



Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

**NEP Compliant Structure &
Syllabus of
Department of Computer Science & Engineering
(Internet of Things & Cyber Security Including Block Chain Technology)
Pattern 'A-25'
S. Y. B. Tech.**

Effective from Academic Year 2026-27

Prepared by: - Board of Studies of CSE-IoTCSBT

Approved by: - Academic Board, Vishwakarma Institute of Technology, Pune


Chairman- BoS

Dr. P. M. Shelke


Dean - Academics

Dr. P. N. Mahalle


Chairman - Academic Board

Dr. Rajesh Jalhekar

Structure

Branch: CSE-IoTCSBT Year: Second Year (SY) Academic Year 2025-26

Subject No.	Subject Code	Subject Name	Teaching Scheme (Hrs/Week))			Total	Credits
			Theory	Lab	Tut		
S1	CB2003	Fundamentals of Data Structures	3	2	0	5	4
S2	CB2004	Data Communication and Networking	2	0	1	3	3
S3	CB2005	Basics of IoT	2	2	0	4	3
S4	CB2006	Object Oriented Programming	1	2	0	3	2
MDM	MM0501	Probability and Statistics	2	0	1	3	3
HSS	HS2002	From Campus to Corporate - 1	2	0	0	2	2
RAD	HS2001	Reasoning and Aptitude Development - 3	1	0	0	1	1
DT	CB2001	Design Thinking – 1	0	0	1	1	1
ISMA	IR2101	OR International Tech Front Module	-	-	-	-	1
EDI	CB2002	Engineering Design and Innovation – 1 OR	0	4	0	4	2
IEDP	IR2102	International Innovation Program	-	-	-	-	2
Total			13	10	3	26	21

Examination scheme

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**NEP Compliant Structure &
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Department of Computer Science & Engineering
(Internet of Things & Cyber Security Including Block Chain Technology)
Pattern 'A-24'
T. Y. B. Tech.**

Effective from Academic Year 2026-27

Prepared by: - Board of Studies of CSE-IoTCSBT

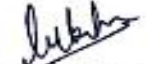
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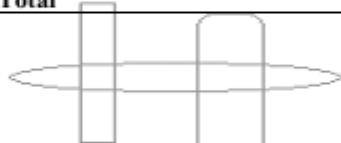

Chairman - Academic Board

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Structure

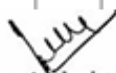
Branch: CSE-IoTCSBT Year: Third Year (TY) Sem - I Academic Year 2026-27

Subject No.	Subject Code	Subject Name	Teaching Scheme (Hrs/Week)			Total	Credits
			Theory	Lab	Tut		
S1	CB3201	CYBER SECURITY	3	2	-	5	4
S2	CB3202	ADVANCED IOT AND EDGE COMPUTING	2	2	-	4	3
S3	CB3203A	ARTIFICIAL INTELLIGENCE	3	2	-	5	4
	CB3203B	CLOUD COMPUTING					
	CB3203C	HUMAN-COMPUTER INTERACTION					
	ID3001	BASICS OF GAME DEVELOPMENT					
	ID3002	MAINFRAME TECHNIQUE					
S4	MD3101	IBM FULL STACK DEVELOPER	-	-	-	-	3
	MD3102	META BACKEND DEVELOPER					
	MD3106	MICROSOFT POWER BI DATA ANALYST					
	MD3113	GOOGLE DATA ANALYTICS					
	MD3121	IBM DEVOPS AND SOFTWARE ENGINEERING					
	ID3004	DEVOPS AWS SKILL BUILDER-1					
S5	MD3201	FINTECH	-	-	-	-	4
	MD3202	DIGITAL MARKETING					
	MD3203	ENTREPRENEURSHIP					
	MD3204	MANAGEMENT					
S6	MM0501A	OPERATING SYSTEMS AND DISTRIBUTED SYSTEMS	2	-	1	3	3
	MM1501D	PRODUCT LIFECYCLE MANAGEMENT					
S7	CB3205	DESIGN THINKING-3	-	-	1	1	1
	IR3101	INTERNATIONAL SKILL DEVELOPER MODULE					
S8	CB3204	ENGINEERING RESEARCH AND INNOVATION-1	-	-	-	-	2
	IR3102	INTERNATIONAL ENGINEERING DEVELOPMENT PROGRAM					
Total			10	6	2	18	24

