

SN	Course Name	Course Code	Credits	Total Credits
1	SIGNALS, SYSTEMS & NETWORKS	EE200A	3-1-0-0	11
2	INTRODUCTION TO ELECTRONICS	ESC201A	3-1-3-0	14
3	INTRODUCTION TO ELECTRONICS LAB	ESC201P	0-0-3-0	3
4	INTRODUCTION TO ELECTRONICS	ESC201T	3-1-0-0	11
5	INTRODUCTION TO ELECTRICAL ENGINEERING	ESO203A	3-1-2-0	13
6	INTRODUCTION TO ELECTRICAL ENGINEERING LAB	ESO203P	0-0-2-0	2
7	ANALOG ELECTRONICS	EE210A	3-1-0-0	11
8	CONTROL SYSTEMS ANALYSIS	EE250A	3-1-0-0	11
9	DIGITAL SIGNAL PROCESSING	EE301A	3-0-0-0	9
10	MICROELECTRONICS II	EE311A	3-0-0-0	9
11	PRINCIPLES OF COMMUNICATION	EE 320A	3-1-0-0	11
12	COMMUNICATION SYSTEMS	EE321A	3-0-0-0	9
13	POWER SYSTEMS	EE330A	3-1-0-0	11
14	ELECTROMAGNETIC THEORY	EE340A	3-1-0-0	11
15	POWER ELECTRONICS	EE360A	3-0-0-0	9
16	DIGITAL ELECTRONICS	EE370 A	3-1-0-0	11
17	ELECTRICAL ENGINEERING LAB I	EE380A	0-2-6-0	12
18	ELECTRICAL ENGINEERING LABORATORY -II	EE381A	0-3-6-0	12
19	ELECTRICAL ENGINEERING COMMUNICATION SKILLS	EE390A	0-0-2-0	2
20	ELECTRICAL ENGINEERING UNDER GRADUATE PROJECT I	EE391A	0-0-2-0	4
21	UNDER GRADUATE PROJECT II	EE392A	0-0-0-0	9
22	ELECTRICAL ENGINEERING UNDER GRADUATE PROJECT III	EE395A	0-0-0-0	9
23	ELECTRICAL ENGINEERING COMMUNICATION SKILLS	EE399A	0-0-0-2	2
24	OPTO-ELECTRONICS	EE416A	3-0-0-0	9
25	ANTENNAS AND PROPAGATION	EE442A	3-0-0-0	9
26	TRANSDUCERS AND INSTRUMENTATION	EE455	3-0-0-0	4
27	ELECTRICAL ENGINEERING LAB I	EE480A	0-2-6-0	10
28	ELECTRICAL ENGINEERING LABORATORY -II	EE481A	0-3-6-0	6
29	UNDER GRADUATE PROJECT -III	EE491A	0-0-0-0	9
30	UNDER GRADUATE PROJECT-IV	EE492A	0-0-0-0	9
31	MATHEMATICAL STRUCTURES OF SIGNALS & SYSTEMS	EE600A	3-0-0-0	9
32	MATHEMATICAL METHODS IN SIGNAL PROCESSING	EE601A	3-0-0-0	9
33	STATISTICAL SIGNAL PROCESSING -I	EE602A	3-0-0-0	9
34	MACHINE LEARNING FOR SIGNAL PROCESSING	EE603A	3-0-0-0	9
35	IMAGE PROCESSING	EE604A	3-0-0-0	9
36	INTRODUCTION TO SIGNAL ANALYSIS	EE605A	3-0-0-0	9
37	OPTIMIZATION FOR BIG DATA	EE606A	3-0-0-0	9
38	WAVELET TRANSFORMS FOR SIGNAL & IMAGE PROCESSING	EE607A	3-0-0-0	9
39	DIGITAL VIDEO SIGNAL PROCESSING	EE608A	3-0-0-0	9
40	CONVEX OPTIMIZATION IN SIGNAL PROCESSING AND COMMUNICATIONS	EE609A	3-0-0-0	9
41	ANALOG/DIGITAL VLSI CIRCUITS	EE610A	3-0-0-0	9
42	ORGANIC ELECTRONICS	EE611A	3-0-3-0	12
43	FIBER OPTIC SYSTEMS I	EE612A	3-0-0-0	9
44	HIGH FREQUENCY ANALOG CIRCUIT DESIGN	EE613A	3-0-0-0	9
45	SOLID STATE DEVICES I	EE614A	3-0-0-0	9
46	SOLAR PHOTOVOLTAIC TECHNOLOGIES	EE615A	3-0-0-0	9
47	SEMICONDUCTOR DEVICE MODELLING	EE616A	3-0-0-0	9
48	INDUSTRIAL AUTOMATION AND CONTROL	EE617A	3-0-0-0	9
49	INTEGRATED CIRCUIT FABRICATION TECHNOLOGY	EE618A	3-0-0-0	9
50	VLSI SYSTEM DESIGN	EE619A	3-0-0-0	9
