



**REVA**  
**UNIVERSITY**

Bengaluru, India



**Extract of Revision changes  
made for  
Academic Year 2021-22**

**B. TECH IN COMPUTER SCIENCE AND ENGINEERING**

Scheme of Instructions

(Effective from Academic Year 2020 - 21)

**I SEMESTER (CYCLE-1)**

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/ MC	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20AS0105	Multivariable Calculus and Linear Algebra	HC	3	0	0	3	3
2	B20AS0106	Physics for Computer Science	HC	3	0	0	3	3
3	B20CS0101	Introduction to Data Science	FC	2	0	1	3	4
4	B20CS0102	Programming for Problem Solving	HC	3	0	1	4	5
TOTAL				11	0	2	13	15
Practical /Term Work / Practice Sessions/Online /MOOC								
5	B20ME0104	Entrepreneurship	HC	1	0	0	1	1
6	B20EC0101	IoT Applications	FC	1	0	1	2	3
7	B20ME0101	Computer Aided Engineering Drawing	HC	2	0	1	3	4
TOTAL				4	0	2	6	8
TOTAL SEMESTER CREDITS							19	
TOTAL CUMULATIVE CREDITS							19	
TOTAL CONTACT HOURS							23	

**II SEMESTER (CYCLE-2)**

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE/MC	Credit Pattern & Credit Value	Contact Hours/
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				L	T	P	Credits	Week
1	B20AS0204	Probability and Statistics	HC	4	0	0	4	4
2	B20AS0104	Engineering Chemistry	HC	3	0	0	3	3
3	B20CI0101	Introduction to Python Programming	FC	2	0	1	3	4
4	B20EE0101	Basics of Electrical and Electronics Engineering	HC	3	0	1	4	5
5	B20CE0201	Basics of Civil and Mechanical Engineering	HC	3	0	1	4	5
TOTAL				15	0	3	18	21
Practical /Term Work / Practice Sessions/Online/MOOC								
6	B20AS0109	Biology for Engineers	FC	1	0	0	1	1
7	B20ME0102	Design Thinking	HC	1	0	1	2	3
TOTAL				2	0	1	3	4
TOTAL SEMESTER CREDITS							21	
TOTAL CUMULATIVE CREDITS							40	
TOTAL CONTACT HOURS							25	

### III SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/MC	Credit Pattern & Credit Value	Contact Hours/Week
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				L	T	P	Credits	
1	B20EF0301	Analog and Digital Electronics	HC	3	0	0	3	3
2	B20EF0302	Programming with JAVA	HC	3	0	0	3	3
3	B20EF0303	Data Structures	HC	3	0	0	3	3
4	B20AS0302	Discrete Mathematics and Graph Theory	HC	3	0	0	3	3
5	B20EF0304	Agile software development and DevOps	HC	3	0	0	3	3
TOTAL				15	0	0	15	15
Practical /Term Work / Practice Sessions/Online/MOOC								
6	B20EF0305	Analog and Digital Electronics lab	HC	0	0	1	1	2
7	B20EF0306	Programming with JAVA lab	HC	0	0	1	1	2
8	B20EF0307	Data Structures lab	HC	0	0	1	1	2
9	B20AH0301	Communication Skills	FC	2	0	0	2	2
10	B20LS0301	Indian Constitution and Professional Ethics	FC	2	0	0	2	2
11	B20AHM301/ B20AHM302	Advanced Kannada/ Basics of Kannada	MC	0	0	0	0	2
TOTAL				4	0	3	7	12
TOTAL SEMESTER CREDITS							22	
TOTAL CUMULATIVE CREDITS							62	
TOTAL CONTACT HOURS							27	

#### IV SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/MC	Credit Pattern & Credit Value	Contact Hours/Week
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				L	T	P	Credits	
1	B20EF0401	Design and Analysis of Algorithms	HC	3	0	0	3	3
2	B20EF0402	Unix Operating System	HC	3	0	0	3	3
3	B20EF0403	Database Management System	HC	3	0	0	3	3
4	B20EF0404	Computer Organization and Architecture	HC	3	0	0	3	3
5	B20AS0401	Numerical Methods and Optimization Techniques	HC	3	0	0	3	3
TOTAL				15	0	0	15	15
Practical /Term Work / Practice Sessions/Online/MOOC								
6	B20EF0405	Unix Operating System lab	HC	0	0	1	1	2
7	B20EF0406	Database Management System lab	HC	0	0	1	1	2
8	B20EF0407	Computer Organization and Architecture lab	HC	0	0	1	1	2
10	B20MGM301	Management Science	FC	2	0	0	2	2
11	B20AS0303	Environmental Science	FC	2	0	0	2	2
12	B20AHM401	Universal Human Values	MC	0	0	0	0	2
TOTAL				4	0	3	7	12
TOTAL SEMESTER CREDITS							22	
TOTAL CUMULATIVE CREDITS							84	
TOTAL CONTACT HOURS							27	

### V SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/MC	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	

1	B20EF0501	Web Technologies	HC	3	0	0	3	3
2	B20EF0502	Computer Networks	HC	3	0	0	3	3
3	B20EF0503	Machine Learning	HC	3	0	0	3	3
4	B20EFS511-516	Professional Elective-I	SC	3	0	0	3	3
5	B20EFS517-522	Professional Elective-II	SC	3	0	0	3	3
6	B20XX05XX	Open Elective-I	OE	3	0	0	3	3
TOTAL				18	0	0	18	18
Practical /Term Work / Practice Sessions/Online/MOOC								
7	B20EF0504	Modern Databases	HC	2	0	0	2	2
8	B20EF0505	Web Technologies Lab	HC	0	0	1	1	2
9	B20EF0506	Computer Networks lab	HC	0	0	1	1	2
10	B20EF0507	Machine Learning lab	HC	0	0	1	1	2
11	B20EF0508	Modern Databases lab	HC	0	0	1	1	2
12	B20PA0501	Indian Tradition and Culture	FC	1	0	0	1	1
13	B20EF0509	Skill development-1	HC	0	0	0	2	4
TOTAL				3	0	4	9	15
TOTAL SEMESTER CREDITS							27	
TOTAL CUMULATIVE CREDITS							111	
TOTAL CONTACT HOURS							33	

### VI SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/MC	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	

1	B20EF0601	Theory of Computation	HC	3	0	0	3	3
2	B20EF0602	Big Data and Cloud Computing	HC	3	0	0	3	3
3	B20EFS611-614	Professional Elective-III	SC	3	0	0	3	3
4	B20EFS615-618	Professional Elective-IV	SC	3	0	0	3	3
5	B20XXO6XX	Open Elective-II	OE	3	0	0	3	3
TOTAL				15	0	0	15	15
Practical /Term Work / Practice Sessions/Online/MOOC								
6	B20EF0603	Research Based Mini Project	HC	0	0	2	2	4
7	B20EF0604	Mobile Application Development	HC	1	0	0	1	1
8	B20EF0605	Big Data and Cloud Computing lab	HC	0	0	1	1	2
9	B20EF0606	Mobile Application Development lab	HC	0	0	1	1	2
10	B20EF0607	Technical Documentation	FC	1	0	0	1	1
11	B20EF0608	Skill development-2	HC	0	0	0	2	4
TOTAL				2	0	4	8	14
TOTAL SEMESTER CREDITS							23	
TOTAL CUMULATIVE CREDITS							134	
TOTAL CONTACT HOURS							29	

### VII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/MC	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	

1	B20EFS711-713	Professional Elective-V	SC	3	0	0	3	3
2	B20XXO7XX	Open Elective-III	OE	3	0	0	3	3
TOTAL				6	0	0	6	6
Practical /Term Work / Practice Sessions/Online/MOOC								
3	B20EF0701	Capstone-Project Phase-1	HC	0	0	1	1	2
4	B20EF0702	Internship/Global Certification	HC	0	0	3	3	6
TOTAL				0	0	4	4	8
TOTAL SEMESTER CREDITS							10	
TOTAL CUMULATIVE CREDITS							144	
TOTAL CONTACT HOURS							14	

### VIII Semester

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/MC	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	



1	B20EF0801	Capstone- ProjectPhase-2	HC	0	0	7	7	14
2	B20EF0802	Internship/Global Certification	HC	0	0	3	3	6
3	B20EF0803	MOOC / Competitive Exam	HC	0	0	3	3	6
TOTAL				0	0	13	13	26
Practical /Term Work / Practice Sessions/Online/MOOC								
4	B20XX08XX	Open Elective-IV	OE	3	0	0	3	3
TOTAL				3	0	0	3	3
TOTAL SEMESTER CREDITS							16	
TOTAL CUMULATIVE CREDITS							160	
TOTAL CONTACT HOURS							29	

**School of Computing and Information Technology**  
**Scheme of Instructions (2021 – 2025 Batch)**  
**B. Tech CSE (AI & ML)**


**I SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20AS0105	Multivariable Calculus and Linear Algebra	HC	3	0	0	3	3
2	B20EE0101	Basics of Electrical and Electronics Engineering	HC	3	0	1	4	5
3	B20CI0101	Introduction to Python Programming	FC	2	0	1	3	4
4	B20AS0104	Engineering Chemistry	HC	3	0	0	3	3
<b>TOTAL</b>				<b>11</b>	<b>0</b>	<b>2</b>	<b>13</b>	<b>15</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
5	B20ME0102	Design Thinking	FC	1	0	1	2	3
6	B20AS0109	Biology for Engineers	FC	1	0	0	1	1
7	B20ME0101	Computer Aided Engineering Drawing	HC	2	0	1	3	4
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>19</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>19</b>	
<b>TOTAL CONTACT HOURS</b>							<b>23</b>	

**II SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20AS0204	Probability and Statistics	HC	4	0	0	4	4
2	B20AS0106	Physics for Computer Science	HC	3	0	0	3	3
3	B20CS0101	Introduction to Data Science	FC	2	0	1	3	4
4	B20CE0201	Basics of Civil and mechanical Engineering	HC	3	0	1	4	5
5	B20CS0102	Programming for Problem Solving	HC	3	0	1	4	5
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>21</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
6	B20EC0101	IoT and Applications	FC	1	0	1	2	3
7	B20ME0104	Entrepreneurship	FC	1	0	0	1	1
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>21</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>40</b>	
<b>TOTAL CONTACT HOURS</b>							<b>25</b>	



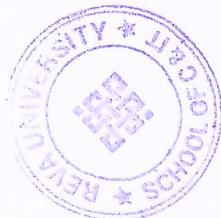
  
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### III SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC / OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20CI0301	Analog and Digital Electronics	HC	3	0	0	3	5
2	B20CI0302	Programming with JAVA	HC	3	0	0	3	5
3	B20CI0303	Data Structures	HC	3	0	0	3	5
4	B20AS0302	Discrete Mathematics and Graph Theory	HC	3	0	0	3	3
5	B20CI0304	Agile Software Development and DevOps	HC	3	0	0	3	3
6	B20CI0305	Analog and Digital Electronics Lab	HC	0	0	1	1	2
7	B20CI0306	Programming with JAVA Lab	HC	0	0	1	1	2
8	B20CI0307	Data Structures Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>21</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
6	B20MGM301	Management Science	FC	2	0	0	2	2
7	B20AS0301	Environmental Science	FC	2	0	0	2	2
8	B20AHM301 OR B20AHM 302	Advanced Kannada OR Basics of Kannada	MC	0	0	0	0	0
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>22</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>62</b>	
<b>TOTAL CONTACT HOURS</b>							<b>25</b>	

### IV SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC / OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20CI0401	Design and Analysis of Algorithms	HC	3	0	0	3	3
2	B20CI0402	Operating System	HC	3	0	0	3	3
3	B20CI0403	Database Management System	HC	3	0	0	3	3
4	B20EJ0401	Computer Organization and Architecture	HC	3	0	0	3	3
5	B20EA0401	Artificial Intelligence	HC	3	0	0	3	3
6	B20AS0401	Numerical Methods and Optimization Techniques	HC	3	0	0	3	3
7	B20CI0404	Design and Analysis of Algorithms Lab	HC	0	0	1	1	2
8	B20CI0405	Operating System Lab	HC	0	0	1	1	2



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9	B20CI0406	Database Management System Lab	HC	0	0	1	1	2
TOTAL				18	0	3	21	24
Practical /Term Work / Practice Sessions /MOOCs								
10	B20AH0301	Communication Skills	FC	2	0	0	2	2
11	B20LS0301	Indian Constitution and Professional Ethics	FC	2	0	0	2	2
12	B20AHM401	Universal human values	MC	0	0	0	0	0
TOTAL				4	0	0	4	4
<b>TOTAL SEMESTER CREDITS</b>								<b>25</b>
<b>TOTAL CUMULATIVE CREDITS</b>								<b>87</b>
<b>TOTAL CONTACT HOURS</b>								<b>28</b>

### V Semester

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	
1	B20EA0501	Computer Vision	HC	3	0	0	3	3
2	B20CI0502	Machine learning	HC	3	0	0	3	3
3	B20CI0501	Computer Networks	HC	3	0	0	3	3
4	B20EA0502	Virtualization and Cloud Computing	HC	3	0	0	3	3
5	B20EXS5(01-04)	Professional Elective-I	SC	3	0	0	3	3
6	B20XXO5XX	Open Elective-I	HC	3	0	0	3	3
7	B20EA0504	Computer Vision Lab	HC	0	0	1	1	2
8	B20CI0505	Machine learning Lab	HC	0	0	1	1	2
9	B20CI0506	Computer Networks Lab	HC	0	0	1	1	2
TOTAL				18	0	3	21	24
Practical /Term Work / Practice Sessions /MOOCs								
10	B20CI0503	Technical Documentation	FC	1	0	0	1	1
11	B20EA0503	AI & Humanity	FC	2	0	0	2	2
TOTAL				3	0	0	3	3
<b>TOTAL SEMESTER CREDITS</b>								<b>24</b>
<b>TOTAL CUMULATIVE CREDITS</b>								<b>111</b>
<b>TOTAL CONTACT HOURS</b>								<b>27</b>



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## VI SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC / OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20EA0601	Big Data Analytics	HC	3	0	0	3	3
2	B20EA0603	Neural Networks and Deep learning	HC	3	0	0	3	3
3	B20EXS6(01-04)	Professional Elective-II	SC	3	0	0	3	3
4	B20EXS6(05-08)	Professional Elective-III	SC	3	0	0	3	3
5	B20EXS6(09-12)	Professional Elective-IV	SC	3	0	0	3	3
6	B20XXO6XX	Open Elective-II	HC	3	0	0	3	3
7	B20EA0604	Big Data Analytics Lab	HC	0	0	1	1	2
8	B20EA0605	Neural Networks and Deep learning Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>22</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
10	B20CI0601	Research Based Mini Project	HC	0	0	2	2	4
11	B20PA0501	Indian Tradition and Culture	FC	1	0	0	1	1
12	B20EA0602	Natural Language Processing	HC	1	0	1	2	3
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>25</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>136</b>	
<b>TOTAL CONTACT HOURS</b>							<b>30</b>	

## VII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC / OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20EXS7 (01-04)	Professional Elective-V	SC	3	0	0	3	3
2	B20XXO7XX	Open Elective-III	OE	3	0	0	3	3
<b>TOTAL</b>				<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>6</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
3	B20CI0701	Summer Internship/Global Certification	HC	0	0	3	3	6
4	B20CI0702	Project Phase-I	HC	0	0	4	4	8
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>14</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>13</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>149</b>	
<b>TOTAL CONTACT HOURS</b>							<b>20</b>	

## VIII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC / OE	Credit Pattern & Credit Value	Cont act
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				L	T	P	Credits	Hour s/ Wee k
1	B20CI0801	Capstone-Project Phase-2	HC	0	0	8	8	16
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>16</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
1	B20XX08XX	Open Elective-IV	OE	3	0	0	3	3
<b>TOTAL</b>				<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>11</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>160</b>	
<b>TOTAL CONTACT HOURS</b>							<b>19</b>	



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## Professional Electives in AI ML stream

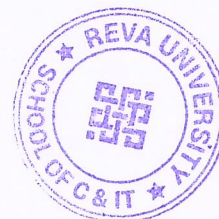
	Code	Course	Code	Course	Code	Course	Code	Course
PE-I/V sem	B20EKS501	Introduction to Robotics and Drones	B20EAS502	Data Visualization techniques	B20EAS503	Decision Support & expert systems	B20EAS504	Fuzzy Logic and Systems
PE-II/VI sem	B20EAS601	Knowledge Representation and Reasoning	B20EJS602	Information Retrieval System	B20EAS603	Modern Databases	B20EAS604	Information Theory and coding
PE-III/VI sem	B20EAS605	Control Systems	B20EAS606	Predictive Analytics using R	B20EAS607	Bioinformatics	B20EAS608	Speech processing
PE-IV/VI sem	B20EAS609	Advanced Topics in Machine Learning	B20EAS610	High Performance Computing	B20EAS611	Business Intelligence	B20EAS612	Video processing
PE-V/VII sem	B20EAS701	Swarm and Bio-inspired Intelligence	B20EJS702	Augmented and Virtual Reality	B20EAS703	Cognitive Science	B20EAS704	Artificial Intelligence in Healthcare

### Open Electives Offered to Other schools

5TH SEM /OE-I			6th SEM /OE-II			7th SEM /OE-III			8th SEM /OE-IV		
Course code	Course Name	Teaching School	Course code	Course Name	Teaching School	Course code	Course Name	Teaching School	Course code	Course Name	Teaching School
B20CIO501	Introduction to AI	CIT	B20CIO601/602	Data Mining/Machine Learning	CIT	B20CIO701	Python for data science	CIT	B20CIO801	IoT Programming	
B20CIO502/503	OOPS with c++/Web technology	CIT	B20CIO603	Neural Networks	CIT	B20CIO702	Deep Learning	CIT	B20CIO802	Reinforcement Learning	

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**School of Computing and Information Technology**  
**Scheme of Instructions (2021 – 2025 Batch)**  
**B. Tech ISE**

**I SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20AS0105	Multivariable Calculus and Linear Algebra	HC	3	0	0	3	3
2	B20EE0101	Basics of Electrical and Electronics Engineering	HC	3	0	1	4	5
3	B20CI0101	Introduction to Python Programming	FC	2	0	1	3	4
4	B20AS0104	Engineering Chemistry	HC	3	0	0	3	3
<b>TOTAL</b>				<b>11</b>	<b>0</b>	<b>2</b>	<b>13</b>	<b>15</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
5	B20ME0102	Design Thinking	FC	1	0	1	2	3
6	B20AS0109	Biology for Engineers	FC	1	0	0	1	1
7	B20ME0101	Computer Aided Engineering Drawing	HC	2	0	1	3	4
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>19</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>19</b>	
<b>TOTAL CONTACT HOURS</b>							<b>23</b>	

**II SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20AS0204	Probability and Statistics	HC	4	0	0	4	4
2	B20AS0106	Physics for Computer Science	HC	3	0	0	3	3
3	B20CS0101	Introduction to Data Science	FC	2	0	1	3	4
4	B20CE0201	Basics of Civil and mechanical Engineering	HC	3	0	1	4	5
5	B20CS0102	Programming for Problem Solving	HC	3	0	1	4	5
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>21</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
6	B20EC0101	IoT and Applications	FC	1	0	1	2	3
7	B20ME0104	Entrepreneurship	FC	1	0	0	1	1
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>21</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>40</b>	
<b>TOTAL CONTACT HOURS</b>							<b>25</b>	

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### III SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20CI0301	Analog and Digital Electronics	HC	3	0	0	3	3
2	B20CI0302	Programming with JAVA	HC	3	0	0	3	3
3	B20CI0303	Data Structures	HC	3	0	0	3	3
4	B20AS0302	Discrete Mathematics and Graph Theory	HC	3	0	0	3	3
5	B20CI0304	Agile Software Development and DevOps	HC	3	0	0	3	3
6	B20CI0305	Analog and Digital Electronics Lab	HC	0	0	1	1	2
7	B20CI0306	Programming with JAVA Lab	HC	0	0	1	1	2
8	B20CI0307	Data Structures Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>21</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
9	B20MGM301	Management Science	FC	2	0	0	2	2
10	B20AS0301	Environmental Science	FC	2	0	0	2	2
11	B20AHM301	Advanced Kannada	MC	0	0	0	0	0
	OR B20AHM302	Basics of Kannada						
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>22</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>62</b>	
<b>TOTAL CONTACT HOURS</b>							<b>25</b>	

