Walchand College of Engineering (Government Aided Autonomous Institute)

Government Aided Autonomous Institute)
Vishrambag, Sangli-416415



Credit System for F. Y. M. Tech. (Control and Instrumentation) Semester-I and II

Effective from AY 2024-25



Walchand College of Engineering (Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Control and Instrumentation) Sem- I Effective from AY 2024-25

Sr. No.	Category	Course Code	Course Name	ELATER TOTAL	L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
			Professional	Core (Theory)				=		-			
1	PC	TIC501 -	Research Methodology and IPR		3	0	0	3	3	30	20	50	
2	PC	(CI501	Linear Control Systems		3	0	0	3	3	30	20	50	
3	PC	VCI502	PLC and Embedded Control		3	0	0	3	3	30	20	50	
4	PC	CI503 🖍	Process Instrumentation		3	0	0	3	3	30	20	50	
	*		Profession	al Core (Lab)							8		
5	PR	ACI551 «	Linear Control Systems Lab		0	0	2	2	1	30	30	40	
6	PR	1 CI552 —	PLC and Embedded Control Lab		0	0	2	2	1	30	30	40	
7	PR	1CI553 -	Process Instrumentation Lab		0	0	2	2	1	30	30	40	
		17-9	Professional 1	Elective (Theory))								
8	PE	Refer List	Professional Elective 1		3	0	0	3	3	30	20	50	
9	PE	Refer List	Professional Elective 2		3	0	0	3	3	30	20	50	
*				Total	18	0	6	24	21			į	

Professional Elective Course List for F. Y. M. Tech. (Control and Instrumentation) Sem- I AY 2024-25

Sr. No.	Track	Course Name	
		Professional E	lective 1
		1CI511 /	Advanced Digital Signal Processing
1	Control Systems	1'CI512 /	Optimization Techniques
	a	1°CI513	Modern Control Systems
	^	Professional E	lective 2
		1CI514 -	Advanced Transducers and Measurement Technique
2	Instrumentation	1CI515	Smart Sensors and Actuators
		CI516 6	Biomedical Instrumentation

I/C Dean Academics



Walchand College of Engineering (Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Control and Instrumentation) Sem-II Effective from AY 2024-25

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Sr. No.	Category	Course Code	Course Name	VERT 18E4 A	L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Î	Professional Core (Theory)												
1	PC	TCI521	Instrumentation System Design		3	0	0	3	3	30	20	50	
2	PC	CI522	Non-Linear System Analysis		3	0	0	3	3	30	20	50	Ĭ.
3	PC	TCI523	Adaptive Control		3	0	0	3	3	30	20	50	
	Professional Core (Lab)												
3	PR	(CI571	Non-Linear System Analysis Lab		0	0	2	2	1	30	30	40	
4	PR	1CI572 /	Adaptive Control Lab		0	0	2	2	1	30	30	40	
5	PR	(CI545	Seminar		0	0	2	2	1	30	30	40	
		5	Professional E	Elective (Theory)	Ų.								
6	PE	Refer List	Professional Elective 3		3	0	0	3	3	30	20	50	
7	PE	Refer List	Professional Elective 4		3	0	0	3	3	30	20	50	
	0		Oper	Elective								•	
8	OE	Refer List	Open Elective	턴	3	0	0	3	3	30	20	50	
			Total					24	21				

Professional Elective Course List for F. Y. M. Tech. (Control and Instrumentation) Sem- II AY 2023-24

Sr.No.	Track	Course Name	
		Professional E	lective 3
		7CI531 -	Modern Power Electronics
1	Control Systems	VCI532	Electric Vehicle Technology
		VCI533	Optimal Control
	6	Professional El	lective 4
		VCI534	Power Plant Instrumentation
1	Instrumentation	TCI535 🗸	Artificial Intelligence and Machine Learning
		I/CI536	Measurement Data Analytics

I/C Dean Academics