

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



**Credit System for
Final Year B.Tech. (Information Technology)
Sem-VII and VIII**

AY 2024-25

Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Final Year B.Tech. (Information Technology) Sem-VII AY 2024-25

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/ LA1	ISE/ LA2	ESE	Ext
Professional Core (Theory)													
01	PC	6IT401	Data Mining	3	0	0	0	3	3	30	20	50	
02	PC	6IT402	Cryptography and Network Security	3	0	0	0	3	3	30	20	50	
03	PC	6IT403	Machine Learning	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
04	PC	6IT451	Data Mining Lab	0	0	2	0	2	1	30	30	40	POE
05	PC	6IT452	Open Source Software Lab	0	0	2	2	4	3	30	30	40	POE
06	PC	6IT453	IT Practices Lab 2	0	0	2	0	2	1	30	30	40	
07	PR	6IT491	Project-2	0	0	6	0	6	3	30	30	40	POE
Professional Elective (Theory)													
08	PE	Refer List	Professional Elective-3	3	0	0	0	3	3	30	20	50	
Open Elective													
09	OE	Refer List	Open Elective-3	3	0	0	0	3	3	30	20	50	
Humanities													
10	HS	6HS401	Humanities-5: Accounting and Finance for Engineers	2	0	0	0	2	2	30	20	50	
Total				17	0	12	2	31	25				

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.

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

The contact hours of guide for Final Year BTech project are 4 hrs for Sem VII and 8 hours/week for Sem VIII, for 9 students.

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


Prof. B. S. Shetty
DAC/Secretary, BoS


Dr. R. R. Rathod
Head, Information Technology Dept./
Chairman, BoS


Dr. A. K. Kokane
Dean Academics

Page No. 02/5
Date: 12/07/2024



Walchand College of Engineering

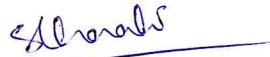
(Government Aided Autonomous Institute)


Elective Course List for Final Year B.Tech. (Information Technology) Sem-VII AY 2024-25

Sr.No.	Track	Course Code	Course Name
Professional Elective-3			
01	Data Science	6IT411	Big Data Analytics
02	Network Technology	6IT412	Mobile Ad-hoc and Sensor Network
03	Database Technology	6IT413	Database Design and Performance Tuning
04	Interdisciplinary	6IT414	Internet of Things

Sr.No.	Offering Dept.	Course Code	Course Name
Open Elective-3			
01	Civil	6OE415	Management for Engineers
02	App. Mechanical	6OE421	Structural Health Monitoring
03	Mechanical	6OE429	Additive Manufacturing
04	Electrical	6OE443	Renewable Energy
05	Electronics	6OE457	Medical Image Processing
06	Computer Science and Engineering	6OE471	Cyber Security
07	*Information Technology	6OE485	Data Visualization & Interpretation
		6OE486	Spatial Informatics

* Open Elective-5 offered by Information Technology Dept. is allowed for students of all other departments (Except Information Technology & Computer Science & Engineering Dept.)


Prof. B. S. Shetty
DAC/Secretary, BoS


Dr. R. R. Rathod
Head, Information Technology Dept./
Chairman, BoS


Dr. A. K. Kokane
Dean Academics

Page No. 03/5
Date: 12/07/2024



Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Final Year B.Tech. (Information Technology) Sem-VIII AY 2024-25

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/ LA1	ISE/LA2	ESE	Ext	
Professional Core (Lab)														
01	PR	6IT492	Project-3	0	0	12	0	12	6	30	30	40		
02	PR	6IT471	Techno-Socio Activity	0	0	0	1	1	1	15	15	20		
Professional Elective (Theory)														
03	PE	Refer List	Professional Elective-4	3	0	0	0	3	3	30	20	50		
04	PE	Refer List	Professional Elective-5	3	0	0	0	3	3	30	20	50		
05	PE	Refer List	Professional Elective-6	3	0	0	0	3	3	30	20	50		
AICTE Mandatory Courses														
06	MC	6IC401	Constitution of India	2	0	0	0	2	0	30	20	50		
Total				11	0	12	1	24	16					


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.

The contact hours of guide for Final Year BTech project are 4 hrs for Sem VII and 8 hours/week for Sem VIII, for 9 students.

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


Prof. B. S. Shetty
DAC/Secretary, BoS


Dr. R. R. Rathod
Head, Information Technology Dept./
Chairman, BoS


Dr. A. K. Kokane
Dean Academics

Page No. 04/5
Date: 12/07/2024



Walchand College of Engineering
(Government Aided Autonomous Institute)


Elective Course List for Final Year B.Tech. (Information Technology) Sem-VIII AY 2024-25


Sr.No.	Track	Course Code	Course Name
Professional Elective-4			
01	Data Science	6IT431	Deep Learning
02	Network Technology	6IT432	Data Management, Protection and Governance
		6IT433	Data Server Management
03	Database Technology	6IT434	Management Information System
04	Interdisciplinary	6IT435	Business Intelligence
		6IT436	Agile Software Tools and Practice

Sr.No.	Track	Course Code	Course Name
Professional Elective-5			
01	Data Science	6IT437	Transacting Blockchain
02	Network Technology	6IT438	High Performance Computing
		6IT439	Information Storage Management System
03	Database Technology	6IT440	Data warehouse
04	Interdisciplinary	6IT441	Augmented Reality and Virtual Reality

Sr.No.	Track	Course Code	Course Name
Professional Elective-6			
01	Data Science	6IT443	Reinforcement Learning
02	Network Technology	6IT444	IT Infrastructure Management
		6IT445	5G Technology
03	Database Technology	6IT446	Data Analysis and Visualization
04	Interdisciplinary	6IT447	Software Reliability and Fault Detection

Note: Professional Elective-4, 5 and 6 can be offered in NPTEL Mode and/or In-house


Prof. B. S. Shetty
DAC/Secretary, BoS


Dr. R. R. Rathod
Head, Information Technology Dept./
Chairman, BoS


Dr. A. K. Kokane
Dean Academics

Page No. 05/5
Date: 12/07/2024

