



(w.e.f 2020-21)

JNTUA College of Engineering (Autonomous) Ananthapuramu
Department of Computer Science and Engineering
R20 Regulations

MCA I Semester

S.No	Course Code	Course Name	Category	L	T	P	Credits
1	20F05101	Programming & Data Structures	PC	3	0	0	3
2	20F05102	Computer Organization	PC	3	0	0	3
3	20F05103	Database Management Systems	PC	3	0	0	3
4	20F05104	Operating Systems	PC	3	0	0	3
5	20F05105	Mathematical and Statistical Foundations	BS&H	3	1	0	4
6	20F05106	Data Base Management Systems Lab	PC	0	0	3	1.5
7	20F05107	Programming & Data Structures Lab	PC	0	0	4	2
8	20F05108	Operating Systems Lab	PC	0	0	3	1.5
Total							21

MCA II Semester

S.No	Course Code	Course Name	Category	L	T	P	Credits
1	20F05201	Computer Networks	PC	3	0	0	3
2	20F05202	Business English and soft skills	PC	2	0	0	2
3	20F05203	Object Oriented Programming	PC	3	0	0	3
4	20F05204	Software Engineering	PC	3	0	0	3
5	20F05205	Design and Analysis of Algorithms	PC	3	0	0	3
6	20F05206A 20F05206B 20F05206C 20F05206D	Program Elective-1 1. Artificial Intelligence 2. Advanced Unix Programming 3. Data Warehousing and Data mining 4. MOOCS- 1 (NPTEL/SWAYAM)	PC / PE	3	0	0	3
7	20F05207	Object Oriented Programming Lab	PC	0	0	2	1
8	20F05208	Software Engineering lab	PC	0	0	2	1
9	20F05209	Design and Analysis of Algorithms lab	PC	0	0	2	1
10	20F05210	Program Elective-1 Lab	PC	0	0	2	1
Total							21

11. Madhavi
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MCA III Semester

S.No	Course Code	Course Name	Category	L	T	P	Credits
1	20F05301	Machine Learning	PC	3	0	0	3
2	20F05302	Web Technologies	PC	3	0	0	3
3	20F05303	Internet of Things	PC	3	0	0	3
4	20F05304A	Program Elective-2 1. Cloud Computing 2. Image Processing 3. Principles of Cryptography and Network Security 4. SOFTWARE TESTING 5. MOOCS-2 (NPTEL /SWAYAM)	PE	3	0	0	3
	20F05304B						
	20F05304C						
	20F05304D						
	20F05304E						
5	20F05305	Mobile Application Development		3	0	0	3
6	20F05306	Mobile Application Development Lab		0	0	2	1
7	20F05307	Web Technologies Lab	PC	0	0	3	1.5
8	20F05308	Machine Learning with Python Lab	PC	0	1	2	2
9	20F05309	Internet of Things Lab	PC	0	0	3	1.5
Total							21

MCA IV Semester

S.No	Course Code	Course Name	Category	L	T	P	Credits	
1	20F05401A 20F05401B 20F05401C 20F05401D	Program Elective-3 1. Block Chain technologies 2. Deep Learning 3. Design Patterns 4. MOOCs-3 (NPTEL/SWAYAM) 1.Full Stack Technologies 2. Any recommended course	PE	3	0	0	3	
2	20F05402A 20F05402B 20F05402C 20F05402D	Program Elective-4 1. Big Data Analytics 2. Software Defined Networks 3. Malware Analysis or Bio-Metric Security 4. MOOCs-4 (NPTEL/SWAYAM) 1.Data Science 2. Any recommended course	PE	3	0	0	3	
3	20F05403	Seminar				4	2	



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4	20F05404	Project Work/ Dissertation		0	0	18	9
Total							17

K. Reddy : *Dr. Reddy*