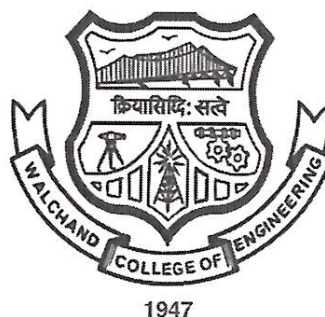# Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416415

1947

Credit System for

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

Sem-I and II

2022-23

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F.Y. M.Tech. (Electronics Engineering) Sem-I AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)														
1	PC	6EN502	Advanced Digital Signal Processing	3	0	0	0	3	3	30	20	50	
2	PC	6EN503	Embedded System Design	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)														
3	PR	6EN501	Research Methodology for Electronics Engineers	0	0	0	2	2	2	30	30	40	
4	PR	6EN545	Advanced Digital Signal Processing Laboratory	0	0	2	0	2	1	30	30	40	POE
5	PR	6EN546	Embedded System Design Laboratory	0	0	2	0	2	1	30	30	40	POE
Professional Elective (Theory)														
6	PE		Professional Elective 1	3	0	0	0	3	3	30	20	50	
7	PE		Professional Elective 2	3	0	0	0	3	3	30	20	50	
Professional Elective (Lab)														
8	PR		Professional Elective 1 Laboratory	0	0	2	0	2	1	30	30	40	OE
9	PR		Professional Elective 2 Laboratory	0	0	2	0	2	1	30	30	40	OE
			Total	12	0	8	2	22	18				

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

Professional Elective Course List for F.Y. M.Tech. (Electronics Engineering) Sem-I AY 2022-23

Sr.No.	Track	Course Code	Course Name
Professional Elective 1			
1	Embedded and VLSI	6EN511	Embedded Linux Programming
2	Communication and Signal Processing	6EN512	Optical Communication Systems
3	Embedded and VLSI	6EN551	Embedded Linux Programming Lab
4	Communication and Signal Processing	6EN552	Optical Communication Systems Lab
Professional Elective 2			
1	Communication and Signal Processing	6EN513	Mobile Communication
2	Embedded and VLSI	6EN514	Digital VLSI Design
3	Communication and Signal Processing	6EN553	Mobile Communication Lab
4	Embedded and VLSI	6EN554	Digital VLSI Design Lab

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. The Y in the PoE indicates external component for ESE. Minimum two AICTE mandatory courses need to be completed for award of degree.

For further details, refer to Academic and Examination rules and regulations.

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Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F.Y. M.Tech. (Electronics Engineering) Sem-II AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)														
1	PC	6EN521	Design and Analysis of Algorithms	3	0	0	0	3	3	30	20	50	
2	PC	6EN522	Wireless Sensor Networks and IoT	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)														
3	PR	6EN591	Design and Analysis of Algorithms Lab	0	0	2	0	2	1	30	30	40	POE
4	PR	6EN592	Wireless Sensor Networks and IoT Lab	0	0	2	0	2	1	30	30	40	POE
5	PR	6EN593	Pre-dissertation Work and Seminar	0	0	4	0	4	2	30	30	40	
Professional Elective (Theory)														
6	PE		Professional Elective 3	3	0	0	0	3	3	30	20	50	
7	PE		Professional Elective 4	3	0	0	0	3	3	30	20	50	
Professional Elective (Lab)														
8	PR		Professional Elective 3 Laboratory	0	0	2	0	2	1	30	30	40	OE
9	PR		Professional Elective 3 Laboratory	0	0	2	0	2	1	30	30	40	OE
Open Elective														
10	OE		Open Elective	3	0	0	0	3	3	30	20	50	
			Total	**15**	**0**	**12**	**0**	**27**	**21**				

by.m.Patil

PG Coordinator

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HoD

Dean Academics

Date:

Professional Elective Course List for F.Y. M.Tech. (Electronics Engineering) Sem-II AY 2022-23

Sr.No.	Track	Course Code	Course Name
Professional Elective 3			
1	Embedded and VLSI	6EN531	Embedded Linux System Design
2	Embedded and VLSI	6EN532	Advanced Embedded Programming
3	Embedded and VLSI	6EN571	Embedded Linux System Design Lab
4	Embedded and VLSI	6EN572	Advanced Embedded Programming Lab
Professional Elective 4			
1	Communication and Signal Processing	6EN533	Pattern Recognition and Image Analysis
2	Communication and Signal Processing	6EN534	Biomedical Signal Processing
3	Communication and Signal Processing	6EN573	Pattern Recognition and Image Analysis Lab
4	Communication and Signal Processing	6EN574	Biomedical Signal Processing Lab

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Open Elective Course List for F.Y. M.Tech. (Electronics Engineering) Sem-II AY 2022-23

Sr.No.	Offering Dept	Sem	Course Code	Course Name
				Open Elective
1	Civil_Env	2	6OE501	Solid Waste Management
2	Civil_Struct	2	6OE502	Structural Health Monitoring
3	Mech_Design	2	6OE503	Industrial Product Design
4	Mech_Heat	2	6OE504	Waste to Energy
5	Mech_Prod	2	6OE505	Advanced Production systems
6	Elect_Power	2	6OE506	Control Techniques for Electrical Drives
7	Elect_Control	2	6OE506	Control Techniques for Electrical Drives
8	CSE	2	6OE509	Machine Learning in Practice
9	IT	2	6OE510	Machine Learning & Applications

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. The Y in the PoE indicates external component for ESE. Minimum two AICTE mandatory courses need to be completed for award of degree.

For further details, refer to Academic and Examination rules and regulations.

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