APJ ABDUL KALAM

TECHNOLOGICAL

UNIVERSITY

MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

CURRICULUM – SEMESTERS I to X

RS: 36000 Per Semester

No. of credits   :   211

SEMESTER 1

Course No	Master of Computer Applications (Integrated) Course	Hours / week L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
INMCA101	English	3	1	-	40	60	100	4	A
INMCA103	Mathematical Foundations of Computer Science	3	1	-	40	60	100	4	B
INMCA105	Introduction to Digital Systems and Logic Design	3	1	-	40	60	100	4	C
INMCA107	Introduction to Computers and PC hardware	3	1	-	40	60	100	4	D
INMCA109	Fundamentals of Accountancy	3	1	-	40	60	100	4	E
INMCA131	Office Automation Lab	-	-	6	100		100	1	S
INMCA133	PC hardware Lab	-	-	4	100		100	1	T
	TOTAL	15	5	10	400	300	700	22	

SEMESTER 2

Course No	Master of Computer Applications (Integrated) Course	Hours / week L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
INMCA102	Technical Communication	3	1	-	40	60	100	4	A
INMCA104	Introduction to Discrete Mathematics	3	1	-	40	60	100	4	B
INMCA106	Computer Organization	3	1	-	40	60	100	4	C
INMCA108	Problem Solving and Structured Programming	3	1	-	40	60	100	4	D
INMCA112	Personality Development and Soft Skills	3	1	-	40	60	100	4	E
INMCA132	Problem Solving and Structured Programming Lab	-	-	6	100		100	1	S
INMCA134	Technical Communication Lab	-	-	4	100		100	1	T
	TOTAL	15	5	10	400	300	700	22	

SEMESTER 3

Course No	Master of Computer Applications (Integrated) Course	Hours / week L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
INMCA201	Principles of Programming	3	1	-	40	60	100	4	A
INMCA203	Probability and Statistics	3	1	-	40	60	100	4	B
INMCA204	Introduction to Object Oriented Programming	3	1	-	40	60	100	4	C
INMCA206	Accounting and Financial Management	3	1	-	40	60	100	4	D
INMCA208	Introduction to Data Structures	3	1	-	40	60	100	4	E
INMCA231	Basic Data Structures Lab	-	-	6	100		100	1	S
INMCA233	Basic Object Oriented Programming Lab	-	-	4	100		100	1	T
	TOTAL	15	5	10	400	300	700	22	

SEMESTER 4

Course No	Master of Computer Applications (Integrated) Course	L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
INMCA202	Introduction to Visual Programming	3	1	-	40	60	100	4	A
INMCA204	Applied Statistics	3	1	-	40	60	100	4	B
INMCA206	Introduction to Operating Systems	3	1	-	40	60	100	4	C
INMCA208	Elements of Business Management	3	1	-	40	60	100	4	D
INMCA212	Internet Concepts and Web Design	3	1	-	40	60	100	4	E
INMCA232	Visual Programming Lab	-	-	6	100		100	1	S
INMCA234	Statistics Lab	-	-	4	100		100	1	T
	TOTAL	15	5	10	400	300	700	22	

SEMESTER 5

Course No	Master of Computer Applications (Integrated) Course	L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
INMCA301	Mathematics for Computer Applications	3	1	-	40	60	100	4	A
INMCA303	Introduction to E-Commerce	3	1	-	40	60	100	4	B
INMCA305	Introduction to RDBMS and SQL	3	1	-	40	60	100	4	C
INMCA307	IT Infrastructure Management	3	1	-	40	60	100	4	D
INMCA309	Introduction to Operations Research	4	-	-	40	60	100	4	E
INMCA331	RDBMS Lab	-	-	4	100		100	1	S
INMCA333	Scripting Lab	-	-	6	100		100	1	T
	TOTAL	16	4	10	400	300	700	22	

