

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli-416415



Credit System for
F. Y. M. Tech. Electrical (Power System Engineering)
Semester-I and II

2023-24




Walchand College of Engineering, Sangli
(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. Electrical (Power System Engineering) Sem-I AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remarks	
Professional Core (Theory)														
1	PC	7IC501	Research Methodology and IPR	3	0	0	0	3	3	30	20	50		
2	PC	7PS501	Digital Protection of Power System	3	0	0	0	3	3	30	20	50		
3	PC	7PS502	Power Apparatus Modeling	3	0	0	0	3	3	30	20	50		
4	PC	7PS503	Computer Aided Power System Analysis	3	0	0	0	3	3	30	20	50		
Professional Core (Lab)														
5	PC	7PS551	Digital Protection of Power System Lab	0	0	2	0	2	1	30	30	40		
6	PC	7PS552	Computer Aided Power System Analysis Lab	0	0	2	0	2	1	30	30	40		
7	PC	7PS553	Advanced Power System Lab	0	0	2	0	2	1	30	30	40		
Professional Elective (Theory)														
8	PE	Refer list	Professional Elective 1	3	0	0	0	3	3	30	20	50		
9	PE	Refer List	Professional Elective 2	3	0	0	0	3	3	30	20	50		
Total				18	0	6	0	24	21					


PG Coordinator


HoD


Dean Academics
Walchand College of Engg,
Vishrambag, Sangli - 415 415



Walchand College of Engineering, Sangli
(Government Aided Autonomous Institute)

Professional Elective Course List for F. Y. M. Tech. Electrical (Power System Engineering) Sem-I AY 2023-24

Sr.No.	Track	Course Code	Course Name
Professional Elective 1			
1	Elect. Transmission and Distribution	7PS511	SMART Grid
2	Elect. Transmission and Distribution	7PS512	FACTS
3	Elect. Power Control and Analysis	7PS513	DSP Application to Power System
Professional Elective 2			
1	Elect. Transmission and Distribution	7PS514	Modern Power Electronics
2	Elect. Power Control and Analysis	7PS515	Neural Network and Fuzzy Application to Power System
3	Elect. Power Control and Analysis	7PS516	Advanced Power System for Grid Resilience

Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing.

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


PG Coordinator


HoD


Dean Academics
Walchand College of Engineering
Vishrant Nagar, Sangli - 413 015




Walchand College of Engineering, Sangli
(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. Electrical (Power System Engineering) Sem-II AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark	
Professional Core (Theory)														
1	PC	7PS521	Power Quality in Distribution Systems	3	0	0	0	3	3	30	20	50		
2	PC	7PS522	PLC and Embedded Systems	3	0	0	0	3	3	30	20	50		
3	PC	7PS523	Power System Dynamics	3	0	0	0	3	3	30	20	50		
Professional Core (Lab)														
3	PC	7PS571	Power Quality in Distribution Systems Lab	0	0	2	0	2	1	30	30	40		
4	PC	7PS572	PLC and Embedded Systems Lab	0	0	2	0	2	1	30	30	40		
5	PR	7PS545	Seminar	0	0	2	0	2	1	30	30	40		
Professional Elective (Theory)														
6	PE	Refer List	Professional Elective 3	3	0	0	0	3	3	30	20	50		
7	PE	Refer List	Professional Elective 4	3	0	0	0	3	3	30	20	50		
Open Elective														
8	OE	Refer List	Open Elective	3	0	0	0	3	3	30	20	50		
				Total	18	0	6	0	24	21				


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Dean Academics
Walchand College of Engg.
Vishranthi, Sangli



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Professional Elective Course List for F. Y. M. Tech. Electrical (Power System Engineering) Sem-II AY 2023-24

Sr.No.	Track	Course Code	Course Name
Professional Elective 3			
1	Elect. Transmission and Distribution	7PS531	Power System Planning and Reliability
2	Elect. Power Control and Analysis	7PS532	EHVAC
Professional Elective 4			
1	Elect. Transmission and Distribution	7PS533	Restructured Power System
2	Elect. Transmission and Distribution	7PS534	Modern Electric Drives
3	Elect. Power Control and Analysis	7PS535	HVDC Transmission

Open Elective Course List for F. Y. M. Tech. Electrical (Power System Engineering) Sem-II AY 2023-24

Sr.No.	Offering programme	Course Code	Course Name
1	Environmental Engg.	7OE501	Solid Waste Management
2	Structural Engg.	7OE502	Structural Health Monitoring
3	Design Engg.	7OE503	Industrial Product Design
4	Heat Power Engg.	7OE504	Waste to Energy
5	Production Engg.	7OE505	Advanced Production systems
6	Power System Engg.*	7OE506	Control Techniques for Electrical Drives
7	Control System Engg *	7OE506	Control Techniques for Electrical Drives
8	Electronics Engg.	7OE508	Introduction to Embedded Systems
9	Computer Science & Engg.	7OE509	Machine Learning in Practice
10	Information Technology	7OE510	Machine Learning & Applications

Notes:

*Open Elective offered by Elect. (Power System Engineering) Programme is allowed for students of all other Programmes (Except Control System and Power System. Programme)

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For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing.

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HoD


21/8/2023
Dean Academics
Walchand College of Engg.