

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



1947

Credit System for

Final Year B. Tech. (Electronics Engineering)

Sem.-VII and VIII

Applicable to AY 2024-25 and AY 2025 -26

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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 Engineering Lab	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	6HS401	Humanities-3: Accounting and Finance for Engineers	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:


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 POE/OE indicates external components for ESE.



Minimum two AICTE mandatory courses need to be completed for award of degree.

The contact hours of guide for Final Year B.Tech project are 4 hrs for Sem VII and 8 hours/week for Sem VIII, for 9 students.

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


Prof. S. K. Parchandekar
DAC/Secretary, BoS


Dr. S.D. Ruikar
Head, Electronics Engg. Dept./
Chairman, BoS



Dr. A.K. Kokane
F/C Dean Academics



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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/ LA1	ISE/ LA2	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				


Notes:


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For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The POE/OE indicates external component for ESE.

The contact hours of guide for Final Year B. Tech. Project are 4 hrs for Sem. VII and 8 hours/week for Sem.VIII, for 9 students.

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


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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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