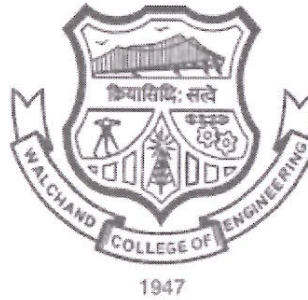


Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416415




Credit System for

F.Y. M.Tech. (Computer Science and Engineering)

Sem-I and II 2022-23


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Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for F.Y. M.Tech. (Computer Science and Engineering) Sem-I AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)													
01	PC	6CO501	Research Methodology	2				2	2	30	20	50	
02	PC	6CO502	Mathematical Foundations of Computer Science	3				3	3	30	20	50	
03	PC	6CO503	Advanced Data Structures	3				3	3	30	20	50	
Professional Core (Lab)													
04	PC	6CO551	Advanced Data Structures Lab			2		2	1	30	30	40	POE
05	HS	6CO552	Presentation and Technical Report Writing				1	1	1	30	30	40	
Professional Elective (Theory)													
06	PE	REFER LIST	Elective 1	3				3	3	30	20	50	
07	PE	REFER LIST	Elective 2	3				3	3	30	20	50	
Professional Elective (Lab)													
08	PE	REFER LIST	Elective 1 Lab			2		2	1	30	30	40	
09	PE	REFER LIST	Elective 2 Lab			2		2	1	30	30	40	POE
Total				14	0	6	1	21	18				

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.


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Walchand College of Engineering

(Government Aided Autonomous Institute)

Elective Course List for F.Y. M.Tech. (Computer Science and Engineering) Sem-I AY 2022-23

Sr.No.	Track	Course Code	Course Name
Elective 1 (Theory)			
01	Artificial Intelligence	6CO511	Artificial Intelligence
02	IP & CV	6CO512	Image Processing
03	Advanced Computing	6CO513	Internet of Things
Elective 1 (Lab)			
04	Artificial Intelligence	6CO553	Artificial Intelligence Lab
05	IP & CV	6CO554	Image Processing Lab
06	Advanced Computing	6CO555	Internet of Things Lab
Elective 2 (Theory)			
07	Artificial Intelligence	6CO514	Data Science
08	Cyber Security	6CO515	Advanced Network Technologies
09	Advanced Computing	6CO516	Modern Operating System
Elective 2 (Lab)			
10	Artificial Intelligence	6CO556	Data Science Lab
11	Cyber Security	6CO557	Advanced Network Technologies Lab
12	Advanced Computing	6CO558	Modern Operating System Lab


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Walchand College of Engineering

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Credit System for F.Y. M.Tech. (Computer Science and Engineering) Sem-II AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)													
01	PC	6CO521	Advanced Computer Algorithms	3				3	3	30	20	50	
02	PC	6CO522	Soft Computing	3				3	3	30	20	50	
Professional Core (Lab)													
04	PC	6CO571	Advanced Computer Algorithms Lab			2		2	1	30	30	40	
05	PC	6CO572	Soft Computing Lab			2		2	1	30	30	40	OE
06	HS	6CO573	Pre-dissertation Work and Seminar			2		2	1	30	30	40	
Professional Elective (Theory)													
07	PE	REFER LIST	Elective 3	3				3	3	30	20	50	
08	PE	REFER LIST	Elective4	3				3	3	30	20	50	
Professional Elective (Lab)													
09	PE	REFER LIST	Elective 3 Lab			2		2	1	30	30	40	
10	PE	REFER LIST	Elective 4 Lab			2		2	1	30	30	40	POE
Open Elective (Theory)													
11	OE	REFER LIST	Open Elective	3				3	3	30	20	50	
Total				15	0	10	0	25	20				

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.

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Walchand College of Engineering

(Government Aided Autonomous Institute)

Elective Course List for F.Y. M.Tech. (Computer Science and Engineering) Sem-II AY 2022-23

Sr.No.	Track	Course Code	Course Name
Elective 3 (Theory)			
01	Artificial Intelligence	6CO531	Natural Language Processing
02	Cyber Security	6CO532	Data Encryption & Compression
03	IP & CV	6CO533	Theory and Applications of Remote Sensing & GIS
Elective 3 (Lab)			
04	Artificial Intelligence	6CO574	Natural Language Processing Lab
05	Cyber Security	6CO575	Data Encryption & Compression Lab
06	IP & CV	6CO576	Theory and Applications of Remote Sensing & GIS Lab
Elective 4 (Theory)			
07	Artificial Intelligence	6CO534	Machine Learning
08	Cyber Security	6CO535	Network Security
09	Advanced Computing	6CO536	Advanced Database Systems
Elective 4 (Lab)			
10	Artificial Intelligence	6CO577	Machine Learning Lab
11	Cyber Security	6CO578	Network Security Lab
12	Advanced Computing	6CO579	Advanced Database Systems Lab
Open Elective (Theory)			
13	Offered by another branch	REFER LIST	Open Elective


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Walchand College of Engineering

(Government Aided Autonomous Institute)

Open Elective Course List for F.Y. M.Tech. (Computer Science and Engineering) Sem-II AY 2022-23

Sr.No.	Offering Dept	Sem	Course Code	Course Name
Open Elective				
1	Civil_Env	2	6OE501	Solid Waste Management
2	Civil_Struct	2	6OE502	Structural Health Monitoring
3	Mech_Design	2	6OE503	Industrial Product Design
4	Mech_Heat	2	6OE504	Waste to Energy
5	Mech_Prod	2	6OE505	Advanced Production systems
6	Elect_Power	2	6OE506	Control Techniques for Electrical Drives
7	Elect_Control	2	6OE506	Control Techniques for Electrical Drives
8	Eln	2	6OE508	Introduction to Embedded Systems

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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