Electrical Engineering Courses

Complete Syllabus 3rd to 8th semesters please click here (Old Scheme)

SEMESTER III

Code	Subject	L	T	P	Cr
CE 301	Environment and Ecology	3	1	0	4
AM 301	Material Science & Engineering	3	1	2/2	4
MA 301	Mathematics III	3	1	0	4
EE 301	Networks & Systems	3	1	2	5
EE 302	EMMI	3	1	2	5
EC 301	Electronics Devices & Circuits	3	1	2	5

SEMESTER IV

Code	Subject	L	T	P	Cr
EE 401	Electrical Machine 1	3	1	3	5
EE 402	Control System I	3	1	2	5
CS 402	CBNST	2	1	0	3
EC 401	Digital Electronics	3	1	2	5
EC 402	Signals & Systems	3	1	0	4
EC 403	Electro-Magnetic Theory	3	1	0	4

SEMESTER V

Code	Subject	L	T	P	Cr
EE 501	Electric Machine II	3	1	3	5
EE 502	Control System II	3	1	2	5
EE 503	Power System I	3	1	2	5
CS 506	Data Based Management Systems	3	1	0	4
CS 507	Computer Organization	3	1	0	4
EC 504	Communication System	3	1	2	5

SEMESTER VI

Code	Subject	L	T	P	Cr
EE 601	Power Electronics	3	1	2	5
EE 602	Microprocessor & Its Applications	3	1	2	5
EE 603	Power System II	3	1	2	5
EC 606	VLSI Technology	3	1	2	5
CS 612	Computer Networking	3	1	2	5
HS 601	Principles of Management	3	1	0	4
HS 602	Soft skills	0	0	0	0

SEMESTER VII

Code	Subject	L	T	P	Cr
EE 701	Electrical Drives	3	1	2	5
EE 702	Instrumentation	3	1	2	5
PE01		3	1	0	4
OE1		3	1	0	4
EE 710	Project			8	10

SEMESTER VIII

Code	Subject	L	T	P	Cr
PE02		3	1	0	4
PE03		3	1	0	4
PE04		3	1	0	4
OE2		3	1	0	4
EE 820	Project			8	10

NOTE:

1. All the Professional elective subjects (PE-I to PE-4) are required to have Term Projects and Presentations.

2. OEI & OE II are reserved for electives from Other Departments

List of Professional Electives

Professional Elective I (PE 01)

1. EE 703 Neural Network and fuzzy System
2. EE 704 High Voltage Engineering
3. EE 705 Advanced Control
4. EE 706 Utilization of Electrical Energy & Electric traction
5. EE 707 Advanced Semi-Conductor Devices
6. EE 708 Power System Protection & Stability
7. EE 709 Network Synthesis

Professional Elective II (PE 02)

1. EE 801 EHV AC & DC Transmission
2. EE 802 Solid State Control of Electric Drives
3. EE 803 Digital Signal Processing
4. EE 804 Bio-Instrumentation
5. EE 805 Operation research
6. EE 806 CAD of Electrical Machines
7. EE 807 Microcontroller & Applications

Professional Elective III (PE03)

1. EE 808 Power System Operation and Control
2. EE 809 Switch Mode & Resonant Converters
3. EE 810 Power Quality

4. EE 811 Modelling and Simulation of Electrical Machines

5. EE 812 Advance Instrumentation

Professional Elective IV (PE04)

1. EE 813 FACTS

2. EE 814 Bio-Medical Engineering

3. EE 815 Mechatronics

4. EE 816 Process Control

5. EE 817 Artificial Intelligence

List of Open Electives

1. Introduction to Nano-Technology
2. Introduction to Bio-informatics
3. Introduction to Bio-Engineering
4. Powder Metallurgy
5. Optimization Techniques
6. Engineering Materials and their Applications
7. Reliability Engineering
8. Digital Electronics and Microprocessors
9. Electrical and Electronic Measurements
10. Data Communication and Networking
11. Wireless Communication
12. Fuzzy Logic and Neural Network
13. Modern Architectural Practices
14. Artificial Intelligence and Expert Systems
15. Web Technology
16. Introduction to Robotics
17. Non-conventional Energy Sources
18. Statistical Methods in Engineering
19. Differential Geometry
20. Graph Theory
21. Industrial Psychology
22. Power Plant Engineering
23. Knowledge Management
24. Technology Management
25. Total Quality Management
26. Safety Engineering
27. Value Engineering
28. Solid State Physics
29. Condensed Matter Physics
30. X-ray Spectroscopy
31. Spectroscopy for Engineers
32. Introduction to Biotechnology
33. Biomaterials Science & Technology
34. Bio-medical Instrumentation
35. Introduction to GIS
36. Micro-electronics and VLSI Technology

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