

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)



Credit System for

T.Y. B.Tech. (Computer Science and Engineering)

Sem-V and VI

AY 2020-21



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Credit System for T.Y. B.Tech. (Computer Science and Engineering) Sem-V 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	4CS301	Compiler Design	3	1	0	4	4	10	30	10	50	
2	PC	4CS302	Design and Analysis of Algorithms	3	0	0	3	3	10	30	10	50	
3	PC	4CS303	Computer Graphics	2	0	0	2	2	10	30	10	50	
4	HS	4HS307	Fundamentals of Management and Economics for Engineers	4	0	0	4	4	10	30	10	50	
Professional Core (Lab)													
5	PC	4CS352	Design and Analysis of Algorithms Lab	0	0	2	2	1	25	25	25	25	
6	PC	4CS353	Computer Graphics Lab	0	0	2	2	1	25	25	25	25	
7	PC	4CS341	Mini Project 1	0	0	2	2	1	25	25	25	25	
8	PC	4CS354	Programming Lab 3	0	0	4	4	2	25	25	25	25	
Professional Elective (Theory)													
9	PE	Refer list	Professional Elective 1	3	0	0	3	3	10	30	10	50	
Open Elective													
10	OE	Refer list	Open Elective 1	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				18	1	10	29	24					



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Sr.No.	Course Code	Course Name
Professional Elective 1		
1	4CS311	Machine learning
2	4CS312	Digital Image Processing
3	4CS313	Internet (Web) of Things
Open Elective 1		
1	4OE315	Remote Sensing & GIP, GPS
2	4OE330	Energy Engineering
3	4OE343	Electrical Machine Technology
4	4OE357	Electronic Systems

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.

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



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Professional Core (Theory)													
1	PC	4CS321	Cloud Computing	3	0	0	3	3	10	30	10	50	
2	PC	4CS322	Advanced Database System	3	0	0	3	3	10	30	10	50	
Professional Core (Lab)													
3	PC	4CS372	Advanced Database System Lab	0	0	2	2	1	25	25	25	25	
4	PC	4CS342	Mini Project 2	0	0	2	2	1	25	25	25	25	
Professional Elective (Theory)													
5	HS	Refer list	Elective Foundation Course in Humanities	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)													
7	CS	Refer list	Professional Elective Lab 1	0	0	4	4	2	25	25	25	25	
Open Elective													
8	OE	Refer list	Open Elective 2	3	0	0	3	3	10	30	10	50	
Value Added Professional Courses #													
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Value Added Life-Skill Courses #													
--													
Total				15	0	8	23	19					



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Sr.No.	Course Code	Course Name
Elective Foundation Course in Humanities		
1	4HS301	Law and Engineering
2	4HS305	Foreign Language-German
3	4HS306	Human Relations at Work

Professional Elective 2		
1	4CS331	Soft Computing
2	4CS332	Computer Vision
3	4CS333	Advanced Computer Network
4	4CS334	Remote Sensing and Geographic Information System
5	4CS335	Deep Learning

Professional Elective Lab 1		
1	4CS381	Advanced Web and Mobile Application Development Lab
2	4CS382	Software Engineering Tools Lab

Open Elective 2		
1	4OE309	Theory of Structures
2	4OE337	Joining Technology
3	4OE338	Mechanical Power Transmission
4	4OE350	Renewable Energy
5	4OE366	Biomedical Instrumentation



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