262	DC Circuits, Sensors and Transducers	20ECC34	B.E. - Artificial Intelligence and Data Science
263	Probability and Statistics	20MTC09	B.E. - Artificial Intelligence and Data Science
264	Database Management Systems	20ITC08	B.E. - Artificial Intelligence and Data Science
265	Java Programming	20ADC01	B.E. - Artificial Intelligence and Data Science
266	Digital Logic and Computer Architecture	20ITC05	B.E. - Artificial Intelligence and Data Science
267	Indian Constitution and Fundamental Principles	20EGM01	B.E. - Artificial Intelligence and Data Science
268	Indian Traditional Knowledge	20EGM02	B.E. - Artificial Intelligence and Data Science
269	DBMS Lab	20ITC10	B.E. - Artificial Intelligence and Data Science
270	Java Programming Lab	20ADC02	B.E. - Artificial Intelligence and Data Science
271	Artificial Intelligence & Machine Learning Tools, Techniques and Applications	20ADC03	B.E. - Artificial Intelligence and Data Science
272	Mini Project - I	20ITC12	B.E. - Artificial Intelligence and Data Science



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List of New Courses introduced for the AY:2021-22

S.No	Name of the Course	CourseCode	Name of the Programme
273	MOOCs/Training/Internship	20ADI01	B.E. - Artificial Intelligence and Data Science
274	Stochastic Process and Queueing Theory	20MTC10	B.E. - Artificial Intelligence and Data Science
275	Discrete Mathematics and Applications	20ITC06	B.E. - Artificial Intelligence and Data Science
276	Design and Analysis of Algorithms	20ITC15	B.E. - Artificial Intelligence and Data Science
277	Machine Learning	20ADC 04	B.E. - Artificial Intelligence and Data Science
278	Image Processing	20ITE01	B.E. - Artificial Intelligence and Data Science
279	Data Analysis and Visualization	20ADE01	B.E. - Artificial Intelligence and Data Science
280	Mobile Application Development with Android and Kotlin	20ITE02	B.E. - Artificial Intelligence and Data Science
281	Engineering Economics and Accountancy	20EGM01	B.E. - Artificial Intelligence and Data Science
282	Environmental Science	20CEM01	B.E. - Artificial Intelligence and Data Science
283	Stochastic Process and Queueing Theory Lab	20MTC11	B.E. - Artificial Intelligence and Data Science
284	Design and Analysis of Algorithms Lab	20ITC17	B.E. - Artificial Intelligence and Data Science
285	Machine Learning Lab	20ADC05	B.E. - Artificial Intelligence and Data Science
286	Mini Project-II	20ITC12	B.E. - Artificial Intelligence and Data Science
287	Business Analytics (Open Elective)	20CSO101	M.Tech - Artificial Intelligence and Data Science
288	Block Chain technology	20ITE106	M.Tech - Artificial Intelligence and Data Science
289	Dissertation/Phase-I	20ITC108	M.Tech - Artificial Intelligence and Data Science
290	Dissertation/Phase-II	20ITC109	M.Tech - Artificial Intelligence and Data Science
291	Core- 1: Electrical Circuit Analysis	20EE C03	B.E. - Electrical and Electronics Engineering
292	Core- 2: Analog Electronic Circuits	20EE C04	B.E. - Electrical and Electronics Engineering
293	Core- 3: Electrical Measurements and Instrumentation	20EE C05	B.E. - Electrical and Electronics Engineering
294	Core- 4: Signals & Systems	20EE C06	B.E. - Electrical and Electronics Engineering
295	AEC Lab	20EE C07	B.E. - Electrical and Electronics Engineering
296	ECM Lab	20EE C08	B.E. - Electrical and Electronics Engineering
297	Digital Electronics	20EEC09	B.E. - Electrical and Electronics Engineering
298	Electrical Machines-I	20EEC10	B.E. - Electrical and Electronics Engineering
299	Electromagnetic Fields	20EEC11	B.E. - Electrical and Electronics Engineering
300	Power Electronics	20EEC12	B.E. - Electrical and Electronics Engineering
301	Power Systems-I	20EEC13	B.E. - Electrical and Electronics Engineering
302	Digital Electronics Lab	20EEC14	B.E. - Electrical and Electronics Engineering
303	Electrical Machines-I Lab	20EEC15	B.E. - Electrical and Electronics Engineering
304	Power Electronics Lab	20EEC16	B.E. - Electrical and Electronics Engineering
305	Signals & Systems	18EEC27	B.E. - Electrical and Electronics Engineering
306	Electrical Machine Design	18EEE19	B.E. - Electrical and Electronics Engineering