### IV SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20CI0401	Design and Analysis of Algorithms	HC	3	0	0	3	3
2	B20CI0402	Operating System	HC	3	0	0	3	3
3	B20CI0403	Database Management System	HC	3	0	0	3	3
4	B20EJ0401	Computer Organization and Architecture	HC	3	0	0	3	3
5	B20AS0401	Numerical Methods and Optimization Techniques	HC	3	0	0	3	3
6	B20EJ0402	Theory of Computation	HC	3	0	0	3	3
7	B20CI0404	Design and Analysis of Algorithms Lab	HC	0	0	1	1	2
8	B20CI0405	Operating System Lab	HC	0	0	1	1	2
9	B20CI0406	Database Management System Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>3</b>	<b>21</b>	<b>24</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
10	B20AH0301	Communication Skills	FC	2	0	0	2	2
11	B20LS0301	Indian Constitution and Professional Ethics	FC	2	0	0	2	2
12	B20AHM401	Universal human values	MC	0	0	0	0	0
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>25</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>87</b>	



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<b>TOTAL CONTACT HOURS</b>	<b>28</b>
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### V SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20EJ0501	Web Technologies and Applications	HC	3	0	0	3	3
2	B20CI0501	Computer Networks	HC	3	0	0	3	3
3	B20CI0502	Machine Learning	HC	3	0	0	3	3
4	B20EQ0501	Information Theory & Coding	HC	3	0	0	3	3
5	B20EXS5(01-05)	Professional Elective-I	SC	3	0	0	3	3
6	B20XXO5XX	Open Elective-I	HC	3	0	0	3	3
7	B20EJ0504	Web Technologies and Applications Lab	HC	0	0	1	1	2
8	B20CI0505	Machine Learning Lab	HC	0	0	1	1	2
9	B20CI0506	Computer Networks Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>3</b>	<b>21</b>	<b>24</b>
<b>Practical /Term Work / Sessions</b>								
10	B20CI0503	Technical Documentation	FC	1	0	0	1	1
11	B20EJ0503	Software Testing	HC	1	0	1	2	3
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>24</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>111</b>	
<b>TOTAL CONTACT HOURS</b>							<b>28</b>	

### VI SEMESTER

Sl. No	Course Code	Title of the Course	HC/F C/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20EJ0601	Information and Network Security	HC	3	0	0	3	3
2	B20EQ0601	Information Retrieval System	HC	3	0	0	3	3
3	B20EXS6(01-06)	Professional Elective-II	SC	3	0	0	3	3
4	B20EXS6(07-09)	Professional Elective-III	SC	3	0	0	3	3
5	B20EXS6(10-12)	Professional Elective-IV	SC	3	0	0	3	3
6	B20XXO6XX	Open Elective-II	HC	3	0	0	3	3
7	B20EJ0603	Information and Network Security Lab	HC	0	0	1	1	2
8	B20EQ0602	Information Retrieval System Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>22</b>
<b>Practical /Term Work / Sessions</b>								
9	B20CI0601	Research Based Mini Project	HC	0	0	2	2	4
10	B20PA0501	Indian Tradition and Culture	FC	1	0	0	1	1
11	B20EQ0603	Modern Database	HC	1	0	1	2	3
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>25</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>136</b>	
<b>TOTAL CONTACT HOURS</b>							<b>30</b>	

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## VII SEMESTER

Sl. No	Course Code	Title of the Course	HC/F C/SC/ OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	
1	B20EXS7 (01-03)	Professional Elective-V	SC	3	0	0	3	3
2	B20XXO7XX	Open Elective-III	OE	3	0	0	3	3
<b>TOTAL</b>				<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>6</b>
<b>Practical /Term Work / Sessions</b>								
3	B20CI0701	Summer Internship/Global Certification	HC	0	0	3	3	6
4	B20CI0702	Project Phase-I	HC	0	0	4	4	8
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>14</b>
<b>TOTAL SEMESTER CREDITS</b>								<b>13</b>
<b>TOTAL CUMULATIVE CREDITS</b>								<b>149</b>
<b>TOTAL CONTACT HOURS</b>								<b>20</b>
<p><b>Note:</b> (1) Internship must be for atleast 2 months to be considered for 6 credits. Internships abroad will also be considered for the credits. (2) Global certification program students must obtain a certificate to attain 85 to 100% marks based on relative performance. If not eligible for certificate, they will have to undergo examination at school level for 80% marks, and marks will be awarded based on examination performance; such a program will be considered as Skill Development Program. (3) Phase-I Project: It may be covered as a crash course before the commencement of 8th semester to pave the way for internship and project work.</p>								

## VIII SEMESTER

Sl. No	Course Code	Title of the Course	HC/F C/SC/ OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	
1	B20CI0801	Capstone-Project Phase-II	HC	0	0	8	8	16
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>16</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
2	B20XXO8XX	Open Elective-IV	OE	3	0	0	3	3
<b>TOTAL</b>				<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>TOTAL SEMESTER CREDITS</b>								<b>11</b>
<b>TOTAL CUMULATIVE CREDITS</b>								<b>160</b>
<b>TOTAL CONTACT HOURS</b>								<b>19</b>

**Professional Electives**

Professional Electives with specialization in ISE Stream						
	Code	Course	Code	Course	Code	Course
PE-I/IV sem	B20EQS501	Digital Communications	B20EJS502	System Software	B20EJS503	Mobile Application Development
	B20EJS504	Human Computer Interaction	B20EQS505	Data Mining		
PE-II/ VI sem	B20EQS601	Virtualization and Cloud Computing	B20EQS602	Advanced DBMS	B20EQS603	Big Data Analytics
	B20EJS604	Block Chain Technology	B20EQ605	Multi Agent Systems	B20EJS606	Neural Networks and Deep learning
PE-III/ VI sem	B20EQS607	Image processing and Computer Vision	B20EQS608	Data Centre Technology	B20EJS609	Compiler Design
PE-IV/ VI sem	B20EQS611	Storage Area Networks	B20EJS610	Natural Language Processing in AI	B20EQS612	Full Stack Development
PE-V/ VII sem	B20EJS701	Multimedia Systems	B20EJS702	Augmented and Virtual Reality	B20EJS703	Soft Computing systems

Open Electives Offered to Other schools											
5TH SEM /OE-I			6th SEM /OE-II			7th SEM /OE-III			8th SEM /OE-IV		
Course code	Course Name	Teaching School	Course code	Course Name	Teaching School	Course code	Course Name	Teaching School	Course code	Course Name	Teaching School
B20CI O501	Introduction to AI	CIT	B20 CIO6 01/60 2	Data Mining/ Machine Learning	CIT	B20CI O701	Python for data science	CIT	B20C IO80 1	IoT Programming	CIT
B20CI O502/5 03	OOPS with C++/ Web technology	CIT	B20 CIO6 03	Neural Networks	CIT	B20CI O702	Deep Learning	CIT	B20C IO80 2	Reinforcement Learning	CIT



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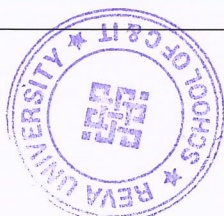
**School of Computing and Information Technology**  
**Scheme of Instructions (2021 – 2025 Batch)**  
**B. Tech CS &SE**

**I SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	
1	B20AS0105	Multivariable Calculus and Linear Algebra	HC	3	0	0	3	3
2	B20EE0101	Basics of Electrical and Electronics Engineering	HC	3	0	1	4	5
3	B20CI0101	Introduction to Python Programming	FC	2	0	1	3	4
4	B20AS0104	Engineering Chemistry	HC	3	0	0	3	3
<b>TOTAL</b>				<b>11</b>	<b>0</b>	<b>2</b>	<b>13</b>	<b>15</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
5	B20ME0102	Design Thinking	FC	1	0	1	2	3
6	B20AS0109	Biology for Engineers	FC	1	0	0	1	1
7	B20ME0101	Computer Aided Engineering Drawing	HC	2	0	1	3	4
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>19</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>19</b>	
<b>TOTAL CONTACT HOURS</b>							<b>23</b>	

**II SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	
1	B20AS0204	Probability and Statistics	HC	4	0	0	4	4
2	B20AS0106	Physics for Computer Science	HC	3	0	0	3	3
3	B20CS0101	Introduction to Data Science	FC	2	0	1	3	4
4	B20CE0201	Basics of Civil and mechanical Engineering	HC	3	0	1	4	5
5	B20CS0102	Programming for Problem Solving	HC	3	0	1	4	5
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>21</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
6	B20EC0101	IoT and Applications	FC	1	0	1	2	3
7	B20ME0104	Entrepreneurship	FC	1	0	0	1	1
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>21</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>40</b>	
<b>TOTAL CONTACT HOURS</b>							<b>25</b>	



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### III SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20CI0301	Analog and Digital Electronics	HC	3	0	0	3	3
2	B20CI0302	Programming with JAVA	HC	3	0	0	3	3
3	B20CI0303	Data Structure	HC	3	0	0	3	3
4	B20AS0302	Discrete Mathematics and Graph Theory	HC	3	0	0	3	3
5	B20EK0301	Computer Organization and Architecture	HC	3	0	0	3	3
6	B20CI0305	Analog and Digital Electronics Lab	HC	0	0	1	1	2
7	B20CI0306	Programming with JAVA Lab	HC	0	0	1	1	2
8	B20CI0307	Data Structure Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>21</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
9	B20MG301	Management Science	FC	2	0	0	2	2
10	B20AS0301	Environmental Science	FC	2	0	0	2	2
11	B20AHM301 OR B20AHM302	Advanced Kannada OR Basics of Kannada	MC	0	0	0	0	0
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>22</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>62</b>	
<b>TOTAL CONTACT HOURS</b>							<b>25</b>	

### IV SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20CI0401	Design and Analysis of Algorithms	HC	3	0	0	3	3
2	B20EK0401	Device Driver Programming	HC	3	0	0	3	3
3	B20CI0412	Operating System	HC	3	0	0	3	3
4	B20CI0403	Database Management System	HC	3	0	0	3	3
5	B20EK0402	Microprocessors and Interfacing	HC	3	0	0	3	3
6	B20AS0401	Numerical Methods and Optimization Techniques	HC	3	0	0	3	3
7	B20CI0404	Design and Analysis of Algorithms Lab	HC	0	0	1	1	2
8	B20CI0405	Unix Operating System Lab	HC	0	0	1	1	2
9	B20CI0406	Database Management System Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>3</b>	<b>21</b>	<b>24</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
10	B20AH0301	Communication Skills	FC	2	0	0	2	2
11	B20LS0301	Indian Constitution and Professional Ethics	FC	2	0	0	2	2
12	B20AHM401	Universal human values	MC	0	0	0	0	0
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>25</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>87</b>	
<b>TOTAL CONTACT HOURS</b>							<b>28</b>	




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## V SEMESTER

Sl. No	Course Code	Title of the Course	HC/F C/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20EJ0501	Web Technologies and Applications	HC	3	0	0	3	3
2	B20CI0501	Computer Networks	HC	3	0	0	3	3
3	B20EK0501	Smart Sensors and Transducers	HC	3	0	0	3	3
4	B20CI0502	Machine Learning	HC	3	0	0	3	3
5	B20EXS5(01-06)	Professional Elective-I	SC	3	0	0	3	3
6	B20XXO5XX	Open Elective-I	HC	3	0	0	3	3
7	B20EJ0504	Web Technologies and Applications Lab	HC	0	0	1	1	2
8	B20CI0505	Machine Learning Lab	HC	0	0	1	1	2
9	B20CI0506	Computer Networks Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>3</b>	<b>21</b>	<b>24</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
10	B20CI0503	Technical Documentation	FC	1	0	0	1	1
11	B20EA0503	AI & Humanity	FC	2	0	0	2	2
<b>TOTAL</b>				<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>24</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>111</b>	
<b>TOTAL CONTACT HOURS</b>							<b>27</b>	

## VI SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/ SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Credits	
1	B20EK0601	IOT and Cloud Programming	HC	3	0	0	3	3
2	B20EA0601	Big Data Analytics	HC	3	0	0	3	3
3	B20EXS6(01-06)	Professional Elective-II	SC	3	0	0	3	3
4	B20EXS6(07-09)	Professional Elective-III	SC	3	0	0	3	3
5	B20EKX6(10-12)	Professional Elective-IV	SC	3	0	0	3	3
6	B20XXO6XX	Open Elective-II	HC	3	0	0	3	3
7	B20EK0602	IOT and Cloud Programming Lab	HC	0	0	1	1	2
8	B20EA0604	Big Data Analytics Lab	HC	0	0	1	1	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>22</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
9	B20CI0601	Research Based Mini Project	HC	0	0	2	2	4
10	B20PA0501	Indian Tradition and Culture	FC	1	0	0	1	1
11	B20EA0602	Natural Language Processing	FC	1	0	1	2	3
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>25</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>136</b>	
<b>TOTAL CONTACT HOURS</b>							<b>30</b>	

  
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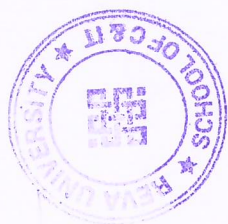



## VII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	
1	B20EKS7(01-03)	Professional Elective-V	SC	3	0	0	3	3
2	B20XXO7(XX)	Open Elective-III	OE	3	0	0	3	3
<b>TOTAL</b>				<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>6</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
3	B20CI0701	Summer Internship/Global Certification	HC	0	0	3	3	6
4	B20CI0702	Project Phase-I	HC	0	0	4	4	8
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>14</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>13</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>149</b>	
<b>TOTAL CONTACT HOURS</b>							<b>20</b>	

## VIII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/ OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Credits	
1	B20CI0801	Capstone-Project Phase-II	HC	0	0	8	8	16
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>16</b>
<b>Practical /Term Work / Practice Sessions /MOOCs</b>								
2	B20XXO8XX	Open Elective-IV	OE	3	0	0	3	3
<b>TOTAL</b>				<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>11</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>160</b>	
<b>TOTAL CONTACT HOURS</b>							<b>19</b>	



  
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### Professional Electives in CSSE Stream

	Code	Course	Code	Course	Code	Course
PE-I/ V sem	B20EKS501	Introduction to Robotics and Drones	B20EKS503	Cryptography and Network Security	B20EKS505	Storage Area Networks
	B20EAS504	Fuzzy Logic and Systems	B20EKS502	Predictive Analytics using PYTHON	B20EKS506	Digital System Design with Verilog
PE-II/ VI sem	B20EJS606	Neural Networks and Deep learning	B20EJS604	Block Chain Technology	B20EKS605	System-on-Chip Design
	B20EKS601	Text and Web Mining	B20EKS602	High Performance Computing	B20EKS603	Distributed Computing and Parallel Systems
PE-III/ VI sem	B20EJS607	Computer Vision and Applications	B20EJS608	Advanced Topics in Wireless Networks	B20EJS609	Compiler Design
PE-IV/ VI sem	B20EKS610	Advanced Topics in Machine Learning	B20EKS611	Advanced Computer Architecture	B20EKS612	Embedded Systems
PE-V/ VII sem	B20EAS701	Swarm and Bio-inspired Intelligence	B20EKS703	System Modelling and Simulation	B20EKS702	Augmented and Virtual Reality

#### Open Electives Offered to Other schools

5TH SEM /OE-I			6th SEM /OE-II			7th SEM /OE-III			8th SEM /OE-IV		
Course code	Course Name	Teaching School	Course code	Course Name	Teaching School	Course code	Course Name	Teaching School	Course code	Course Name	Teaching School
B20CIO501	Introduction to AI	CIT	B20CIO601/602	Data Mining/Machine Learning	CIT	B20CIO701	Python for data science	CIT	B20CIO801	IoT Programming	CIT
B20CIO502/503	OOPS with c++/Web technology	CIT	B20CIO603	Neural Networks	CIT	B20CIO702	Deep Learning	CIT	B20CIO802	Reinforcement Learning	CIT



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**B. Tech in Electronics and Communication Engineering  
Scheme of Instructions 2020-24 Batch**

**I SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20AS0102	Calculus and Differential Equations	FC	3	0	0	3	3
2	B20AS0104	Engineering Chemistry	FC	3	0	0	3	3
3	B20CI0101	Introduction to Python Programming	HC	2	0	1	3	4
4	B20EN0101	Principles of Electrical and Electronics	HC	3	0	1	4	5
5	B20ME0103	Elements of Mechanical and Civil Engineering	HC	3	0	0	3	3
<b>TOTAL</b>				<b>14</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>18</b>
<b>Practical /Term Work / Sessional</b>								
6	B20AS0109	Biology for Engineers	FC	1	0	0	1	1
7	B20ME0102	Design Thinking	FC	1	0	1	2	3
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>19</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>19</b>	
<b>TOTAL CONTACT HOURS</b>							<b>22</b>	

**II SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20AS0203	Integral Transforms	FC	4	0	0	4	4
2	B20AS0202	Engineering Physics	FC	3	0	1	4	5
3	B20CS0101	Introduction to Data Science	HC	2	0	1	3	4
4	B20EN0201	Analog Electronics	HC	3	0	1	4	5
<b>TOTAL</b>				<b>12</b>	<b>0</b>	<b>3</b>	<b>15</b>	<b>18</b>
<b>Practical /Term Work / Sessional</b>								
5	B20EC0101	IoT and Applications	HC	1	0	1	2	3
6	B20ME0104	Entrepreneurship	HC	1	0	0	1	1
7	B20ME0101	Computer Aided Engineering Drawing	HC	2	0	1	3	4
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>21</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>40</b>	
<b>TOTAL CONTACT HOURS</b>							<b>26</b>	

**III Semester**

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE/MC	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20AS0305	Linear Algebra and Partial Differential Equations	FC	3	0	0	3	3
2	B20EN0301	Linear Integrated Circuits	HC	3	0	1	4	5
3	B20EN0302	Digital Electronics	HC	3	0	1	4	5
4	B20EN0303	Network Theory	HC	3	0	0	3	3
5	B20EN0304	Problem Solving Using C Programming	HC	2	0	1	3	4
<b>TOTAL</b>				<b>14</b>	<b>0</b>	<b>3</b>	<b>17</b>	<b>20</b>
<b>Practical /Term Work / Sessional</b>								
6	B20EN0305	Course Based Project on Linear Integrated Circuits	HC	0	0	1	1	2
7	B20AS0303	Environmental Science	FC	2	0	0	2	2
8	B20MG0301	Management Science	FC	2	0	0	2	2
9	<b>B20AHM301</b> <b>OR</b> <b>B20AHM302</b>	<b>Advanced Kannada</b> <b>OR</b> <b>Basics of Kannada</b>	MC	0	0	0	0	1
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>7</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>22</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>62</b>	
<b>TOTAL CONTACT HOURS</b>							<b>26</b>	

#### IV Semester

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20AS0402	Probability and Random Process	FC	3	0	0	3	3
2	B20EN0401	Analog Communication	HC	3	0	1	4	5
3	B20EN0402	Electromagnetics and Transmission lines	HC	3	1	0	4	5
4	<b>B20EN0403</b>	<b>Microcontroller and Applications</b>	HC	3	0	1	4	5
5	B20EN0404	Object Oriented Programming and Data Structures using C++	HC	2	0	1	3	4
<b>TOTAL</b>				<b>14</b>	<b>1</b>	<b>3</b>	<b>18</b>	<b>22</b>
<b>Practical /Term Work / Sessional</b>								
6	B20EN0405	Course Based project on Microcontroller and Applications	HC	0	0	1	1	2
7	B20AH0301	Communication Skills	FC	2	0	0	2	2
8	<b>B20LS0301</b>	Indian Constitution and Professional Ethics	FC	2	0	0	2	2
9	B20AHM401	Universal Human Values	MC	0	0	0	0	1
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>7</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>23</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>85</b>	
<b>TOTAL CONTACT HOURS</b>							<b>29</b>	

### B. Tech in Electronics and Communication Engineering Scheme of Instructions 2020-24 Batch

## Approved Scheme for 2020-24 Batch in BOS-2022

### V SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20EN0501	Digital Communication	HC	3	0	0	3	3
2	B20EN0502	Signals and Systems	HC	3	0	1	4	5
3	B20EN0503	Verilog for FPGA Development	HC	3	0	0	3	3
4	B20ENS5XX	Professional Elective-1	SC	3	0	0	3	3
5	B20ENS5XX	Professional Elective-2	SC	3	0	0	3	3
6	B20XXO5XX	Open Elective-1	OE	3	0	0	3	3
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>1</b>	<b>19</b>	<b>20</b>
<b>Practical /Term Work / Sessional</b>								
7	B20EN0504	Digital Communication Lab	HC	0	0	1	1	2
8	B20EN0505	Verilog for FPGA Development Lab	HC	0	0	1	1	2
9	B20EN0506	Technical Documentation	FC	1	0	0	1	1
10	B20EN0507	Research based project	HC	0	0	1	1	2
<b>TOTAL</b>				<b>1</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>7</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>23</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>108</b>	
<b>TOTAL CONTACT HOURS</b>							<b>27</b>	

