

## LIST OF COURSES REGISTERED BY THE STUDENTS (Updated on 12-03-2022)

M.Tech./M.Arch, Odd Semester, 2021-22

## ALL COURSES

S.No.	Crs. No.	Course Title	Credits	POPULATION			
				Mode a	Mode b	Mode c	Total
1	AIC6750	Artificial Intelligence	4	3	0	0	3
2	AIC6760	Machine Learning	4	3	0	0	3
3	AIC6770	Research Methodology	4	3	0	0	3
4	AIC7821	Seminal-II	2	7	0	0	7
5	AIC7921	Dissertation Phase-I	14	7	0	0	7
6	AIE6180	Artificial Neural Networks	4	3	1	0	4
7	AIE6370	Natural Language Processing	4	3	0	0	3
8	AMS6110	Applied Engineering Mathematics	4	43	2	0	45
9	AMS6210	Advanced Mathematics	3	54	0	0	54
10	AMS6310	Engineering Mathematics & Computation	4	20	1	0	21
11	AMS6320	Advanced Engineering Mathematics	3	29	0	0	29
12	AMS6410	Advanced Mathematics	4	5	0	0	5
13	AMS6510	Advanced Mathematics	4	19	1	0	20
14	AMS6610	Numerical & Statistical Techniques	4	17	0	0	17
15	APC6110	Introduction to Materials Science	4	11	0	0	11
16	APC6130	Synthesis and Characterization of Materials	3	11	0	0	11
17	APC6140	Thermodynamics and Kinetics of Materials	4	11	0	0	11
18	APC6910	Lab-1	2	11	0	0	11
19	APC7911	Dissertation Phase-I	4	1	0	0	1
20	APE6560	Electronic, Photonic and Magnetic Materials	4	11	0	0	11
21	APE7100	Advances in Spintronics	4	1	0	0	1
22	APS6120	Quantum Mechanics	4	11	0	0	11
23	ARC6010	Contemporary Architecture: Theories and Trends	4	9	0	0	9
24	ARC6030	Ecology and Sustainable Development	4	9	0	0	9
25	ARC6050	Urban Design	4	9	0	0	9
26	ARC6610	Architectural Design Studio-I	6	9	0	0	9
27	ARC6910	Computer Application in Architecture	4	9	0	0	9
28	ARC6930	Special Study-I	3	9	0	0	9
29	ARC7610	Architectural Design Studio- III	6	9	1	0	10
30	ARC7950	Preliminary Dissertation	6	9	0	0	9
31	ARC7960	Dissertation	14	0	8	0	8
32	ARE7030	Construction Project Management	4	9	0	0	9
33	BMC7810	Seminar-II	2	0	1	0	1
34	BMC7820	Pre-Dissertation Seminar	2	0	1	0	1
35	BMC7920	Dissertation Phase-I	14	0	1	0	1
36	BMC7930	Dissertation Phase-II	16	0	1	0	1
37	CE781H	Preliminary Dissertation Seminar	3	0	1	0	1
38	CEC6010	Theory of Elasticity & Plasticity	4	17	0	0	17
39	CEC6020	Advanced Structural Analysis	4	17	1	0	18

