

**LIST OF COURSES REGISTERED BY THE STUDENTS****B.Tech./B.Arch, Autumn Semester, 2020-21 Updated on: 22-Oct-20****ALL COURSES**

S.No.	Crs. No.	Course Title	Credits	POPULATION			
				Mode a	Mode b	Mode c	Total
1	AC111	Applied Chemistry	4	0	7	0	7
2	ACA3110	Engineering Materials	4	16	1	0	17
3	ACO3080	Atmospheric Chemistry	4	57	0	0	57
4	ACS1110	Applied Chemistry	4	1	8	0	9
5	ACS1910	Applied Chemistry Lab	1.5	3	0	0	3
6	AM111	Mathematics-I	4	0	3	0	3
7	AM112	Mathematics-II	4	0	5	0	5
8	AM211	Mathematics-III	4	0	3	0	3
9	AM212	Mathematics IV	4	0	2	0	2
10	AM223	Higher Mathematics	4	0	1	0	1
11	AM231	Higher Mathematics	4	1	2	0	3
12	AM241	Higher Mathematics	4	1	3	0	4
13	AM251	Higher Mathematics-I	4	0	3	0	3
14	AM252	Higher Mathematics-II	4	0	4	0	4
15	AM261	Higher Mathematics	4	0	2	0	2
16	AMO3510	Numerical Techniques	4	58	0	0	58
17	AMS1110	Applied Mathematics-I	4	5	32	7	44
18	AMS2110	Mathematics-III	3	74	3	0	77
19	AMS2230	Higher Mathematics	4	73	0	0	73
20	AMS2310	Higher Mathematics	4	92	2	0	94
21	AMS2410	Higher Mathematics	4	47	1	0	48
22	AMS2510	Higher Mathematics - I	4	58	2	0	60
23	AMS2520	Higher Mathematics - II	4	58	2	0	60
24	AMS2610	Higher Mathematics	4	66	2	0	68
25	AP111	Applied Physics	4	0	9	0	9
26	AP204	Electromagnetics	4	0	1	0	1
27	APO3090	Nano-physics & Nano-technology-I	4	22	0	0	22
28	APS1110	Applied Physics	4	1	12	6	19
29	APS1910	Applied Physics Lab	1.5	1	5	1	7
30	APS2050	Electrical Engineering Materials	3	73	1	0	74
31	AR102	Construction & Materials-I	4	0	1	0	1
32	AR204	Construction & Materials-III	5	0	1	0	1
33	AR351N	Architectural Design III	7	0	1	0	1
34	AR415	Estimating, Costing & Specification	4	1	0	0	1
35	AR507	Urban Design	4	15	0	0	15
36	AR511	Housing & Community Planning	4	15	0	0	15
37	AR517	Professional Practice, Valuation & Arbitration	4	15	0	0	15
38	AR555	Design Thesis	12	15	0	0	15
39	ARC2030	Climate & Design	4	24	0	1	25

