



Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Third Year B. Tech. (Electrical Engineering)

Applicable from AY 2025-26 Onwards

Semester V

Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
Professional Core (Theory)												
01	PCC	7EL301	Power System Analysis and Stability	3	0	0	3	3	30	20	50	
02	PCC	7EL302	Control Systems Engineering	3	0	0	3	3	30	20	50	
03	PCC	7EL303	Digital Signal Processing	3	0	0	3	3	30	20	50	
04	PCC	7EL304	Energy Storage Systems for EV	2	0	0	2	2	30	20	50	
Professional Core (Lab)												
05	PCC	7EL351	Power System Analysis and Stability Lab	0	0	2	2	1	30	30	40	POE
06	PCC	7EL352	Control Systems Engineering Lab	0	0	2	2	1	30	30	40	POE
07	PCC	7EL353	Digital Signal Processing Lab	0	0	2	2	1	30	30	40	POE
Value Education Course												
08	VEC	7VE301	Environmental Science	2	0	0	2	2	30	20	50	
Open Elective												
09	OE	Refer List	Open Elective - 1	3	0	0	3	3	30	20	50	
Multi-Disciplinary Minor												
10	MDM	Refer List	MDM	3	0	0	3	3	30	20	50	
			Total	19	0	6	25	22				

Mr. A. B. Patil
DAC/Member Secretary, BoS

Dr. V. P. Mohale HOD /
Chairman, BoS

Dr. A.K. Kokane
Dean Academics



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Semester VI

Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
Professional Core (Theory)												
01	PCC	7EL321	Industrial Drives and Control	2	0	0	2	2	30	20	50	
02	PCC	7EL322	Microcontroller and Applications	3	0	0	3	3	30	20	50	
03	PCC	7EL323	Power System Protection	2	0	0	2	2	30	20	50	
Professional Core (Lab)												
04	PCC	7EL371	Industrial Drives and Control Lab	0	0	2	2	1	30	30	40	POE
05	PCC	7EL372	Microcontroller and Applications Lab	0	0	2	2	1	30	30	40	POE
06	PCC	7EL373	Power System Protection Lab	0	0	2	2	1	30	30	40	POE
Professional Elective Course												
07	PEC	Refer List	Program Elective - I	3	0	0	3	3	30	20	50	
Open Elective												
08	OE	Refer List	Open Elective - 2	3	0	0	3	3	30	20	50	
Multi-Disciplinary Minor												
09	MDM	Refer List	MDM	3	0	0	3	3	30	20	50	
10	MDM	Refer List	MDM Lab	0	0	2	2	1	30	30	40	
Entrepreneurship / Economics												
11	EEM	7EE301	Engineering Economics & Financial Management	2	0	0	2	2	30	20	50	
Vocational Skill and Enhancement Course												
12	VESC	7VSEL371	Mini Project	0	0	2	2	1	30	30	40	
Total				18	0	10	28	23				

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Professional Elective Course List for T. Y. B. Tech. (Electrical Engineering) Sem-VI AY 2025-26

Sr. No	Course Code	Course Name
Program Elective -1		
1	7EL331	Electromagnetic Fields
2	7EL332	Energy Audit and Management
3	7EL333	Non-Linear and Digital Control Systems

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