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S.No	Name of the Course	CourseCode	Name of the Programme
307	High Voltage Engineering	18EEE20	B.E. - Electrical and Electronics Engineering
308	Energy Management Systems	18EE002	B.E. - Electrical and Electronics Engineering
309	Energy Conservation	18EE004	B.E. - Electrical and Electronics Engineering
310	Power Systems-II Lab	18EEC28	B.E. - Electrical and Electronics Engineering
311	Electrical Drives Lab	18EEC29	B.E. - Electrical and Electronics Engineering
312	Project: Part-1	18EEC30	B.E. - Electrical and Electronics Engineering
313	Digital Signal Processing	18EEE22	B.E. - Electrical and Electronics Engineering
314	Smart Grid	18EEE23	B.E. - Electrical and Electronics Engineering
315	Technical Seminar	18EEC31	B.E. - Electrical and Electronics Engineering
316	Project: Part-2	18EEC32	B.E. - Electrical and Electronics Engineering
317	Waste Management	18EE005	B.E. - Electrical and Electronics Engineering
318	Energy Auditing	18EE003	B.E. - Electrical and Electronics Engineering
319	Electric and Hybrid Vehicles	20EEE116	M.E. - Power Systems and Power Electronics
320	Introduction to Optimization Techniques	20MEO102	M.E. - Power Systems and Power Electronics
321	Industrial Project/Dissertation Phase I	20EEC110	M.E. - Power Systems and Power Electronics
322	Dissertation Phase II	20EEC111	M.E. - Power Systems and Power Electronics
323	Applied Mathematics	20MTC07	B.E-Electronics and Communication Engineering
324	Basics of Data Structures	20CSC06	B.E-Electronics and Communication Engineering
325	Electromagnetic Theory and Transmission Lines	20ECC01	B.E-Electronics and Communication Engineering
326	Electronic Devices	20ECC02	B.E-Electronics and Communication Engineering
327	Network Theory	20ECC03	B.E-Electronics and Communication Engineering
328	Signals and Systems	20ECC04	B.E-Electronics and Communication Engineering
329	Environmental Science	20CEM01	B.E-Electronics and Communication Engineering
330	Basics of Data Structures Lab	20CSC07	B.E-Electronics and Communication Engineering
331	Electronic Devices Lab	20ECC05	B.E-Electronics and Communication Engineering
332	Electronic Workshop and Networks Lab	20ECC06	B.E-Electronics and Communication Engineering
333	MOOCs/Training/Internship	20ECI01	B.E-Electronics and Communication Engineering
334	Analog Circuits	20ECC07	B.E-Electronics and Communication Engineering
335	Analog Communication	20ECC08	B.E-Electronics and Communication Engineering
336	Antennas and Wave Propagation	20ECC09	B.E-Electronics and Communication Engineering
337	Control Systems	20ECC10	B.E-Electronics and Communication Engineering
338	Digital Systems Design	20ECC11	B.E-Electronics and Communication Engineering
339	Universal Human Values II: Understanding Harmony	20EGM03	B.E-Electronics and Communication Engineering
340	Indian Constitution and Fundamental Principles	20EGM01	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:2021-22

S.No	Name of the Course	CourseCode	Name of the Programme
341	Indian Traditional Knowledge	20EGM02	B.E-Electronics and Communication Engineering
342	Analog Circuits Lab	20ECC12	B.E-Electronics and Communication Engineering
343	Analog Communication Lab	20ECC13	B.E-Electronics and Communication Engineering
344	Digital Systems Design Lab	20ECC14	B.E-Electronics and Communication Engineering
345	Computer Networks	18ECC26	B.E-Electronics and Communication Engineering
346	VLSI Design	18ECC27	B.E-Electronics and Communication Engineering
347	Cryptography and Blockchain Technology	18ECE15	B.E-Electronics and Communication Engineering
348	DSP Processors and Architectures	18ECE16	B.E-Electronics and Communication Engineering
349	Digital Image Processing	18ECE21	B.E-Electronics and Communication Engineering
350	Embedded Systems	18ECE22	B.E-Electronics and Communication Engineering
351	5G Communications	18ECE24	B.E-Electronics and Communication Engineering
352	Entrepreneurship	18MEO04	B.E-Electronics and Communication Engineering
353	Fundamentals of DBMS	18CSO06	B.E-Electronics and Communication Engineering
354	Python Programming	18ITO02	B.E-Electronics and Communication Engineering
355	Computer Networks Lab	18ECC28	B.E-Electronics and Communication Engineering
356	Electronic Design and Automation Lab	18ECC29	B.E-Electronics and Communication Engineering
357	Electronics Measurement and Simulation Lab	18ECC30	B.E-Electronics and Communication Engineering
358	Project: Part-1	18ECC31	B.E-Electronics and Communication Engineering
359	Industrial Visit	18ECC32	B.E-Electronics and Communication Engineering
360	IoT and its Applications	18ECE25	B.E-Electronics and Communication Engineering
361	Principles of Wireless Sensor Networks	18ECE27	B.E-Electronics and Communication Engineering
362	Gender Sensitization	18EGO02	B.E-Electronics and Communication Engineering
363	Machine Learning using Python	18CSO10	B.E-Electronics and Communication Engineering
364	Technical Seminar	18ECC33	B.E-Electronics and Communication Engineering
365	Project: Part-2	18ECC34	B.E-Electronics and Communication Engineering
366	MIMO Wireless Communications	20EC E111	M.E-Communication Engineering
367	Business Analytics	20CS O101	M.E-Communication Engineering
368	Industrial Project / Dissertation Phase I	20EC C110	M.E-Communication Engineering
369	Industrial Project /Dissertation Phase II	20EC C111	M.E-Communication Engineering
370	FPGA & CPLD Architectures	20EC E204	M.E-Embedded Systems & VLSI Design
371	Business Analytics	20CS O101	M.E-Embedded Systems & VLSI Design
372	#NAME?	20EC C210	M.E-Embedded Systems & VLSI Design
373	Industrial Project /Dissertation Phase II	20EC C211	M.E-Embedded Systems & VLSI Design
374	Mathematics III(PDE & S)	20MTC08	B.Tech - Chemical Engineering



