Walchand College of Engineering

(Government Aided Autonomous Institute) Vishrambag, Sangli. 416415



*** Platinum Jubilee Year ***

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

2021-22



(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Computer Science and Engineering) Sem-V AY 2021-22

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	T1/LA1	T2/LA2	ESE
	Professional Core (Theory)											
1	PC		Compiler Design	3	0	0	0	3	3	20	20	60
2	PC		Design and Analysis of Algorithms	3	0	0	0	3	3	20	20	60
	Professional Core (Lab)											
3	PC		Design and Analysis of Algorithms Lab	0	0	2	0	2	1	30	30	40
4	PC		Programming Lab 3	0	0	2	0	2	1	30	30	40
5	PR		Mini-Project-1	0	0	2	0	2	1	30	30	40
6	PR		Mini-Project-2	0	0	2	0	2	1	30	30	40
7	HS		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	20	20	60
			Professional Elective (Lab)									
9	PE	Refer list	Elective 2 Lab 0 0 2 0 2				1	30	40			
			Open Elective									
10	OE	Refer list	Open Elective-1	2	0	0	0	2	2	20	20	60
11	OE	Refer list	Open Elective-2	3	0	0	0	3	3	20	20	60
	Value Added Professional Courses #											
			Value Added Life-Skill Courses #									
											·	
			Total	14	0	10	3	27	22			

HoD Dean Academics Page 2/7 Date: 07/08/2021



(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Computer Science and Engineering) Sem-V AY 2021-22

Sr.No.	Track	Course Code	Course Name					
	Elective 1							
1	Image Processing		Image Processing					
2	AI and ML		Artificial Intelligence and Machine Learning					
3	Computer Network and Security		Internet (Web) of Things					
4	Image Processing		Computer Graphics					
5	Computing		MOOC on Parallel Programming					
		Elective 2	Lab					
1	Image Processing		Image Processing Lab					
2	AI and ML		Artificial Intelligence and Machine Learning Lab					
3	Computer Network and Security		Internet (Web) of Things Lab					
4	Image Processing		Computer Graphics Lab					
5	Computing		Parallel Programming Lab					

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(Government Aided Autonomous Institute)

Open Elective Course List for T.Y. B.Tech. (Computer Science and Engineering) Sem-V AY 2021-22

Sr.No.	Offering Dept	Sem	Course Code Course Name							
	Open Elective 1									
1	Civil	5		Basic Civil Engineering						
2	Mech	5		Energy Engineering						
3	Elect	5	Electrical Machine Technology							
4	Eln	5		Signals and Systems						
			Or	pen Elective 2						
1	Civil	5		Application of Remote Sensing						
2	Mech	5	Non-conventional Machining Processes							
3	Eln	5	Introduction to Electronics system							

Notes:

For Lab courses: There shall be only internal continuous assessment (LA1, LA2, ESE). LA1 and LA2 together shall be Lab ISE. The ESE is a separate head of passing. For Theory courses: There shall be two tests (T1 and T2) and one ESE. The ESE is a separate head of passing.

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

The credits earned from these courses will be shown on grade card. For SGPA and CGPA calculation, these courses will be excluded.

The list of Value added courses will be updated from time to time. The courses may be on paid basis. These courses will be offered as per availability of faculty.

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

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(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Computer Science and Engineering) Sem-VI AY 2021-22

Sr.No.	Category	Course Code	Course Name		L	T	P	I	Hrs	Cr	T1/LA1	T2/LA2	ESE
	Professional Core (Theory)												
1	PC		Cloud Computing		3	0	0	0	3	3	20	20	60
2	PC		Advanced Database System		3	0	0	0	3	3	20	20	60
	Professional Core (Lab)												
3	PC		Advanced Database System Lab		0	0	2	0	2	1	30	30	40
4	PR		Mini-Project-3		0	0	2	0	2	1	30	30	40
5	PR		Mini-Project-4		0	0	2	0	2	1	30	30	40
6	HS		Humanities-2: German Language		0	0	0	3	3	3	30	30	40
	Professional Elective (Theory)												
7	PE	Refer list	Elective 3			0	0	0	2	2	20	20	60
	Professional Elective (Lab)												
8	PE	Refer list					4	0	4	2	30	30	40
			Open Elective	e									
9	OE	Refer list	Open Elective-3		2	0	0	0	2	2	20	20	60
10	OE	Refer list	Open Elective-4		3	0	0	0	3	3	20	20	60
	Value Added Professional Courses #												
	Value Added Life-Skill Courses #												
			,										
				Total	13	0	10	3	26	21			

HoD Dean Academics Page 5/7 Date: 07/08/2021



(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Computer Science and Engineering) Sem-VI AY 2021-22

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

HoD Dean Academics Page 6/7 Date: 07/08/2021



(Government Aided Autonomous Institute)

Open Elective Course List for T.Y. B.Tech. (Computer Science and Engineering) Sem-VI AY 2021-22

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

Notes:

For Lab courses: There shall be only internal continuous assessment (LA1, LA2, ESE). LA1 and LA2 together shall be Lab ISE. The ESE is a separate head of passing. For Theory courses: There shall be two tests (T1 and T2) and one ESE. The ESE is a separate head of passing.

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