

#	Course #		Course Title of Existing Courses	Computer	Control	Elect	Power
1	EE	500	Computational Electromagnetics			√	
2	EE	502	Advanced Power System				√
3	EE	504	Advanced High Voltage Engineering				√
4	EE	505	Advanced Techniques of Engineering Analysis	√	√	√	√
5	EE	506	Power Circuit Breakers and Substations				√
6	EE	507	Transients in Power System				√
7	EE	508	Power Transmission System Planning				√
8	EE	509	Power Distribution System Planning				√
9	EE	510	FPGA Based System Design	√	√	√	
10	EE	511	Machine Learning	√			
11	EE	513	Array Signal Processing			√	
12	EE	514	Adaptive Array Signal Processing			√	
13	EE	515	Information Theory			√	
14	EE	516	Error Correcting Codes			√	
15	EE	517	Advanced Microwave Circuits			√	
16	EE	518	Data Compression Techniques	√			
17	EE	521	Radar and Navigation Techniques			√	
18	EE	522	Communication Theory			√	
19	EE	525	Biomedical Signal Processing			√	
20	EE	527	Biomedical Instrumentation			√	
21	EE	528	Antenna Theory and Design			√	
22	EE	529	Remote Sensing Techniques			√	
23	EE	531	Power Electronics Devices			√	√
24	EE	532	Power Electronics Converters			√	√
25	EE	533	Computer Graphics	√			
26	EE	534	Object Oriented Analysis & Design	√			
27	EE	535	Control of DC Machines Drives		√	√	√
28	EE	536	Control of AC Machines Drives		√	√	√
29	EE	537	Power Inverters			√	√
30	EE	552	Graph Theory and Applications	√			
31	EE	556	Database Systems	√			
32	EE	580	Advanced Control Systems		√		
33	EE	581	Optimization Techniques	√	√		√
34	EE	583	Dynamics of Robots		√		
35	EE	584	Optimal Control Theory		√		
36	EE	585	Random Processes in Physical Systems		√	√	
37	EE	586	Introduction to Chaos Theory	√	√	√	
38	EE	587	Chaos Theory & Fractals	√	√	√	
39	EE	602	Advanced Power System Protection				√
40	EE	604	Insulation Coordination of Power Systems				√
41	EE	605	Power System Stability & Load Flow Analysis				√

#	Course #		Course Title of Existing Courses	Computer	Control	Elect	Power
42	EE	606	Advanced Power System Operation & Control				√
43	EE	607	Power System Quality				√
44	EE	608	Power Quality Monitoring				√
45	EE	611	Advanced Machine Learning	√			
46	EE	620	Integrated Circuit Engineering			√	
47	EE	621	Signal Detection and Parameter Estimation			√	
48	EE	622	Advanced Digital Signal Processing	√	√	√	
49	EE	624	Optical Communications			√	
50	EE	625	Satellite Communications			√	
51	EE	627	Electromagnetic Scattering			√	
52	EE	628	Microstrip Line Circuit Design			√	
53	EE	629	Optical Signal Processing			√	
54	EE	630	Optical Radiation and Detector Technology			√	
55	EE	633	Image & Video Processing	√		√	
56	EE	634	Fundamentals of Quantum and Nano-Electronics			√	
57	EE	635	Wireless and Mobile Networks			√	
58	EE	636	Mobile and Wireless Communication			√	
59	EE	650	VLSI System Design	√		√	
60	EE	651	Advanced Computer Architecture	√			
61	EE	654	Design and Analysis of Computer Algorithms	√			
62	EE	658	Advanced Operating Systems	√			
63	EE	659	Advanced Computer Networks	√		√	
64	EE	660	Parallel and Distributed Computing	√			
65	EE	662	Simulation and Testable Design of Digital Systems	√			
66	EE	663	Advanced Numerical Techniques		√		
67	EE	665	Distributed Database Management	√			
68	EE	667	Embedded Engineering	√	√	√	
69	EE	669	Advanced Database Systems	√			
70	EE	670	Bioinformatics Algorithms	√			
71	EE	672	Advance Computer and Wireless Networks	√		√	
72	EE	680	Digital Control System		√		
73	EE	683	Nonlinear Dynamical Systems		√		
74	EE	684	Adaptive Control Systems		√		
75	EE	685	Distributed Control Systems		√		
76	EE	690	Internet Systems Programming	√	√	√	
77	EE	691	Statistical Pattern Recognition	√			
78	EE	692	Topics in Pattern Recognition	√			
79	EE	693	Application of FACTS Devices				√
80	EE	694	Renewable Energy Resources				√

#	Course #	Course Title of Proposed Courses	Computer	Control	Elect	Power
1	EE	Computational Electromagnetics			√	
2	EE	Introduction to Bioinformatics	√			
3	EE	Quantum Mechanics-I			√	
4	EE	Quantum Mechanics-II			√	
5	EE	Renewable Energy Resources				√
6	EE	Application of FACTS Devices				√