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40	CEC6050	Hydraulic Structures	4	16	0	0	16
41	CEC6060	Advanced Engineering Hydrology	4	16	0	0	16
42	CEC6110	Physico- Chemical Treatment Processes	4	17	0	0	17
43	CEC6120	Air Pollution and Control	4	17	0	0	17
44	CEC6150	Advanced Foundation Engineering	4	10	1	0	11
45	CEC6160	Earth and Earth Retaining Structures	4	10	1	0	11
46	CEC6210	Geotechnical Earthquake Engineering	4	12	0	0	12
47	CEC6280	Earthquake Resistant Design of Structures	4	12	0	0	12
48	CEC6911	Advanced Construction Material Testing Lab	2	17	0	0	17
49	CEC6921	Computational Lab	2	16	1	0	17
50	CEC6931	Environmental Analysis Lab.	2	17	0	0	17
51	CEC6941	Geotechnical Engineering Lab	2	10	0	0	10
52	CEC6951	Computational Lab	2	12	0	0	12
53	CEC7812	Pre-Dissertation Seminar	2	0	9	0	9
54	CEC7822	Pre-Dissertation Seminar	2	0	4	0	4
55	CEC7832	Pre-Dissertation Seminar	2	0	5	0	5
56	CEC7842	Pre-Dissertation Seminar	2	0	3	0	3
57	CEC7911	Dissertation Phase-I	6	17	0	0	17
58	CEC7912	Dissertation Phase-II	16	0	9	0	9
59	CEC7921	Dissertation Phase-I	6	18	0	0	18
60	CEC7922	Dissertation Phase-II	16	0	4	0	4
61	CEC7931	Dissertation Phase-I	6	18	0	0	18
62	CEC7932	Dissertation Phase-II	16	0	5	0	5
63	CEC7941	Dissertation Phase-I	6	12	0	0	12
64	CEC7942	Dissertation Phase-II	16	0	3	0	3
65	CEC7951	Dissertation Phase-I	6	12	0	0	12
66	CEE6210	Advance Concrete Design	4	9	2	0	11
67	CEE6220	Tall Building	4	8	0	0	8
68	CEE6230	Plates and Shells	4	8	1	0	9
69	CEE6280	Earthquake Resistant Design of Structures	4	9	0	0	9
70	CEE6310	Rigid Dam	4	16	0	0	16
71	CEE6320	Earth and Rock fill Dams	4	26	0	0	26
72	CEE6410	Environmental Chemistry	4	17	0	0	17
73	CEE6460	Ecology & Environmental Microbiology	4	17	0	0	17
74	CEE6540	Advanced Rock Engineering	4	10	0	0	10
75	CEE6640	Seismic Evaluation and Retrofitting of Structures	4	12	0	0	12
76	CEE6670	Landslide Hazard Assesement and Mitigation	4	6	0	0	6
77	CEE6680	Flood Estimation Forecasting and Control	4	6	0	0	6
78	CEO7110	Construction Planning and Management	4	37	0	0	37
79	CEO7120	Flow through Porous Media	4	21	0	0	21
80	CEO7330	Water Reclamation and Reuse	4	33	0	0	33

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				Mode a	Mode b	Mode c	Total
81	CES6100	Applied Numerical Methods	4	29	0	0	29
82	CHC6020	Process Modeling and Simulation	4	14	0	0	14
83	CHC6030	Advanced Transport Phenomena	4	14	0	0	14
84	CHC6040	Selected Topics in Heat and Mass Transfer Operations	4	14	0	0	14
85	CHC6911	Design and Simulation Lab	2	14	0	0	14
86	CHC7812	Pre-Dissertation Seminar	2	0	4	0	4
87	CHC7911	Dissertation Phase-I	4	3	0	0	3
88	CHC7912	Dissertation Phase-II	16	0	4	0	4
89	CHE6620	Chemical Engineering Simulations	3	14	0	0	14
90	CHE6710	Chemical Engineering for Sustainable Development	3	14	0	0	14
91	CHO7030	Waste to Energy	4	20	0	0	20
92	CHS6010	Mathematical Methods in Chemical Engineering	3	14	0	0	14
93	COC6010	Software Engineering Process & Methods	4	17	0	0	17
94	COC6020	Software Modeling and Design	4	17	0	0	17
95	COC6911	Software Tools & Technology Lab	2	17	0	0	17
96	COC7812	Pre-Dissertation Seminar	2	0	3	0	3
97	COC7911	Dissertation Phase-I	8	14	0	0	14
98	COC7912	Dissertation Phase-II	14	0	3	0	3
99	COE6200	Artificial Intelligence	4	16	0	0	16
100	COE6220	Digital System Design	4	1	0	0	1
101	COE6230	Machine Learning	4	15	0	0	15
102	COO6510	Internet Tools and Technology	4	12	0	0	12
103	EE791I	Lab/Project	3	0	1	0	1
104	EE798P	Dissertation	10	0	1	0	1
105	EEC6010	Optimal Control System	4	17	0	0	17
106	EEC6020	Digital Instrumentation	4	17	0	0	17
107	EEC6130	Solar Photovoltaic Systems	4	10	0	0	10
108	EEC6140	Wind and Small Hydro Power Systems	4	10	0	0	10
109	EEC6210	Advanced Electric Drives -I	4	17	0	0	17
110	EEC6220	Power Apparatus and System Modelling	4	17	0	0	17
111	EEC6260	Advanced Power Electronics	4	27	0	0	27
112	EEC6410	Insulation System	4	10	0	0	10
113	EEC6420	High Voltage Generation and Measurement	4	10	0	0	10
114	EEC6911	Laboratory I	2	17	0	0	17
115	EEC6921	Laboratory I	2	17	0	0	17
116	EEC6931	Laboratory I	2	10	0	0	10
117	EEC6941	Laboratory I	2	10	0	0	10
118	EEC7812	Pre-Dissertation Seminar	2	0	5	0	5
119	EEC7822	Pre-Dissertation Seminar	2	0	2	0	2
120	EEC7832	Pre-Dissertation Seminar	2	0	4	0	4
121	EEC7911	Dissertation Phase-I	8	14	0	0	14