**ALL COURSES**

S.No.	Crs. No.	Course Title	Credits	POPULATION			
				Mode a	Mode b	Mode c	Total
40	ARC2050	Building Services – I (Water Supply and Sanitation)	3	23	0	0	23
41	ARC2070	Ancient Architecture (Indian and Far East)	3	23	0	0	23
42	ARC2330	Construction and Materials - II	5	23	0	0	23
43	ARC2630	Architecture Design - II	7	23	0	0	23
44	ARC2910	Model Making & Photography	2	23	0	0	23
45	ARC2930	Computer Application in Architecture – I	2	23	0	0	23
46	ARC3090	Building Bye Laws & Regulations	3	22	0	0	22
47	ARC3110	Islamic Architecture	3	22	0	0	22
48	ARC3130	Specification Estimating & Costing	4	22	0	0	22
49	ARC3150	Building Services – III (Mechanical)	3	22	0	0	22
50	ARC3650	Architectural Design - IV	7	22	0	0	22
51	ARC3950	Building Study	2	22	0	0	22
52	ARC4170	Modern & Contemporary Architecture	3	24	0	0	24
53	ARC4430	Construction & Materials - V	5	24	0	0	24
54	ARC4450	Landscape Design	4	24	0	0	24
55	ARC4670	Architectural Design - VI	7	24	0	0	24
56	ARC4810	Professional Training - I	2	24	0	0	24
57	CE213	Fluid Mechanics	4	0	5	0	5
58	CE214	Water Supply and Treatment	4	0	1	0	1
59	CE215	Engineering Geology	4	0	1	0	1
60	CE221	Civil Engg. Materials & Construction Practice	4	0	4	0	4
61	CE311	Design of Concrete Structure-I	4	0	4	0	4
62	CE312	Soil Mechanics	4	0	1	0	1
63	CE313	Waste Management	4	0	1	0	1
64	CE315	Structural Analysis-I	4	0	1	0	1
65	CE413	Foundation Engineering	4	7	0	0	7
66	CE415	Irrigation Engineering	4	0	1	0	1
67	CE429	Industrial Pollution Control	4	0	2	0	2
68	CE430N	Structural Analysis-II	4	1	0	0	1
69	CE444N	Disaster Management	4	3	0	0	3
70	CEA1110	Environmental Studies	3	2	1	0	3
71	CEA1120	Strength of Materials	3	0	20	3	23
72	CEA2140	Engineering Geology	4	74	0	0	74
73	CEA2930	Engineering Geology Lab & camp	2	74	0	0	74
74	CEA3110	Structural Design - I	4	22	0	0	22
75	CEC2130	Fluid Mechanics	4	74	3	0	77
76	CEC2150	Quantity Survey	4	74	1	1	76
77	CEC2160	Civil Engineering Materials and Construction Practice	4	74	4	1	79
78	CEC2180	Surveying	4	0	1	0	1
79	CEC2910	Civil Engineering Material Lab	2	74	1	0	75
80	CEC2920	Fluid Mechanics Lab	2	74	0	0	74

## ALL COURSES

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				Mode a	Mode b	Mode c	Total
81	CEC3110	Design of Concrete Structures-I	4	78	3	0	81
82	CEC3120	Soil Mechanics	4	78	5	0	83
83	CEC3130	Environmental Engineering II	4	78	2	0	80
84	CEC3140	Engineering Hydraulics-I	4	78	1	0	79
85	CEC3150	Structural Analysis-I	4	81	7	0	88
86	CEC3910	Soil Mechanics Lab	2	78	0	0	78
87	CEC3920	Environmental Engineering Lab	2	78	0	0	78
88	CEC3930	Hydraulics Lab	2	78	0	0	78
89	CEC3940	Structures Lab	2	78	0	0	78
90	CEC4120	Foundation Engineering	4	57	0	0	57
91	CEC4130	Irrigation Engineering	4	57	0	0	57
92	CEC4810	Colloquium	2	57	0	0	57
93	CEC4910	Cad Lab-II	2	57	0	0	57
94	CEC4980	Project A*	4	57	0	0	57
95	CEE4580	Dam Engineering	4	31	0	0	31
96	CEE4590	Industrial Pollution Control	4	26	0	0	26
97	CEH4110	Construction Management II	4	57	0	0	57
98	CEO4710	Disaster Management	4	59	0	0	59
99	CEO4750	Project Management	4	61	0	0	61
100	CH211	Basic Principles of Chemical Engg.	4	0	2	0	2
101	CH214	Fluid Particle Operations	4	0	1	0	1
102	CH224	Process Instrumentation	4	0	2	0	2
103	CH225	Engineering Biology	4	0	1	0	1
104	CH226	Numerical Methods in Chemical Engg.	4	0	1	0	1
105	CH313	Mass Transfer Operations	4	0	1	0	1
106	CH323	Transport Phenomena	4	0	1	0	1
107	CH324	Process Equipment Design	4	0	2	0	2
108	CH335	Bioprocess Engineering	4	0	1	0	1
109	CH411	Process Dynamics & Control	4	0	1	0	1
110	CH431	Hazardous Waste Management	4	2	2	0	4
111	CHA2020	Biology for Engineers	3	34	0	0	34
112	CHC2010	Basic Principles of Chemical Engg.	4	37	3	0	40
113	CHC2030	Fluid Mechanics	4	34	0	0	34
114	CHC2040	Fluid Particle Operations	4	33	0	0	33
115	CHC2900	Computer Applications Lab	1.5	33	0	0	33
116	CHC3080	Mass Transfer Operations	4	27	0	0	27
117	CHC3090	Process Instrumentation	3	25	1	0	26
118	CHC3100	Chemical Reaction Engineering-I	3	26	0	0	26
119	CHC3110	Equilibrium Stage Processes	4	27	0	0	27
120	CHC3800	Seminar and Report Writing	1.5	26	0	0	26
121	CHC3940	Heat Transfer Lab	1.5	25	0	0	25

