



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



F. Y. M. Tech (Computer Engineering)
Academic Year – 2024-2025 Semester -I

Course Code	Course	Teaching Scheme			Examination Schemes					Credits
		L	T	P	Theory			TW	Total	
					ISE (20)	MSE (30)	ESE (50)			
CS5201T	Principles of Data Analytics Machine Learning	03	-	-	20	30	50	- -	100	03
CS5202T	Advanced Software Engineering and Project Management	03	-	-	20	30	50	- -	100	03
CS5203T	Elective-I:	03	-	-	20	30	50	- -	100	03
CS5204T	Elective-II:	03	-	-	20	30	50	- -	100	03
CS5205T	Research Methodology and Intellectual Property Rights	03	-	-	20	30	50	- -	100	03
CS5206L	Lab Practice I (All Subjects 2 Lab assignments)	-	-	04	ISCE : 60		40		100	02
CS5207L	Lab Practice II Data visualization and report making			02	ISCE:30		20		50	01
CS5208L	Online course/certification (NPTEL)	-	-	04	ISCE:60		40		100	02
	Audit Course	Non-Credit								
Total		15	-	10					750	20

Elective I		Elective II	
Code No.	Title	Code No.	Title
CS5203T-A	Web and Social Network Data Analysis	CS5204T-A	Natural Language Processing
CS5203T-B	Cryptography and Network Security	CS5204T-B	Digital Forensics and ethical Considerations
CS5203T-C	Business Intelligence	CS5204T-C	Operation Research and Management
CS5203T-D	Advanced Image Processing	CS5204T-D	Biometric Identification and Liveness Detection
Audit Course			
Code No.	Title	Code No.	Title
EC5209	Technical Paper writing	ME5209	Value Education In Engineering
CE5209	Disaster Management	CS5209	Constitution of India



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F. Y. M. Tech (Computer Engineering)
Academic Year – 2024-2025 Semester -II

Course Code	Course	Teaching Scheme			Examination Schemes					Credits
		L	T	P	Theory			TW	Total	
					ISE (20)	MSE (30)	ESE (50)			
ES5203T	Mathematical Foundation of Computer Science	03	-	-	20	30	50		100	03
CS5210T	Deep learning and modeling	03	-	-	20	30	50		100	03
CS5211T	Cloud Services and Applications	03	-	-	20	30	50		100	03
CS5212T	Elective-III	03	-	-	20	30	50		100	03
CS5213T	Elective-IV	03	-	-	20	30	50		100	03
CS5214L	Lab Practice III (All Subjects 2 Lab assignments)	-	-	04	ISCE : 60		40		100	02
CS5215L	Lab Practice IV: Data Science on Cloud	-	-	02	ISCE : 30		20		50	01
CS5216L	Seminar	-	-	04	ISCE : 60		40		100	02
Total		15	-	10					750	20

Elective III		Elective IV	
Code No.	Title	Code No.	Title
CS5212T -A	Time Series Analysis	CS5213T -A	Big Data Analytics
CS5212T -B	Information Security	CS5213T -B	Operational Technology (OT) Security
CS5212T -C	Advanced Computational Intelligence	CS5213T -C	User Experience Design
CS5212T -D	Computer Vision and Video processing	CS5213T-D	Image and Video Analytics using AI



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S. Y. M. Tech (Computer Engineering Engineering)
Academic Year – 2025-2026 Semester -III

Course Code	Course	Teaching Scheme			Examination Schemes					Credits
		L	T	P	Theory			TW	Total	
					ISE (20)	MSE (30)	ESE (50)			
CS6201T	Elective V	03	--	--	20	30	50		100	3
CS6202L	Internship/Value added Course (VAC)/ on job training / Mini Project/ Community Engagement Project	--	--	--	ISCE : 60		40		100	4
CS6203L	Dissertation Phase-I (One Research Paper)	--	--	--	ISCE : 100		100		200	6
Total		3	--	--					400	13

Elective-V	
Code No.	Title
CS6201T-A	Digital Transformation
CS6201T-B	Supply Chain Analytics
CS6201T-C	Legal Aspects of IT Business/Business Analytics for Marketing
CS6201T-D	Interdisciplinary elective Subject offered by other department



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S. Y. M. Tech (Computer Engineering)
Academic Year – 2025-2026 Semester -IV

Course Code	Course	Teaching Scheme			Examination Schemes					Credits
		L	T	P	Theory			TW	Total	
					ISE (20)	MSE (30)	ESE (50)			
CS6204L	Online Course / Certification (NPTEL / Coursera)	--	--	04	ISCE : 60		40		100	2
CS6205L	Dissertation Phase-II (Industry/Research) (One Research Paper)	--	--	--	ISCE : 200		200		400	15
Total		--	--	--					500	17