# Walchand College of Engineering (Government Aided Autonomous Institute)

(Government Aided Autonomous Institute) Vishrambag, Sangli-416415



Credit System for
F. Y. M. Tech. (Computer Science & Engineering)
Semester-I and II

**2024-25 Onwards** 



## Walchand College of Engineering, Sangli (Government Aided Autonomous Institute)

## Credit System for F. Y. M. Tech. (Computer Science & Engineering) Sem-I AY 2024-25

Sr. No.	Category	Course Code	Course Name		L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
			Professional (	Core (Theory)	HINDUS PAR		SELECTION SOLE	Christian Back S	(Internal Section				remark
1	PC	7IC501	Research Methodology and IPR		3	0	0	3	3	30	20	50	
2	PC	7CO501	Advanced Data Structures		3	0	0	3	3	30	20	50	
3	PC	7CO504	Data Science		3	0	0	3	3	30	20	50	-
4	PC	7CO503	Mathematical Foundation of Computer Science		3	0	0	3	2	30	20		
				Core (Lab)		0	U	1 3	_ 3	30	20 .	50	
5	PR	7CO551	Advanced Data Structures Lab	Core (Eab)	0	0	2	1 2	1	30	20	40	
6	PR	7CO554	Data Science Lab		0	0	2	2	1		30	40	
7	PR	7CO553	Presentation and Technical Report Writing		0	0	2	2	1	30	30	40	
		an sele	Professional El	ective (Theory)	100	0			1	30	30	40	
8	PE	REFER LIST	Professional Elective 1	cetive (Theory)		0 1			_	T 20 T			
9	PE		Professional Elective 2		3	0	0	3	3	30	20	50	
			Trotossional Dicettive Z	Total	3	0	0	3	3	30	20	50	
				Total	18	0	6	24	21				

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### Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

### Professional Elective Course List for F. Y. M. Tech. (Computer Science & Engineering) Sem-I AY 2024-25

Sr. No.	Track	Course Code	Course Name				
		Professional E	Elective 1				
1	IP & CV	7CO511	Image Processing/NPTEL Course				
2	Computing	7CO516	Computational Complexity /NPTEL Course				
3			Human Computer Interaction/NPTEL Course				
		Professional E	lective 2				
1	Artificial Intelligence	7CO517	Artificial Intelligence/NPTEL Course				
2	Network Security	7CO515	Advanced Network Technologies/NPTEL Course				
3	Computing		Cloud Computing/NPTEL Course				
4	Multidisciplinary		Internet of Things/NPTEL Course				

#### 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. Minimum two AICTE mandatory courses need to be completed for award of degree.

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

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## Walchand College of Engineering, Sangli (Government Aided Autonomous Institute)

## Credit System for F. Y. M. Tech. (Computer Science & Engineering) Sem-II AY 2024-25

Sr. No.	Category	Course Code	Course Name		L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
			Professional C	ore (Theory)	TO PROPERTY.	SENSIBELIES.		Hemmeditian				tions shapp	
1	PC	7CO521	Advanced Computer Algorithms		3	0	0	3	3	30	20	50	
2	PC_	7CO524	High Performance Computing		3	0	0	3	3	30	. 20	50	
3	PC	7CO523	Information Security	-	3	0	0	3	3	30	20	50	
			Professional	Core (Lab)			-		3	] 30 ]	20	50	
4	PR	7CO571	Advanced Computer Algorithms Lab	(_42)	0	0	2	2	1	30	30	40	
5	PR	7CO574	High Performance Computing Lab		0	0	2	2	1	30	30	40	
6	PR	7CO545	Pre-Dissertation Work and Seminar		0	0	2	2	1	30	30	40	
			Professional Elec	ctive (Theory)		U I				30	30	40	
7	PE	REFER LIST	Professional Elective 3	(======================================	3	0	0	3	3	30	20	50	
8	PE	REFER LIST	Professional Elective 4		3	0	0	3	3	30	20	50	
			Open El	ective		0	U	3		30	20	30	
9	OE	REFER LIST	Open Elective	i i i i i i i i i i i i i i i i i i i	3	0	0	3	3	30	20	50	
		*		Total	18	0	6	24	21	50	20	50	

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## Walchand College of Engineering, Sangli (Government Aided Autonomous Institute)

## Professional Elective Course List for F. Y. M. Tech. (Computer Science & Engineering) Sem-II AY 2024-25

Sr.No.	Track	Course Code	Course Name				
		Professional E	Elective 3				
1	Artificial Intelligence	7CO538	Natural Language Processing/ NPTEL Course				
2	Network Security	7CO533	Blockchain Technology/ NPTEL Course				
3	Multidisciplinary	7CO534	Theory and Applications of Remote Sensing & GIS/ NPTEI Course				
		Professional E	Elective 4				
1	Artificial Intelligence	7CO535	Deep Learning/ NPTEL Course				
2	Network Security	7CO536	Cyber Security/ NPTEL Course				
3	Database	7CO537	Advanced Database Management System/ NPTEL Course				

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