

ADAMAS UNIVERSITY

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

POSTGRADUATE PROGRAM

Course Structure and Syllabus

MCA

W.e.f. AY 2022-23



ADAMAS UNIVERSITY

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING PG Program: MCA

COURSE STRUCTURE

FIRST YEAR

(Common for all streams)

	SEMESTER I							
S.No. Course Code Course Title				T	P	Н	С	
1		Introduction to Programming				3	3	
2		Numerical & Statistical Methods					3	
3		Computer Organization & Architecture	3	0	0	3	3	
4		Software Engineering	3	0	0	3	3	
5	HSSM- I (English Communication)		3	0	0	3	2	
6	Operating System		3	0	0	3	3	
7		Introduction to Programming Lab	0	0	3	3	2	
8		Numerical & Statistical Methods Lab.	0	0	3	3	2	
9		Computer Organization & Architecture Lab.	0	0	3	3	2	
10		Operating System Lab	0	0	3	3	2	
	Semester I Total 18 0 12 30 25							

	SEMESTER II							
S.No.	L	T	P	Н	C			
1	Switching Circuits and Logic Design				0	3	3	
2		Object Oriented Programming with Java					3	
3	3 Data Structures					3	3	
4	4 Database Management System					3	3	
5	5 Mathematics for Computer Application		3	0	0	3	3	
6	6 Python Programming Lab		0	0	3	3	2	
7		Object Oriented Programming with Java Lab	0	0	3	3	2	
8	8 Data Structures Lab		0	0	3	3	2	
		Database Management System Lab	0	0	3	3	2	
	Semester II Total 15 0 12 27 23							

SECOND YEAR

SEMESTER III							
S.No.	Course Code	Course Title		T	P	Н	C
1		Design and Analysis of Algorithms		0	0	3	3
2		Data Communication & Computer Network	Computer Network 3		0	3	3
3		Graph Theory	3 0		0	3	2
4		Formal Language and Automata Theory	3		0	3	3
		Elective – I Artificial Intelligence and Machine Learning		0	0	3	
5							3
		Fundamentals of Cloud Computing	<u> </u>				
		Elective – II Natural Language Processing and Its Application Cloud Storage		0	0	3	
							3
6							ာ
		Data Warehousing & Data Analytics					
7		Web Technology Lab	0	0	3	3	2
8		Mobile Applications using Android/IOS Lab	0	0	3	3	2
		Elective Course – I Lab	0 0		3	3	
9		Artificial Intelligence and Machine Learning Lab					2
		Fundamentals of Cloud Computing Lab					
10		Project - I	0	0	3	3	2
	Semester III Total						26

	SEMESTER IV							
S.No.	Course Code	Course Code Course Title				Н	C	
		Elective Course – III						
1		Pattern Recognition		0	0	3	3	
1	Public Blockchain Cyber Security and Cryptography		3				3	
2		HSS-VI (Basics of Organizational Behaviours)	3	0	0	3	3	
3		Compiler Design		0	0	3	3	
		Elective Course – III Lab Pattern Recognition Lab		0	3	3		
4							2	
4		Public Blockchain Lab			3		2	
		Cyber Security and Cryptography Lab						
5		Seminar		2	0	2	2	
		Project – II	0	0	6	6	4	
	Semester IV Total 9 0 9 20 17							

2nd Year Total: 43

CREDIT DISTRIBUTION (SEMESTER-WISE)

SEM I	SEM II	SEM III	SEM IV	TOTAL
25	23	26	17	91

CREDIT DISTRIBUTION (YEAR-WISE)

YEAR I	YEAR II	YEAR III	YEAR IV
40	40	40	120