

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
INTEGRATED MASTER OF COMPUTER APPLICATIONS
CURRICULUM - SEMESTERS I TO X
YEAR: 2020

INT MCA SEMESTER I										
Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot	
		L	T	P						
20INMCA101	English	4	-	-	40	60	100	4	A	
20INMCA103	Basic Mathematics	3	1	-	40	60	100	4	B	
20INMCA105	Introduction to Programming	3	1	-	40	60	100	4	C	
20INMCA107	Introduction to Computers & PC hardware	3	1	-	40	60	100	4	D	
20INMCA109	Fundamentals of Accountancy	3	1	-	40	60	100	4	E	
20INMCA131	Office Automation Lab			5	100		100	1	S	
20INMCA133	Introduction - PC hardware Lab			4	100		100	1	T	
		16	4	9	400	300	700	22		
INT MCA SEMESTER II										
Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot	
		L	T	P						
20INMCA102	Technical Communication	3	1	-	40	60	100	4	A	
20INMCA104	Introduction to Discrete Mathematics	3	1	-	40	60	100	4	B	
20INMCA106	Introduction to Digital Systems & Logic Designs	3	1	-	40	60	100	4	C	
20INMCA108	Problem Solving and Structured Programming	3	1	-	40	60	100	4	D	
20INMCA110	Personality Development and Soft Skills	3	1	-	40	60	100	4	R	
20INMCA132	Problem Solving and Structured Programming Lab			5	100		100	1	S	
20INMCA134	Technical Communication Lab			4	100		100	1	T	
		15	5	9	400	300	700	22		

INT MCA SEMESTER III

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA201	Computer Organization	3	1	-	40	60	100	4	A
20INMCA203	Probability and Statistics	3	1	-	40	60	100	4	B
20INMCA205	Introduction to Object Oriented Programming	3	1	-	40	60	100	4	C
20INMCA207	Accounting and Financial Management	3	1	-	40	60	100	4	D
20INMCA209	Data Structures	3	1	-	40	60	100	4	E
20INMCA231	Data Structures Lab			5	100		100	1	S
20INMCA233	Basic Object Oriented Programming Lab			4	100		100	1	T
		15	5	9	400	300	700	22	

INT MCA SEMESTER IV

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA202	Linux/ Unix Fundamentals	3	1	-	40	60	100	4	A
20INMCA204	Statistical Applications	3	1	-	40	60	100	4	B
20INMCA206	Operating Systems	3	1	-	40	60	100	4	C
20INMCA208	Elements of Business Management	3	1	-	40	60	100	4	D
20INMCA210	Internet Concepts and Web Technology	3	1	-	40	60	100	4	E
20INMCA232	Scripting Lab			5	100		100	1	S
20INMCA234	Statistics Lab			4	100		100	1	T
		15	5	9	400	300	700	22	

INT MCA SEMESTER V

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA301	Numerical Methods	3	1	-	40	60	100	4	A
20INMCA303	User Interface Design	3	1	-	40	60	100	4	B
20INMCA305	Introduction to RDBMS and SQL	3	1	-	40	60	100	4	C
20INMCA307	Fundamentals of Information Systems Security	3	1	-	40	60	100	4	D
20INMCA309	Introduction to Operations Research	3	1	-	40	60	100	4	E
20INMCA331	RDBMS Lab			5	100		100	1	S
20INMCA333	User Interface Design Lab			4	100		100	1	T
		15	5	9	400	300	700	22	

INT MCA SEMESTER VI

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA302	Introduction to Software Engineering	3	1	-	40	60	100	4	A
20INMCA304	Fundamentals of Data Science	3	1	-	40	60	100	4	B
20INMCA306	Visual Programming	3	1	-	40	60	100	4	C
20INMCA308	Design & Analysis of Algorithms	3	1	-	40	60	100	4	D
20INMCA310	Mini Project 1			4	100		100	2	R
20INMCA332	Open Source Platforms - Lab		1	4	100		100	1	S
20INMCA334	Visual Programming Lab			4	100		100	1	T
		12	5	12	460	240	700	20	

INT MCA SEMESTER VII

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA401	M- Commerce	3	1	-	40	60	100	4	A
20INMCA403	Java Programming	3	1	-	40	60	100	4	B
20INMCA405	Advanced Web programming	3	1	-	40	60	100	4	C
20INMCA407	Advanced Software Engineering	3	1	-	40	60	100	4	D
20INMCA409	Distributed Computing	3	1	-	40	60	100	4	E
20INMCA431	Java Programming - Lab		1	3	100		100	1	S
20INMCA433	Advanced Web programming Lab		1	3	100		100	1	T
20INMCANC1	Entrepreneurship & Innovations in Technology			1				0	
		15	7	7	400	300	700	22	

INT MCA SEMESTER VIII

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA402	Advanced Database Management Systems	3	1	-	40	60	100	4	A
20INMCA404	Advanced Computer Networks	3	1	-	40	60	100	4	B
20INMCA406	Research Methodology	3	1	-	40	60	100	4	C
20INMCA4--	Elective 1	3	1	-	40	60	100	4	D
20INMCA4--	Elective 2	3	1	-	40	60	100	4	E
20INMCA432	Advanced DBMS Lab		1	3	100		100	1	S
20INMCA434	Networking & System Administration Lab		1	3	100		100	1	T
20INMCANC2	Industrial Readiness Training			1				0	
		15	7	7	400	300	700	22	

INT MCA SEMESTER IX

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA501	Data Science & Machine Learning	3	1	-	40	60	100	4	A
20INMCA503	Mobile Computing	3	1	-	40	60	100	4	B
20INMCA5--	Elective 3	3	1	-	40	60	100	4	C
20INMCA5--	Elective 4	3	1	-	40	60	100	4	D
20INMCA509	Mini Project 2			4	100		100	2	R
20INMCA531	Data Science Lab		1	3	100		100	1	S
20INMCA533	Mobile Application Development Lab		1	3	100		100	1	T
20INMCANC3	Domain Expertise Workshops			1				0	
		12	6	11	460	240	700	20	

INT MCA SEMESTER X

Course No	Course	Hours/week			IA Marks	ESE Marks	Total	Credits	Exam Slot
		L	T	P					
20INMCA502	Comprehensive Viva	-	-	-	-	100	100	6	
20INMCA504	Seminar	-	-	2	50	-	50	2	
20INMCA506	Main Project	-	-	27	70	30	100	12	
		-	-	29	120	130	250	20	
	TOTAL						6550	214	

Elective I	
20INMCA462	Applied Statistics
20INMCA464	Organizational Behaviour
20INMCA466	Functional Programming
20INMCA468	Virtualisation and Containers
20INMCA472	Advanced Operating Systems
Elective II	
20INMCA482	Business Management
20INMCA484	Embedded Systems
20INMCA486	Computer Graphics
20INMCA488	Artificial Intelligence
20INMCA492	IPR and Cyber Laws
Elective III	
20INMCA561	Operations Research
20INMCA563	Cyber Security & Cryptography
20INMCA565	Cloud Computing
20INMCA567	Cyber Forensics
20INMCA569	Compiler Design
Elective IV	
20INMCA581	Internet of Things
20INMCA583	Deep Learning
20INMCA585	Digital Image Processing
20INMCA587	Bioinformatics
20INMCA589	Social Network Analysis