## ALL COURSES

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				Mode a	Mode b	Mode c	Total
122	CHC3950	Reaction Engg. & Thermodynamics Lab	1.5	25	0	0	25
123	CHC4190	Process Engineering & Plant Design	4	24	0	0	24
124	CHC4200	Chemical Process Industries -II	3	24	0	0	24
125	CHC4900	CAD/Simulation Lab	1.5	24	0	0	24
126	CHC4970	Plant Design Project A	3	24	0	0	24
127	CHC4990	Process Control & Instrumentation Lab	1.5	24	0	0	24
128	CHE3210	Bio Process Engineering	4	23	0	0	23
129	CHE4430	Petroleum Processing	4	24	0	0	24
130	CHO4260	MATLAB for Scientist & Engineers	4	43	0	0	43
131	CHO4310	Hazardous Waste Management	4	42	0	0	42
132	CO191	Computer Programming Lab	2	0	1	0	1
133	CO203	Object Oriented Programming	4	0	1	0	1
134	CO206	Algorithm and Data Structure	4	0	1	0	1
135	CO207	Logic Theory & Computer Organization	4	0	2	0	2
136	CO308	Digital Electronics	4	0	2	0	2
137	CO309	Microprocessor Theory And Applications	4	1	1	0	2
138	CO310	Operating Systems	4	0	1	0	1
139	CO393	Software Lab I	2	1	2	0	3
140	CO395	Minor Project	3	1	1	0	2
141	CO406	Compiler Design	4	4	0	0	4
142	CO431	Internet Tools	4	2	0	0	2
143	CO446N	Select. Topics in Computer Engg.-I	4	1	0	0	1
144	CO451	Computer Network design	4	1	0	0	1
145	CO458	Cloud Computing	4	2	1	0	3
146	CO460	Computer Architecture	4	1	4	0	5
147	CO461	Principles of Machine Learning	4	3	0	0	3
148	CO495	Network & Embedded System Lab	2	2	0	0	2
149	CO499A	Project Phase-I	4	3	0	0	3
150	COA1910	Computer Programming Lab	1.5	2	4	0	6
151	COC2030	Object Oriented Programming	4	66	2	0	68
152	COC2060	Data Structure and Algorithm	4	66	3	1	70
153	COC2070	Digital Logic and System Design	4	69	4	1	74
154	COC2910	Data Structure & OOP Laboratory	2	66	2	0	68
155	COC3080	Digital Electronics	4	64	3	0	67
156	COC3090	Microprocessor Theory & Applications	4	64	0	0	64
157	COC3100	Operating Systems	4	65	0	0	65
158	COC3930	Algorithms & Operating Systems Lab	2	65	1	0	66
159	COC3950	Minor Project	3	65	2	0	67
160	COC4010	Information Security	4	61	0	0	61
161	COC4060	Compiler Design	4	60	0	0	60
162	COC4950	Network & Embedded System Lab	2	61	0	0	61

