



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 – 2023-2024 Semester -I Structure

Course Code	Course	Teaching Scheme			Examination Schemes						Credits	
		TH	Tut	Lab	Theory			Practical		Total		Total
					ISE (15)	MSE (25)	ESE (60)	TW	OR			
CS5101	Bio-Inspired Optimization Algorithms	4	--	--	15	25	60	--	--	100	4	
CS5102	Software Development Management	3	--	--	15	25	60	--	--	100	3	
CS5103	Elective-I	3	--	--	15	25	60	--	--	100	3	
CS5104	Elective-II	3	--	--	15	25	60	--	--	100	3	
CS5105	Research Methodology and Intellectual Property Rights	3	--	--	15	25	60	--	--	100	3	
CS5106	Lab Practice I	--	--	4	--	--	--	50	50	100	2	
CS5107	Online course/certification	--	--	4	--	--	--	50	50	100	2	
AUDIT	Audit Course	Non-Credit										
Total		16	--	8	75	125	300	100	100	700	20	

Dr.P.B.Kumbharkar
HOD Comp.

Dr. R. B. Joshi
Dean Academics



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Director RSCOE, Pune

Elective-I	
Code No.	Title
CS5103A	Parallel Computing
CS5103B	Business Intelligence
CS5103C	Advanced of Algorithms
CS5103D	Network Design and Analysis

Elective-II	
Code No.	Title
CS5104A	Multicore Architecture
CS5104B	Advances in Machine Learning
CS5104C	Web Mining and Social N/W Data Analysis
CS5104D	Wireless Sensor Network

Audit Course Code	Audit Course Title
EC5108	Technical Paper writing
CE5107	Disaster Management
ME5107	Value Education In Engineering
CS5108	Constitution of India

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F. Y. M. Tech (Computer Engineering)
Academic Year – 2023-24 Semester –II Structure

Course Code	Course	Teaching Scheme			Examination Schemes						Credits	
		TH	Tut	Lab	Theory			Practical		Total		Total
					ISE (15)	MSE (25)	ESE (60)	TW	OR			
ES5103	Mathematical Foundation of Computer Science	4	--	--	15	25	60	--	--	100	4	
CS5109	System Simulation and Modeling	3	--	--	15	25	60	--	--	100	3	
CS5110	Randomized and Approximation Algorithms	3	--	--	15	25	60	--	--	100	3	
CS5111	Elective-III	3	--	--	15	25	60	--	--	100	3	
CS5112	Elective-IV	3	--	--	15	25	60	--	--	100	3	
CS5113	Lab Practice II	--	--	4	--	--	--	50	50	100	2	
Total		16	--	4	75	75	125	50	50	600	18	

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Elective-III	
Code No.	Title
CS5111A	Fault Tolerant systems
CS5111B	Advanced Computing Intelligence
CS5111C	Optimization Techniques
CS5111D	Network Security

Elective-IV	
Code No.	Title
CS5112A	Fog Computing
CS5112B	Deep Neural Network
CS5112C	Big Data Analytics
CS5112D	Software Defined Networks (SDN)

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S. Y. M. Tech (Computer Engineering) Academic
Year – 2023-24 Semester -III Structure

Course Code	Course	Teaching Scheme			Examination Schemes					Credits	
		TH	Tut	Lab	Theory			Practical		Total	Total
					ISE (15)	MSE (25)	ESE (60)	TW	OR		
CS6101	Elective-V	3	--	--	15	25	60	--	--	100	3
CS6102	Internship/Value added course (VAC)	--	--	--	--	--	--	50	50	100	3
CS6103	Dissertation Phase-I	--	--	--	--	--	--	150	50	200	6
Total		3	--	--	15	25	60	200	100	400	12

Elective-V	
Code No.	Title
CS6101A	Cyber Crime and laws
CS6101B	Block chain Technology
CS6101C	Virtual Reality
CS6101D	Interdisciplinary elective Subject offered by other department

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S. Y. M. Tech (Computer Engineering) Academic
Year – 2023-24 Semester –IV Structure

Course Code	Course	Teaching Scheme			Examination Schemes						Credits
		TH	Tut	Lab	Theory			Practical		Total	Total
					ISE (15)	MSE (25)	ESE (60)	TW	OR		
CS6104	Internship/Value added course (VAC)	--	--	--	--	--	--	50	50	100	3
CS6105	Dissertation Phase-II(Industry/Research)	--	--	--	--	--	--	250	150	400	17
Total		--	--	--	--	--	--	300	200	500	20

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