



**JSPM's**  
**RAJARSHI SHAHU COLLEGE OF ENGINEERING**  
**TATHAWADE, PUNE-33**  
(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)



## **Department of Computer Science and Business Systems (CSBS)**

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## **Department of Computer Science and Business Systems (CSBS)**

### **Structure & Syllabi**

### **B. Tech 2023 Pattern Version 1**

**w.e.f. Academic Year 2024-2025**

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Dr. K. P. Moholkar  
BoS, CSBS

Dr. A.M Badadhe  
Dean Academics



Dr. Santosh Bhosle  
Director RSCOE, Pune



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**S. Y. B. Tech (Computer Science Business Systems)**  
**Semester -III Structure**

Course	Course Code	Course	Teaching Scheme				Credit C	Examination Scheme				Total Marks	Ownership
			L	T	P	Hr		ISE	MSE	ESE	TW		
PCC	CB2201T	Formal Language & Automata Theory	3	-	-	3	3	20	30	50	-	100	CSBS
PCC	CB2202T	Software Engineering	3	-	-	3	3	20	30	50	-	100	CSBS
PCC	CB2202L	Software Engineering Lab	-	-	2	2	1	ISCE: 30		20	-	50	CSBS
PCC	CB2203T	Data structures and Algorithms	3	-	-	3	3	20	30	50	-	100	CSBS
PCC	CB2203L	Data structures and Algorithms Laboratory	-	-	2	2	1	ISCE: 30		20	-	50	CSBS
PCC	CB2204T	Operating Systems	3	-	-	3	3	20	30	50	-	100	CSBS
PCC	CB2204L	Operating Systems Laboratory	-	-	2	2	1	ISCE: 30		20	-	50	CSBS
HSSM	HS2204T	Fundamentals of Management and Business Strategy	2	-	-	2	2	20	30	50	-	100	CSBS
PCC	CB2205L	Design Thinking & Innovation	-	-	2	2	1	ISCE: 30		20	-	50	CSBS
HSSM (VEC)	ES2206T	Environmental Science and Engineering	2	-	-	2	2	20	30	50	-	100	Humanities
Skill Course (VEC)	CB2206L	Skill Development Lab I (Java)	-	-	2	2	1	ISCE: 30		20	-	50	CSBS
HSSM (VSEC)	HS3202	Business Communication and Value Science II	-	-	2	2	1	ISCE: 30		20	-	50	Humanities
<b>Total</b>			<b>16</b>	<b>0</b>	<b>12</b>	<b>28</b>	<b>22</b>					<b>900</b>	

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**S. Y. B. Tech (CSBS Science and Business Systems)**

**Academic Year -2024-2025 (Semester –IV)**

**Proposed Structure Semester -IV**

**(Level 5 - UG-Diploma/ Diploma-Eng) -Semester III**

Course	Course Code	Course	Teaching Scheme				Credit	Examination Scheme				Total Marks	Ownership
			L	T	P	Hr		ISE	MSE	ESE	TW		
ESC	ES2203T	Calculus and Transforms	3	-	-	3	3	20	30	50	-	100	Mathematics
PCC	CB2207T	Design and Analysis of Algorithm	3	-	-	3	3	20	30	50	-	100	CSBS
PCC	CB2207L	Design and Analysis of Algorithm Laboratory	-	-	2	2	1	ISCE: 30		20	-	50	CSBS
PCC	CB2208T	Database Management Systems	3	-	-	3	3	20	30	50	-	100	CSBS
PCC	CB2208L	Database Management Systems Laboratory	-	-	2	2	1	ISCE: 30		20	-	50	CSBS
PCC	CB2209T	Computer Organization and Architecture	2	-	-	2	2	20	30	50	-	100	CSBS
PCC	CB2210L	Data Analysis and Visualization Lab (Industry Sponsored)	-	-	4	4	2	ISCE: 30		20	-	50	CSBS
MDM		Multi-Disciplinary Minor-I	3	-	-	3	3	20	30	50	-	100	Other department
HSSM	CB2211T	Introduction to Innovation, IP management & IPR	2	-	-	2	2	20	30	50	-	100	CSBS
HSSM (VSEC)	HS2210L	Business Communication and Value Science III	-		2	2	1	ISCE: 30		20	-	50	Humanities
CC	CB2212L	Co-curricular Course	-	-	2	2	1	ISCE: 50			-	50	Respective Department
Total			16	-	12	28	22					850	

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**Department of Computer Science and Business  
Systems(CSBS)  
Structure & Syllabi  
T. Y. B. Tech (2023 Pattern)  
w.e.f. Academic Year 2025-2026**