51	OPTICAL COHERENT IMAGING	EE620A	3-0-0-0	9
52	REPRESENTATION AND ANALYSIS OF RANDOM SIGNALS	EE621A	3-0-0-0	9
53	DETECTION & ESTIMATION THEORY	EE623A	3-0-0-0	9
54	INFORMATION AND CODING THEORY	EE624A	3-0-0-0	9
55	TOPICS IN STOCHASTIC PROCESSES	EE626A	3-0-0-0	9
56	SPEECH SIGNAL PROCESSING	EE627A	3-0-0-0	9
57	TOPICS IN CRYPTOGRAPHY AND CODING	EE628	3-0-0-0	4
58	DIGITAL SWITCHING	EE629A	3-0-0-0	9
59	SIMULATON OF MODERN POWER SYSTEMS	EE630A	3-0-0-0	9

60	ADVANCED POWER SYSTEM STABILITY	EE631A	3-0-0-0	9
61	ECONOMIC OPERATION & CONTROL OF POWER SYSTEMS	EE632A	3-0-0-0	9
62	ELECTRIC POWER SYSTEM OPERATION AND MGMT. UNDER RESTRUCTURED ENVIRONMENT	EE633A	3-0-0-0	9
63	ELECTRICAL INSULATION IN POWER APPARATUS AND SYSTEMS	EE634A	3-0-0-0	9
64	HVDC TRANSMISSION & FLEXIBLE A C TRANSMISSION SYSTEMS	EE635A	3-0-0-0	9
65	ADVANCED PROTECTIVE RELAYING	EE636A	3-0-0-0	9
66	SYNCHROPHASOR TECHNOLOGY AND ITS APPLICATIONS	EE637 A	3-0-0-0	9
67	ADVANCED RF ANTENNAS	EE638A	3-0-0-0	9
68	NONLINEAR FIBER OPTICS	EE639A	3-0-0-0	9
69	COMPUTATIONAL ELECTROMAGNETICS	EE640A	3-0-0-0	9
70	ADVANCED ENGINEERING ELECTROMAGNETICS	EE641A	3-0-0-0	9
71	ANTENNAS ANALYSIS & SYNTHESIS	EE642A	3-0-0-0	9
72	SMART ANTENNAS FOR MOBILE COMMUNICATION	EE643A	3-0-0-0	9
73	ELECTROMAGNETIC INTERFERENCE AND COMPATIBILITY TECHNIQUES	EE644A	3-0-0-0	9
74	MONOLITHIC MICROWAVE ICS	EE645A	3-0-0-0	9
75	PHOTONIC NETWORKS & SWITCHING	EE646A	3-0-0-0	9
76	MICROWAVE MEASUREMENTS AND DESIGN	EE647A	2-0-3-0	9
77	MICROWAVE CIRCUITS	EE648A	3-0-0-0	9
78	THE FINITE ELEMENT METHOD FOR ELECTRIC AND MAGNETIC FIELDS	EE649A	3-0-3-0	12
79	BASICS OF MODERN CONTROL SYSTEMS	EE650A	3-0-0-0	9
80	NONLINEAR SYSTEMS	EE651A	3-0-0-0	9
81	DIGITAL CONTROL	EE653A	3-0-0-0	9
82	ROBUST CONTROL SYSTEMS	EE654A	3-0-0-0	9
83	COMPUTER VISION AND DEEP LEARNING	EE655A	3-0-0-0	9
84	ARTIFICIAL INTELLIGENCE MACHINE LEARNING DEEP LEARNING & ITS APPLICATIONS	EE656A	3-0-3-0	12
85	KALMAN FILTERING & APPLICATIONS	EE657 A	3-0-0-0	9
86	FUZZY SET LOGIC & SYSTEMS & APPLICATIONS	EE658A	3-0-3-0	9
87	COMPUTATIONAL ASPECTS OF TOMOGRAPHIC IMAGING : MODELS TO INVERSIONS	EE659A	3-0-0-0	9
88	BASICS OF POWER ELECTRONIC CONVERTERS	EE660A	3-0-3-0	12
89	POWER ELECTRONICS APPLICATIONS IN POWER SYSTEMS	EE661A	3-0-0-0	9
90	CONTROL TECHNIQUES IN POWER ELECTRONICS	EE662A	3-0-3-0	9
91	FUNDAMENTALS OF ELECTRIC DRIVES	EE664A	3-0-0-0	9
92	ADVANCED ELECTRIC DRIVES	EE665A	3-0-3-0	9
93	SPECIAL TOPICS IN POWER ELECTRONICS	EE666A	3-0-0-0	9
94	INFORMATION THEORY	EE667A	3-0-3-0	9
95	CODING THEORY	EE668A	3-0-3-0	9
96	SIMULATION OF COMMUNICATION SYSTEMS	EE669A	3-0-0-0	9
97	WIRELESS COMMUNICATIONS	EE670A	3-0-0-0	9