P.A. - 10/2/22

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075**List of New Courses introduced for the AY:2021-22**

S.No	Name of the Course	CourseCode	Name of the Programme
375	Basics of Data Structures	20CSC06	B.Tech - Chemical Engineering
376	Chemical Engineering Thermodynamics I	20CHC01	B.Tech - Chemical Engineering
377	Fluid Mechanics	20CHC02	B.Tech - Chemical Engineering
378	Material and Energy Balance Calculations	20CHC03	B.Tech - Chemical Engineering
379	Mechanical Unit Operations	20CHC04	B.Tech - Chemical Engineering
380	Basics of Data Structures Lab	20CSC07	B.Tech - Chemical Engineering
381	Fluid Mechanics Lab	20CHC05	B.Tech - Chemical Engineering
382	Mechanical Unit Operations Lab	20CHC06	B.Tech - Chemical Engineering
383	MOOCs/Training/ Internship	20CHI01	B.Tech - Chemical Engineering
384	Chemical Reaction Engineering I	20CHC07	B.Tech - Chemical Engineering
385	Chemical Technology	20CHC08	B.Tech - Chemical Engineering
386	Heat Transfer	20CHC09	B.Tech - Chemical Engineering
387	Mass Transfer Operations I	20CHC10	B.Tech - Chemical Engineering
388	Indian Constitution & Fundamental Principles	20EGM01	B.Tech - Chemical Engineering
389	Indian Traditional Knowledge	20EEM01	B.Tech - Chemical Engineering
390	Environmental Science	20CEM01	B.Tech - Chemical Engineering
391	Energy Engineering	20CHE01	B.Tech - Chemical Engineering
392	Food Processing Technology	20CHE02	B.Tech - Chemical Engineering
393	Material Science for Chemical Engineers	20CHE03	B.Tech - Chemical Engineering
394	Pulp and Paper Technology	20CHE04	B.Tech - Chemical Engineering
395	Chemical Reaction Engineering Lab	20CHC11	B.Tech - Chemical Engineering
396	Heat Transfer Lab	20CHC12	B.Tech - Chemical Engineering
397	Transport Phenomena	18CH C 21	B.Tech - Chemical Engineering
398	Process Technology and Economics	18CH C 22	B.Tech - Chemical Engineering
399	Process Instrumentation	18CH C 23	B.Tech - Chemical Engineering
400	Mineral Processing Technology	18CH E 13	B.Tech - Chemical Engineering
401	Corrosion Engineering	18CH E 14	B.Tech - Chemical Engineering
402	Scale-up Methods	18CH E 15	B.Tech - Chemical Engineering
403	Modern Manufacturing Processes	18ME O 11	B.Tech - Chemical Engineering
404	Energy Management Systems	18EE O 02	B.Tech - Chemical Engineering
405	Research Methodologies	18ME O 03	B.Tech - Chemical Engineering
406	Disaster Mitigation and Management	18CE O 02	B.Tech - Chemical Engineering
407	Machine Learning using Python	18CS O 10	B.Tech - Chemical Engineering
408	Process Instrumentation and Control Lab	18CH C 24	B.Tech - Chemical Engineering



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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075**List of New Courses introduced for the AY:2021-22**