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# T. Y. B. Tech (CSBS Science and Business Systems)

Academic Year -2025-2026 (Semester –V)

Proposed Structure Semester -V

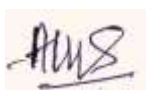
(Level 5.5 - B.Voc./ B.Sc. Engg) -Semester V

Course	Course Code	Course	Teaching Scheme				Credit	Examination Scheme			Total Marks	Ownership
			L	T	P	Hr		ISE	MSE	ESE		
PCC	CB3201T	Computer Networks	3	-	-	3	3	20	30	50	100	CSBS
PCC	CB3201L	Computer Networks Lab	-	-	2	2	1	ISCE: 30		20	50	CSBS
PCC	CB3202T	Machine Learning	3	-	-	3	3	20	30	50	100	CSBS
PCC	CB3202L	Machine Learning Laboratory	-	-	2	2	1	ISCE-30		20	50	CSBS
MDM	CBM3201T	Multi-Disciplinary Minor-II	3	-	-	3	3	20	30	50	100	Other department
MDM	CBM3201L	Multi-Disciplinary Minor-II Lab	-	-	2	2	1	ISCE: 30		20	50	Other department
OE	CBO3201T	Open Elective I:	3	-	-	3	3	20	30	50	100	Other department
PEC	CB3203T	Professional Elective-I	3	-	-	3	3	20	30	50	100	CSBS
PEC	CB3203L	Professional Elective-I Laboratory	-	-	2	2	1	ISCE: 30		20	50	CSBS
AEC	CB3204L	Skill Development Lab II	-	-	2	2	1	ISCE: 30		20	50	CSBS
	CB3205L	Seminar and Technical Communication	-	-	2	2	1	ISCE: 30		20	50	CSBS
	CB3206L	Business Communication and Value Science			2	2	1	ISCE: 30		20	50	CSBS
	Total		15	-	14	29	22				850	

Professional Elective I		Professional Elective I Lab	
Course Code	Course Name	Course Code	Course Name
CB3203T-A	Artificial Intelligence	CB3203-A	Artificial Intelligence Lab
CB3203T-B	Information Security	CB3203L-B	Information Security Lab
CB3203T-C	Financial and Cost Accounting	CB3203L-C	Financial and Cost Accounting Lab
CB3203T-D	MOOC: Social Network Analysis		MOOC Lab



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**Academic Year -2025-2026 (Semester –VI)**

**Proposed Structure Semester -VI**

(Level 5.5 - B.Voc./ B.Sc. Engg) -Semester VI

Cou r s e	Course Code	Course	Teaching Scheme				Credit  C	Examination Scheme			Total Marks	Ownership
			L	T	P	Hr		ISE	MSE	ESE		
MDM	CBM3202T	Multi-Disciplinary Minor-III	3	-	-	3	3	20	30	50	100	Other department
OE	CBO3202T	Open Elective II:	3	-	-	3	3	20	30	50	100	Other department
PCC	CB3208T	IT Project management	3	-	-	3	3	20	30	50	100	CSBS
PEC	CB3209T	Professional Elective-II	3	-	-	3	3	20	30	50	100	CSBS
PEC	CB3209L	Professional Elective-II Laboratory	-	-	2	2	1	ISCE: 30		20	50	CSBS
HSSM	CB3210T	Professional Elective-III	3	-	-	3	3	20	30	50	100	CSBS
PCC	CB3211T	Cloud Computing	2	-	-	2	2	20	30	50	100	CSBS
PCC	CB3211L	Cloud Computing lab			2	2	1	ISCE: 30		20	50	
CEP	CB3212L	Engineering Innovation and Society-I (Project II)	-	-	4	4	2	ISCE: 30		20	50	CSBS
CC	CB3213L	Co-curricular Course	-	-	2	2	1	ISCE: 50			50	CSBS
	CB3214T	Industry Sponsored Course	Audit Course									
	Total		16	-	10	27	22				800	

Professional Elective II		Professional Elective II Lab	
Course Code	Course Name	Course Code	Course Name
CB3209T-A	Deep Learning	CB3209L-A	Deep Learning Lab
CB3209T-B	Cyber and Digital Forensic	CB3209L-B	Cyber and Digital Forensic Lab
CB3209T-C	Operation Research	CB3209L-C	Operation Research Lab
CB3209T-D	MOOC:	CB3209L-D	MOOC Lab

Professional Elective III	
	Course Name
CB3207T-A	Enterprise System
CB3207T-B	Finance Management
CB3207T-C	Marketing Research and Marketing Management
CB3207T-D	Compiler Design

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