

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR, ANANTHAPURAMU
**COURSE STRUCTURE AND SYLLBI FOR
 Master of Computer Applications
 w.e.f. 2017-18 onwards**
MCA I Year -I-Semester

S.No.	Course code	Subject	L	T	P	C
1	17FHS101	Technical Communication Skills	4	-	-	4
2	17FBS101	Probability and Statistics	4	-	-	4
3	17FHS102	Accounting and Financial Management	4	-	-	4
4	17F00101	Mathematical Foundations for Computer Science	4	-	-	4
5	17F00102	Introduction to Problem Solving and Programming	4	-	-	4
6	17FHS103	English Language Communication Skills Lab	-	-	4	2
7	17F00103	Computer Programming Lab	-	-	4	2
8	17F00104	IT Workshop	-	-	4	2
Total			20	-	12	26

MCA I Year-II-Semester

S.No.	Course code	Subject	L	T	P	C
1	17FHS201	Organization Structure and Human Resource Management	4	-	-	4
2	17F00201	Data Structures	4	-	-	4
3	17F00202	Computer Organization	4	-	-	4
4	17F00203	Operations Research	4	-	-	4
5	17F00204	Java Programming	4	-	-	4
6	17F00205	Data Structures Lab	-	-	4	2
7	17F00206	Java Programming Lab	-	-	4	2
8	17FHS202	Advanced Communication Skills Lab	-	-	4	2
Total			20	-	12	26

MCA II Year-I-Semester

S.No.	Course code	Subject	L	T	P	C
1	17F00301	Database Management Systems	4	-	-	4
2	17F00302	Computer Networks	4	-	-	4
3	17F00303	Web Technologies	4	-	-	4
4	17F00304	Software Engineering	4	-	-	4
5	17F00305	Operating Systems	4	-	-	4
6	17F00306	Web Technologies Lab	-	-	4	2
7	17F00307	Operating Systems Lab	-	-	4	2
8	17F00308	Database Management Systems Lab	-	-	4	2
Total			20	-	12	26

MCA II Year-II-Semester

S.No.	Course code	Subject	L	T	P	C
1	17F00401	Object Oriented Analysis and Design	4	-	-	4
2	17F00402	Design and Analysis of Algorithms	4	-	-	4
3	17F00403	Linux Programming	4	-	-	4
4	17F00404 17F00405 17F00406	Elective-I a. Computer Graphics and Multimedia b. Internet of Things c. Artificial Intelligence	4	-	-	4
5	17F00407 17F00408 17F00409	Elective-II a. Big data Analytics b. Scripting Languages c. Distributed Systems	4	-	-	4
6	17F00410	Object Oriented Analysis and Design Lab	-	-	4	2
7	17F00411	Design and Analysis of Algorithms Lab	-	-	4	2
8	17F00412	Linux Programming Lab	-	-	4	2
Total			20	-	12	26

MCA III Year-I-Semester

S.No.	Course code	Subject	L	T	P	C
1	17F00501	Cloud Computing	4	-	-	4
2	17F00502	Fundamentals of Data Science	4	-	-	4
3	17F00503	Software Testing	4	-	-	4
4	17F00504 17F00505 17F00506	Elective-III a. Design Patterns b. Human Computer Interaction c. Python Programming	4	-	-	4
5	17F00507 17F00508 17F00509	Elective-IV a. Software Project management b. Mobile Application Development c. Data Warehousing & Mining	4	-	-	4
6	17F00510	Cloud Computing Lab	-	-	4	2
7	17F00511	Data Science Lab	-	-	4	2
8	17F00512	Software Testing Lab	-	-	4	2
Total			20	-	12	26

MCA III Year-II-Semester

S.No	Course code	Subject	C
1	17F00601	Seminar	2
2	17F00602	Dissertation/Thesis (Satisfactory/Not-Satisfactory)	8
Total			10