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122	EEC7912	Dissertation Phase-II	16	0	5	0	5
123	EEC7921	Dissertation Phase-I	8	16	0	0	16
124	EEC7922	Dissertation Phase-II	16	0	2	0	2
125	EEC7931	Dissertation Phase-I	8	8	0	0	8
126	EEC7932	Dissertation Phase-II	16	0	4	0	4
127	EEC7941	Dissertation Phase-I	8	7	0	0	7
128	EEE6060	Stochastic Processes	4	17	0	0	17
129	EEE6090	Bio Instrumentation	4	17	0	0	17
130	EEE6130	Solar Photovoltaic Systems	4	8	0	0	8
131	EEE6230	Power System Analysis	4	13	0	0	13
132	EEE6360	Power Quality	4	17	0	0	17
133	EEE6570	Insulation Tech.for Super Conductors	4	9	0	0	9
134	EEO6640	Solar Energy Conversion	4	39	0	0	39
135	ELC6100	Nano- Electronic Devices	4	16	0	0	16
136	ELC6110	Analog Circuit Design	4	16	1	0	17
137	ELC6500	Communication Theory	4	3	0	0	3
138	ELC6510	Information and Coding Theory	4	4	0	0	4
139	ELC6811	Seminar	2	16	0	0	16
140	ELC6821	Seminar	2	3	0	0	3
141	ELC6911	Laboratory I	2	16	0	0	16
142	ELC6921	Laboratory I	2	4	0	0	4
143	ELC6929	Project	4	0	2	0	2
144	ELC7812	Pre-Dissertation Seminar	2	1	2	0	3
145	ELC7822	Pre-Dissertation Seminar	2	0	5	0	5
146	ELC7911	Dissertation Phase-I	6	9	0	0	9
147	ELC7912	Dissertation Phase-II	14	1	2	0	3
148	ELC7921	Dissertation Phase-I	6	3	0	0	3
149	ELC7922	Dissertation Phase-II	14	0	5	0	5
150	ELE6130	Integrated Filter Design	4	16	0	0	16
151	ELE6150	RF Circuits and Systems	4	0	1	0	1
152	ELE6420	Speech Processing	4	3	0	0	3
153	ELE6620	High Speed Communication Networks	4	19	0	0	19
154	EZO7230	Intellectual Property Rights and Entrepreneurship	4	36	0	0	36
155	MEC6110	Industrial Automation	4	9	1	0	10
156	MEC6120	Introduction to Robotics	4	9	1	0	10
157	MEC6210	Operations Management	4	20	0	0	20
158	MEC6250	Metal Cutting Analysis	4	20	0	0	20
159	MEC6310	Advanced Mechanics of Solids	4	20	2	0	22
160	MEC6330	Advanced Design of Mechanical Systems	3	20	0	0	20
161	MEC6380	Advanced Dynamics	4	20	1	0	21
162	MEC6410	Advance Thermodynamics and Combustion	4	20	1	1	22

