

COURSE STRUCTURE OF MCA PROGRAMME

SEMESTER - 1

<u>Code</u>	<u>Subject</u> <i>Theory</i>	<u>Contact Hrs</u> <i>L - T - P</i>	<u>Credits</u>
MCA-101	Programming in 'C'	3 - 1 - 0	4
MCA-102	Microprocessor and Assembly Language Programming	3 - 1 - 0	4
MCA-103	Discrete Mathematics	3 - 1 - 0	4
MCA-104	Principles of Programming Languages	3 - 1 - 0	4
MCA-105	Engineering Economics and Costing	3 - 1 - 0	4
<u>Sessionals</u>			
MCA-191	Seminar – I	0 - 0 - 3	2
MCA-192	“C” Programming Laboratory	0 - 0 - 6	4
MCA-193	Assembly Language Programming Lab.	0 - 0 - 3	2
	Total	32	28

SEMESTER - 2

<u>Code</u>	<u>Subject</u> <i>Theory</i>	<u>Contact Hrs</u> <i>L - T - P</i>	<u>Credits</u>
MCA-106	Data Structure Using C	3 - 1 - 0	4
MCA-107	Computer System Architecture	3 - 1 - 0	4
MCA-108	Object Oriented Programming using C ⁺⁺	3 - 1 - 0	4
MCA-109	Numerical Methods	3 - 1 - 0	4
MCA-110	Communicative English	3 - 1 - 0	4
<u>Sessionals</u>			
MCA-194	Communicative Practice Laboratory	0 - 0 - 3	2
MCA-195	Data Structure in “C” Laboratory	0 - 0 - 3	2
MCA-196	OOP with C ⁺⁺ Laboratory	0 - 0 - 6	4
	Total	32	28

SEMESTER - 3

<u>Code</u>	<u>Subject</u> <i>Theory</i>	<u>Contact Hrs</u> <i>L - T - P</i>	<u>Credits</u>
MCA-201	Software Engineering & OOAD	3 - 1 - 0	4
MCA-202	Operating System	3 - 1 - 0	4
MCA-203	Quantitative Techniques	3 - 1 - 0	4
MCA-204	Computer Graphics & Multimedia	3 - 1 - 0	4
MCA-205	Financial and Management Accounting	3 - 1 - 0	4
<u>Sessionals</u>			
MCA-291	Operating System Laboratory	0 - 0 - 6	4
MCA-292	Computer Graphics Laboratory	0 - 0 - 6	4
	Total	32	28

SEMESTER - 4

<u>Code</u>	<u>Subject</u> <i>Theory</i>	<u>Contact Hrs</u> <i>L - T - P</i>	<u>Credits</u>
MCA-206	Programming with Java	3 - 1 - 0	4
MCA-207	Formal Language & Automata Theory	3 - 1 - 0	4
MCA-208	Relational Database Management System	3 - 1 - 0	4
MCA-209	Analysis and Design of Algorithm	3 - 1 - 0	4
MCA-210	Computer Networks	3 - 1 - 0	4
<u>Sessionals</u>			
MCA-293	RDBMS Laboratory	0 - 0 - 6	4
MCA-294	Programming with Java Laboratory	0 - 0 - 3	2
MCA-295	Seminar - II	0 - 0 - 3	2
		Total	32
			28

SEMESTER - 5

<u>Code</u>	<u>Subject</u> <i>Theory</i>	<u>Contact Hrs</u> <i>L - T - P</i>	<u>Credits</u>
MCA-301	Internet Technology	3 - 1 - 0	4
MCA-302	Simulation & Modeling	3 - 1 - 0	4
MCA-303	Compiler Design	3 - 1 - 0	4
MCA-304	Enterprise Web-based Computing with Java	3 - 1 - 0	4
<u>Elective I (Any one)</u>			
MCA-305	Data Mining & Ware Housing	3 - 1 - 0	4
MCA-306	Computer Security	3 - 1 - 0	4
MCA-307	Image Processing	3 - 1 - 0	4
MCA-308	Artificial Intelligence	3 - 1 - 0	4
MCA-309	Parallel Computing	3 - 1 - 0	4
MCA-310	Soft Computing	3 - 1 - 0	4
MCA-311	Bioinformatics	3 - 1 - 0	4
<u>Sessionals</u>			
MCA-391	Enterprise Web-based Computing with Java Lab.	0 - 0 - 3	2
MCA-392	Network Programming using Socket (C / Java)	0 - 0 - 6	4
MCA-393	Comprehensive Viva-Voce	0 - 0 - 3	2
		Total	32
			28

SEMESTER - 6

<u>Subject</u>	<u>Contact Hrs</u> <i>L - T - P</i>	<u>Credits</u>
MCA-394	Project Work (<i>for 16 weeks</i>)	20
