

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416415



Credit System for T.Y. B.Tech. (Computer Science and Engineering) Sem-V and VI

2022-23



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Credit System for T.Y. B.Tech. (Computer Science and Engineering) Sem-V AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
Professional Core (Theory)													
1	PC	5CS301	Compiler Design	3	0	0	0	3	3	30	20	50	
2	PC	5CS302	Design and Analysis of Algorithms	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
3	PC	5CS351	Design and Analysis of Algorithms Lab	0	0	2	0	2	1	30	30	40	
4	PC	5CS352	Programming Lab 3	0	0	2	0	2	1	30	30	40	POE
5	PR	5CS345	Mini-Project-1	0	0	2	0	2	1	30	30	40	POE
6	PR	5CS346	Mini-Project-2	0	0	2	0	2	1	30	30	40	
7	HS	5HS302	Humanities-1: Human Relations at Work	0	0	0	3	3	3	30	30	40	
Professional Elective (Theory)													
8	PE	Refer list	Elective 1	3	0	0	0	3	3	30	20	50	
Professional Elective (Lab)													
9	PE	Refer list	Elective 2 Lab	0	0	2	0	2	1	30	30	40	
Open Elective													
10	OE	Refer list	Open Elective-1	2	0	0	0	2	2	30	20	50	
11	OE	Refer list	Open Elective-2	3	0	0	0	3	3	30	20	50	
Total				14	0	10	3	27	22				

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 Y in the PoE indicates external component for ESE.

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



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Elective Course List for T.Y. B.Tech. (Computer Science and Engineering) Sem-V AY 2022-23

Sr.No.	Track	Course Code	Course Name
Elective 1			
1	Image Processing	5CS311	Image Processing
2	AI&ML	5CS312	Artificial Intelligence and Machine Learning
3	Computer Network & Security	5CS313	Internet (Web) of Things
4	Image Processing	5CS314	Computer Graphics
5	Computing	5CS316	MOOC course on Introduction to Game Theory and Mechanism Design
Elective 2 Lab			
1	Image Processing	5CS353	Image Processing Lab
2	AI&ML	5CS354	Artificial Intelligence and Machine Learning Lab
3	Computer Network & Security	5CS355	Internet (Web) of Things Lab
4	Image Processing	5CS356	Computer Graphics Lab
5	Computing	5CS358	Introduction to Game Theory and Mechanism Design Lab



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Open Elective Course List for T.Y. B.Tech. (Computer Science and Engineering) Sem-V AY 2022-23

Sr.No.	Offering Dept	Sem	Course Code	Course Name
Open Elective 1				
1	Civil	5	5OE301	Basic Civil Engineering
2	Mech	5	5OE330	Energy Engineering
3	Elect	5	5OE343	Electrical Machine Technology
4	Civil	5	5OE301	Basic Civil Engineering
5	Eln	5	5OE356	Signals and Systems
6	Mech	5	5OE330	Energy Engineering
7	Elect	5	5OE343	Electrical Machine Technology
8	Eln	5	5OE356	Signals and Systems
Open Elective 2				
1	Civil	5	5OE315	Application of Remote Sensing
2	Mech	5	5OE329	Non-conventional Machining Processes
3	Civil	5	5OE315	Application of Remote Sensing
4	Eln	5	5OE357	Introduction to Electronics system
5	Mech	5	5OE329	Non-conventional Machining Processes
6	Eln	5	5OE357	Introduction to Electronics system



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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)													
1	PC	5CS321	Cloud Computing	3	0	0	0	3	3	30	20	50	
2	PC	5CS322	Advanced Database System	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
3	PC	5CS371	Advanced Database System Lab	0	0	2	0	2	1	30	30	40	POE
4	PR	5CS347	Mini-Project-3	0	0	2	0	2	1	30	30	40	POE
5	PR	5CS348	Mini-Project-4	0	0	2	0	2	1	30	30	40	
6	HS	5HS301	Humanities-2: German Language	0	0	0	3	3	3	30	30	40	
Professional Elective (Theory)													
7	PE	Refer list	Elective 3	2	0	0	0	2	2	30	20	50	
Professional Elective (Lab)													
8	PE	Refer list	Elective 4 Lab	0	0	4	0	4	2	30	30	40	
Open Elective													
9	OE	Refer list	Open Elective-3	2	0	0	0	2	2	30	20	50	
10	OE	Refer list	Open Elective-4	3	0	0	0	3	3	30	20	50	
Total				13	0	10	3	26	21				

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 Y in the PoE indicates external component for ESE.

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Sr.No.	Track	Course Code	Course Name
Elective 3			
1	Image Processing	5CS331	Remote Sensing and Geographic Information System
2	Computer Network & Security	5CS332	Advanced Computer Network
3	AI&ML	5CS333	Deep Learning
4	AI&ML	5CS334	Soft Computing
Elective 4 Lab			
1	Computer Network & Security	5CS373	Advanced Web and Mobile Application Development Lab
2	Computing	5CS372	Software Engineering Tools Lab



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Sr.No.	Offering Dept	Sem	Course Code	Course Name
Open Elective 3				
1	Civil	6	5OE322	Physical Geology
2	Mech	6	5OE336	3D Printing
3	Civil	6	5OE322	Physical Geology
4	Eln	6	5OE364	Cyber Physical System
5	Mech	6	5OE336	3D Printing
6	Eln	6	5OE364	Cyber Physical System
Open Elective 4				
1	Civil	6	5OE323	Diaster Management
2	Mech	6	5OE337	Basics of Automobile Engineering
3	Civil	6	5OE323	Diaster Management
4	Eln	6	5OE365	Biomedical Engineering
5	Mech	6	5OE337	Basics of Automobile Engineering
6	Eln	6	5OE365	Biomedical Engineering