



**Course Name: Master of Computer Application with Specialization in Artificial Intelligence (AI) & Machine Learning (ML)**

**Course Structure**

<b>ADAMAS UNIVERSITY</b> <b>SCHOOL OF ENGINEERING &amp; TECHNOLOGY</b> <b>PG PROGRAM: Master of Computer Application (MCA)</b> <b>with Specialization in Artificial Intelligence and Machine Learning</b> <b>SEMESTER I</b>								
Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory		Computer Programming with Python	3	0	0	3	3
2	Theory		Numerical and Statistical Methods	3	0	0	3	3
3	Theory		Computer Organization & Architecture	3	0	0	3	3
4	Theory		Software Engineering	3	0	0	3	3
5	Theory		HSS– I (English Communication)	3	0	0	3	2
6	Theory		Mobile Applications using Android/IOS	3	0	0	3	3
7	Practical		Computer Programming with Python Lab.	0	0	3	3	2
8	Practical		Numerical and Statistical Methods Lab.	0	0	3	3	2
9	Practical		Computer Organization & Architecture Lab.	0	0	3	3	2
10	Practical		Mobile Applications using Android/IOS Lab	0	0	3	3	2
<b>Total</b>				<b>15</b>	<b>0</b>	<b>12</b>	<b>27</b>	<b>25</b>

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Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory		Data Structures with Python	3	0	0	3	3
2	Theory		Object Oriented Programming with Java	3	0	0	3	3
3	Theory		Operating System	3	0	0	3	3
4	Theory		Database Management System	3	0	0	3	3
5	Theory		Data Warehousing & Data Analytics	3	0	0	3	3
6	Practical		Data Structures with Python Lab	0	0	3	3	2
7	Practical		Database Management System Lab	0	0	3	3	2
8	Practical		Object Oriented Programming with Java Lab	0	0	3	3	2
9	Practical		Operating System Lab	0	0	3	3	2
<b>Total</b>				<b>15</b>	<b>0</b>	<b>12</b>	<b>27</b>	<b>23</b>

**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		Web Technology	3	0	0	3	3
2	Theory		Data Communication & Computer Network	3	0	0	3	3
3	Theory		Cyber Security	3	0	0	3	3
4	Theory		Artificial Intelligence and Machine Learning (Specialized Course – I)	3	0	0	3	3
5	Theory		Natural Language Processing and Its Application (Specialized Course – II)	3	0	0	3	3
6	Practical		Cyber Security Lab	0	0	3	3	2
7	Practical		Web Technology Lab	0	0	3	3	2
8	Practical		Artificial Intelligence and Machine Learning Lab using Tensorflow (Specialized Lab Course – I)	0	0	3	3	2
9			Project - I	0	0	0	0	2
<b>Total</b>				<b>15</b>	<b>0</b>	<b>9</b>	<b>25</b>	<b>23</b>

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**SEMESTER IV**

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory		Artificial Neural Network and Deep Learning (Specialized Course – III)	3	0	0	3	3
2	Theory		Industrial Application of Machine Learning (Specialized Course – IV)	3	0	0	3	3
3	Practical		Artificial Neural Network and Deep Learning Lab using Tensorflow (Specialized Lab Course – II)	0	0	3	3	2
4	Seminar		Seminar	0	2	0	2	2
5	Project		Project-II	-	-	-	-	4
<b>Total</b>				<b>6</b>	<b>2</b>	<b>3</b>	<b>12</b>	<b>14</b>

**Total Credits (Second Year): 37**

**Total Credits (over two years): 48+37 = 85**