Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli-416415

1947

Credit System for

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

Semester-I and II

2023-24

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Electronics Engineering) Sem-I 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	7IC501	Research Methodology and IPR	3	0	0	0	3	3	30	20	50	
2	PC	7EN501	Advanced Digital Signal Processing	3	0	0	0	3	3	30	20	50	
3	PC	7EN502	Embedded System Design	3	0	0	0	3	3	30	20	50	
4	PC	7EN503	Digital VLSI Design	3	0	0	0	3	3	30	20	50	
			Professional Core (Lab)										
5	PC	7EN551	Advanced Digital Signal Processing Lab	0	0	2	0	2	1	30	30	40	
6	PC	7EN552	Embedded System Design Lab	0	0	2	0	2	1	30	30	40	
7	PC	7EN553	Digital VLSI Design 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				

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Walchand College of Engg.
Vishrambag, Sangli - 416 415

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

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

Sr.No.	Track	Course Code	Course Name
Professional Elective 1			
1	Embedded and VLSI	7EN511	Embedded Linux Programming
2	Communication and Signal Processing	7EN512	Optical Communication Systems
Professional Elective 2			
1	Communication and Signal Processing	7EN513	Mobile Communication
2	Embedded and VLSI	7EN514	System on Chip

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.

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Vishrambag, Sangli - 416415

Date:

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Electronics) 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	7EN521	Advanced Embedded Programming	3	0	0	0	3	3	30	20	50	
2	PC	7EN522	Sensor Networks and Cloud Computing	3	0	0	0	3	3	30	20	50	
3	PC	7EN523	Automotive Electronics	3	0	0	0	3	3	30	20	50	
			Professional Core (Lab)										
4	PC	7EN571	Advanced Embedded Programming Lab	0	0	2	0	2	1	30	30	40	
5	PR	7EN545	Mini Project :Sensor Networks and Cloud Computing	0	0	2	0	2	1	30	30	40	
6	PR	7EN546	Seminar	0	0	2	0	2	1	30	30	40	
			Professional Elective (Theory)										
7	PE	Refer List	Professional Elective 3	3	0	0	0	3	3	30	20	50	
8	PE	Refer List	Professional Elective 4	3	0	0	0	3	3	30	20	50	
			Open Elective										
9	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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Date:

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

Sr.No.	Track	Course Code	Course Name
Professional Elective 3			
1	Embedded and VLSI	7EN531	Embedded Linux System Design
2	Communication and Signal Processing	7EN532	Biomedical Signal Processing
Professional Elective 4			
1	Embedded and VLSI	7EN533	Design and Analysis of Algorithm
2	Communication and Signal Processing	7EN534	Pattern Recognition and Image Analysis

Open Elective Course List for F. Y. M. Tech. (Electronics) Sem-II AY 2023-24

Sr.No.	Offering Programmes	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 (Electronics Engineering) Programme is allowed for students of all other Programmes (Except Electronics Programme)

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.

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