



D Y Patil Agriculture & Technical University, Talsande

Structure & Contents for M.C.A. in School of Engineering and Technology Program (AY 2021-22) R0

Structure for First Year Odd Semester (Semester I)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
MCA001101 Version: 1.0	Computational Mathematics	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001102 Version: 1.0	Relational Database Management System	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001103 Version: 1.0	Operating System	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001104 Version: 1.0	Software Engineering & Project Management	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001105 Version: 1.0	Java Programming	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001106 Version: 1.0	Java Programming Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA001107 Version: 1.0	RDBMS Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA001108 Version: 1.0	Soft skill and Personality Development	-	-	2	1	Satisfactory / Not Satisfactory			
Total		15	-	10	20	700 Marks	Total Hours: 25, Total Credits: 20		

FET – Faculty Evaluation Theory; FEP - Faculty Evaluation Practical; MID - Mid Semester Examination; ESE – End Semester Examination; Au - Audit Course



D Y Patil Agriculture & Technical University, Talsande

Structure & Contents for M.C.A. in School of Engineering and Technology Program (AY 2021-22) R0

Structure for First Year Even Semester (Semester II)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
MCA001201 Version: 1.0	Data Analytics	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001202 Version: 1.0	Data Structures and Algorithms	3		-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001203E Version: 1.0	Program Elective I	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001204 Version: 1.0	Web Technologies	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001205 Version: 1.0	Python Programming	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA001206 Version: 1.0	Data Structures and Algorithms Lab using Python	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA001207 Version: 1.0	Web Technologies Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA001208 Version: 1.0	Soft skill and Personality Development	-	-	2	1	Satisfactory / Not Satisfactory			
Total		15	-	10	20	700 Marks	Total Hours: 25, Total Credits: 20		
FET – Faculty Evaluation Theory; FEP - Faculty Evaluation Practical; MID - Mid Semester Examination; ESE – End Semester Examination; Au - Audit Course									



D Y Patil Agriculture & Technical University, Talsande

Structure & Contents for M.C.A. in School of Engineering and Technology Program (AY 2021-22) R0

Structure for Second Year Odd Semester (Semester III)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
MCA002301 Version: 1.0	Computer Networks & Security	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002302 Version: 1.0	Machine Learning	3	1	-	4	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002303E_ Version: 1.0	Program Elective II	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002304 Version: 1.0	Mobile Application Development	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002305 Version: 1.0	Software Quality Assurance And Testing	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002306 Version: 1.0	Machine Learning Lab	-	-	2	1	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA002307 Version: 1.0	Mobile Application Development Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA002308 Version: 1.0	Internship	-	-	-	2	Practical 100 Marks	FEP	50	40
Total		15	1	6	20	Total Hours: 22, Total Credits: 20			

FET – Faculty Evaluation Theory; FEP - Faculty Evaluation Practical; MID - Mid Semester Examination; ESE – End Semester Examination; Au - Audit Course



D Y Patil Agriculture & Technical University, Talsande

Structure & Contents for M.C.A. in School of Engineering and Technology Program (AY 2021-22) R0

Structure for Second Year Even Semester (Semester IV)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
MCA002401 Version: 1.0	.net Programming	3	1		4	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002402 Version: 1.0	A.I and Applications	4	-	-	4	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002403E_ Version: 1.0	Program Elective III	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002404 Version: 1.0	Advanced Web Technology	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
MCA002405 Version: 1.0	A.I and Applications Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA002406 Version: 1.0	Advanced Web Technology Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA002407 Version: 1.0	Project	-	-	4	2	Practical 200 Marks	FEP	50	40
							POE	50	40
Total		13	1	12	20	Total Hours: 26, Total Credits: 20			

FET – Faculty Evaluation Theory; FEP - Faculty Evaluation Practical; MID - Mid Semester Examination; ESE – End Semester Examination; Au - Audit Course

D Y Patil Agriculture & Technical University, Talsande

**Structure & Contents for M.C.A. in School of Engineering and Technology
Program (AY 2021-22) R0**

Electives are to be decided by the students based on their personal choice, academic requirements and in consultation with mentor and HOD. Following electives are offered by the department:

Program Elective – I (for Semester II) MCA001203E_	Program Elective – II (for Semester III) MCA002303E_	Program Elective III (for Semester IV) MCA002403E_
Information and Network Security	Internet of Things	Cloud Computing
Object Oriented Analysis and Design	Pattern Recognition Techniques and Applications	Block Chain Technology
Computational Intelligence	Cyber Forensics	Ethical Hacking
Distributed database management	Parallel Programming	Big Data Analytics