### VI SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20EN0601	Control Engineering	HC	3	0	1	4	5
2	B20EN0602	Digital Signal Processing	HC	3	0	0	3	3
3	B20EN0603	Computer Networks	HC	3	0	0	3	3
4	B20EN0604	Computer Architecture and organization	HC	3	0	0	3	3
5	B20ENS6XX	Professional Elective-3	SC	3	0	0	3	3
6	B20XXO6XX	Open Elective-2	OE	3	0	0	3	3
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>1</b>	<b>19</b>	<b>20</b>
<b>Practical /Term Work / Sessional</b>								
7	B20EN0605	Digital Signal Processing lab	HC	0	0	1	1	2
8	B20EN0606	Computer Networks Lab	HC	0	0	1	1	2
9	B20EN0607	Mini project/Internship	HC	0	0	2	2	4
10	B20PA0501	Indian Tradition and Culture	FC	1	0	0	1	2
<b>TOTAL</b>				<b>1</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>24</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>132</b>	
<b>TOTAL CONTACT HOURS</b>							<b>28</b>	

### VII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/S C/OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Total	
1	B20EN0701	Microwaves and Antenna	HC	3	0	0	3	3
2	B20EN0702	CMOS VLSI Circuits	HC	3	0	0	3	3
3	B20ENS7XX	Professional Elective-4	SC	3	0	0	3	3
4	B20ENS7XX	Professional Elective-5	SC	3	0	0	3	3
5	B20XX07XX	Open Elective-3	OE	3	0	0	3	3
TOTAL				15	0		15	15
<b>Practical /Term Work / Sessional</b>								
6	B20EN0703	Microwaves and Antenna Lab	HC	0	0	1	1	2
7	B20EN0704	CMOS VLSI Circuits Lab	HC	0	0	1	1	2
8	B20EN0705	Major Project Phase – 1	HC	0	0	1	1	2
TOTAL				0	0	3	3	2
TOTAL SEMESTER CREDITS						18		
TOTAL CUMULATIVE CREDITS						150		
TOTAL CONTACT HOURS						21		

#### VIII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/S C/OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Total	
1	B20XX08XX	Open Elective-4	OE	3	0	0	3	3
TOTAL				3	0	0	3	3
<b>Practical /Term Work / Sessional</b>								
2	B20EN0801	Major Project Phase – 2	HC	0	0	0	7	14
TOTAL				0	0	0	7	14
TOTAL SEMESTER CREDITS						10		
TOTAL CUMULATIVE CREDITS						160		
TOTAL CONTACT HOURS						17		

  
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OPEN ELECTIVES OFFERED FROM SCHOOL OF ECE							
5TH SEM /OE1		6TH SEM /OE2		7TH SEM /OE3		8TH SEM /OE4	
Course code	Course Name	Course code	Course Name	Course code	Course Name	Course code	Course Name
B20ECO501	PCB Fabrication	B20ECO601	Basics of Communication Systems	B20ECO701	Automotive Electronics	B20ECO801	Consumer Electronics
B20ECO502	Embedded Systems	B20ECO602	Sensors and Instrumentation	B20ECO702	Robotic Systems	B20ECO802	Healthcare Electronics

PROFESSIONAL ELECTIVES							
PE	Course Code	Domain1: Electronics	Course Code	Domain 2:Communication	Course Code	Domain3: Computers	
PE-1 / 5 <sup>TH</sup> SEM	B20ENS511	ARM Processors and Applications	B20ENS512	Optical Fiber Communication	B20ENS513	Theory of Algorithms	
PE-2 / 5 <sup>TH</sup> SEM	B20ENS521	Automotive Electronics	B20ENS522	Information Theory and Coding	B20ENS523	Database Management Systems	
PE-3 / 6 <sup>TH</sup> SEM	B20ENS631	Power Electronics	B20ENS632	Cryptography and Network Security	B20ENS633	JAVA Programming	
PE-4/ 7 <sup>TH</sup> SEM	B20ENS741	Analog and Mixed mode VLSI	B20ENS742	Wireless and Multimedia Communication	B20ENS743	Machine Learning	Operating Systems
PE-5 / 7 <sup>TH</sup> SEM	B20ENS751	MEMS and Nano Technology	B20ENS752	RF Communications and Applications	B20ENS753	Web Programming	Compiler Design

  
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## Detailed Syllabus

**B. Tech in Electronics and Computer Engineering  
Scheme of Instructions 2020-24 Batch**

**I SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20AS0102	Calculus and Differential Equations	HC	3	0	0	3	3
2	B20AS0104	Engineering Chemistry	HC	3	0	0	3	3
3	B20CI0101	Introduction to Python Programming	HC	2	0	1	3	4
4	B20EN0101	Principles of Electrical and Electronics	HC	3	0	1	4	5
5	B20ME0103	Elements of Mechanical and Civil Engineering	HC	3	0	0	3	3
<b>TOTAL</b>				<b>14</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>18</b>
<b>Practical /Term Work / Sessional</b>								
6	B20AS0109	Biology for Engineers	HC	1	0	0	1	1
7	B20ME0102	Design Thinking	HC	1	0	1	2	3
<b>TOTAL</b>				<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>19</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>19</b>	
<b>TOTAL CONTACT HOURS</b>							<b>22</b>	

**II SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20AS0203	Integral Transforms	HC	4	0	0	4	4
2	B20AS0202	Engineering Physics	HC	3	0	1	4	5
3	B20CS0101	Introduction to Data Science	HC	2	0	1	3	4
4	B20EN0201	Analog Electronics	HC	3	0	1	4	5
<b>TOTAL</b>				<b>12</b>	<b>0</b>	<b>3</b>	<b>15</b>	<b>18</b>
<b>Practical /Term Work / Sessional</b>								
5	B20EC0101	IoT and Applications	HC	1	0	1	2	3
6	B20ME0104	Entrepreneurship	HC	1	0	0	1	1
7	B20ME0101	Computer Aided Engineering Drawing	HC	2	0	1	3	4
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>21</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>40</b>	
<b>TOTAL CONTACT HOURS</b>							<b>26</b>	

### III SEMESTER

Sl. No	Course Code	Title of the Course	HC/F C/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Total	
1	B20AS0305	Linear algebra and Partial Differential Equations	FC	3	0	0	3	4
2	B20EN0301	Linear Integrated Circuits	HC	3	0	1	4	5
3	B20EP0301	Digital Electronics and Verilog	HC	3	0	1	4	5
4	B20EP0302	Design and Analysis of Algorithms	HC	2	0	1	3	4
5	B20EN0304	Problem solving using C Programming	HC	2	0	1	3	4
<b>TOTAL</b>				<b>14</b>	<b>0</b>	<b>3</b>	<b>17</b>	<b>22</b>
<b>Practical /Term Work / Sessional</b>								
6	B20EN0305	Course based project on Linear Integrated Circuits	HC	0	0	1	1	2
7	B20AS0303	Environmental Science	FC	2	0	0	2	2
8	B20MG0301	Management Science	FC	2	0	0	2	2
9	B20AHM301/ B20AHM302	Advanced Kannada/Basic Kannada	MC	1	0	0	0	1
<b>TOTAL</b>				<b>5</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>7</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>22</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>62</b>	
<b>TOTAL CONTACT HOURS</b>							<b>29</b>	

### IV SEMESTER

Sl. No	Course Code	Title of the Course	HC/F C/SC/ OE	Credit Pattern & Credit Value				Contact Hours/ Week
				L	T	P	Total	
1	B20EP0401	Discrete Mathematics and Graph Theory	FC	3	1	0	4	5
2	B20EP0402	Relational Database Management Systems	HC	2	0	1	3	4
3	B20EP0403	Control Systems Engineering	HC	3	0	1	4	5
4	B20EN0403	Microcontroller and Applications	HC	3	0	1	4	5



5	B20EN0404	Object Oriented Programming and Data Structures using C++	HC	2	0	1	3	4
<b>TOTAL</b>				<b>13</b>	<b>1</b>	<b>4</b>	<b>18</b>	<b>23</b>
<b>Practical /Term Work / Sessional</b>								
6	B20EN0405	Course Based project on Microcontroller and Applications	HC	0	0	1	1	2
7	B20AH0301	Communication Skills	FC	2	0	0	2	2
8	B20LS0301	Indian Constitution and Professional Ethics	FC	2	0	0	2	2
9	B20AHM401	Universal Human Values	MC	0	0	0	0	1
<b>TOTAL</b>				<b>4</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>7</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>23</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>85</b>	
<b>TOTAL CONTACT HOURS</b>							<b>30</b>	

#### V SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20EP0501	Embedded Systems	HC	3	0	1	4	5
2	B20EP0502	Machine Learning	HC	2	0	1	3	4
3	B20EP0503	Unix Shell Programing	HC	2	0	1	3	4
4	B20EP0504	Java Programming	HC	2	0	1	3	4
5	B20EPS5XX	Professional Elective-1	SC	3	0	0	3	3
6	B20EPS5XX	Professional Elective-2	SC	3	0	0	3	3
7	B20XXO5XX	Open Elective-1	OE	3	0	0	3	3
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>4</b>	<b>22</b>	<b>26</b>
<b>Practical /Term Work / Sessional</b>								
8	B20EN0504	Technical Documentation	FC	1	0	0	1	2
9	B20EN0505	Mini project/Internship	HC	0	0	3	3	6
<b>TOTAL</b>				<b>1</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>8</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>26</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>111</b>	
<b>TOTAL CONTACT HOURS</b>							<b>34</b>	

## VI SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20EP0601	UX Design	HC	2	0	1	3	4
2	B20EP0602	Web Technologies	HC	2	0	1	3	4
3	B20EP0603	Data Communication and Networking	HC	2	0	1	3	4
4	B20EP0604	Basic VLSI Design	HC	3	0	1	4	5
5	B20EPS6XX	Professional Elective-3	SC	3	0	0	3	3
6	B20XXO6XX	Open Elective-2	OE	3	0	0	3	3
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>4</b>	<b>19</b>	<b>23</b>
<b>Practical /Term Work / Sessional</b>								
7	B20EN0605	Research based project	HC	0	0	2	2	4
8	B20PA0501	Indian Tradition and Culture	FC	1	0	0	1	2
<b>TOTAL</b>				<b>1</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>6</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>22</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>133</b>	
<b>TOTAL CONTACT HOURS</b>							<b>29</b>	

## VII SEMESTER

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20EP0701	Data Analytics using R	HC	3	0	1	4	5
2	B20EP0702	Cyber Security and Blockchain	HC	2	0	1	3	4
3	B20EPS7XX	Professional Elective-4	SC	3	0	0	3	3
4	B20EPS7XX	Professional Elective-5	SC	3	0	0	3	3
5	B20XXO7XX	Open Elective-3	OE	3	0	0	3	3
<b>TOTAL</b>				<b>14</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>18</b>
<b>Practical /Term Work / Sessional</b>								
6	B20EN0703	Major Project Phase – 1	HC	0	0	1	1	2
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>17</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>150</b>	
<b>TOTAL CONTACT HOURS</b>							<b>20</b>	

**VIII SEMESTER**

Sl. No	Course Code	Title of the Course	HC/FC/SC/OE	Credit Pattern & Credit Value				Contact Hours/Week
				L	T	P	Total	
1	B20XXO8XX	Open Elective-4	OE	3	0	0	3	3
<b>TOTAL</b>				<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>Practical /Term Work / Sessional</b>								
2	B20EN0801	Major Project Phase – 2	HC	0	0	0	7	14
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>14</b>
<b>TOTAL SEMESTER CREDITS</b>							<b>10</b>	
<b>TOTAL CUMULATIVE CREDITS</b>							<b>160</b>	
<b>TOTAL CONTACT HOURS</b>							<b>17</b>	

Semester	I	II	III	IV	V	VI	VII	VIII	Total
Credits	19	21	22	23	26	22	17	10	160

**OPEN ELECTIVES OFFERED FROM SCHOOL OF ECE**

5TH SEM /OE1		6TH SEM /OE2		7TH SEM /OE3		8TH SEM /OE4	
Course code	Course Name	Course code	Course Name	Course code	Course Name	Course code	Course Name
B20ECO501	PCB Fabrication	B20ECO601	Principles of Analog and Digital Communication	B20ECO701	Introduction to CMOS VLSI	B20ECO801	Automotive Electronics
B20ECO502	Embedded Systems	B20ECO602	Sensors and Instrumentation	B20ECO702	Microprocessors and Microcontrollers	B20ECO802	Robotics and Automation

  
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**School Of Electronics and Communication Engineering**  
**Scheme Of Instructions**

<b>I Semester</b>								
Sl. No.	Course Code	Title of the Course	HC/FC/SC /OE	Credit Pattern				Contact Hours/Week
				L	T	P	Total	
1	M20AS0101	Advanced Mathematics	HC	3	0	0	3	3
2	M20TL0103	CMOS VLSI Design	HC	3	0	1	4	5
3	M20TL0102	Advanced Embedded System Design	HC	3	0	1	4	5
4	M20TL0101	Advanced Digital System Design using Verilog	HC	2	0	1	3	4
5	M20TL0104	Communication Busses and Interfaces	HC	3	0	0	3	3
6	M20TL0105	Internet of Things- Practical Approach using NXP Rapid IoT Kit	HC	3	0	0	3	3
<b>Total Credits</b>							<b>20</b>	<b>23</b>
<b>SECOND SEMESTER</b>								
1	M20TL0201	Design of Analog CMOS Integrated Circuits	HC	3	0	1	4	5
2	M20TL0202	Real Time Operating Systems	HC	3	0	1	4	5
3	M20TLS0211	VLSI Testing	SC1	3	0	0	3	3
	M20TLS0212	Semiconductor Device Modeling & Technology		3	0	0		
	M20TLS0213	IC Fabrication		3	0	0		
	M20TLS0214	ASIC Design		3	0	0		
	M20TLS0215	Static Timing Analysis		3	0	0		
4	M20TLS0221	Unix/Linux Shell Scripting and Python Basics	SC2	3	0	0	3	3
	M20TLS0222	SOC Design		3	0	0		
	M20TLS0223	Embedded Systems For Automotive Applications		3	0	0		
	M20TLS0224	Advanced Computer Architecture		3	0	0		

	M20TLS0225	Designing With Power Devices		3	0	0		
5	M20TLS0231	Nanoelectronics	SC3	3	0	0	3	3
	M20TLS0232	VLSI for Signal Processing		3	0	0		
	M20TLS0233	Low Power VLSI Design		3	0	0		
	M20TLS0234	MEMS		3	0	0		
	M20TLS0235	High Speed VLSI Design		3	0	0		
6	M20TLS0241	ASIC Design and Verification using SystemVerilog	SC4	3	0	0	3	3
	M20TLS0242	Embedded Applications In Power Conversion		3	0	0		
	M20TLS0243	Product Design & Quality Management		3	0	0		
	M20TLS0244	Embedded Systems In Smart Grid		3	0	0		
	M20TLS0245	Embedded Linux System Design And Development		3	0	0		
<b>Total</b>							<b>20</b>	<b>22</b>
Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern				Contact Hours/Week
				L	T	P	Total	
<b>THIRD SEMESTER</b>								
1	M20TLS0311	Blended learning: Electronic Packaging	SC5	3	0	0	3	3
	M20TLS0312	Blended learning: Algorithms For VLSI		3	0	0		
	M20TLS0313	Blended learning: Synthesis and optimization of Digital Circuits		3	0	0		
	M20TLS0314	Blended learning: CMOS RF Circuit Design		3	0	0		
	M20TLS0315	Advances in VLSI Design		3	0	0		
2	M20TLO0301	Suitable online course	OE	3	0	0	3	3
3	M20TL0101	Project Phase-1	HC	0	0	4	4	8
4	M20TL0102	Internship	-	0	0	6	6	12
<b>Total</b>							<b>16</b>	<b>26</b>
<b>FOURTH SEMESTER</b>								
1	M20TL0401	Project Phase II Dissertation&Masters Thesis	HC**	0	0	16	16	32

	<b>Total</b>	<b>16</b>	<b>32</b>
	<b>Total Credits for four Semesters</b>	<b>72</b>	

**Note:** HC = Hard Core: SC= Soft Core

\*For all the courses which are not supported by lab component students have to build mini project and it has to be evaluated.

\*\*Mandatory to publish the outcome of project work into research article in reputed journals as specified by the project guide.

  
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## School Of Electronics And Communication Engineering

### Scheme of Instructions

Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern				Contact Hours/Week
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	M20AS0101	Advanced Mathematics	HC	3	0	0	3	3
2	M20TM0102	CMOS VLSI Design	HC	3	0	1	4	5
3	M20TM0103	Advanced Embedded System Design	HC	3	0	1	4	5
<b>Total</b>							<b>11</b>	<b>13</b>
<b>SECOND SEMESTER</b>								
1	M20TM0201	Design of Analog CMOS Integrated Circuits	HC	3	0	1	4	5
2	M20TM0202	Real Time Operating Systems	HC	3	0	1	4	5
3	M20TM0203	Communication Busses and Interfaces Analysis	HC	3	0	0	3	3
<b>Total Credits</b>							<b>11</b>	<b>13</b>
Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern				Contact Hours/Week
				L	T	P	Total	
<b>THIRD SEMESTER</b>								
1	M20TM0301	Advanced Digital System Design using Verilog	HC	2	0	1	3	3
2	M20TMS0311	Electronic Packaging	SC5	3	0	0	3	3
	M20TMS0312	Algorithms For VLSI		3	0	0		
	M20TMS0313	Synthesis and optimization of Digital Circuits		3	0	0		
	M20TMS0314	CMOS RF Circuit Design		3	0	0		
	M20TMS0315	Advances in VLSI Design		3	0	0		
3	M20TMS0321	VLSI Testing	SC1	3	0	0	3	3
	M20TMS0322	Semiconductor Device Modeling & Technology		3	0	0		

	M20TMS0323	IC Fabrication		3	0	0		
	M20TMS0324	ASIC Design		3	0	0		
	M20TMS0325	Static Timing Analysis		3	0	0		
<b>Total</b>							<b>9</b>	<b>9</b>
<b>FOURTH SEMESTER</b>								
1	M20TMS0411	Unix/Linux Shell Scripting and Python Basics	SC2	3	0	0	3	3
	M20TMS0412	SOC Design		3	0	0		
	<b>M20TMS0413</b>	<b>Embedded Systems For Automotive Applications</b>		3	0	0		
	M20TMS0414	Advanced Computer Architecture		3	0	0		
	M20TMS0415	Designing With Power Devices		3	0	0		
2	M20TMS0421	Nanoelectronics	SC3	3	0	0	3	3
	M20TMS0422	VLSI for Signal Processing		3	0	0		
	M20TMS0423	Low Power VLSI Design		3	0	0		
	M20TMS0424	MEMS		3	0	0		
	M20TMS0425	High Speed VLSI Design		3	0	0		
3	M20TMS0431	ASIC Design and Verification using SystemVerilog	SC4	3	0	0	3	3
	M20TMS0432	Embedded Applications In Power Conversion		3	0	0		
	M20TMS0433	Product Design & Quality Management		3	0	0		
	M20TMS0434	Embedded Systems In Smart Grid		3	0	0		
	M20TMS0435	Embedded Linux System Design And Development		3	0	0		
4	M20TM0401	Internet of Things- Practical Approach using NXP Rapid	HC	3	0	0	3	3



Total								12	12
Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern				Contact Hours/Week	
				L	T	P	Total		
<b>FIFTH SEMESTER</b>									
1	M20TM0501	Project Phase-1	HC	0	0	4	4	8	
2	M20TMO0501	Suitable online course	OE	3	0	0	3	3	
3	M20TM0502	Internship	-	0	0	6	6	12	
Total								13	23
Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern				Contact Hours/Week	
				L	T	P	Total		
<b>SIXTH SEMESTER</b>									
1	M20TM0601	**Project Phase II Dissertation & Masters Thesis	HC	0	0	16	16	32	
Total								16	32
Total Credits for four Semesters								72	

**Note:** HC = Hard Core: SC= Soft Core

\*For all the courses which are not supported by lab component students have to build mini project and it has to be evaluated.

