

DEPARTMENT OF COMPUTER SCIENCE
ALIGARH MUSLIM UNIVERSITY ALIGARH, U.P. – 202002
Semester Courses: MCA, Session 2015 -2016
Curriculum Structure

	COURSE NO.	PAPER TITLE	Periods per week		Credits	Sessional Marks/	Mid-Sem Marks	Final Marks	Total Marks	
			Theory	Lab		Continuous Evaluation				
MCA 1st Year	w.e.f. : 2015-2016									
Ist SEMESTER	CSM-1001	Fundamentals of Information Technology	3+1		4	10	30	60	100	
	CSM-1002	Programming & Problem Solving using C	3+1		4	10	30	60	100	
	CSM-1003	Analysis and Design of Information Systems	3+1		4	10	30	60	100	
	CSM-1004	Digital Logic and Computer Organization	3+1		4	10	30	60	100	
	CSM-1005	Numerical and Statistical Methods	3+1		4	10	30	60	100	
	CSM-1071	Laboratory Course – I		4+2	4	40	-	60	100	
IInd SEMESTER	CSM-2001	Algorithms and Data Structure using C++	3+1		4	10	30	60	100	
	CSM-2002	Object Oriented Programming using Java	3+1		4	10	30	60	100	
	CSM-2003	Analysis and Design of Information Systems (Object Oriented Approach)	3+1		4	10	30	60	100	
	CSM-2004	Database Management System	3+1		4	10	30	60	100	
	CSM-2005	Discrete Mathematical Structure	3+1		4	10	30	60	100	
	CSM-2071	Laboratory Course – II		4+2	4	40	-	60	100	
M.C.A. 2nd Year	w.e.f. : 2015-2016									
IIIrd SEMESTER	CSM-3001	Operating System	3+1		4	10	30	60	100	
	CSM-3002	Visual Programming	3+1		4	10	30	60	100	
	CSM-3003	Artificial Intelligence	3+1		4	10	30	60	100	
	CSM-3004	Theory of Computation	3+1		4	10	30	60	100	
	CSM-3021	Data Warehousing & Data Mining	3+1		4	10	30	30	30	100
	CSM-3022	Soft Computing								
	CSM-3023	Computer Graphics								
	CSM-3024	ERP System								
CSM-3071	Laboratory Course – III		4+2	4	40	-	60	100		

IVth SEMESTER	CSM-4001	Data Communication & Computer Network		3+1	4	10	30	60	100
	CSM-4002	Internet and Web Technologies		3+1	4	10	30	60	100
	CSM-4003	Linux and Shell Programming		3+1	4	10	30	60	100
	CSM-4021	Compiler Construction		3+1	4	10	30	60	100
	CSM-4022	Optimization Techniques							
	CSM-4023	Parallel Programming with MPI							
	CSM-4024	Simulation & Modeling							
	CSM-4025	Information Technology and its Applications (Open Elective)		3+1	4	10	30	60	100
	CSM-4071	Laboratory Course –IV		4+2	4	40	-	60	100
M.C.A. 3rd Year	w.e.f.: 2015-2016								
V SEMESTER	CSM-5001	Software Engineering		3+1	4	10	30	60	100
	CSM-5002	Microprocessor: Architecture Applications		3+1	4	10	30	60	100
	CSM-5003	E-Commerce		3+1	4	10	30	60	100
	CSM-5021	TCP/IP Programming		2	2	10	30	60	100
	CSM-5022	Mobile Computing							
	CSM-5023	Software Quality Assurance							
	CSM-5024	Account & Finance Management		2	2	10	30	60	100
	CSM-5025	Network Security							
	CSM-5026	Elective of CS (Information Security)		3+1	4	10	30	60	100
	CSM-5071	Laboratory Course–V		4+2	4	40	-	60	100
VI Semester	CSM-6D1	Dissertation Work (4 to 6 month Duration)	Problem Identification, self study and Development/ Field work/ Dissertation Writing	-	12	40	-	60	100
			Dissertation Presentation/Final Viva		12	40	-	60	100