98	NEURAL NETWORKS	EE671A	3-0-0-0	9
99	ANALYSIS OF MODERN WIRELESS NETWORKS	EE672A	3-0-3-0	9
100	DIGITAL COMMUNICATION NETWORKS	EE673A	3-0-0-0	9
101	INTRODUCTION TO REINFORCEMENT LEARNING	EE675A	3-0-3-0	9
102	MIMO WIRELESS COMMUNICATION	EE677A	3-0-3-0	9
103	POWER MANAGEMENT CIRCUITS	EE678A	3-0-0-0	9
104	SMART GRID TECHNOLOGIES	EE679A	3-0-0-0	9
105	INTELLIGENT INSTRUMENTATION	EE680A	2-0-3-0	9
106	COMPACT MODELING	EE681A	3-0-3-0	9
107	GAME THEORY FOR WIRELESS COMMUNICATIONS	EE682	3-0-0-0	4
108	QUANTUM AND WAVE PHENOMENA	EE683A	3-0-0-0	9
109	FIBER-OPTIC COMMUNICATIONS	EE684 A	3-0-3-0	9
110	SEMICONDUCTOR OPTICAL COMMUNICATION DEVICES	EE685A	3-0-0-0	9
111	MICROWAVE IMAGING CHARACTERIZATION AND NONDESTRUCTIVE TESTING	EE686A	3-0-0-0	9
112	MEMORY TECHNOLOGY AND NEUROMORPHIC COMPUTING	EE687A	3-0-3-0	9

113	ANALYSIS & DESIGN OF NETWORKED DYNAMICAL SYSTEMS	EE689A	3-0-3-0	9
114	HIGH FREQUENCY ANALOG CIRCUIT DESIGN	EE698A	3-0-0-0	9
115	SMART GRID TECHNOLOGY APPLICATIONS	EE698B	3-0-3-0	9
116	PEER TO PEER NETWORKS	EE698C	3-0-3-0	9
117	SPECIAL TOPICS IN MICROELECTRONICS	EE698D	3-0-0-0	9
118	POWER CONVERTERS FOR EV CHARGING	EE698E	3-0-0-0	9
119	RF MICROELECTRONICS	EE698F	3-0-0-0	9
120	CIRCUIT DESIGN FOR FREQUENCY & PHASE SYNTHESIS	EE698G	3-0-3-0	9
121	SIMULATION BASED DESIGN OF 4G/5G WIRELESS STANDARDS	EE698H	3-0-0-0	9
122	SOLAR PHOTOVOLTAIC TECHNOLOGIES	EE698I	3-0-0-0	9
123	CONTROL SYSTEMS: PERFORMANCE LIMITATIONS & ORDER REDUCTION	EE698K	3-0-0-0	9
124	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING & ITS APPLICATIONS	EE698L	3-0-0-0	9
125	PHYSICS OF SEMICONDUCTORS & NANOSTRUCTURES	EE698M	3-0-0-0	9
126	INTRODUCTION TO FLEXIBLE ELECTRONICS	EE698N	3-0-3-0	9
127	ANALYSIS OF MODERN WIRELESS NETWORKS	EE698O	3-0-0-0	9
128	MEMORY TECHNOLOGY & NEUROMORPHIC COMPUTING	EE698P	3-0-0-0	9
129	5G WIRELESS TECHNOLOGIES	EE698Q	3-0-0-0	9
130	ADVANCED TOPICS IN MACHINE LEARNING	EE698R	3-0-0-0	9
131	HIGH VOLTAGE POWER TRANSMISSION ENGINEERING	EE698S	3-0-3-0	9
132	CHARGE AND HEAT TRANSPORT IN SEMICONDUCTORS	EE698T	3-0-0-0	9
133	INTRODUCTION TO QUANTUM OPTICS	EE698Y	3-0-3-0	9
134	MACHINE LEARNING FOR WIRELESS COMMUNICATION	EE698Z	3-0-0-0	9
135	INTELLIGENT SYSTEMS & CONTROL	EE705A	3-0-0-0	9
136	QUANTUM PHYSICS OF SEMICONDUCTORS	EE798 G	3-0-3-0	9
137	DIGITAL OPTICAL METROLOGY	EE798H	3-0-3-0	9
138	NANOPHOTONICS	EE798I	3-0-3-0	9
139	PROBABILISTIC MACHINE LEARNING FOR 5G WIRELESS TECHNOLOGY	EE798J	3-0-3-0	9
140	INTEGRATED QUANTUM, STATISTICAL AND INFORMATION MECHANICS	EE798K	3-0-3-0	9
141	MACHINE LEARNING FOR WIRELESS	EE798 L	3-0-3-0	9
142	HIGH POWER CONVERTERS: DESIGN, CONTROL AND POERATION	EE798M	3-0-3-0	9