



SOLAPUR UNIVERSITY, SOLAPUR
Faculty of Engineering & Technology
B.E Electrical Engineering(w.e.f 2015-16)

Credit System Syllabus Structure of B. E. Electrical Engineering W.E.F. 2017-2018 Semester I

Theory Course Name	Hrs./week			Credits	Examination Scheme			
	L	T	P		ISE	ESE	ICA	Total
Electrical Drives and Control	4	-	—	4	30	70	-	100
Switchgear and Protection	4	-	—	4	30	70	-	100
Electrical Utilization	4	-	—	4	30	70	-	100
Elective-I	4	-	—	4	30	70	-	100
Sub Total	20	-	—	16	120	280	-	400
Laboratory								
						ESE		
						POE	OE	
Electrical Drives and Control	—	—	2	1	—	50	--	25
Switchgear and Protection	—	—	2	1	—	--	50	25
Electrical Utilization	--	--	2	1	--	--	--	25
Elective-I	—	—	2	1	—	--	--	25
Project Phase-I & Seminar	-	-	6	3	--	--	50	100
Vocational Training	-	-	-	-	-	-	-	50
Sub Total	--	-	14	7	—	150	200	350
Grand Total	20	-	14	23	120	430	200	750

- **Abbreviations:** L- Lectures, P –Practical, T- Tutorial, ISE- In Semester Exam, ESE
 - End Semester Exam, ICA- Internal Continuous Assessment, ESE - University Examination (Theory &/ POE &/Oral examination)



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Semester II

Theory Course Name	Hrs./week			Credits	Examination Scheme			
	L	T	P		ISE	ESE	ICA	Total
Flexible AC Transmission System and HVDC Transmission	4	-	—	4	30	70	-	100
Electrical Installation, Testing and Maintenance	4	-	—	4	30	70	-	100
Power System Operation and Control	4	-	—	4	30	70	-	100
Elective-II	4	-	—	4	30	70	-	100
Sub Total	16	--	--	16	120	280	-	400
Laboratory/Workshop								
						ESE		
						POE	OE	
Flexible AC Transmission System and HVDC Transmission	—	—	2	1	—	--	--	25
Electrical Installation, Testing and Maintenance	—	—	2	1	—	--	50	75
Power System Operation and Control	--	--	2	1	--	--	--	25
Elective-II	—	—	2	1	—	--	--	25
Project Phase-II	--		6	3	--	--	150	200
Sub Total	--	--	14	7	--	200		150
Grand Total	16	--	14	23	120	480	150	750

- Abbreviations: L- Lectures, P –Practical, T- Tutorial, ISE- In Semester Exam, ESE - End Semester Exam, ICA- Internal Continuous Assessment, ESE - University Examination (Theory &/ POE &/Oral examination)

Elective-I	Elective-II
1. PLC and SCADA	1.Power System Dynamics
2. Digital Signal Processing	2.High Voltage Engineering.
3. Energy Audit & Management	3.Renewable Energy Sources
4. Biomedical Instrumentation	4.Power Quality

Note –

- Batch size for the SE practical /tutorial shall be of 20 students. On forming the batches, if the strength of remaining student exceeds 9, then a new batch shall be formed.
- Vocational Training (evaluated at B.E. Part-I) of minimum 15 days shall be completed in any vacation after S.E. Part-II but before B.E. Part-I & the report shall be submitted and evaluated in B.E. Part-I
- Appropriate Elective I & II Subjects may be added when required.
- Project group for B.E.(Electrical) Part I and Part II shall not be of more than **Four** student.
- ICA shall be a continuous process based on student's performance in – class tests, assignments, homework, subject seminars, quizzes, laboratory books and their interaction and attendance for theory and lab sessions as applicable.