\*\*Mandatory to publish the outcome of project work into research article in reputed journals as specified by the project guide.

  
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## B ARCH DEGREE PROGRAM

### SCHEME OF INSTRUCTION FOR 2021 BATCH (2021 to 2026) STUDENTS

<b>I Semester</b>							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR1010	Basic Design and Visual Art	PC	2:2:4	9	8	VV
2	B21AR1020	Structural systems and Building construction-I	BS	3:3:1	6	7	VV
3	B21AR1030	Architectural Representation-I	PC	1:3:1	4	5	TW
4	B21AR1040	History of Architecture - I	PC	3:0:0	3	3	SEE
5	B21AR1050	Environmental Studies	BS	2:0:0	2	2	SEE
6	B21AR1060	Technical English I	SE	0:4:0	2	4	SEE
		Total Credits			<b>26</b>	<b>29</b>	
<b>II Semester</b>							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR2010	Architectural Design – I	PC	2:2:4	9	8	VV
2	B21AR2020	Structural systems and Building construction-II	BS	3:3:1	6	7	VV
3	B21AR2030	Architectural Representation-II	PC	1:3:1	4	5	TW
4	B21AR2040	History of Architecture – II	PC	3:0:0	3	3	SEE
5	B21AR2050	Model Making/art appreciation	PE	1:2:0	2	3	INT
6	B21AR2060	Architectural workshop	SE	0:4:0	2	4	INT
7	B21AR2070	Constitution of India	PC	2:0:0	2	2	SEE
		Total Credits			<b>28</b>	<b>32</b>	

III Semester							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR3010	Architectural Design - II	PC	2:2:4	9	8	VV
2	B21AR3020	Structural systems and Building construction-III	BS	4:3:1	7	7	VV
3	MPA17F3910/2030	Music/Dance/Theatre/Yoga /Sports	PE	2:0:0	2	2	SEE
4	B21AR3040	Building Services-I	BS	2:0:0	2	2	SEE
5	B21AR3050	History of Architecture- III - Hindu and Buddhist Architecture	PC	2:2:0	3	4	VV
6	B21AR3060	Site survey and planning	BS	2:1:0	2	3	SEE
7	B21AR3070	Computer applications in Architectural design -I	SE	3:0:0	3	3	TW
<b>Total Credits</b>					<b>28</b>	<b>29</b>	
IV Semester							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR4010	Architectural Design - III	PC	2:2:4	9	8	VV
2	B21AR4020	Structural systems and Building construction-IV	BS	4:3:1	7	7	VV
3	B21AR4030	Climatology	BS	3:0:0	3	3	SEE
4	B21AR4040	Building Services -II	BS	2:0:0	2	2	SEE
5	B21AR4050	Housing	PC	3:0:0	3	3	SEE
6	B21AR4060	History of Architecture – IV Islamic Architecture	PC	2:2:0	3	4	VV
7	B21AR4070	Computer applications in Architectural design -II	SE	2:1:0	2	3	TW
<b>Total Credits</b>					<b>29</b>	<b>30</b>	

V Semester							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR5010	Architectural Design - IV	PC	3:1:4	10	8	VV
2	B21AR5020	Structural systems and building construction-V	BS	4:2:2	8	8	VV
3	B21AR5030	Energy efficient Design	BS	1:2:0	2	3	TW
4	B21AR5040	Building Services - III	BS	2:0:0	2	2	SEE
5	B21AR5050	Theory of Architecture	PC	3:0:0	3	3	SEE
6	B21AR5060	History of Architecture IV-Contemporary Period	PC	3:0:0	3	3	VV
<b>Total Credits</b>					<b>28</b>	<b>27</b>	
VI Semester							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR6010	Architectural Design - V	PC	3:1:4	10	8	VV
2	B21AR6020	Structural systems and building construction-VI	BS	3:1:1	5	5	VV
3	B21AR6030	Working Drawings	PC	2:1:0	3	3	TW
4	B21AR6040	Building Services-IV	BS	2:1:0	2	3	SEE
5	B21AR6051/52	Research in Architecture /Contemporary Process in Architecture	PE	3:0:0	3	3	VV
6	B21AR6060	Urban Planning	PC	3:0:0	3	3	SEE
7	B21AR6070	Certification Course in Advanced Software	PA	0:4:0	2	4	INT
<b>Total Credits</b>					<b>28</b>	<b>25</b>	

VII SEMESTER							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR7010	Architectural Design - VI	PC	3:0:6	12	9	VV
2	B21AR7020	Estimation & Costing	BS	3:0:0	3	3	SEE
3	B21AR7030	Professional Practice	PA	3:0:0	3	3	SEE
4	B21AR7040	Interior Design/graphic & Product Design	PE	2:1:0	3	3	VV
5	B21AR7051	Vernacular Architecture	PE	3:0:0	3	3	SEE
6	B21AR7052	Barrier free Architecture					
7	B21AR7061	Indian Art and Architectural Heritage	OE	3:0:0	3	3	SEE
8	B21AR7062	Fine arts	OE				
9	B21AR7063	Fundamentals of Interior Design	OE				
10	B21AR7070	SDL	PA	0:0:0	2	0	INT
<b>Total Credits</b>					<b>29</b>	<b>24</b>	

Open Electives offered by School of Architecture for students of other Schools / Discipline: Indian Art and Heritage/ Fine arts/Interior Design; The students of Architecture shall have to choose one of the Open Elective offered by other Schools.

VIII SEMESTER							
No	Course Code	Course Title	Type	L : P : D	Total Credits	Contact Hours	Evaluation
1	B21AR8010	Architectural Design - VII	PC	2:0:7	13	9	VV
2	B21AR8020	Pre-Thesis	PC	0:4:0	2	4	INT
3	B21AR8030	Landscape design	PC	2:1:0	3	3	SEE
4	B21AR8041	Urban Design	PE	3:0:0	3	3	SEE
	B21AR8042	Conservation studies					
5	B21AR8051	Advanced Building Materials	PE	2:1:0	3	3	SEE
	B21AR8052	Real Estate and Valuation					
6	B21AR8060	SDL - Entrepreneurship Development	PA	0:4:0	2	8 weeks courses	INT
<b>Total Credits</b>					<b>28</b>	<b>22</b>	

IX Semester						
No	Course Code	Course Title	Type	Total Credits	Contact Hours	Evaluation
1	B21AR9010	Practical Training	PA	26	18 weeks	VV
<b>Total Credits</b>				<b>26</b>		

#### X Semester

No	Course Code	Course Title	Type	L-P-D	Total Credits	Contact Hours	Evaluation
1	B21ARX010	Architectural Design Thesis	PC	6:0:8	18	14	VV
2	B21ARX021	Architectural Journalism	PE	3:0:0	3	2	SEE
3	B21ARX022	Disaster Mitigation and Management					
4	B21ARX030	Construction Management	PA	3:0:0	3	3	SEE
5	B21ARX040	SDL	PA	2:0:0	2	0 (online 4 to 6 weeks)	INT
<b>Total Credits</b>					<b>26</b>	<b>19</b>	
<b>Total Credits from 1 to 10 Semesters</b>				<b>274</b>			

1. L=lecture; P=Practice, Lab, Studio Exercise, Seminar; D=Design
2. 1 hour of L = 1 Credit; 1 hour of P-Lab/ Seminar/Practice=1/2 credit, 1 hour of D = 1.5 Credit
3. SDL – Self Directed Learning

SEE = Semester end Theory Exam, VV=Viva voce, INT= Continuous Internal Evaluation PC= Professional Core (140-51.5%) BS= Building Services and Allied Engineering (58-21%) SE=Skill Enhancement Courses (11-4%) PA= Professional ability courses (34-12%) PE= Professional elective (27-10%), Open Electives (4-1.5%)  
Total credits – 274.

<b>Semester wise Credits Distribution</b>			
Sl. No.	Semester	Credits	Contact Hours
1	Semester - 1	26	29
2	Semester - 2	28	32
3	Semester - 3	28	29
4	Semester - 4	29	30
5	Semester - 5	28	27
6	Semester - 6	28	25
7	Semester - 7	29	24
8	Semester - 8	26	22
9	Semester - 9	26	18 weeks
10	Semester - 10	26	19
	<b>Total</b>	<b>274</b>	<b>237</b>

  
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**B.A. Journalism & Mass Communication (B.A. JMC)**  
**Scheme of Instructions (2021-2024)**

Sl. No	Course Code	Title of the Course	Course Type	Credit Pattern and Value				Weekly Contact Hours
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	B21ASM201	Environmental Science	FC	Non-credit Mandatory Course				2
2	B21AHE101	Communicative English – I	FC	1	1	0	2	3
3	B21AHK101	Language – I: Kannada	FC	1	1	0	2	3
	B21AHH101	Language – I: Hindi						
	B21AHA101	Language – I: Additional English						
4	B21AD0101	History of Journalism	HC	2	1	0	3	4
5	<b>B21AD0102</b>	<b>Introduction to Communication</b>	HC	4	0	0	4	4
6	<b>B21AD0103</b>	<b>Reporting and Editing</b>	HC	4	0	0	4	4
7	<b>B21AD0104</b>	<b>Computer Fundamentals</b>	HC	0	1	1	2	4
8	<b>B21AD0105</b>	<b>Journalism Practical – I</b>	HC	0	0	2	2	4
		<b>Total Credits</b>		<b>12</b>	<b>4</b>	<b>3</b>	<b>19</b>	<b>28</b>
<b>SECOND SEMESTER</b>								
1	B21LSM101	Indian Constitution and Human Rights	FC	Non-credit Mandatory Course				2
2	B21AHE201	Communicative English – II	FC	1	1	0	2	3
3	B21AHK201	Language – II: Kannada	FC	1	1	0	2	3
	B21AHH201	Language – II: Hindi						
	B21AHA201	Language – II: Additional English						
4	<b>B21AD0201</b>	<b>Mass Communication Theories</b>	HC	2	1	0	3	4
5	<b>B21AD0202</b>	<b>Online Journalism</b>	HC	2	1	0	3	4
6	<b>B21AD0203</b>	<b>Introduction to AV Media</b>	HC	3	0	1	4	5
7	<b>B21ADS111</b>	<b>Communication in Peace and Conflict Management</b>	SC	1	0	1	2	3
	<b>B21ADS112</b>	<b>Contemporary Politics &amp; Challenges Of Globalization</b>						
8	<b>B21AD0204</b>	<b>Journalism Practical – II</b>	HC	0	0	2	2	4
9	<b>B21ADON01</b>	<b>MOOC - I</b>	ON	Non-credit Mandatory Course				Self-Study
		<b>Total Credits</b>		<b>10</b>	<b>4</b>	<b>4</b>	<b>18</b>	<b>28</b>
<b>THIRD SEMESTER</b>								
1	B21AHK301	Language – III: Kannada	FC	1	1	0	2	3
	B21AHH301	Language – III: Hindi						

	B21AHA301	Language – III: Additional English						
2	B21AD0301	Advertising	HC	3	1	0	4	5
3	B21AD0302	Public Relations	HC	2	1	0	3	4
4	B21AD0303	Photography Techniques	HC	2	0	1	3	4
5	B21ADS311	Business Journalism	SC	2	1	0	3	4
	B21ADS312	Political Communication						
6	B21ADS321	Media and Human Rights	SC	2	0	1	3	4
	B21ADS322	Media and Gender						
7	B21AD0304	Journalism Practical - III	HC	0	0	2	2	4
8		Open Elective	OE	2	1	0	3	4
		<b>Total Credits</b>		<b>14</b>	<b>5</b>	<b>4</b>	<b>23</b>	<b>32</b>
	<b>FOURTH SEMESTER</b>							
1	B21AHK401	Language IV: Kannada	FC	1	1	0	2	3
	B21AHH401	Language IV: Hindi						
	B21AHA401	Language IV: Additional English						
2	B21AD0401	Media Laws	HC	3	1	0	4	5
3	B21AD0402	Basics of Visual Communication	HC	2	1	0	3	4
4	B21AD0403	Fundamentals of Media Research	HC	4	0	0	4	4
5	B21ADS411	Feature and Magazine Writing	SC	2	0	0	2	2
	B21ADS412	Documentary Production						
6	B21ADS411(P)	Journalism Practical – IV (Feature and Magazine Writing Lab)	SC	0	0	2	2	4
	B21ADS412(P)	Journalism Practical – IV (Documentary Production Lab)						
7	B21ADS421	Event Management	SC	2	0	0	2	2
	B21ADS422	Creative Advertisement Design						
	B21ADS421(P)	Journalism Practical – V (Event Management Lab)	SC	0	0	2	2	4
	B21ADS422(P)	Journalism Practical – V (Creative Advertising Design Lab)						
		<b>Total Credits</b>		<b>14</b>	<b>3</b>	<b>4</b>	<b>21</b>	<b>28</b>
	<b>FIFTH SEMESTER</b>							
1	B21AD0501	Digital Media Marketing	HC	3	1	0	4	5
2	B21AD0502	Film Appreciation	HC	4	0	0	4	4
3	B21AD0503	Corporate Governance and Entrepreneurship	HC	2	1	0	3	4
4	B21ADS511	Data Journalism	SC	2	0	0	2	2
	B21ADS512	Brand Communication						



	B21ADS511(P)	Journalism Practical – VI (Data Journalism Lab)	SC	0	0	2	2	4
	B21ADS512(P)	Journalism Practical – VI (Brand Communication Lab)						
5	B21ADS521	News Production Techniques	SC	2	0	0	2	2
	B21ADS522	Corporate Social Responsibility						
6	B21ADS521(P)	Journalism Practical – VII (News Production Techniques Lab)	SC	0	0	2	2	4
7	B21ADS522(P)	Journalism Practical – VII (Corporate Social Responsibility Lab)						
8	B21ADM501	Skill Development Course – I (Non-credit Mandatory Course)	M	0	0	0	0	2
		<b>Total Credits</b>		<b>13</b>	<b>2</b>	<b>4</b>	<b>19</b>	<b>27</b>
	<b>SIXTH SEMESTER</b>							
1	B21AD0601	International Communication	HC	2	1	0	3	4
2	B21AD0602	Environmental Communication	HC	2	1	0	3	4
3	B21ADS611	Development Communication	SC	2	0	0	2	2
	B21ADS612	Media Criticism						
	B21ADS611(P)	Journalism Practical – VIII (Development Communication Lab)	SC	0	0	2	2	4
	B21ADS612(P)	Journalism Practical – VIII (Media Criticism Lab)						
4	B21ADS621	Technical Writing	SC	2	0	0	2	2
	B21ADS622	Writing for Television						
	B21ADS621(P)	Journalism Practical – IX (Technical Writing Lab)	SC	0	0	2	2	4
	B21ADS622(P)	Journalism Practical – IX (Writing for Television)						
6	B21AD0603	Major Research Project	HC	0	0	6	6	12
7	B21ADM601	Skill Development Course – II (Non-credit Mandatory Course)	M	0	0	0	0	2
		<b>Total Credits</b>		<b>8</b>	<b>2</b>	<b>10</b>	<b>20</b>	<b>34</b>
		<b>Total Credits of All Semesters</b>		<b>71</b>	<b>20</b>	<b>29</b>	<b>120</b>	<b>177</b>

### Semester-wise Summary of Credit Distribution

Semesters	No. of Credits
First Semester	19
Second Semester	18
Third Semester	23
Fourth Semester	21
Fifth Semester	19
Sixth Semester	20
<b>Total Credits</b>	<b>120</b>

### Distribution of Credits Based on Type of Courses

Semester	HC	SC	OE	FC	Credits
<b>I</b>	15	0	0	4	19
<b>II</b>	12	2	0	4	18
<b>III</b>	12	6	3	2	23
<b>IV</b>	11	8	0	2	21
<b>V</b>	11	8	0	0	19
<b>VI</b>	12	8	0	0	20
<b>Total</b>	<b>73</b>	<b>32</b>	<b>3</b>	<b>12</b>	<b>120</b>

### Distribution of Credits Based on L:T:P

Semester	L	T	P	Credits
<b>I</b>	12	4	3	19
<b>II</b>	10	4	4	18
<b>III</b>	14	5	4	23
<b>IV</b>	14	3	4	21
<b>V</b>	13	2	4	19
<b>VI</b>	8	2	10	20
<b>Total</b>	<b>71</b>	<b>20</b>	<b>29</b>	<b>120</b>

**BA (Journalism, English, Psychology – JEP)**  
**Scheme of Instructions (2021-2024)**

Sl. No	Course Code	Title of the Course	Course Type	Credit Pattern and Value				Weekly Contact Hours
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	B21ASM201	Environmental Science	FC	Non-credit Mandatory Course				2
2	B21AHE101	Communicative English – I	FC	1	1	0	2	3
3	B21AHK101	Language – I: Kannada	FC	1	1	0	2	3
	B21AHH101	Language – I: Hindi						
	B21AHA101	Language – I: Additional English						
4	B21AA0101	Journalism - I (Introduction to Media & Communication)	HC	2	1	0	3	4
5	B21AA0102	Journalism Practical - I	HC	0	0	2	2	4
6	B21AA0103	English Literature (Chaucer – Pope) & Language – I	HC	2	1	0	3	4
7	B21AA0104	Psychology - I (Basic Psychological Process-I)	HC	2	1	0	3	4
8	B21AA0105	Psychology Practical - I	HC	0	0	2	2	4
9	B21AAS111	Interdisciplinary Elective 1	SC	1	1	0	2	3
	B21AAS112	Interdisciplinary Elective 2						
	B21AAS113	Interdisciplinary Elective 3						
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>4</b>	<b>19</b>	<b>31</b>
<b>SECOND SEMESTER</b>								
1	B21LSM101	Indian Constitution and Human Rights	FC	Non-credit Mandatory Course				2
2	B21AHE201	Communicative English – II	FC	1	1	0	2	3
3	B21AHK201	Language – II: Kannada	FC	1	1	0	2	3
	B21AHH201	Language – II: Hindi						
	B21AHA201	Language – II: Additional English						
4	B21AA0201	Journalism - II (Reporting & Editing)	HC	2	1	0	3	4
5	B21AA0202	Journalism Practical – II	HC	0	0	2	2	4
6	B21AA0203	English Literature (The Romantic Age) & Language – II	HC	2	1	0	3	4

7	B21AA0204	Psychology - II (Basic Psychological Process-II)	HC	2	1	0	3	4
8	B21AA0205	Psychology Practical – II	HC	0	0	2	2	4
9	<b>B21AAS211</b>	<b>Interdisciplinary Elective 4</b>	<b>SC</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>3</b>
	<b>B21AAS212</b>	<b>Interdisciplinary Elective 5</b>						
	<b>B21AAS213</b>	<b>Interdisciplinary Elective 6</b>						
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>4</b>	<b>19</b>	<b>31</b>
	<b>THIRD SEMESTER</b>							
1	B21AHK301	Language – III: Kannada	FC	1	1	0	2	3
	B21AHH301	Language – III: Hindi						
	B21AHA301	Language – III: Additional English						
2	B21AA0301	Journalism - III (Audio-Visual Production)	HC	2	1	0	3	4
3	B21AA0302	Journalism Practical - III	HC	0	0	2	2	4
4	B21AA0303	English Literature (Victorian & Modern Ages) & Language – III	HC	2	1	0	3	4
5	B21AA0304	Psychology - III (Measurement & Research Methods in Psychology)	HC	2	1	0	3	4
6	B21AA0305	Psychology Practical - III	HC	0	0	2	2	4
7		Open Elective	OE	2	1	0	3	4
8	B21AAM301	Skill Development Course – I	M	Non-credit Mandatory Course				2
9	B21AAON01	MOOC	ON	0	0	2	2	4
		<b>Total Credits</b>		<b>9</b>	<b>5</b>	<b>6</b>	<b>20</b>	<b>33</b>
	<b>FOURTH SEMESTER</b>							
1	B21AHK401	Language IV: Kannada	FC	1	1	0	2	3
	B21AHH401	Language IV: Hindi						
	B21AHA401	Language IV: Additional English						
2	B21AA0401	Journalism – IV (Fundamentals of Media Research)	HC	2	1	0	3	4
3	B21AA0402	Journalism Practical – IV	HC	0	0	2	2	4
4	B21AA0403	American Literature	HC	2	1	0	3	4
5	<b>B21AA0404</b>	<b>Psychology - IV</b> (Child Development)	HC	2	1	0	3	4
6	B21AA0405	Psychology Practical – IV	HC	0	0	2	2	4
7	B21AAS411	Interdisciplinary Elective 7	SC	1	1	0	2	3
	B21AAS412	Interdisciplinary Elective 8						
	B21AAS413	Interdisciplinary Elective 9						
8	B21AA0406	Minor Research Project	HC	0	0	3	3	6

