

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)



Credit System for

Final Year B.Tech. (Computer Science and Engineering)

Sem-VII and VIII

AY 2020-21



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Credit System for Final Year B.Tech. (Computer Science and 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	3CS401	Information Security	3	0	0	3	3	10	30	10	50	
2	PC	3CS402	Data Warehousing & Data Mining	3	0	0	3	3	10	30	10	50	
3	HS	3IC401	Engineering management and ethics	4	0	0	4	4	10	30	10	50	
Professional Core (Lab)													
4	PC	3CS451	Information Security Lab	0	0	2	2	1	25	25	25	25	
5	PC	3CS452	Data Warehousing & Data Mining Lab	0	0	2	2	1	25	25	25	25	
6	PC	3CS491	Project-1	0	0	4	4	2	25	25	25	25	
Professional Elective (Theory)													
7	PE	Refer list	Professional Elective 5	3	1	0	4	4	10	30	10	50	
8	PE	Refer list	Professional Elective 6	3	0	0	3	3	10	30	10	50	
Open Elective													
9	OE	Refer list	Open Elective 3	3	0	0	3	3	10	30	10	50	
Value Added Professional Courses #													
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Value Added Life-Skill Courses #													
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Total				19	1	8	28	24					



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Sr.No.	Course Code	Course Name
Professional Elective 5		
1	3CS411	High Performance Computing
2	3CS412	Machine learning

Professional Elective 6		
1	3CS414	Software Defined Network
2	3CS415	Software Design and Architecture
3	3CS416	RTOS and Embedded Systems

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 & 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. (Computer Science and 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)													
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Professional Core (Lab)													
1	PC	3CS492	Project 2	0	0	20	20	10	25	25	25	25	
2	PC	3CS493	Techno Socio Outreach	1	0	0	1	1	25	25	25	25	
Professional Elective (Theory)													
3	PE	Refer list	Professional Elective 7	3	0	0	3	3	10	30	10	50	
Value Added Professional Courses #													
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Value Added Life-Skill Courses #													
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Total				4	0	20	24	14					



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Sr.No.	Course Code	Course Name
Professional Elective 7		
1	3CS431	Computer Forensic
2	3CS432	Search Engine Design and Optimization
3	3CS433	Storage Systems

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