

**School of Computational Intelligence**

**MCA (Data Analytics)**

**Semester I**

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCDA 1611	Computer Organization	3	0	0	3	3
2.	MCDA 1612	Mathematical Foundations of Computer Science	3	0	0	3	3
3.	MCDA 1613	Problem Solving and Programming	3	0	2	5	4
4.	MCDA 1614	Statistics and Queuing Theory	3	0	0	3	3
5.	MCDA 1615	Managerial Economics	3	0	0	3	3
6.	MCDA 2611	Computer Game Development and Animation	0	1	2	3	2
7.	MCDA 2612	R Programming Lab	0	1	2	3	2
		<b>TOTAL</b>	<b>15</b>	<b>2</b>	<b>6</b>	<b>23</b>	<b>20</b>

**Semester II**

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCDA 1621	Database Systems	3	0	2	5	4
2.	MCDA 1622	Data Structures	3	0	2	5	4
3.	MCDA 1623	Web Technologies	3	0	2	5	4
4.	MCDA 1624	Object Oriented Programming	3	0	2	5	4
5.	MCDA 1625	Management Theory and Practice	3	0	0	3	3
		<b>TOTAL</b>	<b>15</b>	<b>0</b>	<b>8</b>	<b>23</b>	<b>19</b>

### Semester III

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCDA 1631	Advanced Databases	3	0	2	5	4
2.	MCDA 1632	Advanced Data Structures	2	0	0	2	2
3.	MCDA 1633	Software Engineering Principles	3	0	2	5	4
4.	MCDA 1634	Operating System Concepts	3	0	2	5	4
5.	MCDA 1635	Computer Communications and Network	3	0	2	5	4
6.	MCDA 1636	Introduction to Data Science	3	0	2	5	4
		<b>TOTAL</b>	<b>17</b>	<b>0</b>	<b>10</b>	<b>27</b>	<b>22</b>

### Semester IV

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCDA 1641	Mobile Applications Development	2	0	2	4	3
2.	MCDA 1642	Software Testing	3	0	2	5	4
3.	MCDA 1643	Algorithm Analysis and Design	3	0	0	3	3
4.	MCDA 1644	Principles of Data Warehousing and Data Mining	3	0	0	3	3
5.	MCDA 1645	Python Programming	2	0	2	4	3
6.	MCDA 2641	Knowledge Engineering Lab	0	0	2	2	1
7.	PEDA 164#	PSE I	2	0	2	4	3
8.	PEDA 164#	PSE II	2	0	2	4	3
		<b>TOTAL</b>	<b>17</b>	<b>0</b>	<b>12</b>	<b>29</b>	<b>23</b>

Program Specific Electives (**PSE**) for Semester IV:

<b>Sl. No</b>	<b>Course Code</b>	<b>Course Title</b>
1.	PEDA 1641	Introduction to AI
2.	PEDA 1642	Web Data Mining
3.	PEDA 1643	Web Analytics
4.	PEDA 1644	Computational Data Analytics

**Semester V**

<b>Sl. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Contact Hrs / Wk</b>	<b>Credits</b>
1.	MCDA 1651	Cryptography and Network Security	3	0	2	5	4
2.	MCDA 1652	Internet of Things	3	0	2	5	4
3.	MCDA 1653	Machine Learning	3	0	2	5	4
4.	MCDA 6651	Seminar & Comprehensive Viva-voce					3
5.	PEDA 165#	PSE IV	2	0	2	4	3
6.	PEDA 165#	PSE V	2	0	2	4	3
7.	PEDA 165#	PSE VI	2	0	2	4	3
		<b>TOTAL</b>	<b>15</b>	<b>0</b>	<b>12</b>	<b>27</b>	<b>24</b>

Program Specific Electives (**PSE**) for Semester IV:

<b>Sl. No</b>	<b>Course Code</b>	<b>Course Title</b>
1.	PEDA 1651	Applied Predictive Analytics
2.	PEDA 1652	Analysing, Visualising and Applying Data Science with Python
3.	PEDA 1653	Distributed Computing System
4.	PEDA 1654	Big Data Technologies
5.	PEDA 1655	No-SQL Databases
6.	PEDA 1656	Social Media Analytics

### Semester VI

<b>Sl. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Contact Hrs / Wk</b>	<b>Credits</b>
1.	MCDA 5661	Dissertation/Internship					12
		<b>TOTAL</b>					<b>22</b>

### Semester-wise Credit Load

<b>Semester</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
I	15	2	6	20
II	15	0	8	19
III	17	0	10	22
IV	17	0	12	23
V	15	0	12	24
VI				12
<b>Total</b>	<b>78</b>	<b>2</b>	<b>48</b>	<b>120</b>