9	B21AAM401	Skill Development Course – II	M	Non-credit Mandatory Course				2
		<b>Total Credits</b>		<b>8</b>	<b>5</b>	<b>7</b>	<b>20</b>	<b>34</b>
	<b>FIFTH SEMESTER</b>							
1	B21AA0501	Journalism -V (Media Laws & Ethics)	HC	2	1	0	3	4
2	B21AA0502	Literary Criticism	HC	2	1	0	3	4
3	B21AA0503	Psychology – V (Social Psychology)	HC	2	1	0	3	4
4	B21AA0504	Psychology Practical - V	HC	0	0	2	2	4
5	B21AAS511	Journalism -VI (A) (Brand Ecology)	SC	1	1	0	2	3
6	B21AAS512	Journalism -VI (B) (Fundamentals of Photography)						
7	B21AAS511(P)	Journalism Practical -VI (A) (Brand Ecology)	SC	0	0	2	2	4
8	B21AAS512(P)	Journalism Practical -VI (B) (Fundamentals of Photography)						
9	B21AAS521	Literatures of India – I	SC	1	1	0	2	3
10	B21AAS522	European & Non-European Writings - I						
11	B21AAS531	Psychology – VI (A) (Abnormal Psychology - I)	SC	1	1	0	2	3
12	B21AAS532	Psychology –VI (B) (Health Psychology - I)						
13	B21AAS531(P)	Psychology Practical -VI (A) (Abnormal Psychology - I)	SC	0	0	2	2	4
14	B21AAS532(P)	Psychology Practical -VI (B) (Health Psychology - I)						
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>33</b>
	<b>SIXTH SEMESTER</b>							
1	B21AA0601	Journalism -VII (Advertising & Corporate Communication)	HC	2	1	0	3	4
2	B21AA0602	Literary Theory and Criticism	HC	2	1	0	3	4
3	B21AA0603	Psychology – VII (Industrial Psychology)	HC	2	1	0	3	4
4	B21AA0604	Psychology Practical -VII	HC	0	0	2	2	4
5	B21AAS611	Journalism -VIII (A) (New Media)	SC	1	1	0	2	3
6	B21AAS612	Journalism - VIII (B) (Development Communication)						

7	B21AAS611(P)	Journalism Practical – VIII (A) (New Media)	SC	0	0	2	2	4
8	B21AAS612(P)	Journalism Practical – VIII (B) (Development Communication)						
9	B21AAS621	Literatures of India – II	SC	1	1	0	2	3
10	B21AAS622	European & Non-European Writings - II						
11	B21AAS631	Psychology-VIII (A) (Abnormal Psychology - II)	SC	1	1	0	2	3
12	B21AAS632	Psychology-VIII (B) (Health Psychology - II)						
13	B21AAS631(P)	Psychology Practical -VIII (A) (Abnormal Psychology - II)	SC	0	0	2	2	4
14	B21AAS632(P)	Psychology Practical – VIII (B) (Health Psychology - II)						
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>33</b>
		<b>Total Credits of All Semesters</b>		<b>53</b>	<b>34</b>	<b>33</b>	<b>120</b>	<b>196</b>

### Semester-wise Summary of Credit Distribution

Semesters	No. of Credits
First Semester	19
Second Semester	19
Third Semester	20
Fourth Semester	20
Fifth Semester	21
Sixth Semester	21
<b>Total Credits</b>	<b>120</b>

### Distribution of Credits Based on Type of Courses

Semester	HC	SC	OE	FC	Credits
<b>I</b>	13	2	0	4	19
<b>II</b>	13	2	0	4	19
<b>III</b>	13	2	3	2	20
<b>IV</b>	16	2	0	2	20
<b>V</b>	11	10	0	0	21
<b>VI</b>	11	10	0	0	21
<b>Total</b>	<b>77</b>	<b>28</b>	<b>3</b>	<b>12</b>	<b>120</b>

### Distribution of Credits Based on L:T:P

Semester	L	T	P	Credits
<b>I</b>	9	6	4	19
<b>II</b>	9	6	4	19
<b>III</b>	9	5	6	20
<b>IV</b>	8	5	7	20
<b>V</b>	9	6	6	21
<b>VI</b>	9	6	6	21
<b>Total</b>	<b>53</b>	<b>34</b>	<b>33</b>	<b>120</b>

  
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**BA (Political Science, Economics, Journalism – PEJ)**  
**Scheme of Instructions (2021-2024)**

Sl. No	Course Code	Title of the Course	Course Type	Credit Pattern and Value				Weekly Contact Hours
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	B21ASM201	Environmental Science	FC	Non-credit Mandatory Course				2
2	B21AHE101	Communicative English – I	FC	1	1	0	2	3
3	B21AHK101	Language – I: Kannada	FC	1	1	0	2	3
	B21AHH101	Language – I: Hindi						
	B21AHA101	Language – I: Additional English						
4	<b>B21AB0101</b>	<b>Political Science – I (Core Concepts of Political Science)</b>	<b>HC</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>4</b>
<b>5</b>	<b>B21AB0102</b>	<b>Political Science Practical – I</b>	HC	0	0	2	2	4
6	<b>B21AB0103</b>	<b>Economics – I (Principles of Micro Economics)</b>	HC	2	1	0	3	4
7	B21AB0104	Journalism - I (Introduction to Media & Communication)	HC	2	1	0	3	4
8	<b>B21AB0105</b>	<b>Journalism Practical – I</b>	HC	0	0	2	2	4
9	B21ABS111	Interdisciplinary Elective 1	SC	1	1	0	2	3
	B21ABS112	Interdisciplinary Elective 2						
	B21ABS113	Interdisciplinary Elective 3						
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>4</b>	<b>19</b>	<b>31</b>
<b>SECOND SEMESTER</b>								
1	B21LSM101	Indian Constitution and Human Rights	FC	Non-credit Mandatory Course				2
2	B21AHE201	Communicative English – II	FC	1	1	0	2	3
3	B21AHK201	Language – II: Kannada	FC	1	1	0	2	3
	B21AHH201	Language – II: Hindi						
	B21AHA201	Language – II: Additional English						
4	B21AB0201	Political Science – II (Understanding Political Theory)	HC	2	1	0	3	4
5	B21AB0202	Political Science Practical - II	HC	0	0	2	2	4
6	<b>B21AB0203</b>	<b>Economics – II (Principles of Macro Economics)</b>	HC	2	1	0	3	4
7	B21AB0204	Journalism - II (Reporting & Editing)	HC	2	1	0	3	4
8	B21AB0205	Journalism Practical - II	HC	0	0	2	2	4
9	B21ABS211	Interdisciplinary Elective 4	SC	1	1	0	2	3
	B21ABS212	Interdisciplinary Elective 5						
	B21ABS213	Interdisciplinary Elective 6						
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>4</b>	<b>19</b>	<b>31</b>



	<b>THIRD SEMESTER</b>							
1	B21AHK301	Language – III: Kannada	FC	1	1	0	2	3
	B21AHH301	Language – III: Hindi						
	B21AHA301	Language – III: Additional English						
2	B21AB0301	Political Science – III (Indian Constitution and Institutional Framework)	HC	2	1	0	3	4
3	B21AB0302	Political Science Practical - III	HC	0	0	2	2	4
4	B21AB0303	Economics – III (Economic Growth and Development)	HC	2	1	0	3	4
5	B21AB0304	Journalism - III (Audio-Visual Production)	HC	2	1	0	3	4
6	B21AB0305	Journalism Practical - III	HC	0	0	2	2	4
7		Open Elective	OE	2	1	0	3	4
8	B21ABS311	Skill Development Course – I	SC	Non-credit Mandatory Course				2
9	B21ABON01	MOOC	ON	0	0	2	2	4
		<b>Total Credits</b>		<b>9</b>	<b>5</b>	<b>6</b>	<b>20</b>	<b>33</b>
	<b>FOURTH SEMESTER</b>							
1	B21AHK401	Language IV: Kannada	FC	1	1	0	2	3
	B21AHH401	Language IV: Hindi						
	B21AHA401	Language IV: Additional English						
2	B21AB0401	Political Science – IV (Western and Eastern Political Thought)	HC	2	1	0	3	4
3	B21AB0402	Political Science Practical – IV	HC	0	0	2	2	4
4	B21AB0403	Economics – IV (International Economics)	HC	2	1	0	3	4
5	B21AB0404	Journalism – IV (Fundamentals of Media Research)	HC	2	1	0	3	4
6	B21AB0405	Journalism Practical - IV	HC	0	0	2	2	4
7	B21ABS411	Interdisciplinary Elective 7	SC	1	1	0	2	3
	B21ABS412	Interdisciplinary Elective 8						
	B21ABS413	Interdisciplinary Elective 9						
8	B21AB0405	Minor Research Project	HC	0	0	3	3	6
9	B21ABM401	Skill Development Course - II	M	Non-credit Mandatory Course				2
		<b>Total Credits</b>		<b>8</b>	<b>5</b>	<b>7</b>	<b>20</b>	<b>34</b>
	<b>FIFTH SEMESTER</b>							
1	B21AB0501	Political Science – V (Public Administration and Core Concepts)	HC	2	1	0	3	4
2	B21AB0502	Economics – V (Indian Economy – I)	HC	2	1	0	3	4

3	B21AB0503	Journalism -V (Media Laws & Ethics)	HC	2	1	0	3	4
4	B21ABS411	Political Science – VI (A) (International Relations)	SC	1	1	0	2	3
5	B21ABS412	Political Science – VI (B) (Comparative Government and Politics)						
6	B21ABS411(P)	Political Science Practical -VI (A) (International Relations)	SC	0	0	2	2	4
	B21ABS412(P)	Political Science Practical -VI (B)(Comparative Government and Politics)						
7	B21ABS421	Economics – VI (A) (Mathematical Methods for Economics)	SC	1	1	0	2	3
8	B21ABS422	Economics – VI (B) (Entrepreneurial Development)						
9	B21ABS431	Journalism -VI (A) (Brand Ecology)	SC	1	1	0	2	3
10	B21ABS432	Journalism -VI (B) (Fundamentals of Photography)						
11	B21ABS431(P)	Journalism Practical -VI (A) (Brand Ecology)	SC	0	0	2	2	4
	B21ABS432(P)	Journalism Practical -VI (B) (Fundamentals of Photography)						
12	B21ABM501	Soft Skills Training – I	M	0	0	2	2	4
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>33</b>
	<b>SIXTH SEMESTER</b>							
1	B21AB0601	Political Science – VII (Major Constitutional Systems)	HC	2	1	0	3	4
2	B21AB0602	Economics – VII (Indian Economy – II)	HC	2	1	0	3	4
3	B21AB0603	Journalism -VII (Advertising & Corporate Communication)	HC	2	1	0	3	4
4	B21ABS611	Political Science – VIII (A) (International Institutions and Foreign Policies)	SC	1	1	0	2	3
5	B21ABS612	Political Science – VIII (B) (Personal and Public Administration)						
6	B21ABS611(P)	Political Science Practical – VIII (A) (International Institutions and Foreign Policies)	SC	0	0	2	2	4
	B21ABS612(P)	Political Science Practical – VIII (B) (Personal and Public Administration)						
7	B21ABS621	Economics – VIII (A) (Financial Economics)	SC	1	1	0	2	3

8	B21ABS622	Economics – VIII (B) (Managerial Economics)						
9	B21ABS631	Journalism -VIII (A) (Political Communication)	SC	1	1	0	2	3
	B21ABS632	Journalism - VIII (B) (Business Journalism)						
10	B21ABS631( P)	Journalism Practical – VIII (A) (Political Communication)	SC	0	0	2	2	4
	B21ABS632( P)	Journalism Practical – VIII (B) (Business Journalism)						
11	B21ABM601	Soft Skills Training - II	M	0	0	2	2	4
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>33</b>
		<b>Total Credits of All Semesters</b>		<b>53</b>	<b>34</b>	<b>33</b>	<b>120</b>	<b>195</b>

### Semester-wise Summary of Credit Distribution

Semesters	No. of Credits
First Semester	19
Second Semester	19
Third Semester	20
Fourth Semester	20
Fifth Semester	21
Sixth Semester	21
<b>Total Credits</b>	<b>120</b>

### Distribution of Credits Based on Type of Courses

Semester	HC	SC	OE	FC	Credits
<b>I</b>	13	2	0	4	19
<b>II</b>	13	2	0	4	19
<b>III</b>	13	2	3	2	20
<b>IV</b>	16	2	0	2	20
<b>V</b>	9	12	0	0	21
<b>VI</b>	9	12	0	0	21
<b>Total</b>	<b>73</b>	<b>32</b>	<b>3</b>	<b>12</b>	<b>120</b>

### Distribution of Credits Based on L:T:P

Semester	L	T	P	Credits
<b>I</b>	9	6	4	19
<b>II</b>	9	6	4	19
<b>III</b>	9	5	6	20
<b>IV</b>	8	5	7	20
<b>V</b>	9	6	6	21
<b>VI</b>	9	6	6	21
<b>Total</b>	<b>53</b>	<b>34</b>	<b>33</b>	<b>120</b>

  
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**BA (Tourism, History, Journalism – THJ)**  
**Scheme of Instructions (2021-2024)**

Sl. No	Course Code	Title of the Course	Course Type	Credit Pattern and Value				Weekly Contact Hours
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	B21ASM201	Environmental Science	FC	Non-credit Mandatory Course				2
2	B21AHE101	Communicative English – I	FC	1	1	0	2	3
3	B21AHK101	Language – I: Kannada	FC	1	1	0	2	3
	B21AHH101	Language – I: Hindi						
	B21AHA101	Language – I: Additional English						
4	<b>B21AC0101</b>	<b>Tourism – I (Travel and Tourism Industry)</b>	HC	2	1	0	3	4
5	B21AC0102	Tourism Practical - I	HC	0	0	2	2	4
6	<b>B21AC0103</b>	<b>History – I (History of Ancient India)</b>	HC	2	1	0	3	4
7	B21AC0104	Journalism - I (Introduction to Media & Communication)	HC	2	1	0	3	4
8	B21AC0105	Journalism Practical - I	HC	0	0	2	2	4
9	B21ACS111	Interdisciplinary Elective 1	SC	1	1	0	2	3
	B21ACS112	Interdisciplinary Elective 2						
	B21ACS113	Interdisciplinary Elective 3						
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>4</b>	<b>19</b>	<b>31</b>
<b>SECOND SEMESTER</b>								
1	B21LSM101	Indian Constitution and Human Rights	FC	Non-credit Mandatory Course				2
2	B21AHE201	Communicative English – II	FC	1	1	0	2	3
3	B21AHK201	Language – II: Kannada	FC	1	1	0	2	3
	B21AHH201	Language – II: Hindi						
	B21AHA201	Language – II: Additional English						
4	<b>B21AC0201</b>	<b>Tourism – II (Tourism Products)</b>	HC	2	1	0	3	4
5	B21AC0202	Tourism Practical - II	HC	0	0	2	2	4
6	<b>B21AC0203</b>	<b>History – II (History of Medieval India)</b>	HC	2	1	0	3	4
7	B21AC0204	Journalism - II (Reporting & Editing)	HC	2	1	0	3	4
8	B21AC0205	Journalism Practical – II	HC	0	0	2	2	4
9	<b>B21ACS211</b>	<b>Interdisciplinary Elective 4</b>	SC	1	1	0	2	3
	B21ACS212	Interdisciplinary Elective 5						
	B21ACS213	Interdisciplinary Elective 6						
		<b>Total Credits</b>						

				<b>9</b>	<b>6</b>	<b>4</b>	<b>19</b>	<b>31</b>
	<b>THIRD SEMESTER</b>							
1	B21AHK301	Language – III: Kannada	FC	1	1	0	2	3
	B21AHH301	Language – III: Hindi						
	B21AHA301	Language – III: Additional English						
2	B21AC0301	Tourism – III (Travel Agency and Tour Operations Management)	HC	2	1	0	3	4
3	B21AC0302	Tourism Practical – III	HC	0	0	2	2	4
4	B21AC0303	History – III (Karnataka – Society, Economy and Culture)	HC	2	1	0	3	4
5	B21AC0304	Journalism - III (Audio-Visual Production)	HC	2	1	0	3	4
6	B21AC0305	Journalism Practical - III	HC	0	0	2	2	4
7		Open Elective	OE	2	1	0	3	4
8	B21ACM301	Skill Development Course – I	M	Non-credit Mandatory Course				2
9	B21ACONO1	MOOC	ON	0	0	2	2	4
		<b>Total Credits</b>		<b>9</b>	<b>5</b>	<b>6</b>	<b>20</b>	<b>33</b>
	<b>FOURTH SEMESTER</b>							
1	B21AHK401	Language IV: Kannada	FC	1	1	0	2	3
	B21AHH401	Language IV: Hindi						
	B21AHA401	Language IV: Additional English						
2	B21AC0401	Tourism – IV (Transport in Travel and Tourism)	HC	2	1	0	3	4
3	B21AC0402	Tourism Practical – IV	HC	0	0	2	2	4
4	B21AC0403	History – IV (History of Modern India)	HC	2	1	0	3	4
5	B21AC0404	Journalism – IV (Fundamentals of Media Research)	HC	2	1	0	3	4
6	B21AC0405	Journalism Practical - IV	HC	0	0	2	2	4
7	B21ACS411	Interdisciplinary Elective 7	SC	1	1	0	2	3
	B21ACS412	Interdisciplinary Elective 8						
	B21ACS413	Interdisciplinary Elective 9						
8	B21AC0406	Minor Research Project	HC	0	0	3	3	6
9	B21ACM401	Skill Development Course - II	M	Non-credit Mandatory Course				2
		<b>Total Credits</b>		<b>8</b>	<b>5</b>	<b>7</b>	<b>20</b>	<b>34</b>
	<b>FIFTH SEMESTER</b>							
1	B21AC0501	Tourism – V (Principles and Concepts of Hospitality Management)	HC	2	1	0	3	4

2	B21AC0502	History – V (History of India after Independence)	HC	2	1	0	3	4
3	B21AC0503	Journalism -V (Media Laws & Ethics)	HC	2	1	0	3	4
4	B21ACS511	Tourism – VI (A) (Airfare Ticketing and CRS)	SC	1	1	0	2	3
5	B21ACS512	Tourism – VI (B) (Human Resource Management)						
6	B21ACS511(P)	Tourism Practical -VI (A) (Airfare Ticketing and CRS)	SC	0	0	2	2	4
	B21ACS512(P)	Tourism Practical -VI (B) (Human Resource Management)						
7	B21ACS521	History – VI (A) (History of Modern Europe, 1789 – 1945 A.D.)	SC	1	1	0	2	3
8	B21ACS522	History – VI (B) (History of China and Japan since 1900)						
9	B21ACS531	Journalism -VI (A) (Brand Ecology)	SC	1	1	0	2	3
10	B21ACS532	Journalism -VI (B) (Fundamentals of Photography)						
11	B21ACS531(P)	Journalism Practical -VI (A) (Brand Ecology)	SC	0	0	2	2	4
	B21ACS532(P)	Journalism Practical -VI (B) (Fundamentals of Photography)						
12	B21ACM501	Soft Skills Training - I	M	0	0	2	2	4
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>33</b>
	<b>SIXTH SEMESTER</b>							
1	B21AC0601	Tourism – VII (Tourism Marketing)	HC	2	1	0	3	4
2	B21AC0602	History – VII (India and Her Neighbours)	HC	2	1	0	3	4
3	B21AC0603	Journalism -VII (Advertising & Corporate Communication)	HC	2	1	0	3	4
4	B21ACS611	Tourism – VIII (A) (Sustainable and Eco-Tourism)	SC	1	1	0	2	3
5	B21ACS612	Tourism – VIII (B) (Resort Management)						
6	B21ACS611(P)	Tourism Practical – VIII (A) (Sustainable and Eco-Tourism)	SC	0	0	2	2	4
7	B21ACS612(P)	Tourism Practical – VIII (B) (Resort Management)						
8	B21ACS621	History – VIII (A) (European History)	SC	1	1	0	2	3

