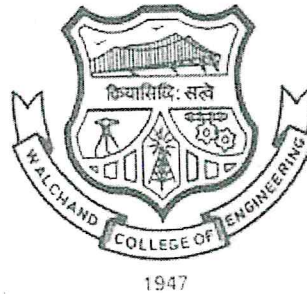# Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415

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Credit System for

Final Year B.Tech. (Information Technology)

Sem-VII and VIII

AY 2025-26

Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Final Year B.Tech. (Information Technology) Sem-VII AY 2025-26

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	6HS403	Engineering Economics & Financial Management	2	0	0	0	2	2	30	20	50	
			Total	17	0	12	2	31	25				

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

Dr. R. R. Rathod
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Dr. A. K. Kokane
Dean Academics

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Elective Course List for Final Year B.Tech. (Information Technology) Sem-VII AY 2025-26

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

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Credit System for Final Year B.Tech. (Information Technology) Sem-VIII AY 2025-26

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				

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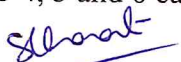
(Government Aided Autonomous Institute)

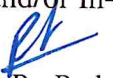### Elective Course List for Final Year B.Tech. (Information Technology) Sem-VIII AY 2024-25

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

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