



SOLAPUR UNIVERSITY, SOLAPUR
Faculty of Engineering & Technology
B.E. (Electrical Engineering)

Choice Based Credit System Structure of B.E. Electrical Engineering W.E.F. 2019-2020

Semester I

Course Code	Theory Course Name	Hrs./week			Credits	Examination Scheme			
		L	T	P		ISE	ESE	ICA	Total
EL411	Industrial Drives Control	4	-	-	4	30	70	-	100
EL412	Switchgear and Protection	4	-	-	4	30	70	-	100
EL413	Energy Audit and Management	3	-	-	3	30	70	-	100
EL414	Extra High Voltage AC Transmission System	3	-	-	3	30	70	-	100
EL415A- To EL415D	Elective-I	3	1	-	4	30	70	25	125
Sub Total		17	1	-	18	150	350	25	525
Laboratory Course Name									
							ESE		
							POE	OE	
EL411	Industrial Drives Control	-	-	2	1	-	50		25
EL412	Switchgear and Protection	-	-	2	1	-	-	25	25
EL413	Energy Audit and Management	-	-	2	1	-	-	25	25
EL414	Extra High Voltage AC Transmission System	-	-	2	1	-	-	-	25
EL416	Vocational Training	-	-	-	1	-	-	-	25
EL417	Seminar and Project Phase-I	-	-	4	2	-	-	-	50
Sub Total		-	-	12	7	-	100		175
Grand Total		17	1	12	25	150	450	200	800

- 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)



SOLAPUR UNIVERSITY, SOLAPUR
Faculty of Engineering & Technology
B.E. (Electrical Engineering)

Choice Based Credit System Structure of B.E. Electrical Engineering W.E.F. 2019-2020

Semester II

Course Code	Theory Course Name	Hrs./week			Credits	Examination Scheme			
		L	T	P		ISE	ESE	ICA	Total
EL421	Flexible AC Transmission System and HVDC	4	-	-	4	30	70	-	100
EL422	Power System and Operation Control	4	-	-	4	30	70	-	100
EL423	Electrical Installation and Estimation	4	-	-	4	30	70	-	100
EL424A-To-EL424D	Elective-II	4	-	-	4	30	70	-	100
Sub Total		16	-	-	16	120	280	-	400
Laboratory Course Name									
							ESE		
							POE	OE	
EL421	Flexible AC Transmission System and HVDC	-	-	2	1	-	-	-	25
EL422	Power System and Operation Control	-	-	2	1	-	-	50	75
EL423	Electrical Installation and Estimation	-	-	2	1	-	-	50	75
EL424A-To-EL424D	Elective-II	-	-	2	1	-	-	-	25
EL425	Seminar and Project Phase-II	-		6	3	-	100	-	200
Sub Total		-	-	14	7	-	200	200	400
Grand Total		16		14	23	120	480	200	800

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:	
Course Code	Course	Course Code	Course
EL415A	Programmable Logic Control and SCADA	EL424A	Power System Planning
EL415B	Digital Signal Processing	EL424B	Power Quality
EL415C	Renewable Energy Sources	EL424C	Power System Dynamics
EL415D	Smart Grid Technology	EL424D	High Voltage Engineering

Note –

- Batch size for the BE practical /tutorial shall be of 15 students. On forming the batches, if the strength of remaining student exceeds 7, 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.
- Student shall select one Self Learning Module at T.E. Part I and T.E. Part II each from Technical and Humanities and Social Sciences Group with at least one Self Learning Module from the Humanities and Social Sciences Group
- Curriculum for Humanities and Social Sciences Self Learning Modules is common for all under graduate programs of faculty of Engineering and Technology
- Minimum four assignments for Self-Learning Modules at T.E. Part I and T.E. Part II shall be submitted by the students which shall be evaluated by a Module Coordinator assigned by institute / department
- Project group for T.E. (Electrical) Part II Mini Project shall not be of more than **three** students.
- Project group for B.E. (Electrical) Part I and Part II shall not be of more than **FOUR** students.
- 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