9	B21ACS622	History – VIII (B) (Contemporary History of the World)						
10	B21ACS631	Journalism -VIII (A) (New Media)	SC	1	1	0	2	3
11	B21ACS632	Journalism - VIII (B) (Documentary Production)						
12	B21ACS631(P)	Journalism Practical – VIII (A) (New Media)	SC	0	0	2	2	4
13	B21ACS632(P)	Journalism Practical – VIII (B) (Documentary Production)						
14	B21ACM601	Soft Skills Training - II	M	0	0	2	2	4
		<b>Total Credits</b>		<b>9</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>33</b>
		<b>Total Credits of All Semesters</b>		<b>53</b>	<b>34</b>	<b>33</b>	<b>120</b>	<b>195</b>



### Semester-wise Summary of Credit Distribution

Semesters	No. of Credits
First Semester	19
Second Semester	19
Third Semester	20
Fourth Semester	20
Fifth Semester	21
Sixth Semester	21
<b>Total Credits</b>	<b>120</b>

### Distribution of Credits Based on Type of Courses

Semester	HC	SC	OE	FC	Credits
<b>I</b>	13	2	0	4	19
<b>II</b>	13	2	0	4	19
<b>III</b>	13	2	3	2	20
<b>IV</b>	16	2	0	2	20
<b>V</b>	9	12	0	0	21
<b>VI</b>	9	12	0	0	21
<b>Total</b>	<b>73</b>	<b>32</b>	<b>3</b>	<b>12</b>	<b>120</b>

### Distribution of Credits Based on L:T:P

Semester	L	T	P	Credits
<b>I</b>	9	6	4	19
<b>II</b>	9	6	4	19
<b>III</b>	9	5	6	20
<b>IV</b>	8	5	7	20
<b>V</b>	9	6	6	21
<b>VI</b>	9	6	6	21
<b>Total</b>	<b>53</b>	<b>34</b>	<b>33</b>	<b>120</b>

**SCHOOL OF COMPUTER SCIENCE AND APPLICATIONS**

**Bachelor of Computer Applications (BCA) Program  
Scheme of Instruction - 2021**

**FIRST SEMESTER**

Sl. No	Code	Title	HC/S C/FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1.	B21AHK102	Language –I: Kannada	FC	1	1	0	2	3
	B21AHH102	Language –I: Hindi						
	B21AHA101	Language –I: Additional English						
2.	B21AHE101	Communicative English_I	FC	1	1	0	2	3
3.	B21DA0101	Basic Mathematics	HC	4	0	0	4	4
4.	B21DA0102	Digital Logic and Computer Architecture	HC	2	1	0	3	4
5.	B21DA0103	Problem solving using C	HC	2	1	0	3	4
<b>Practical Courses</b>								
6.	B21DA0104	C Programming Lab	HC	0	0	2	2	4
7.	B21DA0105	Digital Logic Lab	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
8.	B21ASM101	Environmental Studies						
9.	B21DAM102	Skill Development Program						
<b>Total</b>				<b>10</b>	<b>4</b>	<b>4</b>	<b>18</b>	<b>26</b>

**SECOND SEMESTER**

Sl. No	Code	Title	HC/S C/FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1.	B21AHK202	Language –II: Kannada	FC	1	1	0	2	3

	B21AHH202	Language –II: Hindi						
	B21AHA201	Language –II: Additional English						
2.	B21AHE201	Communicative English – II	FC	1	1	0	2	3
3.	B21DA0201	Computer Networks	HC	4	0	0	4	4
4.	B21DA0202	Data Structures using C	HC	2	1	0	3	4
5.	B21DA0203	Object Oriented Programming using C++	HC	2	1	0	3	4
<b>Practical Courses</b>								
6.	B21DA0204	Data Structures Lab	HC	0	0	2	2	4
7.	B21DA0205	C++ Programming Lab	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
8.	B21LSM201	Indian Constitution & Professional Ethics						
9.	B21DAM202	Skill Development Program						
<b>Total</b>				<b>10</b>	<b>4</b>	<b>4</b>	<b>18</b>	<b>26</b>

### THIRD SEMESTER

Sl. No	Code	Title	HC /SC /FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1.	B21AHK302	Language –III : Kannada	FC	1	1	0	2	3
	B21AHH302	Language – III: Hindi						

	B21AHA301	Language –III: Additional English						
2.	B21DA0301	Software Engineering	HC	4	0	0	4	4
3.	B21DA0302	Java Programming	HC	2	1	0	3	4
4.	B21DA0303	Relational DBMS	HC	2	1	0	3	4
5.	B21DAS311	E-Commerce	SC	2	0	1	3	4
	B21DAS312	Design & Analysis of Algorithms						
	B21DAS313	Enterprise Resource Planning						
<b>Practical Courses</b>								
6.	B21DA0304	Java programming Lab	HC	0	0	2	2	4
7.	B21DA0305	RDBMS Lab	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
8.	B21PTM301/ B21DAM301	Soft Skills		0	0	0	0	2
9.	B21DAM302	Skill Development Program						
<b>Total</b>				11	3	5	19	29

#### FOURTH SEMESTER

Sl. No	Code	Title	HC/ SC/F C	Credit Pattern			Credits	Working Hrs
				L	T	P		
1.	B21AHK402	Language –IV : Kannada	FC	1	1	0	2	3
	B21AHH402	Language – IV: Hindi						
	B21AHA401	Language –IV: Additional English						

2	B21DA0401	Data Mining & Data Warehousing	HC	4	0	0	4	4
3	B21DA0402	Operating Systems with Linux	HC	2	1	0	3	4
4	B21DA0403	Python Programming	HC	4	0	0	4	4
5	B21DAS411	Mobile Computing	SC	2	1	0	3	4
	B21DAS412	Computer Graphics						
	B21DAS413	Artificial Intelligence						
6	B21DAS421	Cyber Security	SC	2	1	0	3	4
	B21DAS422	Advanced Computer Networks						
	B21DAS423	Advanced Java Programming						
<b>Practical Courses</b>								
7	B21DA0404	Linux Lab	HC	0	0	2	2	4
8	B21DA0405	Python Programming Lab	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
9	B21PTM401/ B21DAM401	Soft Skills		0	0	0	0	2
10	B21DAM402	Skill Development Program						
<b>Total</b>				<b>15</b>	<b>4</b>	<b>4</b>	<b>23</b>	<b>33</b>

### FIFTH SEMESTER

Sl. No	Code	Title	HC/SC/FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1.	B21DA0501	.NET Programming using C#	HC	2	1	0	3	4
2.	B21DA0502	Web Technology	HC	2	1	0	3	4
3	B21DA0503	Cloud Computing	HC	2	1	0	3	4
4.	B21DAS511	Mobile App Development	SC	2	0	1	3	4
	B21DAS512	Computer Animation						
	B21DAS513	Machine Learning						

5.	B21DAS521	Software Testing & Quality Assurance	SC	2	1	0	3	4
	B21DAS522	Network Administration						
	B21DAS523	Ethical Hacking						
6.	***	Open Elective	OE	3	0	0	3	4
<b>Practical Courses</b>								
7.	B21DA0504	.NET Programming Lab	HC	0	0	2	2	4
8.	B21DA0505	Web Technology Lab	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
9.	B21PTM501/ B21DAM501	Soft Skills		0	0	0	0	2
10	B21DAM502	Skill Development Program						
<b>Total</b>				<b>12</b>	<b>4</b>	<b>6</b>	<b>22</b>	<b>34</b>

\*\*\* Open Elective offered to other Schools

B21DAO501	Open Elective - Fundamentals of Computer Programming & Office Automation	OE	3	0	0	3	3

### SIXTH SEMESTER

Sl. No	Code	Title	HC/SC/FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	B21DA0601	Data Analytics using R	HC	3	0	1	4	4
2	B21DAS611	OOAD Using UML	SC	2	0	1	3	4
	B21DAS612	Advanced Web Technologies						
3	B21DAS621	Internet Of Things	SC	2	1	0	3	4
	B21DAS622	Digital Marketing						
4	B21DA0602	Project Work	HC	0	0	10	10	20

<b>*Mandatory - (Non Creditable Courses)</b>							
5	B21PTM601/ B21DAM601	Soft Skills	0	0	0	0	2
6	B21DAM602	Skill Development Program					
<b>Total</b>			<b>7</b>	<b>1</b>	<b>12</b>	<b>20</b>	<b>32</b>

### CREDIT SUMMARY

Semester	Credits
First	<b>18</b>
Second	<b>18</b>
Third	<b>19</b>
Fourth	<b>23</b>
Fifth	<b>22</b>
Sixth	<b>20</b>
<b>Total</b>	<b>120</b>

### CREDIT DISTRIBUTION

Sem	Hard Core (HC)	Softcore Course (SC)	FC	Open Elective(OE)	Project	Total Credits
I	14	-	4	-	-	<b>18</b>
II	14	-	4	-	-	<b>18</b>
III	14	3	2	-	-	<b>19</b>
IV	15	6	2	-	-	<b>23</b>
V	13	6	-	03	-	<b>22</b>
VI	4	6	-	-	10	<b>20</b>
	<b>74</b>	<b>21</b>	<b>12</b>	<b>3</b>	<b>10</b>	<b>120</b>

**School of Computer Science & Applications**  
**Bachelor of Science in Computer Science with specialization in**  
**Cyber Security**

**FIRST SEMESTER**

Sl. No	Code	Title	HC/ SC/ FC	Credit Pattern			Credits	Working Hrs.
				L	T	P		
1	B21AHK102	Language –I Kannada	FC				2	3
	B21AHH102	Language –I Hindi	FC	1	1	0		
	B21AHA101	Language –I Additional English	FC					
2	B21AHE101	Communicative English – I	FC	1	1	0	2	3
3	B21DC0101	Mathematical Foundations for Computer Science	HC	2	1	0	3	4
4	B21DC0102	Digital Logic and Computer Design	HC	2	1	0	3	4
5	B21DC0103	Operating system using LINUX	HC	3	0	0	3	3
6	B21DC0104	Programming fundamentals using C	HC	3	0	0	3	3
<b>Practical Courses</b>								
7	B21DC0105	C LAB	HC	0	0	2	2	4
8	B21DC0106	LINUX LAB	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
9	B21ASM101	Environmental Studies	-	0	0	0	0	2
10	B21DCM102	Skill Development Program						
<b>Total Credits</b>				<b>12</b>	<b>4</b>	<b>4</b>	<b>20</b>	<b>30</b>



## SECOND SEMESTER

Sl. No	Code	Title	HC/SC/FC	Credit Pattern			Credits	Working Hrs.
				L	T	P		
1	B21AHK202	Language –II Kannada	FC	1	1	0	2	3
	B21AHH202	Language –II Hindi	FC					
	B21AHA201	Language –II Additional English	FC					
2	B21AHE201	Communicative English-II	FC	1	1	0	2	3
3	B21DC0201	Information systems and Data Base management	HC	3	0	0	3	3
4	B21DC0202	Information security Management and Data Privacy	HC	2	1	0	3	4
5	B21DC0203	Data structures using C++	HC	3	0	0	3	3
6	B21DC0204	Data Communication and Networking	HC	2	1	0	3	4
<b>Practical Courses</b>								
7	B21DC0205	Data Structures Lab	HC	0	0	2	2	4
8	B21DC0206	DBMS LAB	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
9	B21LSM201	Constitution of India & Professional Ethics	-	0	0	0	0	2
10	B21DCM202	Skill Development Program						
<b>Total Credits</b>				<b>12</b>	<b>4</b>	<b>4</b>	<b>20</b>	<b>30</b>

### THIRD SEMESTER

SL. NO	Code	Title	HC/SC/FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	B21AHK302	Language –III Kannada	FC				2	3
	B21AHH302	Language –III Hindi	FC	1	1	0		
	B21AHA301	Language –III Additional English	FC					
2	B21DC0301	Cyber Security Essentials	HC	2	1	0	3	4
3	B21DC0302	Object Oriented Programming with JAVA	HC	3	0	0	3	3
4	B21DC0303	Software engineering and Cyber Security Engineering	HC	2	1	0	3	4
5	B21DC0304	Network security and Cryptography	HC	3	0	0	3	4
6	B21DC0305	Cloud computing and Cloud Security	HC	2	1	0	3	3
7	B21DCS311	Web technologies	SC	2	0	1	3	4
	B21DCS312	Advanced Linux						
	B21DCS313	Android Security						
<b>Practical Courses</b>								
8	B21DC0306	JAVA LAB	HC	0	0	2	2	4
9	B21DC0307	Network security LAB	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
10	B21DCM301/ B21PTM301	Soft skills	-	0	0	0	0	2
11	B21DCM302	Skill Development Program						
<b>Total Credits</b>				<b>15</b>	<b>4</b>	<b>5</b>	<b>24</b>	<b>35</b>

## FOURTH SEMESTER

SL. NO	Code	Title	HC /SC /F /C	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	B21AHK402	Language –III Kannada	FC	1	1	0	2	3
	B21AHH402	Language –III Hindi	FC					
	B21AHA401	Language –III Additional English	FC					
2	B21DC0401	Security of E-based-systems	HC	2	1	0	3	4
3	B21DC0402	Digital Watermarking and Steganography	HC	2	1	0	3	4
4	B21DC0403	Cyber and Web security using Python	HC	3	0	0	3	3
5	B21DCS411	Information Security Analysis and Audit	SC	2	1	0	3	4
	B21DCS412	Enterprise security management						
	B21DCS413	Biometrics						
6	B21DCS421	Big data Security	SC	2	1	0	3	4
	B21DCS422	Computer security and system Management						
	B21DCS423	Mobile and Adhoc network security						
<b>Practical courses</b>								
7	B21DC0404	Minor Project – 1	HC	0	0	2	2	4
8	B21DC0405	Cyber Security using Python LAB	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
9	B21DCM401/ B21PTM401	Soft skills	-	0	0	0	0	2
10	B21DCM402	Skill Development Program						
<b>Total Credits</b>				<b>12</b>	<b>5</b>	<b>4</b>	<b>21</b>	<b>32</b>

## FIFTH SEMESTER

SL. NO	Code	Title	HC/SC/FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	B21DC0501	Ethical hacking	HC	3	0	1	4	5
2	B21DC0502	Ethics and laws of cyber security	HC	2	1	0	3	4
3	B21DC0503	Malware Analysis	HC	3	0	0	3	3
4		OPEN ELECTIVE	HC	3	0	0	3	4
5	B21DCS511	Machine Learning for Cyber security	SC	2	1	0	3	4
	B21DCS512	Cybercrime and digital forensics						
	B21DCS513	Information Warfare and Security						
<b>Practical Courses</b>								
6	B21DC0504	Malware Analysis-Lab	HC	0	0	2	2	4
7	B21DC0505	Minor project -II	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
8	B21DCM501 /B21PTM501	Soft skills	-	0	0	0	0	2
9	B21DCM502	Skill Development Program						
<b>Total Credits</b>				<b>13</b>	<b>2</b>	<b>5</b>	<b>20</b>	<b>30</b>

### Open Elective Courses offered to other Schools

Sl. No	Code	Title	HC/SC/OE	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	B21DCO501	Introduction to networks and cyber security	OE	3	0	0	3	3

## SIXTH SEMESTER

S.NO	Code	Title	H C/ SC /F C	Credit Pattern			Credi ts	Working Hrs
				L	T	P		
1	B21DC0601	Block Chain and Cryptocurrency Technology	H C	3	0	1	4	5
2	B21DCS611	Disaster Recovery	SC	3	0	0	3	4
	B21DCS612	Cognitive Psychology in Cyber security						
	B21DCS613	Server Hardening						
<b>Practical Courses</b>								
3	B21DC0602	MAJOR PROJECT	H C	0	0	8	8	16
<b>*Mandatory - (Non Creditable Courses)</b>								
4	B21DCM601/ B21PTM601	Soft skills	-	0	0	0	0	2
5	B21DCM602	Skill Development Program						
<b>Total Credits</b>				<b>6</b>	<b>0</b>	<b>9</b>	<b>15</b>	<b>27</b>

## CREDIT SUMMARY

Semester	Credits
First	20
Second	20
Third	24
Fourth	21
Fifth	20
Sixth	15
<b>Total</b>	<b>120</b>

## CREDIT DISTRIBUTION

Semester	Hard Core (HC)	Fundamental Core (FC)	Soft Core (SC)	Open Elective (OE)	Minor/ Major Project	Total Credits
I	16	4	--	--	--	<b>20</b>
II	16	4	--	--	--	<b>20</b>
III	19	2	3	--	--	<b>24</b>
IV	13	2	6	--	2	<b>21</b>
V	12	--	3	3	2	<b>20</b>
VI	4	--	3	--	8	<b>15</b>
<b>Total</b>	<b>78</b>	<b>12</b>	<b>15</b>	<b>3</b>	<b>12</b>	<b>120</b>

**\*\* Note:** Non \_Creditable course: -> Skill Development Programme in all semesters

  
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Bengaluru - 560 064

# School of Computer Science and Applications

## Scheme 2021-2024

### Bachelor of Science in Computer Science with specialization in Multimedia and Animation

#### FIRST SEMESTER

SL. NO	Code	Title	HC/ SC/ FC	Credit Pattern			Credits	Working Hrs.
				L	T	P		
1	B21AHK102	Language –I Kannada	FC	1	1	0	2	3
	B21AHH102	Language –I Hindi	FC					
	B21AHA101	Language –I Additional English	FC					
2	B21AHE101	Communicative English- I	FC	1	1	0	2	3
3	B21DD0101	Art & 2D Animation-I	HC	2	0	2	4	6
4	B21DD0102	Graphic Design Fundamentals	HC	2	0	0	2	2
5	B21DD0103	Introduction to Python Programming	HC	2	0	0	2	2
6	B21DD0104	UI/UX-I	HC	2	0	1	3	4
<b>Practical Courses</b>								
7	B21DD0105	Graphic Design Fundamentals Lab	HC	0	0	2	2	4
8	B21DD0106	Python Programming lab	HC	0	0	2	2	4
<b>*Mandatory - (Non Creditable Courses)</b>								
9	B21ASM101	Environmental Studies	-	0	0	0	0	2
10	B21DDM102	Skill Development Program						
<b>Total Credits</b>				<b>10</b>	<b>2</b>	<b>7</b>	<b>19</b>	<b>30</b>

## SECOND SEMESTER

SL. NO	Code	Title	HC/ SC / FC	Credit Pattern			Credits	Working Hrs.
				L	T	P		
1	B21AHK202	Language –II Kannada	FC	1	1	0	2	3
	B21AHH202	Language –II Hindi	FC					
	B21AHA201	Language –II Additional English	FC					
2	B21AHE201	Communicative English-II	FC	1	1	0	2	3
3	B21DD0201	Art & 2D Animation-II	HC	2	0	2	4	6
4	B21DD0202	Web Designing	HC	2	0	0	2	2
5	B21DD0203	UI/UX-II	HC	2	0	0	2	2
6	B21DD0204	SEO & Analytics	HC	2	0	0	2	2
<b>Practical Courses</b>								
7	B21DD0205	Web Designing Lab	HC	0	0	2	2	4
8	B21DD0206	UI/UX-II lab	HC	0	0	2	2	4
9	B21DD0207	Mini Project-I	HC	0	0	4	4	8
<b>*Mandatory - (Non Creditable Courses)</b>								
9	B21LSM201	Constitution of India & Professional Ethics	-	0	0	0	0	2
10	B21DDM202	Skill Development Program						
<b>Total Credits</b>				<b>10</b>	<b>2</b>	<b>10</b>	<b>22</b>	<b>36</b>



### THIRD SEMESTER

SL. NO	Code	Title	HC/SC/FC	Credit Pattern			Credits	Working Hrs	
				L	T	P			
1	B21AHK302	Language –III Kannada	FC	1	1	0	2	3	
	B21AHH302	Language –III Hindi	FC						
	B21AHA301	Language –III Additional English	FC						
2	B21DD0301	Digital Modeling	HC	2	0	0	2	2	
3	B21DD0302	Texturing and Rendering	HC	2	0	2	4	6	
4	B21DD0303	Character Rigging	HC	2	0	2	4	6	
5	B21DD0304	Audio Video Editing	HC	2	0	0	2	2	
6	B21DD0305	Virtual Reality & Augmented Reality	HC	2	0	0	2	2	
<b>Practical Courses</b>									
7	B21DD0306	Digital Modeling Lab	HC	0	0	2	2	4	
8	B21DD0307	Audio Video Editing Lab	HC	0	0	2	2	4	
<b>*Mandatory - (Non Creditable Courses)</b>									
9	B21DDM301/ B21PTM301	Soft skills	-	0	0	0	0	2	
10	B21DDM302	Skill Development Program							
<b>Total Credits</b>				<b>11</b>	<b>1</b>	<b>8</b>	<b>20</b>	<b>31</b>	

