SWAMI VIVEKANAND UNIVERSITY, SIRONJA,

SAGAR (M.P.)

SCHEME

For

MASTER OF COMPUTER APPLICATION

Course Code: MCA

Department of Computer Application

Faculty of Computer Application

Semeser-First to Six

Duration of Course	:	3Years
Examination Mode	:	Semester
Examination System	:	Grading

Swami Vivekanand University, Sironja Sagar (M.P.)

2016-2017

SWAMI VIVEKANAND UNIVERSITY
SIRONJA, SAGAR (M.P.)

MCA Ist Semester

Course No.	Course Name	L	T	P	Theory marks	Min	Sessional marks	Min	Practical marks	min	Total marks
MCA-101	Discreate Mathametics	4	1	-	100	40	50	30	-	-	150
MCA-102	Programming Fundamental & C Programming	4	1	-	100	40	50	30	-	-	150
MCA-103	Data Structure Using C	4	1	-	100	40	50	30	-	-	150
MCA-104	Computer Architecture	4	1	-	100	40	50	30	-	-	150
MCA-105	Communication Skills	4	1	-	100	40	50	30	-	-	150
MCA-106	Programming laboratory in C,	-	-	6	-	-	50	30	100	50	150
Total		20	5	6	500	-	300	-	100	-	900

Minimum Pass Marks:
[A] Theory : 40 %
[B] Practical : 50 %
[C] Sessionals : 60 %

Duration:
Theory Papers : 3 hr

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MCA II nd Semester

Course No.	Course Name	L	T	P	Theory marks	Min	Sessional marks	Min	Practical marks	min	Total marks
MCA-201	Operating System	4	1	-	100	40	50	30	-	-	150
MCA-202	Data Base Management System	4	1	-	100	40	50	30	-	-	150
MCA-203	Object Oriented Analysis Design & C++	4	1	-	100	40	50	30	-	-	150
MCA-204	Computer Oriented Numerical analysis	4	1	-	100	40	50	30	-	-	150
MCA-205	Essentials of management	4	1	-	100	40	50	30	-	-	150
MCA-206	Programming laboratory in C++ & RDBMS	-	-	6	-	-	50	30	100	50	150
Total		20	5	6	500	-	300	-	100	-	900

Minimum Pass Marks: [A] Theory : 40 % [B] Practical : 50 % [C] Sessionals : 60 %	Duration: Theory Papers : 3 hr

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MCA III rd Semester

Course No.	Course Name	L	T	P	Theory marks	Min	Sessional marks	Min	Practical marks	min	Total marks
MCA-301	Computer Oriented Optimization Techniques	4	1	-	100	40	50	30	-	-	150
MCA-302	Microprocessor &Assembly Language Programming	4	1	-	100	40	50	30	-	-	150
MCA-303	Analysis &Design of Algorithm	4	1	-	100	40	50	30	-	-	150
MCA-304	Theory of Computation	4	1	-	100	40	50	30	-	-	150
MCA-305	Information System Design	4	1	-	100	40	50	30	-	-	150
MCA-306	Programming Lab of VB & assembly Language	-	-	6	-	-	50	30	100	50	150
Total		20	5	6	500	-	300	-	100	-	900

Minimum Pass Marks: [A] Theory : 40 % [B] Practical : 50 % [C] Sessionals : 60 %	Duration: Theory Papers : 3 hr Download 3rd sem syllabus

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MCA IV rd Semester

Course No.	Course Name	L	T	P	Theory marks	Min	Sessional marks	Min	Practical marks	min	Total marks
MCA-401	Software Engineering	3	1	-	100	40	50	30	-	-	150
MCA-402	Artificial Intelligence & Applications	3	1	-	100	40	50	30	-	-	150
MCA-403	Computer Graphics & multimedia	3	1	2	100	40	25	15	25	13	150
MCA-404	Java & Internet Application	3	1	2	100	40	25	15	25	13	150
MCA-405	Computer Network &Communication	3	1	-	100	40	50	30	-	-	150
MCA-406	Minor Project-I	-	-	6	-	-	50	30	100	50	150
Total		15	5	10	500	-	250	-	150	-	900

Minimum Pass Marks:
[A] Theory : 40 %
[B] Practical : 50 %
[C] Sessionals : 60 %

Duration:
Theory Papers : 3 hr

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MCA V th Semester

Course No.	Course Name	L	T	P	Theory marks	Min	Sessional marks	Min	Practical marks	min	Total marks
MCA-501	UNIX & Shell Programming	3	1	-	100	40	25	15	25	13	150
MCA-502	Data Warehousing & Mining	3	1	-	100	40	50	30	-	-	150
MCA-503	Compiler Design	3	1	2	100	40	25	15	25	13	150
MCA-504	Elective -1	3	1	2	100	40	50	30	-	-	150
MCA-505	Elective -2	3	1	-	100	40	50	30	-	-	150
MCA-506	Minor Project-II	-	-	6	-	-	50	30	100	50	150
Total		15	5	10	500	-	250	-	150		900

Minimum Pass Marks:	Elective I:	Elective II:		Duration:				
[A] Theory : 40 % [B] Practical : 50 % [C] Sessionals : 60 %	1.Multimedia & Animation 2.Neural network & fuzzy logic 3.Distributed & parallel computing 4.Network security	1.Web design technology 2.ERP 3.Digital image processing & computer vision 4.Simulation & modeling 5.Bioinformatics						

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MCA VI Semester

Course No	Course Name	Seminar presentation	Min	Sessional marks	Min	Viva marks	Min	Total marks
MCA - 0601	Project work in organization for 4 to 5 month duration*	100	50	200	120	200	100	500

* Project work should be undertaken in an organization engaged in software/hardware development requirement of the organization