

# **Walchand College of Engineering**

(Government Aided Autonomous Institute)

**Vishrambag, Sangli. 416 415**



**Credit System for**

**T.Y. B. Tech. (Computer Science & Engineering)**

**Sem-V and VI**

**AY 2023-24**

# Walchand College of Engineering<sup>6</sup>

(Government Aided Autonomous Institute)

## Credit System for T.Y. B. Tech. (Computer Science & Engineering) Sem-V AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
<b>Professional Core (Theory)</b>													
01	PC	6CS301	Compiler Design	3	0	0	0	3	3	30	20	50	
02	PC	6CS302	Design and Analysis of Algorithms	3	0	0	0	3	3	30	20	50	
03	PC	6CS303	Artificial Intelligence	3	0	0	0	3	3	30	20	50	
<b>Professional Core (Lab)</b>													
04	PC	6CS351	Design and Analysis of Algorithms Laboratory	0	0	2	0	2	1	30	30	40	
05	PC	6CS352	Programming Laboratory III	0	0	2	1	3	2	30	30	40	POE
06	PR	6CS341	Mini-Project I	0	0	2	0	4	2	30	30	40	POE
<b>Professional Elective (Theory)</b>													
07	PE	Refer List	Elective 1	3	0	0	0	3	3	30	20	50	
<b>Open Elective</b>													
08	OE	Refer List	Open Elective 1	3	0	0	0	3	3	30	20	50	
<b>Humanities</b>													
09	HS	6CS353	Humanities I: Project Management and Ethics	0	0	0	2	2	2	30	30	40	
10	HS	6HS301	Integrated/ Employability Skills-1	0	0	0	2	2	2	30	30	40	
<b>Total</b>				<b>15</b>	<b>0</b>	<b>06</b>	<b>05</b>	<b>28</b>	<b>24</b>				

**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 POE/OE indicates external component for ESE.

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



Dr. N. L. Gavankar  
DAC/Secretary, BoS



Dr. M. A. Shah  
Head, (CSE) / Chairman, BoS



Dr. Mrs. S. P. Sonavane  
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**Elective Course List for T.Y. B.Tech. (Computer Science & Engineering) Sem-V AY 2023-24**

Sr.No.	Track	Course Code	Course Name
<b>Professional Elective I</b>			
01	Image Processing	6CS311	Image Processing
02	Computer and Network Security	6CS312	Internet of Things

Sr.No.	Offering Dept.	Course Code	Course Name
<b>Open Elective-1</b>			
01	Civil Engg.	6OE301	Building Planning and Design
02	Civil Engg.	6OE302	Disaster Management
03	Applied Mechanics Dept	6OE315	Theory of structures
04	Mechanical Engg.	6OE329	Non-Conventional Machining Processes
05	Electrical Engg.	6OE343	Electrical Machine Technology
06	Electronics Engg.	6OE357	Introduction to Electronic Systems
07	Electronics Engg.	6OE358	Signals and Systems
08	CSE Engg.*	6OE371	Data Science
09	IT Engg.	6OE385	Cloud Computing System
10	IT Engg.	6OE386	Joy of Python Programming
11	IT Engg.	6OE387	Data Science for Engineers

Open Elective-1 offered by **Department of Computer Science & Engineering** is allowed for students of all other departments (Except Department of Computer Science & Engineering)



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Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
<b>Professional Core (Theory)</b>													
01	PC	6CS321	Cloud Computing	3	0	0	0	3	3	30	20	50	
02	PC	6CS322	Advanced Database System	3	0	0	0	3	3	30	20	50	
03	PC	6CS323	Machine Learning	3	0	0	0	3	3	30	20	50	
<b>Professional Core (Lab)</b>													
04	PC	6CS371	Advanced Database System Laboratory	0	0	2	0	2	1	30	30	40	POE
05	PC	6CS372	Machine Learning Laboratory	0	0	2	0	2	1	30	30	40	
06	PR	6CS342	Mini-Project II	0	0	4	0	4	2	30	30	40	POE
<b>Professional Elective (Theory)</b>													
07	PE	Refer List	Elective II	3	0	0	0	3	3	30	20	50	
<b>Professional Elective (Lab)</b>													
08	PE	Refer List	Elective III Lab	0	0	2	1	3	2	30	30	40	
<b>Open Elective</b>													
09	OE	Refer List	Open Elective II	3	0	0	0	3	3	30	20	50	
<b>Humanities</b>													
10	HS	Refer List	Humanities II	0	0	0	2	2	2	30	30	40	
11	HS	6HS302	Integrated/ Employability Skills-2	0	0	0	2	2	2	30	30	40	
Total				15	0	10	05	30	25				


**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 POE/OE indicates external component for ESE.

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

  
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Page No. 4/5  
Date: 26/07/2023

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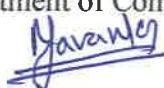
## Elective Course List for T.Y. B.Tech. (Computer Science & Engineering) Sem-VI AY 2023-24

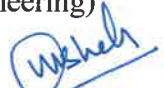
Sr.No.	Track	Course Code	Course Name
<b>Professional Elective II</b>			
01	Image Processing	6CS331	Remote Sensing & GIS
02	Computing	6CS332	Soft Computing
03	Computer and Network Security	6CS333	Wireless Sensor Network
<b>Professional Elective III Lab</b>			
01	Computing	6CS381	IOS Lab
02	Computing	6CS382	Robotics Lab


Sr.No.	Offering Dept.	Course Code	Course Name
<b>Open Elective-2</b>			
01	Civil Engg.	6OE308	Ecology
02	Civil Engg.	6OE309	Solid Waste Management
03	Applied Mechanics Dept	6OE322	Maintenance and Rehabilitation of Structures
04	Mechanical Engg.	6OE336	Basics of Automobile Engineering
05	Electrical Engg.	6OE350	Industrial Automation
06	Electronics Engg.	6OE364	Cyber Physical Systems
07	Electronics Engg.	6OE365	Biomedical Engineering
08	CSE *	6OE378	Soft Computing
09	IT	6OE392	Web Development and Applications
10	IT	6OE393	Fundamentals of Machine Learning
11	IT	6OE394	Remote Sensing and Geographical Information Systems

Sr.No.	Course Code	Course Name
<b>Humanities-II</b>		
01	6HS303	German Language
02	6HS304	French Language
03	6HS305	Japanese Language
04	6HS306	Introduction to Entrepreneurship

\* Open Elective-2 offered by **Department of Computer Science & Engineering** is allowed for students of all other departments (Except Department of Computer Science & Engineering)

  
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Page No. 5/5  
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