

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



Credit System for

Final Year B.Tech. (Electrical Engineering)

Sem.-VII and VIII

Applicable to AY 2025 -26

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Sr. No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
Professional Core (Theory)													
01	PC	6EL401	Power System Operation and Control	3	0	0	0	3	3	30	20	50	
02	PC	6EL402	Power System Harmonics	3	0	0	0	3	3	30	20	50	
03	PC	6EL403	Electrical Machine Design	3	0	0	0	3	3	30	20	50	
04	PC	6EL404	Research Methodology and IPR	2	0	0	0	2	2	30	20	50	
Professional Core (Lab)													
05	PC	6EL451	Power System Operation and Control Lab	0	0	2	0	2	1	30	30	40	OE
06	PC	6EL452	Power System Harmonics Lab	0	0	2	0	2	1	30	30	40	OE
07	PC	6EL453	Electrical Machine Design Lab	0	0	2	0	2	1	30	30	40	
08	PR	6EL491	Project-I	0	0	6	0	6	3	30	30	40	POE
Professional Elective (Theory)													
09	PE	Refer List	Professional Elective-3	3	0	0	0	3	3	30	20	50	
Professional Elective (Lab)													
10	PE	Refer List	Professional Elective- 3 Lab	0	0	2	0	2	1	30	30	40	
Open Elective													
11	OE	Refer List	Open Elective-3	3	0	0	0	3	3	30	20	50	
AICTE Mandatory Course													
12	MC	6IC401	Constitution of India	2	0	0	0	2	0	30	20	50	
Total				19	0	14	0	33	24				

Mr. A. B. Patil

DAC/Member Secretary, BoS

Dr. V. P. Mohale

HOD / Chairman, BoS

Dr. A.K. Kokane

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Sr. No.	Track	Course Code	Course Name
Professional Elective-3			
01	Power System	6EL411	HVDC
02	Control System	6EL412	Industrial Automation with PLC
03	Power Electronics and Drives	6EL413	Advanced Power Electronics
Professional Elective-3 Lab			
01	Power System	6EL454	HVDC Lab
02	Control System	6EL455	Industrial Automation with PLC Lab
03	Power Electronics and Drives	6EL456	Advanced Power Electronics Lab


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Professional Core (Theory)													
01	PC	6EL421	FACTS	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
02	PR	6EL492	Project-II	0	0	12	0	12	6	30	30	40	POE
Professional Elective (Theory)													
03	PE	Refer List	Professional Elective- 4	3	0	0	0	3	3	30	20	50	
04	PE	Refer List	Professional Elective- 5	3	0	0	0	3	3	30	20	50	
Humanities													
05	HS	6HS403	Engineering Economics & Financial Management	2	0	0	0	2	2	30	20	50	
Total				11	0	12	0	23	17				

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Sr.No.	Track	Course Code	Course Name
Professional Elective-4			
01	Power System	6EL431	EHVAC
02	Control System	6EL432	Intelligent Systems and Its Applications
03	Power Electronics and Drives	6EL433	SMART Grid
04	Power System	6EL434	De-regulation and Energy Markets
Professional Elective-5			
01	Power System	6EL435	Solar and Wind Power Generation
02	Control System	6EL436	Introduction to Embedded System
03	Power Electronics and Drives	6EL437	Illumination Engineering
04	Power Electronics and Drives	6EL438	Electrical Utilization and Traction


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