



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. Electrical (Power System Engineering) Sem-I AY 2020-21

Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	4IC501	Research Methodology	2	0	0	2	2	10	30	10	50
2	PC	4PS501	Digital Protection of Power System	3	0	0	3	3	10	30	10	50
3	PC	4PS502	Application of Power Electronics to Power Systems	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
4	PC	4PS551	Digital Protection of Power System Lab	0	0	4	4	2	25	25	25	25
5	PC	4PS552	Application of Power Electronics to Power Systems Lab	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
6	PE	4PS5**	Professional Elective 1	3	0	0	3	3	10	30	10	50
7	PE	4PS5**	Professional Elective 2	3	0	0	3	3	10	30	10	50
Mandatory Life Skill Courses												
8	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
9	VAPC	Refer list	Value Added Professional Courses					#				
Value Added Life-Skill Courses #												
10	VALS	Refer list	Value Added Life Skill Courses					#				
Total				16	0	8	24	18				

Notes:

* For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.

The Value Added Courses are Optional Courses. The mode of teaching (LTPI) & evaluation scheme is decided by the resource person.

The list of Value added courses will be updated from time to time.

The course may be on paid basis. The credits earned from these courses will be shown on grade card.

For SPI and CPI calculation, these courses will be excluded.

@ Minimum 2 mandatory life skill courses are to be completed for award of degree.

For further details refer to Academic and Examination rules and regulations.



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Sr.No.	Course Code	Course Name
Professional Elective 1		
1	4PS511	Power Apparatus Modeling
2	4PS512	DSP Application to Power System

Professional Elective 2		
1	4PS515	Neural Network and Fuzzy Application to Power System
2	4PS516	Grid Integration of Renewable Energy



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Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	4PS521	Power Quality in Distribution Systems	3	0	0	3	3	10	30	10	50
2	PC	4PS522	PLC and Embedded Systems	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
3	PC	4PS571	Power Quality in Distribution Systems Lab	0	0	4	4	2	25	25	25	25
4	PC	4PS572	PLC and Embedded Systems Lab	0	0	4	4	2	25	25	25	25
5	PC	4PS580	Industrial Project	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
6	PE	4PS5**	Professional Elective 3	3	0	0	3	3	10	30	10	50
7	PE	4PS5**	Professional Elective 4	3	0	0	3	3	10	30	10	50
Mandatory Life Skill Courses												
8	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
9	VAPC	Refer list	Value Added Professional Courses					#				
Value Added Life-Skill Courses #												
10	VALS	Refer list	Value Added Life Skill Courses					#				
Total				14	0	12	26	18				

Notes:

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Sr.No.	Course Code	Course Name
Professional Elective 3		
1	4PS531	Power System Dynamics
2	4PS532	EHVAC
3	4PS533	Deregulated Power System

Professional Elective 4		
1	4PS535	Computer Aided Power System Analysis
2	4PS536	Smart Grid