S.No	Name of the Course	CourseCode	Name of the Programme
409	Process Modeling and Simulation Lab	18CH C 25	B.Tech - Chemical Engineering
410	Project: Part I	18CH C 26	B.Tech - Chemical Engineering
411	Chemical Process Safety	18CH E 16	B.Tech - Chemical Engineering
412	Fertilizer Technology	18CH E 17	B.Tech - Chemical Engineering
413	Chemical Process Synthesis	18CH E 18	B.Tech - Chemical Engineering
414	Histories of Science and Technology	18PYO 01	B.Tech - Chemical Engineering
415	Gender Sensitization	18EG O 02	B.Tech - Chemical Engineering
416	Technical writing skills	18EG O 01	B.Tech - Chemical Engineering
417	IoT and Applications	18CSO 03	B.Tech - Chemical Engineering
418	Basics of Data Science using R	18CSO 04	B.Tech - Chemical Engineering
419	Technical Seminar	18CH C 27	B.Tech - Chemical Engineering
420	Project Part II	18CH C 28	B.Tech - Chemical Engineering
421	Partial Differential Equations and Statistics	20MT C08	B.E. Civil Engineering
422	Surveying-I	20CE C03	B.E. Civil Engineering
423	Solid Mechanics	20CE C04	B.E. Civil Engineering
424	Fluid Mechanics	20CE C05	B.E. Civil Engineering
425	Building Construction Practices & Concrete Technology	20CE C06	B.E. Civil Engineering
426	Universal Human Values -II Understanding Harmony	20EG M03	B.E. Civil Engineering
427	Solid Mechanics Lab	20CE C07	B.E. Civil Engineering
428	Fluid Mechanics Lab	20CE C08	B.E. Civil Engineering
429	MOOCs/Training/ Internship	20CE I01	B.E. Civil Engineering
430	Hydraulic Engineering	20CE C09	B.E. Civil Engineering
431	Surveying II	20CE C10	B.E. Civil Engineering
432	Structural Analysis I	20CE C11	B.E. Civil Engineering
433	Reinforced Concrete Design - I	20CE C12	B.E. Civil Engineering
434	Hydraulic Engineering Lab	20CE C13	B.E. Civil Engineering
435	Surveying & Geomatics Lab	20CE C14	B.E. Civil Engineering
436	Computer Aided Drafting (CAD)	20CE C15	B.E. Civil Engineering
437	Indian Constitution & Fundamental Principles (MC)	20EG M01	B.E. Civil Engineering
438	Indian Traditional Knowledge (MC)	20EE M01	B.E. Civil Engineering
439	Green Building Technologies	20CE E01	B.E. Civil Engineering
440	Principles of Geographical information systems	20CE E02	B.E. Civil Engineering
441	Solid and Hazardous Waste Management	20CE E03	B.E. Civil Engineering
442	Ground Water Engineering	20CE E04	B.E. Civil Engineering



P.A. Singh

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075**List of New Courses introduced for the AY:2021-22**

S.No	Name of the Course	CourseCode	Name of the Programme
443	Construction Engineering and Management	18CE C24	B.E. Civil Engineering
444	Hydrology and Water Resources Engineering	18CE C25	B.E. Civil Engineering
445	Estimation, Specifications and Costing	18CE C26	B.E. Civil Engineering
446	Concrete Technology Lab	18CE C27	B.E. Civil Engineering
447	Computer Applications Lab	18CE C28	B.E. Civil Engineering
448	Project: Part 1	18CE C29	B.E. Civil Engineering
449	Design of Steel Structures-II	18CE E17	B.E. Civil Engineering
450	Airport Engineering	18CE E18	B.E. Civil Engineering
451	River Engineering	18CE E19	B.E. Civil Engineering
452	Water and Air Quality Modelling	18CE E20	B.E. Civil Engineering
453	Intellectual Property Rights	18ME O07	B.E. Civil Engineering
454	Gender Sensitization	18EG O02	B.E. Civil Engineering
455	Basics of Artificial Intelligence	18CS O01	B.E. Civil Engineering
456	Energy Conservation	18EE O04	B.E. Civil Engineering
457	Earthquake Resistant Design of Structures	18CE E21	B.E. Civil Engineering
458	Ground Improvement Techniques	18CE E22	B.E. Civil Engineering
459	Design of Hydraulic Structures/ Irrigation Engineering	18CE E23	B.E. Civil Engineering
460	Rural Water Supply and Onsite Sanitation Systems	18CE E24	B.E. Civil Engineering
461	Nano Materials and Technology	18ME O06	B.E. Civil Engineering
462	Principles of Internet of Things	18IT O03	B.E. Civil Engineering
463	Waste Management	18EE O05	B.E. Civil Engineering
464	Neural Networks and Fuzzy Logic	18EC O08	B.E. Civil Engineering
465	Project: Part 2	18CE C31	B.E. Civil Engineering

P. Arindya

