Teaching Scheme For batch 2014-2018 (3 to 8 Semester)

III

Sr No	Subject Name	Subject Code	Theory	ABL/TUT	Laboratory	Total Hrs	Total Credits
1	Engineering Mathematics - III	EL410301	3	2		5	4
2	Network Analysis	EL410302	3			3	3
3	Fundamentals of Power Systems	EL410303	3	2		5	4
4	Transformers & DC Machine	EL410304	3			3	3
5	Electronics Devices & Circuit	EL410305	3			3	3
6	Electrical and Electronics Measurement & Measuring Instruments	EL410306	4			4	4
7	Transformers & DC Machine LAB.	EL410307			2	2	1
8	Electronics Device & Circuit LAB	EL410308			2	2	1
9	Electrical and Electronics Measurement and measuring Instruments LAB	EL410309			2	2	1
10	Network Analysis LAB	EL410310			2	2	1
11	Skill Development					4	0
Total			19	4	8	31	25

IV

Sr No	Subject Name	Subject Code	Theory	ABL/TUT	Laboratory	Total Hrs	Total Credits
1	Numerical & Optimization Techniques	EL410401	4			4	4
2	Electromagnetics	EL410402	3	2		5	4
3	Control Engineering	EL410412	3			3	3
4	Digital Electronics	EL410404	3			3	3
5	Asynchronous Machines	EL410405	3			3	3
6	Performance of Power System	EL410406	3			3	3
7	Digital Electronics Lab	EL410407			2	2	1
8	Asynchronous Machines LAB	EL410408			2	2	1

9	Performance of Power System LAB	EL410409			2	2	1
10	Control Engineering LAB	EL410413			2	2	1
11	Electrical Workshop	EL410411			2	2	1
Total			22	2	10	34	25

V

Sr No	Subject Name	Subject Code	Theory	ABL/TUT	Laboratory	Total Hrs	Total Credits
1	Power Electronics & Devices	EL410501	3			3	3
2	Synchronous Machines	EL410502	3			3	3
3	Microprocessor & Interfacing	EL410514	3			3	3
4	Electrical Power Utilization	EL410504	3	2		5	4
5	Elements of Electrical Design	EL410505	3			3	3
6	Elective-I	EL410511/12/13	3	2		5	4
7	Mini Project	EL410506			4	4	2
8	Power Electronics & Devices Lab	EL410507			2	2	1
9	Synchronous Machines Lab	EL410508			2	2	1
10	Microprocessor & Interfacing Lab	EL410515			2	2	1
11	Elements of Electrical Design Lab	EL410510			2	2	1
	Seminar					1	0
Total			18	4	12	35	26
Elective-1 Subjects							
1	Alternate Energy System	EL410511	3	2		5	4
2	HVDC Transmission System	EL410512	3	2		5	4
3	Signals and System	EL410513	3	2		5	4

VI

Sr No	Subject Name	Subject Code	Theory	ABL/TUT	Laboratory	Total Hrs	Total Credits
1	High Voltage Engineering	EL410601	3			3	3
2	Electrical Drives & Control	EL410602	3			3	3
3	Electrical Machine Design-1	EL410615	3			3	3

4	Power System Analysis	EL410604	4			4	4
5	Microcontroller & Application	EL410605	3			3	3
6	Elective - II	EL410611/ 12/ 13	3	2		5	4
7	Technical Presentation skill				4	4	0
8	High Voltage Engineering Lab	EL410607			2	2	1
9	Electrical Drives & Control Lab.	EL410608			2	2	1
10	Electrical Machine Design-1 Lab	EL410616			2	2	1
11	Power System Analysis Lab	EL410610			2	2	1
12	Microcontroller & Application Lab	EL410614			2	2	1
Total			19	2	12	33	25
ELECTIVE-2 Subjects							
1	Energy Management & Audit	EL410611	3	2		5	4
2	Modern Control Theory	EL410612	3	2		5	4
3	Digital Signal Processing	EL410613	3	2		5	4

VII

Sr No	Subject Name	Subject Code	Theory	ABL/TUT	Laboratory	Total Hrs	Total Credits
1	Switchgear & Protection	EL410701	3			3	3
2	Industrial Automation	EL410702	3			3	3
3	Power System Design	EL410703	3			3	3
4	Power System Operation & Control	EL410704	3	2		5	4
5	Electrical Machine Design-II	EL410705	3			3	3
6	Elective III	EL410711/12	3	2		5	4
7	Switchgear & Protection Lab.	EL410707			2	2	1
8	Industrial Automation Lab.	EL410708			2	2	1
9	Electrical Machine Design II Lab	EL410710			2	2	1
10	Power System Design Lab	EL410714			2	2	1
11	Career & Personality Development					1	0
Total			18	4	12	35	24
ELECTIVE-3 Subjects							

1	Commissioning and Installation of Electrical Equipments	EL410711	3	2		5	4
2	Advance Power System	EL410712	3	2		5	4
3	Embedded System	EL410713	3	2		5	4

VIII

Sr No	Subject Name	Subject Code	Theory	ABL/TUT	Laboratory	Total Hrs	Total Credits
1	Major Project – Part II	EL410801			40	40	20
Total					40	40	20