Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli-416415

Credit System for

F. Y. M. Tech. (Electronics and Communication Engineering)

Semester-I and II

Effective from AY 2024-25

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

Credit System for F. Y. M. Tech. (Electronics and Communication Engineering) Sem.-I AY 2024-25

Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)												
1	PC	1IC501	Research Methodology and IPR	3	0	0	3	3	30	20	50	
2	PC	1EC501	Statistical Signal Processing	3	0	0	3	3	30	20	50	
3	PC	1EC502	Embedded System Design	3	0	0	3	3	30	20	50	
4	PC	1EC503	Advanced Digital Communication	3	0	0	3	3	30	20	50	
Professional Core (Lab)												
5	PC	1EC551	Embedded System Design Laboratory	0	0	2	2	1	30	30	40	
6	PC	1EC552	Advanced Digital Communication Laboratory	0	0	2	2	1	30	30	40	
Professional Elective (Theory)												
7	PE	Refer list	Professional Elective 1	3	0	0	3	3	30	20	50	
8	PE	Refer list	Professional Elective 2	3	0	0	3	3	30	20	50	
Professional Elective (Lab)												
9	PE	Refer list	Professional Elective 1 Lab	0	0	2	2	1	30	30	40	
			Total	18	0	6	24	21				

Professional Elective Course List for F. Y. M. Tech. (Electronics and Communication Engineering) Sem.-I AY 2024-25

Sr. No.	Track	Course Code	Course Name
Professional Elective 1			
1	Embedded and VLSI	1EC511	Digital VLSI Design
2	Signal Processing and Communication	1EC512	Advanced Digital Signal Processing
Professional Elective 1 Lab			
1	Embedded and VLSI	1EC553	Digital VLSI Design Lab
2	Signal Processing and Communication	1EC554	Advanced Digital Signal Processing Lab
Professional Elective 2			
1	Embedded and VLSI	1EC513	Embedded Linux Programming
2	Embedded and VLSI	1EC514	Solid State Electronic Devices
3	Signal Processing and Communication	1EC515	Spread Spectrum Communication
4	Signal Processing and Communication	1EC516	Navigation and Countermeasures

HoD   I/c Dean Academics

Walchand College of Engineering, Sangli

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Credit System for F. Y. M. Tech. (Electronics and Communication Engineering) Sem.-II AY 2024-25

Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
			Professional Core (Theory)									
1	PC	1EC521	Antenna Design	3	0	0	3	3	30	20	50	
2	PC	1EC522	Sensor Networks and Cloud Computing	3	0	0	3	3	30	20	50	
3	PC	1EC523	Wireless and Mobile Communication	3	0	0	3	3	30	20	50	
			Professional Core (Lab)									
3	PC	1EC571	Antenna Design Lab	0	0	2	2	1	30	30	40	
4	PC	1EC572	Sensor Networks and Cloud Computing Lab	0	0	2	2	1	30	30	40	
5	PC	1EC545	Seminar	0	0	2	2	1	30	30	40	
			Professional Elective (Theory)									
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	
			Open Elective									
8	OE	Refer list	Open Elective	3	0	0	3	3	30	20	50	
			Total	18	0	6	24	21				

Professional Elective Course List for F. Y. M. Tech. (Electronics and Communication Engineering) Sem.-II AY 2024-25

Sr.No.	Track	Course Code	Course Name
	Professional Elective 3		
1	Embedded and VLSI	1EC531	Embedded Linux System Design
2	Embedded and VLSI	1EC532	RTL Simulation and Synthesis
3	Signal Processing and Communication	1EC533	Advanced Optical Communication
4	Signal Processing and Communication	1EC534	Biomedical Signal Processing
	Professional Elective 4		
1	Embedded and VLSI	1EC535	Automotive Electronics
2	Embedded and VLSI	1EC536	DSP in VLSI
3	Signal Processing and Communication	1EC537	Pattern Recognition and Image Analysis
4	Signal Processing and Communication	1EC538	Software Defined Radio

HoD   I/c Dean Academics