

ADAMAS UNIVERSITY

**SCHOOL OF ENGINEERING
AND
TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE
AND
ENGINEERING**

Course Structure & Syllabus of

Master of Computer Application (MCA)

(W.e.f AY 2020 – 21)

SoET 2.0

(Engineering+)

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
PG PROGRAM: Master of Computer Application (MCA)
SEMESTER I

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	CSE21901	Computer Programming with Python	3	0	0	3	3
2	Theory	MTH21201	Numerical & Statistical Methods	3	0	0	3	3
3	Theory	CSE21902	Computer Organization & Architecture	3	0	0	3	3
4	Theory	CSE21903	Software Engineering	3	0	0	3	3
5	Theory	ENG21112	HSSM– I (English Communication)	3	0	0	3	2
6	Theory	CSE21904	Data Structures with Python	3	0	0	3	3
7	Practical	CSE22905	Computer Programming with Python Lab.	0	0	3	3	2
8	Practical	MTH22201	Numerical & Statistical Methods Lab	0	0	3	3	2
9	Practical	CSE22906	Computer Organization & Architecture Lab	0	0	3	3	2
10	Practical	CSE22907	Data Structures with Python Lab	0	0	3	3	2
Total				18	0	12	30	25

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SEMESTER II

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	CSE21908	Mobile Applications using Android/IOS	3	0	0	3	3
2	Theory	CSE21909	Object Oriented Programming with Java	3	0	0	3	3
3	Theory	CSE21910	Operating System	3	0	0	3	3
4	Theory	CSE21911	Database Management System	3	0	0	3	3
5	Theory	MTH21519	Discrete Mathematics	3	0	0	3	3
6	Practical	CSE22912	Mobile Applications using Android/IOS Lab	0	0	3	3	2
7	Practical	CSE22913	Object Oriented Programming with Java Lab	0	0	3	3	2
8	Practical	CSE22914	Operating System Lab	0	0	3	3	2
9	Practical	CSE22915	Database Management System Lab	0	0	3	3	2
Total				15	0	12	27	23

Total Credits (First Year): 48

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SEMESTER III

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	ECS52141	Web Technology	3	0	0	3	3
2	Theory	EEC52101	Data Communication & Computer Network	3	0	0	3	3
3	Theory	ECS52143	Cyber Security	3	0	0	3	3
4	Theory	HEN42111	HSS –III (English Communication)	3	0	0	3	2
5	Theory		Elective Course – I	3	0	0	3	3
6	Theory		Elective Course – II	3	0	0	3	3
7	Practical	ECS52241	Web Technology Lab	0	0	3	3	2
8	Practical	ECS52243	Cyber Security Lab	0	0	3	3	2
9	Practical		Elective Course – I Lab	0	0	3	3	2
10	Project	ECS52441	Project -I	0	0	3	3	2
Total				18	0	12	30	25

From a list of departmental electives:

Elective Course – I

1. Artificial Intelligence and Machine Learning (ECS52145)
2. Fundamentals of Cloud Computing (ECS52153)

Elective Course – II

1. Natural Language Processing and Its Application (ECS52147)
2. Cloud Storage (ECS52155)
- 3. Data Warehousing & Data Analytics (ECS51150)**

Elective Course – I Lab

1. Artificial Intelligence and Machine Learning Lab using Tensor flow (ECS52245)
2. Fundamentals of Cloud Computing Lab (ECS52253)

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SEMESTER IV

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory		Elective Course – III	3	0	0	3	3
2	Theory	HPS44101	HSS-VI (Basics of Organizational Behaviors)	3	0	0	3	3
3	Theory	MBA52180	Project Management	3	0	0	3	3
4	Practical		Elective Course – III Lab	0	0	3	3	2
5	Seminar	ECS52342	Seminar	0	2	0	2	2
6	Project	ECS52442	Project -II	0	0	6	6	4
Total				9	2	9	20	17

From a list of departmental electives:

Elective Course – III

1. **Game Design (ECS52157)**
2. **Public Blockchain- Ethereum (ECS52142)**

Elective Course – III Lab

1. **Game Design Lab using CONSTRUCT (ECS52257)**
3. **Public Blockchain- Ethereum Lab (ECS52242)**

Total Credits (Second Year): 42

Total Credits (over two years): 48 + 42 = 90