



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F.Y. M. Tech. (Electronics Engineering) Sem-I AY 2020-21

Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	4IC501	Research Methodology	2	0	0	2	2	10	30	10	50
2	PC	4EN501	Advanced Digital Signal Processing	3	0	0	3	3	10	30	10	50
3	PC	4EN502	Embedded System Design	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
4	PC	4EN551	Electronics Lab 1	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
5	PE	Refer list	Professional Elective 1	3	0	0	3	3	10	30	10	50
6	PE	Refer list	Professional Elective 2	3	0	0	3	3	10	30	10	50
Professional Elective (Lab)												
8	PE	4EN552	Electronics Lab 2	0	0	4	4	2	25	25	25	25
Mandatory Life Skill Courses												
9	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
10	VAPC	Refer list						#				
Value Added Life-Skill Courses #												
11	VALS	Refer list						#				
Total				16	0	8	24	18				

Notes:

* For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.

The Value Added Courses are Optional Courses. The mode of teaching (LTPI) & evaluation scheme is decided by the resource person.

The list of Value added courses will be updated from time to time.

The course may be on paid basis. The credits earned from these courses will be shown on grade card.

For SPI and CPI calculation, these courses will be excluded.

@ Minimum 2 mandatory life skill courses are to be completed for award of degree.

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



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Sr.No.	Course Code	Course Name
Professional Elective 1		
1	4EN511	Digital VLSI Design
2	4EN512	Information Theory and Coding
Professional Elective 2		
1	4EN515	Biomedical Signal Processing
2	4EN516	Embedded Linux Programming



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Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	4EN521	Advanced Embedded Programming	3	0	0	3	3	10	30	10	50
2	PC	4EN522	Advanced Communication Networks and IoT	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
3	PC	4EN571	Electronics Lab 3	0	0	4	4	2	25	25	25	25
4	PC	4EN572	Industrial Project	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
5	PE	Refer list	Professional Elective 3	3	0	0	3	3	10	30	10	50
6	PE	Refer list	Professional Elective 4	3	0	0	3	3	10	30	10	50
Professional Elective (Lab)												
7	PE	4EN573	Electronics Lab 4	0	0	4	4	2	25	25	25	25
Mandatory Life Skill Courses												
8	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
9	VAPC							#				
Value Added Life-Skill Courses #												
10	VALS							#				
Total				14	0	12	26	18				

Notes:

- * For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.
- # The Value Added Courses are Optional Courses. The mode of teaching (LTPI) & evaluation scheme is decided by the resource person.
The list of Value added courses will be updated from time to time.
The course may be on paid basis. The credits earned from these courses will be shown on grade card.
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Sr.No.	Course Code	Course Name
Professional Elective 3		
1	4EN531	RTL Simulation and Synthesis with PLDs
2	4EN532	Pattern Recognition and Image Analysis
Professional Elective 4		
1	4EN535	Wireless Sensor Networks
2	4EN536	System On Chip