



PSN College of Engineering and Technology (Autonomous)
Melathediyoor, Tirunelveli
CURRICULUM – REGULATIONS 2014



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CURRICULUM - B.E. III TO VIII SEMESTERS

SEMESTER III

S.No	Course code	Course title	L	T	P	C
THEORY						
1	201001	Applied Mathematics II	4	0	0	4
2	204001	Electric circuits and Networks (Practical Component)	3	0	2	4
3	204002	Electrical Machines -I	3	0	0	3
4	204003	Electromagnetic Field theory	3	0	0	3
5	204004	Electronic Devices and circuits	3	0	0	3
6	204005	Measurements & Instrumentation	3	0	0	3
PRACTICAL						
7	204101	Electrical Machines - I Laboratory	0	0	3	2
8	204102	Electronic circuits Laboratory	0	0	3	2
9	204103	Measurements and Instrumentation Laboratory	0	0	3	2
TOTAL			19	0	11	26
MANDATORY COURSE						
10	201801	Environmental studies	2	0	0	2

SEMESTER IV

S.No	Course code	Course title	L	T	P	C
THEORY						
1		Applied Mathematics - III	4	0	0	4
2		Electrical Machines -II	3	0	0	3
3		Control Systems	3	1	0	4
4		Transmission and Distribution	3	1	0	4
5		Linear Integrated and Digital logic Circuits	3	0	0	3
6		Data Structures and Object Oriented Programming in C++	3	0	0	3
PRACTICAL						
7		Electrical Machines - II Laboratory	0	0	3	2
8		Linear Integrated and Digital Circuits Laboratory	0	0	3	2
9		Data Structures and Object Oriented Programming Laboratory	0	0	3	2
TOTAL			19	2	9	27

SEMESTER V

S.No	Course code	Course title	L	T	P	C
THEORY						
1		Power System Analysis	3	1	0	4
2		Power Electronics	3	0	0	3
3		Design of Electrical Machines	3	1	0	4
4		High voltage Engineering	3	0	0	3
5		Industrial Automation	3	0	0	3
6		Open Elective –I	4	0	0	4
PRACTICAL						
7		Control System Laboratory	0	0	3	2
8		Power Electronics Laboratory	0	0	3	2
TOTAL			19	2	6	25
MANDATORY COURSE						
9		Value Education, Human Rights and Legislative Procedure	2	0	0	2

SEMESTER VI

S.No	Course code	Course title	L	T	P	C
THEORY						
1		High voltage DC transmission	3	0	0	3
2		Power system operation and control	3	1	0	4
3		Microprocessor and Microcontroller	3	0	0	3
4		Digital Signal Processing	3	1	0	4
5		Open Elective -II	4	0	0	4
6		Elective - I	3	0	0	3
PRACTICAL						
7		Micro Processor and Micro Controller Laboratory	0	0	3	2
8		English Language Lab for Engineers	0	0	3	2
9		Power system and Automation Laboratory (Internal Evaluation Only)	0	0	2	1
TOTAL			19	2	8	26

SEMESTER VII

S.No	Course code	Course title	L	T	P	C
THEORY						
1		Solid State Drives	3	0	0	3
2		Renewable Energy Sources	3	0	0	3
3		Special Electrical Machines	3	0	0	3
4		Protection and switch gear	3	0	0	3
5		Embedded system Design	3	0	0	3
6		Elective - II	3	0	0	3
PRACTICAL						
7		Power System Simulation Laboratory	0	0	3	2
8		Electrical Estimation, Costing and power wiring Laboratory	0	0	3	2
TOTAL			18	0	6	22

MANDATORY COURSE

9		Energy studies	2	0	0	2
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SEMESTER VIII

S.No	Course code	Course title	L	T	P	C
THEORY						
1		Conservation and Utilization of Electrical Energy	3	0	0	3
2		Elective - III	3	0	0	3
3		Elective - IV	3	0	0	3
4		Project Work	0	0	15	6
TOTAL			9	0	15	15

LIST OF ELECTIVES**Elective - I**

Sl. No	Sub code	Subject Name	L	T	P	C
1		Total Quality Management	3	0	0	3
2		Professional Ethics in Engineering	3	0	0	3
3		Computer networks	3	0	0	3
4		Soft computing Techniques	3	0	0	3
5		Power Quality	3	0	0	3

Elective - II

Sl. No	Sub code	Subject Name	L	T	P	C
1		Bio medical Instrumentation	3	0	0	3
2		Principles of Management	3	0	0	3
3		Microcontroller based system design	3	0	0	3
4		Fundamentals of NANO technology	3	0	0	3
5		Flexible AC Transmission Systems	3	0	0	3

Elective - III

Sl. No	Sub code	Subject Name	L	T	P	C
1		Power system dynamics	3	0	0	3
2		Project Management	3	0	0	3
3		Modern Control System	3	0	0	3
4		Smart grid	3	0	0	3
5		Operation Research	3	0	0	3

Elective - IV

Sl. No	Sub code	Subject Name	L	T	P	C
1		Power system Transients	3	0	0	3
2		PC based Instrumentation	3	0	0	3
3		Power Electronic applications in power system	3	0	0	3
4		Communication Engineering	3	0	0	3
5		Operating system	3	0	0	3

Open Elective

Sl. No	Sub code	Subject Name	L	T	P	C
1		Power plant Engineering	4	0	0	4
2		Neural network and Fuzzy logic control	4	0	0	4
3		PLC and SCADA	4	0	0	4