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				Mode a	Mode b	Mode c	Total
163	COC4980	B.Tech Project Part-I	4	61	0	0	61
164	COE4510	Computer Network Design	4	51	0	0	51
165	COE4520	(Mobile Computing	4	39	0	0	39
166	COE4580	Cloud Computing	4	59	0	0	59
167	COE4610	Principles of Machine Learning	4	31	0	0	31
168	COO4460	Select. Topics in Computer Engg.-I	4	22	0	0	22
169	EE111	Basics of Elect. & Electronics Engg	4	2	3	0	5
170	EE206	Electrical Engineering	4	0	1	0	1
171	EE211N	Electrical Machines-I	4	0	1	0	1
172	EE231N	Power System Engineering	4	0	1	0	1
173	EE276	Circuit Theory	4	0	1	0	1
174	EE277	Electrical Engineering Materials	4	0	1	0	1
175	EE305	Control Engineering	4	2	3	0	5
176	EE321N	Power Electronics-I	4	0	1	0	1
177	EE322N	Power Electronics-II	4	0	1	0	1
178	EE333N	Power System Protection	4	0	1	0	1
179	EE335N	Power System Analysis	4	0	1	0	1
180	EE352N	Electrical & Electronic Instr.	4	0	1	0	1
181	EE421	Renewable Energy Sources	4	0	1	0	1
182	EE434	Energy Management and Automation	4	0	1	0	1
183	EE435	Power Station Practice	4	2	0	0	2
184	EE442N	Control Systems	4	0	1	0	1
185	EE482	Digital Signal Processing	4	3	0	0	3
186	EE492	Microprocessor Lab	2	0	2	0	2
187	EE493	Power System Protection Lab	2	1	1	0	2
188	EE499A	Project Phase-I	3	0	1	0	1
189	EEA1110	Principles of Electrical Engineering	3	1	18	3	22
190	EEA2030	Electrical Engineering	3	33	0	0	33
191	EEA2960	Electrical Engineering Lab	1.5	33	0	0	33
192	EEA3010	Automation & Control	4	91	1	2	94
193	EEC2110	Electrical Machines-I	4	73	9	0	82
194	EEC2710	Circuit Theory	4	73	7	0	80
195	EEC2720	Electromagnetic Field Theory	4	73	7	0	80
196	EEC2730	Signals & Systems	3	73	7	0	80
197	EEC2910	Electrical Machines Lab I	2	73	0	0	73
198	EEC3210	Power Electronics-II	4	72	3	3	78
199	EEC3310	Power System Analysis	4	72	0	1	73
200	EEC3510	Electrical & Electronic Instr.	3	72	0	0	72
201	EEC3610	High Voltage Engineering	3	72	0	0	72
202	EEC3910	Power Electronics Lab	2	72	0	0	72
203	EEC4310	Power System Protection	4	70	0	0	70

## ALL COURSES

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204	EEC4410	Control Systems	4	70	0	0	70
205	EEC4910	Power System Protection Lab	2	70	0	0	70
206	EEC4920	Control Lab	2	70	0	0	70
207	EEC4930	Electric Machine Design	2	70	0	0	70
208	EEC4940	Power System Design	2	70	0	0	70
209	EEC4980	Project Phase-I	2	70	0	0	70
210	EEE4110	Modern Electric Drives	3	64	0	0	64
211	EEE4210	Power Semiconductor Controllers	3	39	0	0	39
212	EEE4230	Solar Photovoltaic Systems	3	40	0	0	40
213	EEE4310	Power Station Practice	3	67	0	0	67
214	EL211	Electronic Devices & Circuits	4	0	2	0	2
215	EL211N	Electronic Devices	4	0	4	0	4
216	EL212	Circuit Theory	4	0	1	0	1
217	EL213	Analog Electronics	4	0	1	0	1
218	EL241	Signals & Systems	4	0	4	0	4
219	EL311	Digital Electronics	4	0	1	0	1
220	EL312	Active Network Synthesis	4	0	3	0	3
221	EL315	VLSI Design & Technology	4	0	3	0	3
222	EL332	Microprocessors & Microcontrollers	4	0	3	0	3
223	EL340	Communication Engineering	4	1	1	0	2
224	EL342	Digital Communication	4	0	2	0	2
225	EL343N	Digital Signal Processing-I	4	0	1	0	1
226	EL354	Microwaves and Antennas	4	0	5	0	5
227	EL412	Analog I.C. Design	4	1	1	0	2
228	EL413	Digital I.C. Design	4	2	4	0	6
229	EL447	Multimedia Systems & Networks	4	0	2	0	2
230	EL458N	TV and Radar Engineering	4	0	2	0	2
231	EL490A	Project Phase-I	4	1	1	0	2
232	EL493	Electronics Lab IV	2	1	0	0	1
233	EL494	Communication Lab III	2	1	0	0	1
234	ELA1110	Principles of Electronics Engineering	3	0	22	2	24
235	ELA2110	Electronic Devices & Circuits	4	66	3	0	69
236	ELA3020	Fundamentals of Communication Engineering	4	72	2	2	76
237	ELA3400	Communication Engineering	4	65	1	0	66
238	ELA3910	Electronics Engg. Lab	2	72	0	0	72
239	ELC2110	Electronic Devices & Circuits	4	58	4	1	63
240	ELC2120	Circuit Theory	4	58	1	0	59
241	ELC2310	Logic Circuits	4	60	7	1	68
242	ELC2410	Signals and Systems	4	58	10	1	69
243	ELC2910	Electronics Lab- I	2	58	0	0	58
244	ELC3110	Analog Electronics	4	62	1	0	63

