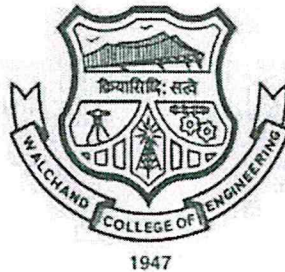# Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415

Credit System for

Final Year B.Tech. (Electronics Engineering)

Sem.-VII and VIII

Applicable to AY 2025 -26

Walchand College of Engineering

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Sr. No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
Professional Core (Theory)														
01	PC	6EN401	Real Time Operating Systems	3	0	0	0	3	3	30	20	50	
02	PC	6EN402	Microwave Communication Engineering	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)														
03	PC	6EN451	Real Time Operating Systems Lab	0	0	2	0	2	1	30	30	40	POE
04	PC	6EN452	Microwave Communication EngineeringLab	0	0	2	0	2	1	30	30	40	POE
05	PR	6EN491	Project-I	0	0	6	0	6	3	30	30	40	OE
Professional Elective (Theory)														
06	PE	Refer list	Elective-5	3	0	0	0	3	3	30	20	50	
07	PE	Refer list	Elective-6	3	0	0	0	3	3	30	20	50	
Professional Elective (Lab)														
08	PE	Refer list	Elective-6 Lab	0	0	2	0	2	1	30	30	40	
Open Elective														
09	OE	Refer List	Open Elective-3	3	0	0	0	3	3	30	20	50	
AICTE Mandatory Course														
10	HS	6HS403	Engineering Economics & Financial Management	2	0	0	0	2	2	30	20	50	
11	HS	6HS402	Design, Technology and Innovation (NPTEL)	0	0	0	2	2	2	30	30	40	
			Total	17	0	12	2	31	25				

Notes:

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Dr. S.D. Ruikar
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Chairman, BoS

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Sr.No.	Track	Course Code	Course Name
Elective-5			
1	Communication & Signal Processing	6EN411	RF Circuit Design
2	Communication & Signal Processing	6EN412	Pattern Recognition And Applications
3	Embedded System & VLSI	6EN413	Advanced Control Systems
Elective-6			
1	Embedded IoT and Networking	6EN414	Internet of Things
2	Embedded System & VLSI	6EN415	Machine Learning
3	Embedded System & VLSI	6EN416	Analog CMOS IC Design
Elective-6 Lab			
1	Embedded IoT and Networking	6EN453	IOT Lab
2	Embedded System & VLSI	6EN454	Machine Learning Lab
3	Embedded System & VLSI	6EN455	Analog CMOS IC Design Lab

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Sr. No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA 1	ISE/LA 2	ESE	Ext
			Professional Core (Lab)										
1	PR	6EN492	Project-II	0	0	12	0	12	6	30	30	40	POE
			Professional Elective (Theory)										
2	PE	Refer List	Professional Elective-7	3	0	0	0	3	3	30	20	50	
3	PE	Refer List	Professional Elective-8	3	0	0	0	3	3	30	20	50	
			AICTE Mandatory Courses										
4	HS	6IC401	Constitution of India	2	0	0	0	2	0	30	20	50	
			Total	8	0	12	0	20	12				

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Sr. No.	Track	Course Code	Course Name
Elective-7			
1	Communication & Signal Processing	6EN431	Radar and Navigation
2	Embedded IoT and Networking	6EN432	Advanced Embedded Programming
3	Embedded System & VLSI	6EN433	System on Chip
Elective-8			
1	Communication & Signal Processing	6EN434	Satellite Communication
2	Communication & Signal Processing	6EN435	Medical Image Analysis
3	Embedded IoT and Networking	6EN436	MEMS

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