

## Bachelor of Computer Applications with Industry Oriented Specialization in Computer Networks and Cyber Security

### Revised Scheme from 2023

#### Semester I

S No.	Name of the Course	L	T	P	S	C	H	Remarks
1	Open Elective-I	3	0	0	0	3	3	
2	Discrete Mathematics	3	0	0	0	3	3	
3	Computer System	3	0	0	0	3	3	
4	Programming for I	3	0	1	1	5	8	
5	Co-curricular Elec	2	0	0	0	2	2	
6	Vocational Elective	3	0	1	0	4	5	
<b>Total Credits (BC)</b>		<b>17</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>20</b>	<b>24</b>	

### Proposed Scheme from 2023

#### Semester II

SN	Name of the Course	L	T	P	S	C	H	Remarks
1	Open Elective-II	3	0	0	0	3	3	
2	Probability and Sta	3	0	0	0	3	3	
3	Data Structures	3	0	1	0	4	5	
4	Object Oriented Pr	3	0	1	1	5	8	
5	Database Manager	3	0	1	1	5	8	
<b>Total Credits (BC)</b>		<b>15</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>20</b>	<b>27</b>	

#### Open Elective-II for II sem

SN	Name of the Course	L	T	P	S	C	H	School
1	Environmental Lit	3	0	0	0	3	3	SOLE
2	Linear Algebra	3	0	0	0	3	3	SBS
3	Understanding Ind	3	0	0	0	3	3	SOLE
4	Report Writing	3	0	0	0	3	3	SOLE
5	Environmental Stu	3	0	0	0	3	3	SBS
6	Introduction to Jap	3	0	0	0	3	3	SOLE

### Proposed Scheme from 2023

#### Semester III

SN	Name of the Course	L	T	P	S	C	H	Remarks
1	Open Elective-III	3	0	0	0	3	3	
2	Operating Systems	3	0	1	0	4	5	
3	Design and Analysis	3	0	1	0	4	5	
4	Java Programming	3	0	1	1	5	8	
5	Elective-I	3	0	0	0	3	3	
<b>Total Credits (BC)</b>		<b>15</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>19</b>	<b>24</b>	

**Proposed Scheme from 2023**

**Semester IV**

SI No	Name of the Course	L	T	P	S	C	H	Remarks
1	Machine Learning	3	0	1	1	5	8	
2	Open Elective-IV	3	0	0	0	3	3	
3	Computer Network	3	0	0	0	3	3	
4	Advanced Web Tec	3	0	1	1	5	8	
5	Cryptography	3	0	1	0	4	5	NCSC Specialization
<b>Total Credits (BC)</b>		<b>15</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>20</b>	<b>27</b>	

**Proposed Scheme from 2023**

**Semester V**

SN	Name of the Course	L	T	P	S	C	H	Remarks
1	Software Engineer	3	0	1	0	4	5	Students will do project in
2	Open Elective-V	3	0	0	0	3	3	
3	Campus to Corpor	1	0	1	0	2	3	
4	Mobile Application	3	0	1	1	5	8	
5	Project	0	0	0	0	4	0	
6	Internship	0	0	0	0	4	0	
7	Network Security	3	0	1	0	4	5	NCSC Specialization
<b>Total Credits (BC)</b>		<b>13</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>26</b>	<b>24</b>	

**Proposed Scheme from 2023**

**Semester VI**

SI No	Name of the Course	L	T	P	S	C	H	Remarks
1	Capstone Project	0	0	0	0	15		

	<b>Total Credits (BC</b>	0	0	0	0	15	0	
	<b>Credits</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>VI</b>	<b>ToTal</b>
	BCA Specialisation	20	20	19	20	26	15	120

**Proposed Scheme from 2023**

**List of Electives-I for Semester- III**

SN	Name of the Course	L	T	P	S	C	H	Remarks
1	Introduction to Data	3	0	0	0	3	3	
2	Introduction to Co	3	0	0	0	3	3	

**List of Electives-II for Semester- IV**

SN	Name of the Course	L	T	P	S	C	H	Remarks
1	Cryptography	3	0	1	0	4	5	
2	Computer Graphic	3	0	1	0	4	5	

**List of Electives-III for Semester- V**

SN	Name of the Course	L	T	P	S	C	H	Remarks
1	Data Mining and V	3	0	1	0	4	5	
2	BigData	3	0	1	0	4	5	

**Specializations Core-I (IV sem)**

SI No	Name of the Elect	L	T	P	S	C	H	Remarks
1	Cryptography	3	0	1	0	4	5	CNCS Specialization

**Specializations Core-II (V Sem)**

SI No	Name of the Elect	L	T	P	S	C	H	Remarks
1	Network Security	3	0	1	0	4	5	CNCS Specialization

**Vocational category for the programmes which follow NEP 2020**

SN	Course Name	L	T	P	S	C	H	Remarks
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1	Introduction to We	3	0	1	0	4	5	Semester 1 and 2
2	Introductory Comp	3	0	1	0	4	5	
3	Office Automation	3	0	1	0	4	5	Semester 3 and 4
4	Introduction to Sys	3	0	1	0	4	5	
<b>Open Elective Basket</b>								
SN	Course Name	L	T	P	S	C	H	Remarks
1	Introduction to Jap	3	0	0	0	3	3	Semester 1 and 2
2	Introduction to Jap	3	0	0	0	3	3	
3	Maths and Puzzles	3	0	0	0	3	3	
4	Environmental Lit	3	0	0	0	3	3	
5	Environmental Stu	3	0	0	0	3	3	
6	Heartfulness (SOL	3	0	0	0	3	3	
7	Introduction to Co	3	0	0	0	3	3	Semester 3 and 4
8	Understanding Ind	2	0	1	0	3	4	
9	Linear Algebra	2	0	1	0	3	4	
10	Report Writing	3	0	0	0	3	3	
11	Principles of Mana	3	0	0	0	3	3	