## FOURTH SEMESTER

SL. NO	Code	Title	HC /SC /FC	Credit Pattern			Credits	Working Hrs
				L	T	P		
1	B21AHK402	Language –III Kannada	FC	1	1	0	2	3
	B21AHH402	Language –III Hindi	FC					
	B21AHA401	Language –III Additional English	FC					
2	B21DD0401	3D Animation	HC	2	0	0	2	2
3	B21DD0402	VFX - I	HC	2	0	0	2	2
4	B21DD0403	Game Design -I	HC	2	0	2	4	6
5	B21DDS411	Advanced Rendering	SC	1	1	1	3	5
	B21DDS412	Advanced Modeling						
6	B21DDS421	Programing in C#	SC	2	0	1	3	4
	B21DDS422	Programing in C++						
<b>Practical courses</b>								
7	B21DD0404	3D Animation Lab	HC	0	0	2	2	4
8	B21DD0405	VFX -I Lab	HC	0	0	2	2	4
9	B21DD0406	Mini Project-II	HC	0	0	4	4	8
<b>*Mandatory - (Non Creditable Courses)</b>								
9	B21DDM401/ B21PTM401	Soft skills	-	0	0	0	0	2
10	B21DDM402	Skill Development Program						
<b>Total Credits</b>				<b>10</b>	<b>2</b>	<b>12</b>	<b>24</b>	<b>40</b>

## FIFTH SEMESTER

S.N O	Code	Title	HC/ SC/ FC	Credit Pattern			Credit s	Work ing Hrs
				L	T	P		
1	B21DD0501	VFX - II	HC	2	0	0	2	4
2	B21 DD0502	Rotoscopy	HC	1	1	1	3	5
3	B21 DD0503	Game Design- II	HC	2	0	0	2	2
4		Open Elective	OE	3	0	0	3	3
5	B21DDS511	Movie Pre- Visualization	SC	2	0	1	3	4
	B21DDS512	Crowd Simulation						
6	B21 DD0521	Animation – Match Moving and Camera Tracking	SC	2	0	1	3	4
	B21 DD0522	VFX – Dynamics and Simulation						
<b>Practical Courses</b>								
7	B21 DD0504	VFX -II Lab	HC	0	0	2	2	4
8	B21 DD0505	Game design -II Lab	HC	0	0	2	2	4
<b>*Mandatory - (Non-Creditable Courses)</b>								
9	B21DDM501/ B21PTM501	Soft skills						
10	B21DDM502	Skill Development Programme						
<b>Total Credits</b>				<b>12</b>	<b>1</b>	<b>07</b>	<b>20</b>	<b>30</b>

### Open Elective Courses offered to other Schools

Sl. No	Code	Title	HC/SC / OE	Credit Pattern			Credit s	Worki ng Hrs
				L	T	P		
1	B21DDO501	Audio - Video Editing & VFX	OE	2	0	1	3	4

## SIXTH SEMESTER

S.NO	Code	Title	HC/ SC /FC	Credit Pattern			Credits	Working Hrs	
				L	T	P			
1	B21DD0601	Game Design-III	HC	2	0	0	2	2	
2	B21DDS611	Game Testing	SC	2	0	1	3	4	
	B21DDS612	Game Development							
<b>Practical Courses</b>									
3	B21DD0602	Game Design-III Lab	HC	0	0	2	2	4	
4	B21DD0603	<b>Major Project</b>	HC	0	0	8	8	16	
<b>*Mandatory - (Non Creditable Courses)</b>									
4	B21DDM601/ B21PTM601	Soft skills -	0	0	0	0	0	2	
5	B21DDM602	Skill Development Program							
<b>Total Credits</b>				<b>4</b>	<b>0</b>	<b>11</b>	<b>15</b>	<b>28</b>	

## CREDIT SUMMARY

S.NO	SEMESTER DETAILS	CREDIT TOTALS
1	SEMESTER-I	19
2	SEMESTER-II	22
3	SEMESTER-III	20
4	SEMESTER-IV	24
5	SEMESTER-V	20
6	SEMESTER-VI	15
	<b>TOTAL CREDITS</b>	<b>120</b>

## CREDIT DISTRIBUTION

Semester	Hard Core (HC)	Fundamental Core (FC)	Soft Core (SC)	Open Elective (OE)	Mini/Major Project (HC)	Total Credits
I	15	04	--	--	--	<b>19</b>
II	14	04	--	--	04	<b>22</b>
III	18	02	--	--	--	<b>20</b>
IV	12	02	06	--	04	<b>24</b>
V	11	--	06	03	--	<b>20</b>
VI	04	--	03	--	8	<b>15</b>
<b>Total</b>	<b>74</b>	<b>12</b>	<b>15</b>	<b>03</b>	<b>16</b>	<b>120</b>

**\*\* Note:** Non \_Creditable course: -> Skill Development Programme in all semesters

## B A (Performing Arts, English and Psychology - PaEP)

### Scheme of Instructions (Effective for Academic Year 2021-24)

Sl. No.	Course Code	Course Title	Course Type	Credit Pattern				Weekly Contact Hours
				L	T	P	C	
<b>FIRST SEMESTER</b>								
1	B21PAK103	Language – II: Kannada I	FC	1	1	0	2	3
2	B21PAH103	Language – II: Hindi I						
3	B21PAA103	Language – II: Additional English I						
4	B21PAE101	Communicative English – I	FC	1	1	0	2	3
5	B21LSM102	Indian Constitution and Human Rights	MC	0	0	0	0	2
5	B21IAS111	History of Indian Dance	SC	3	0	0	3	3
6	B21IAS112	Music theory 1 (Karnatik Music)						
7	B21IAS113	Music Theory 1 (Hindustani Music)						
8	B21IAS114	Fundamentals Of Theatre Art						
9	B21IAS121	Practical-1 Fundamentals of Bharathanatyam	SC	1	0	2	3	4
10	B21IAS122	Practical – 1 Fundamentals of Kuchipudi						
11	B21IAS123	Practical -1 Fundamentals of Dance Mohiniyattam						
12	B21IAS124	Practical-1 Fundamentals of Dance Odissi						
13	B21IAS125	Practical-1 Fundamentals of Dance Kathak						
14	B21IAS126	Practical-1 Fundamentals of Carnatic Music						
15	B21IAS127	Practical -1 Fundamentals Of Hindustani Music						
16	B21IAS128	Practical-1Fundamental of Acting in Theatre						
17	B21EN0102	English Literature (Chaucer – Pope) & Language – I	HC	3	0	0	3	3
18	B21PY0102	Psychology -I (Basic Psychological Process – I)	HC	3	0	0	3	3
19	B21PY0103	Psychology Practical –I	HC	0	0	2	2	2
10	B21PAM101	Skill Development	MC	-	-	-	-	-

<b>Total</b>			12	2	4	18	23	
<b>SECOND SEMESTER</b>								
1	B21PAK203	Language-II: Kannada II	FC	1	1	0	2	3
2	B21PAH203	Language-II: Hindi II						
3	B21PAA203	Language-II: Additional English II						
4	B21ASM201	Environmental Studies	MC	0	0	0	0	2
5	B21PAE201	Communicative English – II	HC	1	1	0	2	3
6	B21IAS211	Natya Sastra and Performing Arts	SC	3	0	0	3	3
7	B21IAS212	Music theory 2 (Karnatik Music)						
8	B21IAS213	Music theory 2 (Hindustani Music)						
9	B21IAS214	History of World Theater						
10	B21IAS221	Practical 2 -Bharatanatyam	SC	1	0	2	3	4
11	B21IAS222	Practical 2 –Kuchipudi						
12	B21IAS223	Practical 2- Mohiniyattam						
13	B21IAS224	Practical 2 -Odissi						
14	B21IAS225	Practical 2- Kathak						
15	B21IAS226	Practical 2-Carnatic Music						
16	B21IAS227	Practical-2 Hindustani Music						
17	B21IAS228	Practical 2– Design in Theater and Acting Advance I						
18	B21EN0202	English Literature (The Romantic Age) and Language II	HC	3	0	0	3	3
19	B21PY0203	Psychology -II (Basic Psychological Process – II)	HC	3	0	0	3	3
20	B21PY0204	Psychology Practical -II	HC	0	0	2	2	2
21	B21IAS231	Folklore Study – Folk Dance	SC	1	0	1	2	3
22	B21IAS232	Folklore Study – Folk Music	SC					
23	B21IAS233	Folklore Study – Folk Theatre	SC					
<b>Total</b>				13	2	5	20	26

### THIRD SEMESTER

1	B21PAK303	Language–II: Kannada III	FC	1	1	0	2	3
2	B21PAH303	Language–II: Hindi III		2	2	0	2	3
3	B21PAA303	Language–II: Additional English III		2	2	0	2	3
4	B21IAS311	Rasa Theory and its implications in Performing Arts	SC	3	0	0	3	3
5	B21IAS312	Music Theory 3 (Carnatic Music)		3	0	0	3	3
6	B21IAS313	Music Theory 3 (Hindustani Music)		3	0	0	3	3
7	B21PAS314	Kannada , Children and Eastern Theatre History	SC	1	0	2	3	4
8	B21IAS321	Practical 3 -Bharatanatyam		1	0	2	3	4
9	B21IAS322	Practical 3 –Kuchipudi		1	0	2	3	4
10	B21IAS323	Practical 3 –Mohiniyattam		1	0	2	3	4
11	B21IAS324	Practical 3 – Odissi		1	0	2	3	4
12	B21IAS325	Practical 3 – Kathak		1	0	2	3	4
13	B21IAS326	Practical 3 -Carnatic Music		1	0	2	3	4
14	B21IAS327	Practical 3 - Hindustan Music		1	0	2	3	4
15	B21IAS328	Practical 3 -Design in Theater and Major Production	1	0	2	3	4	
16	B21EN0302	English Literature (Victorian & Modern) & Language- III	HC	3	0	0	3	3
17	B21PY0302	Psychology -III (Social Psychology)	HC	3	0	0	3	3
18	B21PY0303	Psychology Practical -III	HC	0	0	2	2	2
19	B21PAM301	Skill Development – 2 (Indian Classical Dance Make up)	MC	-	-	-	-	-
20	B21PAO301	Open Elective	OE	0	0	3	3	4
21	B21PA0303	Internship in Performing Arts	HC	-	-	-	2	-
<b>Total</b>				11	1	7	21	22



### FOURTH SEMESTER

1	B21PAK403	Language–II Kannada IV	SC	1	1	0	2	3
2	B21PAH403	Language–II Hindi IV						
3	B21PAA403	Language–II Additional English IV						
4	B21IAS411	Textual Traditions in Performing Arts	SC	3	0	0	3	3
5	B21IAS412	Music Theory 4 (Karnatik Music)						
6	B21IAS413	Music Theory 4 (Hindustani Music)						
7	B21IAS414	Theatre architecture and developments of theatre						
8	B21IAS421	Practical 4- Bharatanatyam	SC	1	0	2	3	4
9	B21IAS422	Practical 4 –Kuchipudi						
10	B21IAS423	Practical 4- Mohiniyattam						
11	B21IAS424	Practical 4- Odissi						
12	B21IAS425	Practical 4- Kathak						
13	B21IAS426	Practical 4–CarnaticVocal						
14	B21IAS427	Practical 4 -Hindustani Vocal						
15	B21IAS428	Practical 4– Political Theatre						
16	B21EN0402	Reading India	HC	3	0	0	3	3
17	B21PY0402	Psychology -IV (Developmental Psychology – IV)	HC	3	0	0	3	3
18	B21PY0403	Psychology Practical –IV	HC	0	0	2	2	4
19	B21PAM401	MOOC (SELF STUDY)	MC	2	0	0	0	-
<b>Total</b>				14	1	4	16	18

### FIFTH SEMESTER

1	B21IAS511	Traditions and Innovations in Performing Arts	SC	3	0	0	3	3
2	B21IAS512	Music Theory 5 (Carnatic Music)						
	B21IAS513	Music Theory 5 (Hindustani Music)						
3	B21IAS514	Theatre aesthetics and play writing	SC	1	0	2	3	4
4	B21IAS521	Practical 5-Bharathanatyam						
5	B21IAS522	Practical 5 –Kuchipudi						
6	B21IAS523	Practical 5- Mohiniyattam						
7	B21IAS524	Practical 5- Odissi						

8	B2IIAS525	Practical 5- Kathak							
9	B2IIAS526	Practical 5- Carnatic Vocal							
10	B2IIAS527	Practical 5- Hindustani Vocal							
11	B2IIAS528	Practical 5 -Theatre Acting Advance III							
12	B2IEN0502	Literary Criticism	HC	3	0	0	3	3	
13	B2ENS531	Literatures of India – I	SC	3	0	0	3	3	
14	B2IENS532	Reading Myths and Mythologies							
15	B21PY0502	Psychology – V(Abnormal Psychology – I)	HC	3	0	0	3	3	
18	B21PYS541	Psychology –VI (A) Indigenous Psychology- An Indian Perspective-I	SC	3	0	0	3	3	
19	B21PYS542	Psychology – VI (B) Health Psychology – I							
16	B21PY0503	Psychology Practical- V	HC	0	0	2	2	2	
17	B21PYS543	Psychology Practical – VI	SC	0	0	1	1	2	
20	B21PAM501	Skill Development	MC	-	-	-	-	-	
<b>Total</b>					16	0	5	21	23

### SIXTH SEMESTER

1	B2IIAS611	Aesthetics						
2	B2IIAS612	Music Theory 6 (Karnatik Music)	SC	3	0	0	3	3
3	B2IIAS613	Music Theory 6 (Hindustani Music)						
4	B2IIAS614	Theatre direction						
5	B2IIAS621	Practical 6-Bharathanatyam	SC	1	0	2	3	4
6	B2IIAS622	Practical 6- Kuchipudi						
7	B2IIAS623	Practical 6- Mohiniyattam						
8	B2IIAS624	Practical 6 -Odissi						
9	B2IIAS625	Practical 6 -Kathak						
10	B2IIAS626	Practical 6- Karnatik Vocal						
11	B2IIAS627	Practical 6- Hindustani Vocal						
12	B2IIAS628	Practical 6 – Theatre						
13	B2IEN0602	Introduction to Critical Theory	HC	3	0	0	3	3
14	B2IENS631	Literatures from India – II	SC	3	0	0	3	3
15	B2IENS632	Revisionist Writings						
16	B21PY0602	Psychology –VII (Abnormal Psychology – II)	HC	3	0	0	3	3

17	B21PYS641	Psychology –VIII (A) (Indigenous Psychology- An Indian Perspective-II)	SC	3	0	0	3	3
18	B21PYS642	Psychology –VIII (B) Health Psychology – II						
19	B21PY0603	Psychology practical- VII	HC	0	0	2	2	2
20	B21PYS643	Psychology practical - VIII	HC	0	0	1	1	2
21	B21PAM601	Field Trip	MC	-	-	-	-	-
22	B21PA0601	Dissertation	HC	0	0	0	3	-
<b>Total</b>				16	0	5	24	23

  
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**B. Sc – PCM**  
**(Physics, Chemistry, Mathematics)**  
**Scheme of Instruction and Detailed Syllabus**  
**(Effective from the Academic Year 2021-24)**

**Scheme of Instruction**

**Duration: 6 Semesters (3 Years)**

Sl. No	Course Code	Title of the Course	CC/FC/HC/SC	Credit Pattern				Hours
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	B21AHK101	Language – II: Kannada-I	FC	1	1	0	2	3
2	B21AHH101	Language – II: Hindi-I						
3	B21AHA101	Language – II: Additional English-I						
4	B21AHE101	Communicative English-I	FC	1	1	0	2	3
5	B21MT0101	Mathematics-I	HC	3	0	0	3	4
6	B21PH0101	Mechanics and Properties of matter	HC	3	0	0	3	4
7	B21CH0101	Chemistry-I	HC	3	0	0	3	4
8	B21MTS111	Elementary Number Theory	SC	3	0	0	3	4
9	B21MTS112	Discrete Mathematics and Graph theory						
10	B21MTS113	Fuzzy Mathematics						
11	B21LSM101	Constitution of India and Professional Ethics	MC	0	0	0	0	2
		<b>Practicals</b>						
12	B21MT0102	Mathematics practicals-I	HC	0	0	1.5	1.5	3
13	B21PH0102	Physics Practical-I	HC	0	0	1.5	1.5	3
14	B21CH0102	Chemistry Practical-I	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>14</b>	<b>2</b>	<b>4.5</b>	<b>20.5</b>	<b>33</b>
<b>SECOND SEMESTER</b>								
15	B21AHK201	Language – II: Kannada-II	FC	1	1	0	2	3
16	B21AHH201	Language – II: Hindi-II						
17	B21AHA201	Language – II: Additional English-II						
18	B21AHE201	Communicative English - II	FC	1	1	0	2	3
19	B21MT0201	Mathematics-II	HC	3	0	0	3	4
20	B21PH0201	Heat and Thermodynamics	HC	3	0	0	3	4
21	B21CH0201	Chemistry-II	HC	3	0	0	3	4
22	B21PHS211	Physics of Clouds	SC	3	0	0	3	4
23	B21PHS212	Renewable Energy Resource						
24	B21PHS213	Lasers and Fibre Optics						
25	B21ASM201	Environmental Science	MC	0	0	0	0	2
		<b>Practicals</b>						
26	B21MT0202	Mathematics practicals-II	HC	0	0	1.5	1.5	3
27	B21PH0202	Physics Practical-II	HC	0	0	1.5	1.5	3
28	B21CH0202	Chemistry Practical-II	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>14</b>	<b>2</b>	<b>4.5</b>	<b>20.5</b>	<b>33</b>

<b>THIRD SEMESTER</b>								
29	B21AHK301	Language – II: Kannada-III	FC	1	1	0	2	3
30	B21AHH301	Language – II: Hindi-III						
31	B21AHA301	Language – II: Additional English-III						
32	B21MT0301	Mathematics-III	HC	3	0	0	3	4
33	B21PH0301	Optics and spectroscopy	HC	3	0	0	3	4
34	B21CH0301	Chemistry-III	HC	3	0	0	3	4
35	B21CHS311	Heterocyclic Chemistry & Chemistry of Natural Products	SC	3	0	0	3	4
36	B21CHS312	Polymer Chemistry						
37	B21CHS313	Solid State Chemistry						
38		NCC	OE	3	0	0	3	3
39	B21ASO301	Classical Optimization						
40	B21ASO303	Physics in Everyday Life						
41	B21ASO304	Water Technology	SC	0	0	0	0	2
42	B21SGM301	Skill Development Program						
		<b>Practicals</b>						
43	B21MT0302	Mathematics practicals-III	HC	0	0	1.5	1.5	3
44	B21PH0302	Physics Practical-III	HC	0	0	1.5	1.5	3
45	B21CH0302	Chemistry Practical-III	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>16</b>	<b>1</b>	<b>4.5</b>	<b>21.5</b>	<b>33</b>
<b>FOURTH SEMESTER</b>								
46	B21AHK401	Language – II: Kannada-IV	FC	1	1	0	2	3
47	B21AHH401	Language – II: Hindi-IV						
48	B21AHA401	Language – II: Additional English-IV						
49	B21MT0401	Mathematics-IV	HC	3	0	0	3	4
50	B21PH0401	Electricity and Electromagnetism	HC	3	0	0	3	4
51	B21CH0401	Chemistry-IV	HC	3	0	0	3	4
52	B21MTS411	Complex Analysis	SC	3	0	0	3	4
53	B21MTS412	Operations Research						
54	B21MTS413	Topology						
55	B21PTM401	Soft Skill Training	MC	0	0	0	0	2
56	B21SGM401	Skill Development Program	MC	0	0	0	0	2
		<b>Practicals</b>						
57	B21MT0402	Mathematics practicals-IV	HC	0	0	1.5	1.5	3
58	B21PH0402	Physics Practical-IV	HC	0	0	1.5	1.5	3
59	B21CH0402	Chemistry Practical-IV	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>13</b>	<b>1</b>	<b>4.5</b>	<b>18.5</b>	<b>32</b>
<b>FIFTH SEMESTER</b>								
60	B21MT0501	Mathematics-V	HC	3	0	0	3	4
61	B21PH0501	Quantum Mechanics and Nuclear Physics	HC	3	0	0	3	4
62	B21CH0501	Chemistry-V	HC	3	0	0	3	4
63	B21PHS511	Astronomy and Astro Physics	SC	3	0	0	3	4
64	B21PHS512	Nano Materials						
65	B21PHS513	Optoelectronics						
66	B21SGON01	MOOC/SWAYAM	SC	2	0	0	2	2

