

SWARRNIM SCHOOL OF BUSINESS

Master Of Computer Application(MCA)

SEMESTER-1

Subject Code	Subject Name	Teaching Scheme			Credits	Theory		Practical/ VIVA		Total Marks	
		Theory	Tutorial	Practical		University Exam	Mid-Term Exam(PA)	Mid-Term Practical/Viva(PA)	External Practical/ Viva	Theory	Practical /VIVA
16110101	Basic Mathematics	3	-	3	6	70	30	20	30	100	50
16110102	Basic ComputerScience-1	3	-	3	6	70	30	20	30	100	50
16110103	Basic ComputerScience-2	3	-	3	6	70	30	20	30	100	50
	Elective-1	3	-	3	6	70	30	20	30	100	50
	Elective-2	3	-	3	6	70	30	20	30	100	50
Total		15	-	15	30	350	150	100	150	500	250

Elective– I

16110104	Programming with C++
16110105	Programming with Java
16110106	Programming with Python
16110107	Dynamic HTML
16110108	Database Administration

Elective– II

16110109	Procedure Programming in SQL
16110110	Programming with Linux,Apache,MySQL,and PHP
16110111	Data Warehousing
16110112	Information Security

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SEMESTER- 2											
Subject Code	Subject Name	Teaching Scheme			Credits	Theory		Practical/ VIVA		Total Marks	
		Theory	Tutorial	Practical		University Exam (ESE)	Mid-Term Exam(PA)	Mid-Term Practical/Viva	External Practical/ Viva	Theory	Practical /VIVA
16110201	Basic Statistics	3	-	4	7	70	30	20	30	100	50
16110202	Basic ComputerScience-3	3	-	3	6	70	30	20	30	100	50
16110203	Basic ComputerScience-4	4	1	-	5	70	30	-	-	100	-
	Elective-3	3	-	3	6	70	30	20	30	100	50
	Elective-4	3	-	3	6	70	30	20	30	100	50
Total		16	1	13	30	350	150	80	120	500	200

Elective– III

16110204	Network Security
16110205	Data AnalyticswithR
16110206	Data Mining
16110207	Image Processing
16110208	Operations Research

Elective– IV

16110209	Cyber Security&Forensics
16110210	Language Processing
16110211	Function ProgrammingwithJava
16110212	Advanced Python
16110213	Android Programming



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SEMESTER-3											
Subject Code	Subject Name	Teaching Scheme			Credits	Theory		Practical/ VIVA		Total Marks	
		Theory	Tutorial	Practical		University Exam	Mid-Term Exam(PA)	Mid-Term Practical/ Viva(PA)	External Practical/ Viva	Theory	Practical /VIVA
16110301	Design & Analysis of Algorithms	4	-	3	7	70	30	20	30	100	50
16110302	Artificial Intelligence	4	-	3	7	70	30	20	30	100	50
16110303	Digital Technology Trends	0	4	-	4	-	-	20	80	-	100
	Elective-5	3	-	3	6	70	30	20	30	100	50
	Elective-6	3	-	3	6	70	30	20	30	100	50
Total		14	4	12	30	280	120	100	200	400	300

Elective– 5

16110304	Big Data Analytics
16110305	Java Web Technologies
16110306	Web Commerce
16110307	Search Engine Techniques
16110308	Web Data Management
16110309	Advanced Networking

Elective– 6

16110310	Big Data Tools
16110311	Software Quality and Assurance
16110312	Cloud Computing
16110313	Information Retrieving
16110314	Machine Learning
16110315	Data Visualization
16110316	Wireless Communication & Mobile Computing

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SEMESTER-4										
		TEACHING SCHEME(HOURS)			CREDITS	UNIVERSITY EXAMINATION				INTERNAL
SUBJECT CODE	SUBJECT					EXPLANATION OF CODE		DOCUMENTATION		INTERNAL
		THEORY	TUTORIAL	PRACTICAL						
16110401	Project	0	0	30	30	200	100	100	100	200
										700

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