

ZAKIR HUSAIN COLLEGE OF ENGINEERING & TECHNOLOGY

LIST OF REGISTERED COURSES (Updated on 21 May, 2022)

M.Tech./M.Arch., Even semester, 2021-22

ALL BRANCHES

S.No.	Course No.	Course Title	Categ.	Credit.	Mode a	Mode b	Mode c	Total
1	CE782H	Final Dissertation Seminar	DC	2	0	1	0	1
2	CE798H	Dissertation	DC	10	0	1	0	1
3	EE782I	Final Dissertation Seminar	DC	2	0	2	0	2
4	EE798I	Dissertation	DC	10	0	2	0	2
5	CH782P	Final Dissertation Seminar	DC	2	0	1	0	1
6	CH798P	Dissertation	DC	10	0	1	0	1
7	BMC7820	Pre-Dissertation Seminar	PC	2	1	0	0	1
8	BMC7930	Dissertation Phase-II	PC	16	1	0	0	1
9	CEC7812	Pre-Dissertation Seminar	PC	2	16	2	0	18
10	CEC7912	Dissertation Phase-II	PC	16	16	2	0	18
11	CEC6912	Computational Lab.	PC	2	17	1	0	18
12	EEC7822	Pre-Dissertation Seminar	PC	2	9	1	0	10
13	EEC7922	Dissertation Phase-II	PC	16	9	1	0	10
14	ELC7812	Pre-Dissertation Seminar	PC	2	8	1	0	9
15	ELC7912	Dissertation Phase-II	PC	14	8	1	0	9
16	AIC7822	Pre-Dissertation Seminar	PC	2	5	0	0	5
17	AIC7922	Dissertation Phase-II	PC	16	5	0	0	5
18	APC7812	Pre-Dissertation Seminar	PC	2	1	0	0	1
19	APC7912	Dissertation Phase-II	PC	16	1	0	0	1
20	ARC7960	Dissertation	DC	14	4	0	0	4
21	BME6310	Artificial Intelligence and Neural Networks	PE	4	0	1	0	1
22	BMC6900	Laboratory	PC	2	0	1	0	1
23	BMC6810	Seminar-I	PC	2	0	1	0	1
24	BMC6910	Pre-Dissertation	PC	10	0	1	0	1
25	CEC7852	Pre-Dissertation Seminar	PC	2	10	0	0	10
26	CEC7952	Dissertation Phase-II	PC	16	10	0	0	10
27	CEC7832	Pre-Dissertation Seminar	PC	2	12	0	0	12
28	CEC7932	Dissertation Phase-II	PC	16	12	0	0	12

S.No.	Course No.	Course Title	Categ.	Credit.	Mode a	Mode b	Mode c	Total
29	CEC7842	Pre-Dissertation Seminar	PC	2	8	0	0	8
30	CEC7942	Dissertation Phase-II	PC	16	8	0	0	8
31	CEC6170	Dynamics of Soils and Foundations	PC	4	10	1	0	11
32	CEC6180	Ground Improvement and Geosynthetics	PC	4	10	1	0	11
33	CEE6570	Pavement Analysis and Design	PE	4	5	1	0	6
34	CEE6040	Finite Element Analysis	PE	4	10	1	0	11
35	CEC6942	Computational Lab	PC	2	10	1	0	11
36	CEC6949	Project	PC	4	10	1	0	11
37	CEC7822	Pre-Dissertation Seminar	PC	2	16	0	0	16
38	CEC7922	Dissertation Phase-II	PC	16	16	0	0	16
39	CHC7812	Pre-Dissertation Seminar	PC	2	3	0	0	3
40	CHC7912	Dissertation Phase-II	PC	16	3	0	0	3
41	CHC6911	Design and Simulation Lab	PC	2	0	1	0	1
42	COC7812	Pre-Dissertation Seminar	PC	2	4	0	0	4
43	COC7912	Dissertation Phase-II	PC	14	4	0	0	4
44	EEC7832	Pre-Dissertation Seminar	PC	2	8	0	0	8
45	EEC7932	Dissertation Phase-II	PC	16	8	0	0	8
46	EEC7812	Pre-Dissertation Seminar	PC	2	11	0	0	11
47	EEC7912	Dissertation Phase-II	PC	16	11	0	0	11
48	EEC7842	Pre-Dissertation Seminar	PC	2	6	0	0	6
49	EEC7942	Dissertation Phase-II	PC	16	6	0	0	6
50	ELC7822	Pre-Dissertation Seminar	PC	2	3	0	0	3
51	ELC7922	Dissertation Phase-II	PC	14	3	0	0	3
52	ELC7911	Dissertation Phase-I	PC	6	1	0	0	1
53	MEC7832	Pre-Dissertation Seminar	PC	2	15	0	0	15
54	MEC7932	Dissertation Phase-II	PC	16	15	0	0	15
55	MEC7822	Pre-Dissertation Seminar	PC	2	16	0	0	16
56	MEC7922	Dissertation Phase-II	PC	16	16	0	0	16

