Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416415

Credit System for

T.Y. B.Tech. (Information Technology)

Sem-V and VI

2022-23

Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Information Technology) 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	5IT301	Database Engineering	2	0	0	0	2	2	30	20	50	
2	PC	5IT302	Operating System	3	0	0	0	3	3	30	20	50	
3	PC	5IT303	Computer Algorithm	2	0	0	0	2	2	30	20	50	
			Professional Core (Lab)										
4	PC	5IT351	Database Engineering Lab	0	0	2	0	2	1	30	30	40	POE
5	PC	5IT352	Computer Algorithm Lab	0	0	2	0	2	1	30	30	40	POE
6	PR	5IT345	Mini-Project-2	0	0	2	0	2	1	30	30	40	POE
7	PR	5IT346	Mini-Project-3	0	0	2	0	2	1	30	30	40	
8	HS	5HS302	Humanities-1: Human Relations at Work	0	0	0	3	3	3	30	30	40	
			Professional Elective (Theory)										
9	PE	Refer list	Elective-1	3	0	0	0	3	3	30	20	50	
			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	**15**	**0**	**8**	**3**	**26**	**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.

Walchand College of Engineering
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Elective Course List for T.Y. B.Tech. (Information Technology) Sem-V AY 2022-23

Sr.No.	Track	Course Code	Course Name
Elective-1			
1	Distributed System	5IT311	Distributed Computing
2	Programming and Internet Technology	5IT312	Advanced Programming Langauges
3	Network Systems and Applications	5IT313	Graph Theory
4	Data Science	5IT314	Fundamentals of Artificial Intelligence
5	Interdisciplinary IT	5IT315	Soft Computing
6	Distributed System	5IT316	Data Management, Protection and Governance

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Open Elective Course List for T.Y. B.Tech. (Information Technology) 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	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	Elect	5	5OE344	Industrial Instrumentation
4	Eln	5	5OE357	Introduction to Electronics system

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Credit System for T.Y. B.Tech. (Information Technology) Sem-VI 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	5IT321	Unix Operating System	2	0	0	0	2	2	30	20	50	
2	PC	5IT322	Parallel Computing	2	1	0	0	3	3	30	20	50	
			Professional Core (Lab)										
3	PC	5IT371	Unix Operating System Lab	0	0	2	0	2	1	30	30	40	POE
4	PC	5IT372	Web Technology Lab	0	0	2	1	3	2	30	30	40	POE
5	PR	5IT347	Mini-Project-4	0	0	2	0	2	1	30	30	40	POE
6	PR	5IT348	Mini-Project-5	0	0	2	0	2	1	30	30	40	
7	HS	5HS301	Humanities-2: German Language	0	0	0	3	3	3	30	30	40	
			Professional Elective (Theory)										
8	PE	Refer list	Elective-2	3	0	0	0	3	3	30	20	50	
			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	12	1	8	4	25	21				

Notes:

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

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Elective Course List for T.Y. B.Tech. (Information Technology) Sem-VI AY 2022-23

Sr.No.	Track	Course Code	Course Name
	Elective-2		
1	Distributed System	5IT331	Fundamentals of Distributed Operating Systems
2	Programming and Internet Technology	5IT332	Full Stack Development
3	Network Systems and Applications	5IT333	5G Technology
4	Data Science	5IT334	Data Handling and Machine Learning
5	Interdisciplinary IT	5IT335	IoT Systems and Applications

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Open Elective Course List for T.Y. B.Tech. (Information Technology) Sem-VI AY 2022-23

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	Elect	6	5OE350	Renewable Energy
4	Eln	6	5OE364	Cyber Physical System
Open Elective 4				
1	Civil	6	5OE323	Diaster Management
2	Mech	6	5OE337	Basics of Automobile Engineering
3	Elect	6	5OE351	Energy Management
4	Eln	6	5OE365	Biomedical Engineering