SEMESTER 6

Course No	Master of Computer Applications (Integrated) Course	L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
INMCA302	Introduction to Software Engineering	3	1	-	40	60	100	4	A
INMCA304	Numerical Methods	3	1	-	40	60	100	4	B
INMCA306	Computational Sustainability	3	1	-	40	60	100	4	C
INMCA308	Open Source Platforms	3	1	-	40	60	100	4	D
INMCA312	Advanced Object Oriented Programming	3	1	-	40	60	100	4	E
INMCA332	Advanced Object Oriented Programming Lab	-	-	6	100		100	1	S
INMCA334	Open Source Platforms Lab	-	-	4	100		100	1	T
	TOTAL	15	5	10	400	300	700	22	

SEMESTER 7

Course No	Master of Computer Applications (Integrated) Course	Hours / week L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
RLMCA201	Computer Networks	3	1	-	40	60	100	4	A
RLMCA203	Software Engineering	3	1	-	40	60	100	4	B
RLMCA205	Database Management Systems	3	1	-	40	60	100	4	C
RLMCA207	Design and Analysis of Algorithms	3	1	-	40	60	100	4	D
RLMCA209	Web Programming	3	1	-	40	60	100	4	E
RLMCA231	Database Lab	-		4	100		100	1	S
RLMCA233	Web Programming Lab	-		4	100		100	1	T
	TOTAL	15	5	8	400	300	700	22	

SEMESTER 8

Course No	Master of Computer Applications (Integrated) Course	Hours / week L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
RLMCA202	Application Development and Maintenance	3	1	-	40	60	100	4	A
RLMCA204	Big Data Technologies	3	1	-	40	60	100	4	B
RLMCA206	Mobile Computing	3	1	-	40	60	100	4	C
RLMCA208	Introduction to Machine Learning	3	1	-	40	60	100	4	D
RLMCA2- -	Elective I	3	1	-	40	60	100	4	E
RLMCA232	System Design Lab	-		4	100		100	1	S
RLMCA234	Mobile Application Development Lab	-		4	100		100	1	T
	TOTAL	15	5	8	400	300	700	22	

ELECTIVE-I	
RLMCA262	Functional Programming
RLMCA264	Design and Analysis of Parallel Algorithms
RLMCA266	Advanced Database Systems
RLMCA268	Computational Science
RLMCA272	Advanced Java Programming
RLMCA274	Business Intelligence and its Applications

SEMESTER 9

Course No	Master of Computer Applications (Integrated) Course	Hours / week L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
RLMCA301	Web Data Mining	3	1	-	40	60	100	4	A
RLMCA303	E-Commerce	3	-	-	40	60	100	3	B
RLMCA305	Cryptography and Cyber Security	3	1	-	40	60	100	4	C
RLMCA3- -	Elective II	3	1	-	40	60	100	4	D
RLMCA3- -	Elective III	3	1	-	40	60	100	4	E
RLMCA341	Seminar	-	-	2	50	-	50	2	S
RLMCA351	Mini Project	-	-	8	150	-	150	2	T
	TOTAL	15	4	10	400	300	700	23	

ELECTIVE-II		ELECTIVE-III	
RLMCA361	Compiler Construction	RLMCA381	Cloud Computing
RLMCA363	IPR and Cyber Law	RLMCA383	Human Computer Interaction
RLMCA365	Cyber Forensics	RLMCA385	Bioinformatics
RLMCA367	Internet of Things	RLMCA387	Computer Graphics
RLMCA369	Python Programming	RLMCA389	Parallel and Distributed Computing
RLMCA371	Social Network Analysis	RLMCA391	Artificial Intelligence

SEMESTER 10

Course No	Master of Computer Applications (Integrated) Course	Hours / week L	T	P	IA marks	ESE Marks	Total	Credits	Exam slot
RLMCA352	Project and Viva Voce			30	70	30	100	12	S
		Total			70	30	100	12	
		Cumulative Total					6400	211	