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57	MEC6922	Artificial Intelligence and Operations Research Lab	PC	2	20	1	0	21
58	MEC7812	Pre-Dissertation Seminar	PC	2	3	0	0	3
59	MEC7912	Dissertation Phase-II	PC	16	3	0	0	3
60	MEC7842	Pre-Dissertation Seminar	PC	2	13	0	0	13
61	MEC7942	Dissertation Phase-II	PC	16	13	0	0	13
62	NTC7812	Pre- Dissertation Seminar	PC	2	12	0	0	12
63	NTC7912	Dissertation Phase- II	PC	16	12	0	0	12
64	PKC7812	Pre-Dissertation Seminar	PC	2	6	0	0	6
65	PKC7912	Dissertation Phase-II	PC	14	6	0	0	6
66	AIC6921	Artificial Intelligence Laboratory	PC	2	3	0	0	3
67	AIC6822	Seminar- I	PC	2	3	0	0	3
68	AIC6922	Pre- Dissertation	PC	10	3	0	0	3
69	APC6150	Physics of Semiconductor Devices	PC	4	11	0	0	11
70	APC6160	Nanostructured Materials	PC	4	11	0	0	11
71	APC6920	Lab-II	PC	2	11	0	0	11
72	APC6930	Project	PC	4	11	0	0	11
73	ARC6020	Performance Evaluation of Buildings	DC	4	9	0	0	9
74	ARC6040	Architecture and Urban Conservation	DC	4	9	0	0	9
75	ARC6060	Research Methodology	DC	4	9	0	0	9
76	ARC6620	Architectural Design Studio- II	DC	6	9	0	0	9
77	ARC6940	Special Study-II	DC	3	9	0	0	9
78	CEC6030	Structural Dynamics	PC	4	29	0	0	29
79	CEC6290	Disaster Mitigation and Management	PC	4	12	0	0	12
80	CEC6952	Advanced Dynamics Lab	PC	2	12	0	0	12
81	CEC6959	Project	PC	4	12	0	0	12
82	CEE6710	Structure Health Monitoring	PE	4	12	0	0	12
83	CEE6740	Climate Change and Sustainable Development	PE	4	12	0	0	12
84	CEC6130	Biological Treatment Processes	PC	4	17	0	0	17

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85	CEC6140	Solid and Hazardous Waste Management	PC	4	17	0	0	17
86	CEC6932	Environmental Engg. Processes Lab.	PC	2	17	0	0	17
87	CEC6939	Project	PC	4	17	0	0	17
88	CEE6420	Design of Water and Wastewater Treatment Plants	PE	4	17	0	0	17
89	CEE6450	Industrial Wastewater Management	PE	4	17	0	0	17
90	CEE6530	Tunnelling and Underground Construction	PE	4	5	0	0	5
91	CEC6070	Advanced Open Channel Hydraulics	PC	4	16	0	0	16
92	CEC6080	Fluvial Hydraulics	PC	4	16	0	0	16
93	CEC6922	Advanced Hydraulics Lab	PC	2	16	0	0	16
94	CEC6929	Project	PC	4	16	0	0	16
95	CEE6350	Hydropower Engineering	PE	4	16	0	0	16
96	CEE6370	Water Resources Engineering	PE	4	16	0	0	16
97	CEC6040	Finite Element Analysis	PC	4	17	0	0	17
98	CEC6919	Project	PC	4	17	0	0	17
99	CEE6250	Advanced Steel Design	PE	4	6	0	0	6
100	CEE6290	Disaster Mitigation and Management	PE	4	16	0	0	16
101	CEE6270	Advanced Construction Materials	PE	4	10	0	0	10
102	CHS6050	Numerical Methods in Chemical Engg.	ES	3	10	0	0	10
103	CHC6060	Chemical Reactor Analysis and Design	PC	4	10	0	0	10
104	CHC6070	Process Dynamic and Control	PC	4	10	0	0	10
105	CHC6912	Advanced Chemical Engineering Lab.	PC	2	10	0	0	10
106	CHC6919	Project	PC	4	10	0	0	10
107	CHE6700	Cleaner Production	PE	3	10	0	0	10
108	CHE6490	Modelling and Simulation of Separation Processes	PE	3	10	0	0	10
109	COC6030	Software Verification & Testing	PC	4	16	0	0	16
110	COC6912	Software Engineering Lab	PC	2	16	0	0	16
111	COC6919	Project	PC	4	16	0	0	16
112	COE6250	Big Data Analytics	PE	4	9	0	0	9

