

THANGAL KUNJU MUSALIAR COLLEGE OF ENGINEERING
(Government Aided and Autonomous)
KOLLAM-691005, KERALA

Abstract

TKMCE-Academics- MCA curriculum 2022 -orders issued

No: ACU3/1081/2022

Date: 01/10/2022

Order


Read:

1. UGC order Ref: F. 22-1/2022(AC) dated 26th May 2022
2. U.O. No. KTU/ASST11(ADMIN)/3212/2022 dated 2nd September 2022
3. ACU3/1010/2022 dated 16th September 2022

The TKM College of Engineering was conferred with autonomous status by the UGC on 26th May 2022 vide Ref: 1 and the same was notified by the APJ Abdul Kalam Technological University, on 2nd September 2022, vide ref.2

The first meeting of the Governing Body after the notification of autonomous status was held on 15th September 2022, authorized the Principal to constitute the Academic council as per the UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018. As per the resolution of the Governing Body, the Principal has constituted the Academic council on 16th September 2022 vide ref.3. The first Academic council meeting held on 24th September 2022, approved the Curriculum of MCA for the academic year 2022-23. The Curriculum for the MCA programmes, 2022 approved by the Academic Council, is hereby notified as the **TKM College of Engineering (Aided and Autonomous) MCA Curriculum 2022**.





PRINCIPAL
THANGAL KUNJU MUSALIAR
COLLEGE OF ENGINEERING
KOLLAM-5

Copy to All HODs, Deans, IQAC, COE, AA, AO, SS, JS(A)

**TKM College of Engineering (Government Aided and Autonomous)
MCA Curriculum , 2022**

This will be known as **the TKM College of Engineering MCA curriculum, 2022**. These are subject to the provisions of the UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018 and APJ Abdul Kalam Technological University Act, 2015, the statutes and ordinances if any issued in the subject from time to time. All the rules specified herein, approved by the Academic Council, will be in force and applicable to the students admitted from the Academic year 2022-23 onwards.




**PRINCIPAL
THANGAL KUNJU MUSALIAR
COLLEGE OF ENGINEERING
KOLLAM-5**

TKM COLLEGE OF ENGINEERING
MASTER OF COMPUTER APPLICATIONS
CURRICULUM-SEMESTERS I TO IV
YEAR: 2022

SEMESTER I									
CourseNo	Course	Hours/week			IAMarks	ESEMarks	Total	Credits	ExamSlot
		L	T	P					
22MCA101	MathematicalFoundationsforComputing	3	1	-	40	60	100	4	A
22MCA103	DigitalFundamentals&ComputerArchitecture	3	1	-	40	60	100	4	B
22MCA105	Advanced DataStructures	3	1	-	40	60	100	4	C
22MCA107	AdvancedSoftwareEngineering	3	1	-	40	60	100	4	D
22MCA131	ProgrammingLab	0	1	3	50	50	100	2	R
22MCA133	WebProgramming Lab	0	1	3	50	50	100	2	S
22MCA135	DataStructuresLab	0	1	3	50	50	100	2	T
22MCANC1	Entrepreneurship& Innovationsin Technology	-	-	1	-	-	-	0	
	MinimumoneMOOCcourseistobecompleted	-	-	-	-	-	-	0	
		12	7	10	310	390	700	22	

SEMESTER II									
CourseNo	Course	Hours/week			IAMarks	ESEMarks	Total	Credits	ExamSlot
		L	T	P					
22MCA102	AdvancedDatabaseManagementSystems	3	1	-	40	60	100	4	A
22MCA104	AdvancedComputerNetworks	3	1	-	40	60	100	4	B
22MCA1--	Elective 1	3	1	-	40	60	100	4	C
22MCA1--	Elective 2	3	1	-	40	60	100	4	D
22MCA132	ObjectOriented Programming Lab	0	1	3	50	50	100	2	R
22MCA134	AdvancedDBMSLab	0	1	3	50	50	100	2	S
22MCA136	Networking&SystemAdministrationLab	0	1	3	50	50	100	2	T
22MCANC2	IndustrialReadiness Training	-	-	1	-	-	-	0	
	Second MOOCcourseis tobecompleted	-	-	-	-	-	-	0	
		12	7	10	310	390	700	22	

SEMESTER III									
CourseNo	Course	Hours/week			IAMarks	ESEMarks	Total	Credits	ExamSlot
		L	T	P					
22MCA201	DataScience&MachineLearning	3	1	-	40	60	100	4	A
22MCA203	Design&AnalysisofAlgorithms	3	1	-	40	60	100	4	B
22MCA2--	Elective 3	3	1	-	40	60	100	4	C
22MCA2--	Elective 4	3	1	-	40	60	100	4	D
22MCA241	DataScienceLab	0	1	3	50	50	100	2	R
22MCA243	MobileApplicationDevelopmentLab	0	1	3	50	50	100	2	S
22MCA245	MiniProject	0		4	100	-	100	2	T
22MCANC3	DomainExpertise Workshops	-	-	1	-	-	-	0	
		12	6	11	360	340	700	22	

SEMESTER IV									
CourseNo	Course	Hours/week			IAMarks	ESEMarks	Total	Credits	ExamSlot
		L	T	P					
22MCA242	Comprehensive Viva	-	-	-	-	100	100	6	
22MCA244	Seminar	-	-	2	50	-	50	2	
22MCA246	MainProject	-	-	27	70	30	100	12	
				29	120	130	250	20	
							2350	86	

ElectiveI	
22MCA162	AppliedStatistics
22MCA164	OrganizationalBehaviour
22MCA166	Functional Programming
22MCA168	Virtualisation andContainers
22MCA172	AdvancedOperatingSystems
ElectiveII	
22MCA182	Business Management
22MCA184	EmbeddedSystems
22MCA186	ComputerGraphics
22MCA188	ArtificialIntelligence
22MCA192	IPRand CyberLaws
ElectiveIII	
22MCA261	OperationsResearch
22MCA263	Cyber Security&Cryptography
22MCA265	CloudComputing
22MCA267	Cyber Forensics
22MCA269	Compiler Design
ElectiveIV	
22MCA281	Internet ofThings
22MCA283	DeepLearning
22MCA285	DigitalImageProcessing
22MCA287	Bioinformatics
22MCA289	Social NetworkAnalysis