## ALL COURSES

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245	ELC3210	Control Systems	4	62	1	0	63
246	ELC3310	Microprocessors & Microcontrollers	4	62	0	0	62
247	ELC3410	Principles of Communication Engineering II	4	62	4	0	66
248	ELC3510	Microwaves and Antennas	4	62	1	0	63
249	ELC3610	VLSI Design & Technology	4	62	3	0	65
250	ELC3910	Electronics Lab - III	2	62	1	0	63
251	ELC3920	Communication Lab - I	2	62	0	0	62
252	ELC4410	Communication Networks	4	57	0	0	57
253	ELC4810	Colloquium	2	57	0	0	57
254	ELC4910	VLSI and Signal Processing Lab	2	57	0	0	57
255	ELC4980	Project (Continued)	3	57	0	0	57
256	ELE4520	Mobile Communication	4	36	0	0	36
257	ELE4610	Analog IC Design	4	24	0	0	24
258	ELE4620	Digital IC Design	4	54	0	0	54
259	ELO4310	Artificial Intelligence & Neural Networks	4	21	0	0	21
260	EZ291	Communication Skills Lab	2	0	1	0	1
261	EZH1110	English	3	0	2	1	3
262	EZH2910	Communication Skills Lab	2	230	0	1	231
263	EZH3010	Fundamentals of Entrepreneurship	3	67	0	0	67
264	EZH3020	Intellectual Property Rights for Engineers	3	66	0	0	66
265	EZH3030	Patent law for Engineers	3	44	0	0	44
266	ME101	Thermal Sciences	4	0	9	0	9
267	ME111	Applied Mechanics	4	1	8	0	9
268	ME213	Mechanics of Solids	4	0	3	0	3
269	ME214	Manufacturing Technology I	4	0	6	0	6
270	ME215	Kinematics and Design of Machines	4	0	2	0	2
271	ME220	Experimental Methods & Analysis	4	0	6	0	6
272	ME231	Fluids Mechanics I	4	0	5	0	5
273	ME317	Machine Design	4	1	4	0	5
274	ME323	Heat & Mass Transfer	4	2	3	0	5
275	ME325	Manufacturing Technology II	4	0	1	0	1
276	ME332	Fluid Mechanics II	4	1	8	0	9
277	ME340	Economics & Management	4	0	6	0	6
278	ME341	Industrial Engineering	4	1	2	0	3
279	ME392	Heat & Mass Transfer Lab	2	1	1	0	2
280	ME398	Machine Design Practice	2	1	1	0	2
281	ME406	Powder Metallurgy	4	0	1	0	1
282	ME411	Mechanical Vibrations	4	1	6	0	7
283	ME425	Air Pollution Technology	4	3	0	0	3
284	ME428	Power Plant Engineering	4	0	1	0	1
285	ME433	Fluid Machinery	4	0	3	0	3

