## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY MASTER OF COMPUTER APPLICATIONS

CURRICULUM - SEMESTERS I TO IV YEAR: 2020

SEMESTER I									
		Hours/week							
Course No	Course	L	L T P		IA Marks	ESE Marks	Total	Credits	Exam Slot
20MCA101	Mathematical Foundations for Computing	3	1	-	40	60	100	4	Α
20MCA103	Digital Fundamentals & Computer Architecture	3	1	-	40	60	100	4	В
20MCA105	Advanced Data Structures	3	1	-	40	60	100	4	С
20MCA107	Advanced Software Engineering	3	1	-	40	60	100	4	D
20MCA131	Programming Lab	0	1	3	50	50	100	2	R
20MCA133	Web Programming Lab	0	1	3	50	50	100	2	S
20MCA135	Data Structures Lab	0	1	3	50	50	100	2	Т
20MCANC1	Entrepreneurship & Innovations in Technology	-	-	1	-	-	-	0	
	Minimum one MOOC Course is to be completed	-	-	-	-	-	-	0	
		12	7	10	310	390	700	22	

SEMESTER II										
			Hours/week							
Course No	Course		L	Т	Р	IA Marks	ESE Marks	Total	Credits	<b>Exam Slot</b>
20MCA102	Advanced Database Management Systems		_3	1		40	60	100	4	Α
20MCA104	Advanced Computer Networks		3	1	-	40	60	100	4	В
20MCA1	Elective 1		3	1	-	40	60	100	4	С
20MCA1	Elective 2		3	1	-	40	60	100	4	D
20MCA132	Object Oriented Programming Lab		0	1	3	50	50	100	2	R
20MCA134	Advanced DBMS Lab		0	1	3	50	50	100	2	S
20MCA136	Networking & System Administration Lab		0	1	3	50	50	100	2	Т
20MCANC2	Industrial Readiness Training		-		1	-	-	-	0	
	Second MOOC Course is to be completed		-	-	-	-	-	-	0	
			12	7	10	310	390	700	22	

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SEMESTER III									
		Hours/week							
Course No	Course	L	L T P		IA Marks	ESE Marks	Total	Credits	<b>Exam Slot</b>
20MCA201	Data Science & Machine Learning	3	1	-	40	60	100	4	Α
20MCA203	Design & Analysis of Algorithms	3	1	-	40	60	100	4	В
20MCA2	Elective 3	3	1	-	40	60	100	4	С
20MCA2	Elective 4	3	1		40	60	100	4	D
20MCA241	Data Science Lab	0	1	3	50	50	100	2	R
20MCA243	Mobile Application Development Lab	0	1	3	50	50	100	2	S
20MCA245	Mini Project	0		4	100	-	100	2	Т
20MCANC3	Domain Expertise Workshops	-	-	1	-	-	-	0	
		12	6	11	360	340	700	22	

SEMESTER IV										
			Hours/week							
Course No	Cou	ırse	L T P		IA Marks	ESE Marks	Total	Credits	<b>Exam Slot</b>	
20MCA242	Comprehensive Viva		-	- 1	<u> </u>	-	100	100	6	
20MCA244	Seminar	1//	E5ti	31-0	2	50	- L	50	2	
20MCA246	Main Project	V // 1	9	Sept.	27	70	30	100	12	
	•				29	120	130	250	20	
		100						2350	86	

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## APJ ABDUL KALAM TECHNOLOGICAL

Elective I	
20MCA162	Applied Statistics
20MCA164	Organizational Behaviour
20MCA166	Functional Programming
20MCA168	Virtualisation and Containers
20MCA172	Advanced Operating Systems
Elective II	
20MCA182	Business Management
20MCA184	Embedded Systems
20MCA186	Computer Graphics
20MCA188	Artificial Intelligence
20MCA192	IPR and Cyber Laws
<b>Elective III</b>	
20MCA261	Operations Research
20MCA263	Cyber Security & Cryptography
20MCA265	Cloud Computing
20MCA267	Cyber Forensics
20MCA269	Compiler Design E510
<b>Elective IV</b>	
20MCA281	Internet of Things
20MCA283	Deep Learning
20MCA285	Digital Image Processing
20MCA287	Bioinformatics
20MCA289	Social Network Analysis