

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416415



***** Platinum Jubilee Year *****

**Credit System for
T.Y. B.Tech. (Information Technology)
Sem-V and VI**

2021-22



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Information Technology) 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		Database Engineering	2	0	0	0	2	2	20	20	60
2	PC		Operating System	3	0	0	0	3	3	20	20	60
3	PC		Computer Algorithm	2	1	0	0	3	3	20	20	60
Professional Core (Lab)												
4	PC		Database Engineering Lab	0	0	2	0	2	1	30	30	40
5	PR		Mini-Project 2	0	0	2	0	2	1	30	30	40
6	PR		Mini-Project 3	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
Open Elective												
9	OE	Refer list	Open Elective 1	2	0	0	0	2	2	20	20	60
10	OE	Refer list	Open Elective 2	3	0	0	0	3	3	20	20	60
Value Added Professional Courses #												
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Value Added Life-Skill Courses #												
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Total				15	1	6	3	25	22			



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Elective Course List for T.Y. B.Tech. (Information Technology) Sem-V AY 2021-22

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



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Open Elective Course List for T.Y. B.Tech. (Information Technology) 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
Open Elective 2				
1	Civil	5		Application of Remote Sensing
2	Mech	5		Non-conventional Machining Processes
3	Elect	5		Industrial Instrumentation
4	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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Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	T1/LA1	T2/LA2	ESE
Professional Core (Theory)												
1	PC		Unix Operating System	2	0	0	0	2	2	20	20	60
2	PC		Parallel Computing	2	1	0	0	3	3	20	20	60
Professional Core (Lab)												
3	PC		Unix Operating System Lab	0	0	2	0	2	1	30	30	40
4	PC		Web Technology Lab	0	0	2	1	3	2	30	30	40
5	PR		Mini-Project 4	0	0	2	0	2	1	30	30	40
6	PR		Mini-Project 5	0	0	2	0	2	1	30	30	40
7	HS		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	20	20	60
Open Elective												
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 #												
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Value Added Life-Skill Courses #												
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Total				12	1	8	4	25	21			



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Elective Course List for T.Y. B.Tech. (Information Technology) Sem-VI AY 2021-22

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



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Open Elective Course List for T.Y. B.Tech. (Information Technology) 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	Elect	6		Renewable Energy
4	Eln	6		Cyber Physical System
Open Elective 4				
1	Civil	6		Diaster Management
2	Mech	6		Basics of Automobile Engineering
3	Elect	6		Energy Management
4	Eln	6		Biomedical Engineering

Notes:

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