## ALL COURSES

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286	ME445	Operational Research	4	1	0	0	1
287	ME447	Facilities Planning & Plant Engg.	4	0	1	0	1
288	ME461	Heating, Vent. & Air Cond.(HVAC)	4	0	1	0	1
289	ME479	Introduction to Composite Materials	4	0	1	0	1
290	MEA1110	Engineering Thermodynamics	4	2	9	0	11
291	MEA1120	Engineering Mechanics	3	8	23	8	39
292	MEA1910	Engineering Graphics Lab	2	3	1	0	4
293	MEA1920	Manufacturing Process Lab	1.5	1	0	0	1
294	MEA2420	Experimental Methods & Analysis	3	90	13	0	103
295	MEA2940	Machine Drawing and Computer Graphics	2	14	0	0	14
296	MEC2110	Mechanics of Solids	4	89	5	0	94
297	MEC2120	Kinematics of Machines	3	91	3	0	94
298	MEC2310	Fluid Mechanics-I	4	91	6	2	99
299	MEC2410	Manufacturing Technology-I	4	102	16	1	119
300	MEC2910	Machine Drawing	2	90	1	0	91
301	MEC2920	Fluids Mechanics Lab	2	89	1	0	90
302	MEC2930	Manufacturing Technology Lab-I	1.5	90	0	0	90
303	MEC3110	Machine Design II	4	91	1	2	94
304	MEC3210	Heat & Mass Transfer	4	93	1	1	95
305	MEC3310	Fluid Mechanics II	3	91	16	1	108
306	MEC3410	Industrial Engineering	4	90	1	0	91
307	MEC3910	Heat & Mass Transfer Lab	2	91	0	0	91
308	MEC3920	Machine Design Practice	2	89	0	0	89
309	MEC4110	Mechanical Vibrations	4	97	0	0	97
310	MEC4810	Industrial/Academic Training	0	97	0	0	97
311	MEC4910	Project (Phase I)	3	97	0	0	97
312	MEC4930	Manufacturing Technology Lab-III	2	97	0	0	97
313	MEC4940	Vibrations Lab.	2	97	0	0	97
314	MEC4950	Energy Conversion Systems Lab	2	97	0	0	97
315	MEE4130	Introduction to Composites	4	14	0	0	14
316	MEE4230	Refrigeration & Air Conditioning	4	38	1	0	39
317	MEE4240	Automotive Engineering	4	31	0	0	31
318	MEE4340	Applied Comp. Fluid Dynamics	4	17	0	0	17
319	MEE4410	Powder Metallurgy	4	49	0	0	49
320	MEE4420	Operations Research	4	38	0	0	38
321	MEH3450	Engineering Economy & Management	4	104	1	0	105
322	MEH4810	Colloquium	2	97	0	0	97
323	MEO4230	Air Pollution Technology	4	31	0	0	31
324	MEO4420	Total Quality Management	4	15	0	0	15
325	PK211	Basic Principles of Chemical Engg.	4	1	2	0	3
326	PK214	Reaction Kinetics & Reactor Design	4	0	4	0	4



**ALL COURSES**

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				Mode a	Mode b	Mode c	Total
327	PK231	Chemistry of Hydrocarbons	4	0	2	0	2
328	PK232	Fluid Mechanis	4	0	3	0	3
329	PK233	Fluid-Particle Operations	4	1	1	0	2
330	PK311N	Petroleum Refining Processes	4	0	1	0	1
331	PK313N	Mass Transfer Operations	4	0	3	0	3
332	PK411	Process Dynamics & Control	4	0	4	0	4
333	PKC2010	Basic Principles of Chemical Engineering	4	16	3	0	19
334	PKC2030	Chemistry of Hydrocarbons	4	14	0	0	14
335	PKC2050	Fluid Mechanics	4	13	2	0	15
336	PKC2070	Reaction Kinetics and Reactor Design	4	13	2	0	15
337	PKC2090	Fluid -Particle Operations	4	14	1	0	15
338	PKC3010	Petroleum Refining Processes	4	16	0	0	16
339	PKC3030	Heat Transfer Operations	4	16	0	0	16
340	PKC3050	Mass Transfer Operations	4	16	0	0	16
341	PKC3070	Refinery Engineering Calculations	4	16	1	0	17
342	PKC3910	Computer Applications Laboratory	2	16	1	0	17
343	PKC4010	Process Dynamics and Control	4	16	0	0	16
344	PKC4030	Plant Design & Economics	4	16	0	0	16