

MCA Syllabus –P.G. Dept. of Computer Science, University of Kashmir

Semester-I (24 Credit unit Semester)						
Subject Code	Subject name	Subject Category	Hours / Week			Credits
			L	T	P	
14 Core Credit Units						
MCA18101CR	Programming in C++	Core	3	1	0	4
MCA18102CR	Database Systems	Core	3	1	0	4
MCA18103CR	C++ Lab	Core	0	0	4	2
MCA18104CR	Database Systems Lab	Core	0	0	4	2
MCA18001CR	Technical Communication	Core	2	0	0	2
8 Discipline Centric Elective Credit Units						
MCA18105DCE	Assembly Language Programming	DCE	3	0	2	4
MCA18106DCE	Discrete Mathematics	DCE	3	1	0	4
MCA18107DCE	Computer Architecture	DCE	3	0	2	4
2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students						
MCA18001GE	Latex	GE	2	0	0	2

Semester-II (24 Credit unit Semester)						
Subject Code	Subject name	Subject Category	Hours / Week			Credits
			L	T	P	
14 Core Credit Units						
MCA18201CR	Data Structures using C++	Core	3	1	0	4
MCA18202CR	Numerical Techniques	Core	3	1	0	4
MCA18203CR	Data Structures in C++ Lab	Core	0	0	4	2
MCA18204CR	Numerical Techniques Lab	Core	0	0	4	2
MCA18002CR	Optimization Techniques	Core	2	0	0	2
8 Discipline Centric Elective Credit Units						
MCA18205DCE	Unix/Linux Programming	DCE	3	0	2	4
MCA18206DCE	Data Communication	DCE	3	0	2	4
MCA18207DCE	Management Information System	DCE	3	1	0	4
2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students						
MCA18002GE	Matlab	GE	2	0	0	2

Semester-III (24 Credit unit Semester)						
Subject Code	Subject name	Subject Category	Hours / Week			Credits
			L	T	P	
14 Core Credit Units						
MCA18301CR	Web Programming	Core	3	1	0	4
MCA18302CR	Design and Analysis of Algorithms	Core	3	1	0	4
MCA18303CR	Web Programming Lab	Core	0	0	4	2
MCA18304CR	Algorithms Lab	Core	0	0	4	2
MCA18003CR	Cloud Computing	Core	2	0	0	2
8 Discipline Centric Elective Credit Units						
MCA18305DCE	Computer Networks	DCE	3	0	2	4
MCA18306DCE	Operating Systems	DCE	3	0	2	4
MCA18307DCE	Software Engineering	DCE	3	1	0	4
2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students						
MCA18003GE	Python	GE	2	0	0	2

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Semester-IV (24 Credit unit Semester)						
Subject Code	Subject Name	Subject Category	Hours / Week			Credits
			L	T	P	
14 Core Credit Units						
MCA18401CR	Artificial Intelligence	Core	3	1	0	4
MCA18402CR	Computer Graphics	Core	3	1	0	4
MCA18403CR	Artificial Intelligence Lab	Core	0	0	4	2
MCA18404CR	Computer Graphics Lab	Core	0	0	4	2
MCA18004CR	Multimedia Systems	Core	2	0	0	2
8 Discipline Centric Elective Credit Units						
MCA18405DCE	Network Security	DCE	3	0	2	4
MCA18406DCE	Image Processing	DCE	3	0	2	4
MCA18407DCE	Object Oriented Analysis and Design	DCE	3	1	0	4
2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students						
MCA18004GE	Advanced Business Systems	GE	2	0	0	2

Semester-V (24 Credit unit Semester)						
Subject Code	Subject Name	Subject Category	Hours / Week			Credits
			L	T	P	
12 Core Credit Units						
MCA18501CR	Java Programming	Core	3	1	0	4
MCA18502CR	Systems Programming	Core	3	1	0	4
MCA18503CR	Java Programming Lab	Core	0	0	4	2
MCA18504CR	Systems Programming Lab	Core	0	0	4	2
12 Discipline Centric Elective Credit Units						
MCA18505DCE	Machine Learning	DCE	3	0	2	4
MCA18506DCE	Wireless and Mobile Communication	DCE	3	0	2	4
MCA18507DCE	Theory of Computation	DCE	3	1	0	4
MCA18508DCE	Data Warehousing	DCE	3	1	0	4

Semester-VI (24 Credit unit Semester)						
Subject Code	Subject Name	Subject Category	Hours / Week			Credits
			L	T	P	
24 Core Credit Units						
MCA18601CR	Project Problem Identification	Core	0	4	0	4
MCA18602CR	Project Problem Analysis	Core	0	4	0	4
MCA18603CR	Project Dissertation	Core	0	4	0	4
MCA18604CR	Project Software Development	Core	0	12	0	12

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