

Al - Ansar Regional Polytechnic college, Al Iahabad

Course Structure MCA (Integrated - 5 Years)

Eligibility: 10+2 or Equivalent

Sub. Code	Subject	Credits	Sub. Code	Subject	Credits
1st Semester			2nd Semester		
IMCA-01	Computer Fundamentals and Windows Based Application	3	IMCA-05	Computer Organisation and Architecture	3
IMCA-02	Communication Skills in English	4	IMCA-06	Mathematics	4
IMCA-03	Programming C	3	IMCA-07	DBMS	3
IMCA-04	Data Structure	3	IMCA-08	OOPS with C++	3
IMCA-P1	C Programming Lab	2	IMCA-P3	C++ Lab	2
IMCA-P2	Windows based Application Lab	2	IMCA-P4	Data Structure Lab	2
3rd Semester			4th Semester		
IMCA-09	Data Communication	3	IMCA-13	Software Engineering	3
IMCA-10	Operating System	4	IMCA-14	Java Programming	4
IMCA-11	Computer graphics	3	IMCA-15	RDBMS	3
IMCA-12	Client Server Architecture	3	IMCA-16	Unix and Shell Programming	3
IMCA-P5	Graphics Lab	2	IMCA-P7	Java Lab	2
IMCA-P6	DBMS Lab	2	IMCA-P8	Unix Lab	2
5th Semester			6th Semester		
IMCA-17	Algorithm and Analysis	3	IMCA-21	Discrete Mathematics	3
IMCA-18	Internet Programming	3	IMCA-22	OOAD	3
IMCA-19	Application Programming	3	IMCA-23	.Net Programming	3
IMCA-20	System Programming	3	IMCA-24	Artificial Intelligence	2
IMCA-P9	Lab: Application Programming Lab	2	IMCA-P11	.Net Programming Lab	2
IMCA-P10	Lab: Multimedia	2	IMCA-P12	RDBMS Lab	3
7th Semester			8th Semester		
IMCA-25	MIS and ERP	4	IMCA-29	Advanced Software Engineering	4
IMCA-26	Advanced Computer Graphics	4	IMCA-30	Analysis and Design of Algorithm	4
IMCA-27	System Simulation and Modeling	4	IMCA-31	Advanced Java Programming	4
IMCA-28	Advanced Unix and Shell Programming	4	IMCA-32	System Programming	4
IMCA-P13	System Simulation and Modeling Lab	4	IMCA-P15	ADA Lab	4
IMCA-	Operating System Lab	4	IMCA-	Advanced Java	4

P14			P16 Programming Lab		
9th Semester			10th Semester		
IMCA-33	Advanced Computer Network and Security	4	IMCA-37	Advanced MIS and E-Commerce	5
IMCA-34	Internet Programming and Web Designing	4	IMCA-38	Elective -2	5
IMCA-35	Data Warehousing and Data Mining	4	IMCA-39	Elective -2	4
IMCA-36	Elective -1	4	IMCA-40	Project Viva voice	8 2
IMCA-P17	System Programming Lab	4			
IMCA-P18	Web Designing / Internet Lab	5	Grand Credits		205

Elective- 1	Elective -2	Elective -3
1.Compiler Design	1.Pattern Recognition	1.Client Server Architecture
2.Mobile Computing and Communication	2.Operation Research	2.Artificial Intelligence
3.Simulation and Modeling	3.Advanced Computer Architecture	3.Network Management