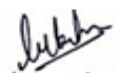



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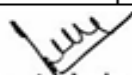
Dr. P. N. Mahalle


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S5 Open Elective-1 (Coursera)			
FinTech-1	Digital Marketing-1	Entrepreneurship-1	Management-1
FinTech: Finance Industry Transformation and Regulation Specialization	Foundations of Digital Marketing and E-commerce	Essentials of Entrepreneurship: Thinking & Action	Digital Product Management Specialization
Digital Transformation in Financial Services Specialization	Adobe Digital Marketing	Technology & Entrepreneurship Specialization	Project Management: Tools, Approaches, Behavioural Skills Specialization
Financial Markets Specialization	Digital Marketing Operations & Analytics Specialization	Entrepreneurship: Growing Your Business Specialization	Foundations of Management Specialization
FinTech Law and Policy	Social Media and Digital Marketing Fundamentals	Skills for a Modern Entrepreneur or Business Owner Specialization	Supply Chain Management Specialization
Decentralized Finance (DeFi): The Future of Finance Specialization	Introduction to Digital Marketing	Innovation & Entrepreneurship - From Design Thinking to Funding	
	Digital Marketing Trends	Innovation and entrepreneurship Specialization	
	Assess for Success: Marketing Analytics and Measurement	The Entrepreneurial Toolkit Specialization	
	Concepts, Strategies, and Analytics in Performance Marketing and Digital Advertising Specialization		
	Integrated Marketing Communications: Advertising, Public Relations, Digital Marketing and more		
	Marketing in a Digital World		
	Marketing Analytics Foundation		

 Chairman- BoS
 Dr. P. M. Shelke

 Dean - Academics
 Dr. P. N. Mahalle

 Chairman - Academic Board
 Dr. Rajesh Jalnekar

Examination scheme

Branch: CSE-IoTCSBT

Academic Year: 2026-27
5

Semester: I
Pattern: A24

Module:

Level 5.5																						
Course Code	NEP Course Category	Course Name	Teaching Scheme (Hrs./week)			Examination Scheme and Marks													Credits			
			Theory	Tutorial	Practical	CVV	CP	LAB/ TUT	GD/ PPT	HA	MSE (W)	MSE (R)	MSE (O)	ESE(R)	ESE (W)	ESE (O)	PRACT+ CVV	ESE-Direct Evaluation	Theory	Tutorial	Practical	Total
Semester I																						
CB3201	PCC	Cyber Security	3	-	2										40		60		3	-	1	4
CB3202	PCC	Advanced IoT and Edge Computing	2	-	2	20	30	10							40				2	-	1	3
CB3203A	PEC	Artificial Intelligence	3	-	2	20	40		20	20									3	-	1	4
CB3203B		Cloud Computing																				
CB3203C		Human Computer Interaction																				
ID3001		Basics of Game Development																				
ID3002		Mainframe Technique																				
MD3101	PEC (COURSE A)	IBM Full Stack Developer	-	-	-													100	-	-	-	3
MD3102		Meta Backend Developer																				
MD3106		Microsoft Power BI Data Analyst																				
MD3113		Google Data Analytics																				
MD3121		IBM Devops And Software Engineering																				
ID3004		DevOps AWS Skill Builder-1																				
MD3201	OE (COURSE A)	Fintech	-	-	-													100	-	-	-	4
MD3202		Digital Marketing																				
MD3203		Entrepreneurship																				
MD3204		Management																				
MM0501A	MDM	Operating Systems and Distributed Systems	2	1	-		30		20	10				40				2	1	-	3	
MM1501D		Product Lifecycle Management					20	30		10				40								
CB3205	VSEC	Design Thinking-3	-	1	-																	
IR3101		International Skill Developer Module																100	-	1	-	1
CB3204	FP	Engineering Research and Innovation-1	-	-	-														-	-	-	2
IR3102		International Engineering Development Program																				
Total			10	2	6	60	130	10	50	30	0	30	0	70	120	0	100	300	10	2	3	24

Abbreviations Used	
PPT	Powerpoint Presentation
GD	Group Discussion
CVV	Comprehensive Viva Voce
LAB	Laboratory
TUT	Tutorial
CP	Course Project
PR	Practical
HA	Home Assignment
MSE	Mid Semester Examination
ESE	End Semester Examination
R/W/O	Review /Written/Online