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163	MEC6430	Advanced Conduction and Radiation Heat Transfer	4	20	4	0	24
164	MEC6450	Advanced Fluid Dynamics	4	20	4	0	24
165	MEC6911	Robotics Software Lab	2	9	1	0	10
166	MEC6921	Production Engineering Lab	2	20	1	0	21
167	MEC6931	Computational Mechanics Lab	2	20	0	0	20
168	MEC6941	Simulation Lab	2	20	1	0	21
169	MEC7822	Pre-Dissertation Seminar	2	0	1	0	1
170	MEC7832	Pre-Dissertation Seminar	2	0	4	0	4
171	MEC7842	Pre-Dissertation Seminar	2	1	4	0	5
172	MEC7911	Dissertation Phase-I	4	5	0	0	5
173	MEC7921	Dissertation Phase-I	4	18	0	0	18
174	MEC7922	Dissertation Phase-II	16	0	1	0	1
175	MEC7923	Ergonomics and Data Analytics Lab	2	17	0	0	17
176	MEC7931	Dissertation Phase-I	4	20	0	0	20
177	MEC7932	Dissertation Phase-II	16	0	4	0	4
178	MEC7941	Dissertation Phase-I	4	15	0	0	15
179	MEC7942	Dissertation Phase-II	16	1	4	0	5
180	MEE6160	Embedded Systems	4	9	1	0	10
181	MEE6620	Refrigeration & Cryogenics	4	10	0	0	10
182	MEE6710	Advanced Fracture Mechanics	4	10	0	0	10
183	MEE6720	Tribology	4	10	0	0	10
184	MEE6740	Theory of Plates & Shells	4	9	0	0	9
185	MEE6790	Experimental Stress Analysis	4	10	0	0	10
186	MEE7130	Virtual Instrumentation	4	5	0	0	5
187	MEE7210	Facility Planning and Plant Engineering	3	10	0	0	10
188	MEE7510	Welding Science	3	17	0	0	17
189	MEE7590	Foundry Technology	3	10	0	0	10
190	MEE7680	Computational Methods in Thermal & Fluid Engg.	4	4	0	0	4
191	MEO7120	Machine Learning	4	17	0	0	17
192	MES6260	Probability & Statistics	3	20	0	0	20
193	MES6400	Advanced Numerical Methods	4	49	0	0	49
194	NTC6100	Fundamental of Nanotechnology	4	14	0	0	14
195	NTC6140	Synthesis and Characterization of Nanomaterials	4	14	0	0	14
196	NTC6900	Lab I	2	14	0	0	14
197	NTC7812	Pre- Dissertation Seminar	2	0	3	0	3
198	NTC7911	Dissertation Phase-I	7	14	0	0	14
199	NTC7912	Dissertation Phase- II	16	0	4	0	4
200	NTE6120	Physics & Chemistry of Solids	4	14	0	0	14
201	NTE7200	Carbon Nanotubes and its Functionalization	4	14	0	0	14
202	NTO7270	Graphene and its Applications	4	15	0	0	15
203	NTS6110	Quantum Mechanics	4	14	0	0	14

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				Mode a	Mode b	Mode c	Total
204	PK798P	Dissertation	10	0	1	0	1
205	PKC6010	Advance Transport Phenomena	4	5	0	0	5
206	PKC6020	Petroleum Processing -I	3	5	0	0	5
207	PKC6030	Petroleum Processing -II	3	5	0	0	5
208	PKC6911	Petroleum Laboratory	2	5	0	0	5
209	PKC7812	Pre-Dissertation Seminar	2	0	5	0	5
210	PKC7911	Dissertation Phase-I	6	6	0	0	6
211	PKC7912	Dissertation Phase-II	14	0	5	0	5
212	PKE6110	Advance Separation Processes	4	5	0	0	5
213	PKE6170	Polymers & Composites	4	5	0	0	5