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113	COE6260	Image Processing & Computer Vision	PE	4	14	0	0	14
114	COE6160	Web Mining and Searching	PE	4	12	0	0	12
115	COE6270	Internet of Things	PE	4	10	0	0	10
116	EEC6430	High Voltage Testing Techniques	PC	4	10	0	0	10
117	EEC6440	Condition Monitoring of P.S Apparatus	PC	4	10	0	0	10
118	EEC6939	Project	PC	3	10	0	0	10
119	EEC6932	Laboratory II	PC	2	10	0	0	10
120	EEE6380	FACTS Devices	PE	4	30	0	0	30
121	EEE6600	Partial Discharges in Power Apparatus	PE	4	9	0	0	9
122	EEE6760	Artificial Intelligence and Neural Networks	PE	4	21	0	0	21
123	EEC6030	Identification & Estimation	PC	4	17	0	0	17
124	EEC6929	Project	PC	3	17	0	0	17
125	EEC6922	Laboratory II	PC	2	17	0	0	17
126	EEE6730	Instrumentation for Solar Energy System	PE	4	27	0	0	27
127	EEE6440	Condition Monitoring of Power System Apparatus	PE	4	16	0	0	16
128	EEE6110	Micro Electromechanical System (MEMS)	PE	4	9	0	0	9
129	EEC6240	Advanced Electric Drives -II	PC	4	17	0	0	17
130	EEC6270	Power System Stability	PC	4	17	0	0	17
131	EEC6919	Project	PC	3	17	0	0	17
132	EEC6912	Laboratory II	PC	2	17	0	0	17
133	EEC6730	Instrumentation for Solar Energy System	PC	4	10	0	0	10
134	EEC6949	Project	PC	3	10	0	0	10
135	EEC6942	Laboratory II	PC	2	10	0	0	10
136	EEE6670	Solar Thermal Systems	PE	4	9	0	0	9
137	ELC6410	Advanced Digital Signal Processing	PC	4	3	0	0	3
138	ELC6922	Laboratory II	PC	2	3	0	0	3
139	ELC6929	Project	PC	4	3	0	0	3
140	ELC6200	Digital Circuit Design	PC	4	16	0	0	16

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141	ELC6912	Laboratory II	PC	2	16	0	0	16
142	ELC6919	Project	PC	4	16	0	0	16
143	MEC6320	Mechanisms	PC	4	20	0	0	20
144	MEC6340	Mechanics of Composite Materials	PC	4	20	0	0	20
145	MEC6932	Stress Analysis and Vibration Lab	PC	2	20	0	0	20
146	MEC6939	Project	PC	3	20	0	0	20
147	MEE7310	Continuum Mechanics	PE	4	9	0	0	9
148	MEE7350	Conditional Monitoring	PE	4	15	0	0	15
149	MEE6370	Finite Element Methods	PE	4	16	0	0	16
150	MEC6240	Advanced Manufacturing Processes	PC	4	20	0	0	20
151	MEC6270	Quality, Reliability and Maintenance	PC	4	20	0	0	20
152	MEC6929	Project	PC	3	20	0	0	20
153	MEE6550	Flexible Manufacturing Systems	PE	4	19	0	0	19
154	MEE6580	Ergonomics	PE	4	19	0	0	19
155	MEC6130	Robots Kinematics & Dynamics	PC	4	9	0	0	9
156	MEC6140	Autonomous Robots	PC	4	9	0	0	9
157	MEC6912	Robotics Hardware Lab	PC	2	9	0	0	9
158	MEC6919	Project	PC	3	9	0	0	9
159	MEC6460	Convective Heat Transfer	PC	4	20	0	0	20
160	MEC6942	Thermo-Fluid Lab.	PC	2	20	0	0	20
161	MEC6949	Project	PC	3	20	0	0	20
162	MEE6690	Advanced I.C. Engines	PE	4	9	0	0	9
163	MEE7630	Solar Thermal Energy	PE	4	9	0	0	9
164	MEE6650	Sustainable and Renewable Energy Systems	PE	4	18	0	0	18
165	MEE6420	Multiphase Flows	PE	4	13	0	0	13
166	MEE6640	Turbulent Flows	PE	4	5	0	0	5
167	NTC6150	Nanobiotechnology	PC	4	15	0	0	15
168	NTC6160	Properties of Nanomaterials	PC	4	15	0	0	15

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169	NTC6929	Project	PC	3	15	0	0	15
170	NTC6910	Lab II	PC	2	15	0	0	15
171	PKC6040	Reactor Analysis and Design	PC	4	5	0	0	5
172	PKC6050	Petrochemical Processes	PC	4	5	0	0	5
173	PKC6912	Petrochemical Laboratory	PC	2	5	0	0	5
174	PKC6919	Project	PC	4	5	0	0	5