Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for

Final Year B.Tech. (Electronics Engineering)
Sem-VII and VIII

AY 2020-21

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for Final Year B.Tech. (Electronics Engineering) Sem-VII   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	3EN401	Real Time Operating System	3	0	0	3	3	10	30	10	50
2	PC	3EN402	Computer Network and Protocols	3	1	0	4	4	10	30	10	50
			Professional Core (Lab)									
3	PC	3EN451	RTOS Lab	0	0	2	2	1	25	25	25	25
4	PC	3EN491	Project 1	0	0	8	8	4	25	25	25	25
			Professional Elective (Theory)									
5	PE	Refer list	Professional Elective 4	3	0	0	3	3	10	30	10	50
6	PE	Refer list	Professional Elective 5	3	1	0	4	4	10	30	10	50
			Professional Elective (Lab)									
7	PE	Refer list	Professional Elective 4 Lab	0	0	2	2	1	25	25	25	25
			Open Elective									
8	OE	Refer list	Open Elective 3	3	0	0	3	3	10	30	10	50
			Value Added Professional Courses #									
			--									
			Value Added Life-Skill Courses #									
			--									
			Total	15	2	12	29	23				

Walchand College of Engineering, Sangli
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Course List for Final Year B.Tech. (Electronics Engineering) Sem-VII   AY 2020-21

Sr.No.	Course Code	Course Name
Professional Elective 4	
1	3EN411	Analog VLSI Design
2	3EN412	System on Chip
3	3EN413	Microwave Communication

Sr.No.	Course Code	Course Name
Professional Elective 5	
1	3EN414	Digital System Engineering
2	3EN415	Mobile Communication Engineering
3	3EN416	Wireless Sensor Network

Sr.No.	Course Code	Course Name
Professional Elective 4 Lab	
1	3EN452	Analog VLSI Design Lab
2	3EN453	System on Chip Lab
3	3EN454	Microwave Communication Lab

Sr.No.	Course Code	Course Name
Open Elective 3	
1	1OE402	Finite Element Method
2	1OE416	Concrete Engineering and Technology
3	1OE417	Computational Methods and Optimization Techniques
4	1OE429	Automobile Engineering
5	1OE443	Industrial Automation
6	1OE457	Cyber Physical Systems
7	1OE471	Business Intelligence
8	1OE485	Data Visualization and Interpretation

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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) is decided by the resource person.

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

   These courses will be offered as per availability of faculty

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

$ Contact hours of each Final Year BTech project batch (of min 5 students) with the guide shall be 1 hour/week.

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

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Credit System for Final Year B.Tech. (Electronics Engineering) Sem-VIII 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	HS	3IC401	Engineering Management and Ethics	4	0	0	4	4	10	30	10	50
			Professional Core (Lab)									
2	PC	3EN492	Project 2	0	0	16	16	8	25	25	25	25
			Professional Elective (Theory)									
3	PE	Refer list	Professional Elective 6	3	0	0	3	3	10	30	10	50
			Value Added Professional Courses #									
			--									
			Value Added Life-Skill Courses #									
			--									
			Total	7	0	16	23	15				

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Course List for Final Year B.Tech. (Electronics Engineering) Sem-VIII   AY 2020-21

Sr.No.	Course Code	Course Name
		Professional Elective 6
1	3EN431	VLSI DSP
2	3EN432	Satellite Communication

Notes:

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

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