

List of Approved Ph.D. Courses for the Department Electronics Engineering

Courses with EL Code

S#	Course Code	Course Title
1	EL-601	Technology of Power Semiconductor Devices
2	EL-602	Application of Power Semiconductor Devices
3	EL-603	Challenges and Opportunities in CMOS beyond 45 and 53 nm Technology
4	EL-604	Light Emitting Diodes
5	EL-605	Photovoltaic Materials
6	EL-606	Solar Cell Design
7	EL-607	Electronics Transport in Semiconductors
8	EL-608	Advanced Solid State Device
9	EL-609	Microwave Circuit
10	EL-610	Radio Frequency Circuit and Architecture for Mobile Communication System
11	EL-611	VLSI Architecture
12	EL-612	Selected Topic in Advanced Analog Integrated Circuit
13	EL-613	Advanced concepts in Analog Circuit Synthesis and Design
14	EL-614	Implementation of Analog IC's on PSPICE Software
15	EL-615	CMOS RF IC's
16	EL-616	RF Transceiver Design
17	EL-617	Advanced RF System Design
18	EL-618	Linearization and Efficiency Techniques in RF Circuit
19	EL-619	Stochastic Methods in Autonomous Systems
20	EL-620	Modern Control System
21	EL-621	Solar Power & Integration
22	EL-622	Distributed Generation
23	EL-623	Modeling and Control of Renewable Power Sources
24	EL-624	Nanotechnology
25	EL-625	Power Converter
26	EL-626	Advanced Power Converter
27	EL-627	Advanced Digital Signal Processing and Algorithms
28	EL-628	Modeling and Simulation of Biometric Systems
29	EL-629	Advanced Digital Image Processing
30	EL-630	Advanced Robotics
31	EL-631	Control, Modeling and Simulation in Power Electronics
32	EL-632	Characterization Techniques for Semiconductor Materials
33	EL-633	Electrical Characterization of Semiconductor Devices
34	EL-634	Modern Trends in Solar Cell Design
35	EL-635	Estimation Techniques in Pattern Recognition
36	EL-636	Computational Intelligence

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Courses with TC Code:

S#	Course Code	Course Title
1	TC-601	Detection and Estimation Theory
2	TC-602	Advanced Topics in Wireless Communications
3	TC-603	Advanced Topics in Digital Communications
4	TC-604	Adaptive Signal Filtering
5	TC-605	Game Theory in Wireless Communication
6	TC-606	Cognitive Radios
7	TC-611	Cognitive Wireless Systems
8	TC-612	Wireless Systems modeling Techniques
9	TC-613	Detection and Estimation Theory
10	TC-614	Advanced Electromagnetic
11	TC-615	Nano photonics
12	TC-616	Optoelectronics and Optical Communications
13	TC-617	Modeling of Large Wireless Network using Advanced Stochastic Processes
14	TC-618	Heterogeneous Cellular Networks
15	TC-619	Advanced Topics in Random Wireless Networks
16	TC-620	High Frequency Simulation Design
17	TC-621	Antenna Theory & Design – I
18	TC-622	Antenna Theory & Design – II
19	TC-623	Conformal Antennas
20	TC-624	Advanced Microwave Systems