

**School of Computational Intelligence**

**MCA (Computer Network)**

**Semester I**

<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.	MCCN 1611	Computer Organization	3	0	0	3	3
2.	MCCN 1612	Mathematical Foundations of Computer Science	3	0	0	3	3
3.	MCCN 1613	Problem Solving and Programming	3	0	2	5	4
4.	MCCN 1614	Statistics and Queuing Theory	3	0	0	3	3
5.	MCCN 1615	Managerial Economics	3	0	0	3	3
6.	MCCN 2611	Computer Game Development and Animation	0	1	2	3	2
7.	MCCN 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**

<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.	MCCN 1621	Database Systems	3	0	2	5	4
2.	MCCN 1622	Data Structures	3	0	2	5	4
3.	MCCN 1623	Web Technologies	3	0	2	5	4
4.	MCCN 1624	Object Oriented Programming	3	0	2	5	4
5.	MCCN 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.	MCCN 1631	Advanced Databases	3	0	2	5	4
2.	MCCN 1632	Advanced Data Structures	2	0	0	2	2
3.	MCCN 1633	Software Engineering Principles	3	0	2	5	4
4.	MCCN 1634	Operating System Concepts	3	0	2	5	4
5.	MCCN 1635	Computer Communications and Network	3	0	2	5	4
6.	MCCN 1636	Artificial Intelligence	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.	MCCN 1641	Mobile Applications Development	2	0	2	4	3
2.	MCCN 1642	Software Testing	3	0	2	5	4
3.	MCCN 1643	Algorithm Analysis and Design	3	0	0	3	3
4.	MCCN 1644	Principles of Data Warehousing and Data Mining	3	0	0	3	3
5.	MCCN 1645	Python Programming	2	0	2	4	3
6.	MCCN 2641	Knowledge Engineering Lab	0	0	2	2	1
7.	PECN 164#	PSE I	2	0	2	4	3
8.	PECN 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.	PECN 1641	Computer Networking Infrastructure
2.	PECN 1642	Programming for Networking
3.	PECN 1643	Internetworking Technologies
4.	PECN 1644	Complex Network Analysis

**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.	MCCN 1651	Cryptography and Network Security	3	0	2	5	4
2.	MCCN 1652	Internet of Things	3	0	2	5	4
3.	MCCN 1653	Machine Learning	3	0	2	5	4
4.	MCCN 6651	Seminar & Comprehensive Viva-voce					3
5.	PECN 165#	PSE IV	2	0	2	4	3
6.	PECN 165#	PSE V	2	0	2	4	3
7.	PECN 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.	PECN 1651	System Administration
2.	PECN 1652	Network Optimization
3.	PECN 1653	Distributed Computing System
4.	PECN 1654	Parallel Processing
5.	PECN 1655	No-SQL Databases
6.	PECN 1656	Management Information Systems

### 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.	MCCN 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>