67	B21SGM501	Skill Development Program	MC	0	0	0	0	2
		<b>Practicals</b>						
68	B21MT0502	Mathematics practicals-V	HC	0	0	0	1.5	3
69	B21PH0502	Physics Practical-V	HC	0	0	0	1.5	3
70	B21CH0502	Chemistry Practical-V	HC	0	0	0	1.5	3
		<b>Total Credits</b>		<b>14</b>	<b>0</b>	<b>4.5</b>	<b>18.5</b>	<b>29</b>
<b>SIXTH SEMESTER</b>								
71	B21MT0601	Mathematics-VI	HC	3	0	0	3	4
72	B21PH0601	Solid State Physics	HC	3	0	0	3	4
73	B21CH0601	Chemistry-VI	HC	3	0	0	3	4
74	B21CHS611	Industrial Chemistry	SC	3	0	0	3	4
75	B21CHS612	Chemistry of Bio Molecules						
76	B21CHS613	Electro Analytical Chemistry						
77	B21SG0601	Project	HC	0	0	4	4	8
		<b>Practicals</b>						
78	B21MT0602	Mathematics practicals-VI	HC	0	0	1.5	1.5	3
79	B21PH0602	Physics Practical-VI	HC	0	0	1.5	1.5	3
80	B21CH0602	Chemistry Practical-VI	HC	0	0	1.5	1.5	3
		<b>Total Credits</b>		<b>12</b>	<b>0</b>	<b>8.5</b>	<b>20.5</b>	<b>33</b>
		<b>Total Credits of all Semesters</b>					<b>120</b>	<b>193</b>

#### Semester-wise Summary of Credit Distribution

Semester	L	T	P	Total	Total Hours
I	14	2	4.5	20.5	33
II	14	2	4.5	20.5	33
III	16	1	4.5	21.5	33
IV	13	1	4.5	18.5	32
V	14	0	4.5	18.5	29
VI	12	0	8.5	20.5	33
<b>Total Credits</b>	<b>831</b>	<b>6</b>	<b>31</b>	<b>120</b>	<b>193</b>

  
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**B.Sc. (Bioinformatics) Program  
(Bioinformatics, Statistics, Computer Science)**

**Scheme of Instruction and Detailed Syllabus  
(Effective from Academic Year 2021-24)**

**Scheme of Instruction**

**Duration: 6 Semesters (3 years)**

S. No	Course code	Title of the Course	HC / SC/	Credit Pattern				Hours/ week
				L	T	P	Total	
<b>FIRST SEMESTER</b>								
1	B21AHK101	Language-I: Kannada-I	FC	1	1	0	2	3
	B21AHH101	Language-I: Hindi-I						
	B21AHA101	Language-I: Additional English-I						
2	B21AHE101	Communication English -I	FC	1	1	0	2	3
3	B21BI0101	Biochemistry & Microbiology	HC	3	0	0	3	4
4	B21ST0103	Fundamental Mathematics-I	HC	3	0	0	3	4
5	B21CP0101	Programming in C	HC	3	0	0	3	4
6	B21STS111	Discrete Mathematics & Algebra	SC	3	0	0	3	4
	B21STS112	Logic and Graph Theory						
7	B21LSM101	Constitution of India and Professional Ethics	MC	0	0	0	0	2
8	B21BI0102	Lab- Biochemistry & Microbiology	HC	0	0	1.5	1.5	3
9	B21ST0104	Lab- Fundamental Mathematics-I	HC	0	0	1.5	1.5	3
10	B21CP0102	C Programming Lab	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>14</b>	<b>2</b>	<b>4.5</b>	<b>20.5</b>	<b>33</b>
<b>SECOND SEMESTER</b>								
11	B21AHK201	Language-II: Kannada-II	FC	1	1	0	2	3
	B21AHH201	Language-II: Hindi-II						
	B21AHA201	Language-II: Additional English-II						
12	B21AHE201	Communicative English-II	FC	1	1	0	2	3
13	B21BI0201	Cell & Molecular Biology	HC	3	0	0	3	4
14	B21ST0203	Fundamental Mathematics-II	HC	3	0	0	3	4
15	B21CP0201	Programming in Python	HC	3	0	0	3	4
16	B21CPS211	Data communication and Networks	SC	3	0	0	3	4
	B21CPS212	Multimedia computing						
17	B21ASM201	Environmental Science	MC	0	0	0	0	2
18	B21BI0202	Lab- Cell & Molecular Biology	HC	0	0	1.5	1.5	3
19	B21ST0204	Lab- Fundamental Mathematics-II	HC	0	0	1.5	1.5	3
20	B21CP0202	Programming in Python Lab-II	HC	0	0	1.5	1.5	3
<b>Total credits</b>				<b>14</b>	<b>02</b>	<b>4.5</b>	<b>20.5</b>	<b>33</b>
<b>THIRD SEMESTER</b>								
21	B21AHK301	Language-III: Kannada-III	FC	1	1	0	2	3
	B21AHH301	Language-III: Hindi-III						
	B21AHA301	Language-III: Additional English-III						
22	B21BI0301	Applied Bioinformatics	HC	3	0	0	3	4
23	B21ST0303	Basic Biostatistics	HC	3	0	0	3	4
24	B21CP0301	Relational Database Management Systems	HC	3	0	0	3	4
25	B21BIS311	Bioinformatics Algorithms	SC	3	0	0	3	4
	B21BIS312	Systems Biology						
26	B2ASO302	Open Elective-Health & Hygiene	OE	3	0	0	3	4
27	B21BIM301	Skill Enhancement Course	MC	0	0	0	0	2
28	B21BI0302	Lab- Applied Bioinformatics	HC	0	0	1.5	1.5	3
29	B21ST0304	Lab- Biostatistics	HC	0	0	1.5	1.5	3
30	B21CP0302	RDBMS Lab-III	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>16</b>	<b>01</b>	<b>4.5</b>	<b>21.5</b>	<b>34</b>

**Note:** Open elective offered by School of Biotechnology, Health & Hygiene shall be opted by other schools. B. Sc Bioinformatics students shall have to opt Open Elective course offered by other schools.

<b>FOURTH SEMESTER</b>								
31	B21AHK401	Language-IV: Kannada-IV	FC	1	1	0	2	3
	B21AHH401	Language-IV: Hindi-IV						
	B21AHA401	Language-IV: Additional English-IV						
32	B21BI0401	Bioperl & Biopython	HC	3	0	0	3	4
33	B21ST0403	Statistical Inference	HC	3	0	0	3	4
34	B21CP0401	Unix and Shell Programming	HC	3	0	0	3	4
35	B21STS411	Industrial Statistics	SC	3	0	0	3	4
	B21STS412	Sampling methods & official statistics						
36	B21PTM401	Soft skill training (Mandatory)	MC	0	0	0	0	2
37	B21BIM401	Skill development program	MC	0	0	0	0	2
38	B21BI0402	Lab- Bioperl & Biopython	HC	0	0	1.5	1.5	3
39	B21ST0404	Lab- Biostatistics inference	HC	0	0	1.5	1.5	3
40	B21CP0402	Unix & shell programming Lab	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>13</b>	<b>01</b>	<b>4.5</b>	<b>18.5</b>	<b>32</b>
<b>FIFTH SEMESTER</b>								
41	B21BI0501	Computational drug discovery	HC	3	0	0	3	4
42	B21ST0503	Linear models	HC	3	0	0	3	4
43	B21CP0501	Basics of Web programming	HC	3	0	0	3	4
44	B21CPS511	Software engineering	SC	3	0	0	3	4
	B21CPS512	Cryptography & Network security						
45	B21SAON01	MOOC/ SWAYAM	SEC	2	0	0	2	2
46	B21BIM501	Skill Enhancement program	MC	0	0	0	0	2
47	B21BI0502	Lab- Computational drug discovery	HC	0	0	1.5	1.5	3
48	B21ST0504	Lab- Sapling methods & official statistics	HC	0	0	1.5	1.5	3
49	B21CP0502	Basics of Web programming Lab	HC	0	0	1.5	1.5	3
<b>Total Credits</b>				<b>14</b>	<b>0</b>	<b>4.5</b>	<b>18.5</b>	<b>29</b>
<b>SIXTH SEMESTER</b>								
50	B21BI0601	Genomics & Proteomics	HC	3	0	0	3	4
51	B21ST0601	Operation Research	HC	3	0	0	3	4
52	B21CP0601	Data Mining & Data warehousing	HC	3	0	0	3	4
53	B21BIS611	Medical informatics	SC	3	0	0	3	4
	B21BIS612	AI techniques in Biology						
54	B21BI0602	Bioinformatics Project	HC	0	0	5.5	5.5	12
55	B21BI0603	Lab- Genomics & Proteomics	HC	0	0	1.5	1.5	3
56	B21CP0602	Machine learning Lab	HC	0	0	1.5	1.5	3
<b>Total credits</b>				<b>12</b>	<b>0</b>	<b>8.5</b>	<b>20.5</b>	<b>33</b>
<b>Total credits of all semesters</b>				<b>59</b>	<b>30</b>		<b>120</b>	<b>194</b>

#### Semester-wise Summary of Credit Distribution

Semester	L	T	P	Credits	Hours
First	14	2	4.5	20.5	33
Second	14	2	4.5	20.5	33
Third	16	1	4.5	21.5	34
Fourth	13	1	4.5	18.5	32
Fifth	14	0	4.5	18.5	29
Sixth	12	0	8.5	20.5	33
<b>Total</b>	<b>59</b>	<b>30</b>	<b>31</b>	<b>120</b>	<b>196</b>



**Distribution of Credits Based on Type of Courses**

<b>Semester</b>	<b>Foundation Course (FC)</b>	<b>Hard Core (HC)</b>	<b>Soft Core (SC)</b>	<b>Open Elective (OE)</b>	<b>SEC</b>	<b>Total Credits</b>
First	4	13.5	3	-	-	20.5
Second	4	13.5	3			20.5
Third	2	13.5	3	3		21.5
Fourth	2	13.5	3			18.5
Fifth	-	13.5	3		2	18.5
Sixth	-	17.5	3			20.5
<b>Total</b>	<b>12</b>	<b>85</b>	<b>18</b>	<b>3</b>	<b>2</b>	<b>120</b>

  
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## M. Sc. (Biotechnology) Program

### Scheme of Instruction (effective from Academic Year 2021-22)

FIRST SEMESTER			HC/ SC/ OE	L	T	P	Credits	Hours / week
1	M21SL0101	Cell Biology and Molecular Genetics	HC	4	0	0	4	4
2	M21SL0102	Biostatistics and Research Methodology	HC	4	0	0	4	4
3	M21SL0103	Microbiology	HC	4	0	0	4	4
4	M21SL0104	Biochemistry	HC	4	0	0	4	4
5	M21SL0105	Bioinformatics	HC	4	0	0	4	4
<b>Practical Courses</b>								
6	M21SL0106	Cell biology and molecular genetics Laboratory	HC	0	0	2	2	4
7	M21SL0107	Microbiology and Biochemistry Laboratory	HC	0	0	2	2	4
<b>Total Credits</b>				<b>22</b>	<b>0</b>	<b>4</b>	<b>24</b>	<b>32</b>
SECOND SEMESTER			HC/ SC/ OE	L	T	P	Credits	Hours / week
1	M21SL0201	Molecular biology	HC	4	0	0	4	4
2	M21SL0202	Immunology and Medical Biotechnology	HC	4	0	0	4	4
3	M21SL0203	Bioprocess Engineering	HC	4	0	0	4	4
4	M21SL0204	Biochemical techniques and Enzymology	HC	4	0	0	4	4
5	M21SLS211	Animal Biotechnology	SC	4	0	0	4	4
	M21SLS212	Toxicology						
<b>Practical Course</b>								
6	M21SL0205	Molecular Biology, Immunology and Medical Biotechnology Laboratory	HC	0	0	2	2	4
7	M21SL0206	Biochemical techniques and Bioprocess Engineering Laboratory	HC	0	0	2	2	4
<b>Total credits</b>				<b>20</b>		<b>4</b>	<b>24</b>	<b>30</b>

THIRD SEMESTER			HC/ SC/ OE	L	T	P	Credits	Hours /week
1	M21SL0301	Plant and Agricultural Biotechnology	HC	4	0	0	4	4
2	M21SL0302	Genetic Engineering	HC	4	0	0	4	4
3	M21SL0303	Environmental Biotechnology	HC	4	0	0	4	4
4	M21SLS311	Clinical Data Science	SC	4	0	0	4	4
	M21SLS312	Nano Biotechnology						
5	M21SLS321	Food science & Technology	SC	2	0	0	2	2
	M21SLS322	Entrepreneurship and Business Plan Presentation						
6	M21SLO301	Organic Farming	OE	4	0	0	4	4
7	M21SL0304	Skill Enhancement Course	HC	2	0	0	2	2
8	M21PTM301	Soft Skill Training (Common)	Mandatory	0	0	0	0	3
<b>Practical Courses</b>								
9	M21SL0305	Plant, Agricultural Biotechnology and Genetic Engineering Laboratory	HC	0	0	2	2	4
10	M21SL0306	Environmental Biotechnology Laboratory6	HC	0	0	2	2	4
<b>Total Credits</b>				<b>27</b>	<b>0</b>	<b>4</b>	<b>28</b>	<b>30</b>

FOURTH SEMESTER								
1	M21SL0401	Major Project	HC	0	0	0	10	20
2	M21SLON01	MOOC/Swayam-1	-	-	-	-	2	-
3	M21SLON02	MOOC /Swayam-2	-	-	-	-	2	-
<b>Total Credits</b>					<b>0</b>	<b>8</b>	<b>14</b>	<b>20</b>

### Semester-wise Summary of Credit Distribution

Semesters	L	T	P	No. of Credits
First Semester	22	0	4	24
Second Semester	22	0	4	24
Third Semester	22	0	4	28
Fourth Semester	-	-	-	14
<b>Total Credits</b>				<b>90</b>

HC=Hard Core; SC=Soft Core; OE=Open Elective

  
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## Mapping of PEO'S with Respect to PO's

	PO1	P2	PO3	PO4	PO5	PO6	P7	PO8
<b>PEO1</b>	√	√	√	√	√	√	√	√
<b>PEO2</b>	√	√	√	√	√	√	√	√
<b>PEO3</b>	√	√	√	√	√	√	√	√

## M.Sc. (Mathematics) Program

### Scheme of Instruction (effective from Academic Year 2020-22)

Semester I									
Course Code	Course Title	Course Type	Credits				Weekly Contact	Teaching School/Dept.	
			L	T	P	Total			
M21SN0101	Algebra	HC	3	1	0	4	5	Mathematics	
M21SN0102	Real Analysis	HC	3	1	0	4	5	Mathematics	
M21SN0103	Statistical Methods	HC	3	1	0	4	5	Mathematics	
M21SN0104	Graph Theory	HC	3	1	0	4	5	Mathematics	
M21SN0105	Ordinary and Partial Differential Equations	HC	3	1	0	4	5	Mathematics	
M21SNS101	R – Programming with Statistical Methods	SC	1	0	2	3	6	Mathematics	
M21SNS102	SAS (Statistical Analysis System)								
Total Credits of I Semester			16	5	2	23	31		
Semester II									
M21SN0201	Linear Algebra	HC	3	1	0	4	5	Mathematics	
M21SN0202	Complex Analysis	HC	3	1	0	4	5	Mathematics	
M21SN0203	Data Science	HC	3	1	0	4	5	Mathematics	
M21SN0204	Fluid Mechanics	HC	3	1	0	4	5	Mathematics	
M21SN0211	Discrete Mathematic	SC	2	1	0	3	4	Mathematics	
M21SN0212	Number theory							Mathematics	
M21SN0221	Machine Learning using Python	SC	1	1	2	4	6	Mathematics	
M21SN0222	SPSS							Mathematics	
M21SNM201	Skill Development Programme	MC	2	0	0	2	2		
Total Credits of II Semester			17	6	2	25	32		
Semester III									
M21SN0301	Topology	HC	3	1	0	4	5	Mathematics	
M21SN0302	Functional Analysis	HC	3	1	0	4	5	Mathematics	

M21SNS301	Operations Research	SC	2	1	0	3	4	Mathematics				
M21SNS302	Mathematical Methods											
M21SN0N01	MOOC / Swayam / Internship	SC	4	0	0	4	4	Mathematics				
M21SNM301	Soft Skill Training	MC	2	0	0	2	2	Mathematics				
M21SNO301	Open Elective: Optimization Techniques	OE	4	0	0	4	4	Mathematics				
M21SNO302	Open Elective: Cryptography											
M21SN0303	Dissertation Phase - I	HC	0	0	2	2	4	Mathematics				
Total Credits of III Semester			18	3	2	23	28					
Semester IV												
M21SN0401	Numerical Analysis	HC	3	1	0	4	5	Mathematics				
M21SNS411	Differential Geometry	SC	2	1	0	3	4	Mathematics				
M21SNS412	Finite Element Methods											
M21SN0402	Calculus of Variation and Integral Equations	HC	3	1	0	4	5	Mathematics				
M21SNS421	Fuzzy set theory and Applications	SC	2	1	0	3	4	Mathematics				
M21SNS422	Advanced Graph Theory											
M21SN0403	Dissertation Phase - II	HC	0	0	4	5	8	Mathematics				
Total Credits of IV Semester			10	4	4	19	26					
HC	SC	OE	RUL	I Sem	II Sem	III Sem	IV Sem	L	T	P	Total	Total
59	19	04	08	23	25	23	19	61	18	10	90	117

**Note:**

1. Open Elective offered by School of Mathematics, shall be opted by other schools.
2. The M.Sc. (Mathematics) students shall have to opt Open Elective.
3. Project dissertation will begin in 4<sup>th</sup> Semester. Students will be chosen internal guide from the school and continue with in-house projects only.
4. Internship – Students must undergo hands-on training program (Skill development program) either at REVA University/Industry/Research Organization.

**M. Sc. (Physics) Program  
Scheme of Instruction  
(Effective from Academic Year 2021-23)**

**SEMESTER-I**

Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern & Credit Value				Contact Hours
				L	T	P	Total	
1	M21SP0101	Mathematical Physics	HC	4	0	0	4	4
2	M21SP0102	Classical Mechanics	HC	4	0	0	4	4
3	M21SP0103	Electronic devices	HC	4	0	0	4	4
4	M21SP0104	Quantum Mechanics I	HC	4	0	0	4	4
5	M21SP0105	Solid state physics	HC	4	0	0	4	4
6	M21SPM101	C and Python program	MC	0	0	0	0	3
<b>Practical Courses</b>								
6	M21SP0106	General Physics lab - I	HC	0	0	2	2	4
7	M21SP0107	Electronics lab	HC	0	0	2	2	4
<b>Total Credits</b>				<b>21</b>	<b>0</b>	<b>5</b>	<b>24</b>	<b>31</b>

**SEMESTER-II**

Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern & Credit Value				Contact Hours
				L	T	P	Total	
1	M21SP0201	Quantum Mechanics II	HC	4	0	0	4	4
2	M21SP0202	Statistical Mechanics	HC	4	0	0	4	4
3	M21SP0203	Electrodynamics	HC	4	0	0	4	4
4	M21SP0204	Atomic and Molecular Physics	HC	4	0	0	4	4
5	M21SPS211	Electronics - I :Digital electronics	SC <sup>#</sup>	4	0	0	4	4
6	M21SPS212	Condensed Matter Physics - I	SC <sup>#</sup>					
7	M21SPS213	Photonics-I	SC <sup>#</sup>					
8	M21SPM201	Lab View introduction and	MC					
				0	0	0	0	2

		interfacing						
<b>Practical Courses</b>								
9	M21SP0205	General Physics lab - II	HC	0	0	2	2	4
10	M21SP0206	Atomic and Molecular Physics Lab	HC	0	0	2	2	4
<b>Total Credits</b>				<b>20</b>	<b>0</b>	<b>4</b>	<b>24</b>	<b>32</b>

**Note: #Soft Core (SC):** Student shall opt for one SC of his/her choice which will be continued in higher semesters also.

### SEMESTER-III

Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern & Credit Value				Contact Hours
				L	T	P	Total	
1	M21SP0301	Astrophysics	HC	4	0	0	4	4
2	M21SP0302	Nano science and Nanotechnology	HC	4	0	0	4	4
3	M21SP0303	Nuclear and Particle physics	HC	4	0	0	4	4
4	M21SPS311	Electronics – II: Digital Electronics and Communication Systems	SC <sup>#</sup>	4	0	0	4	4
5	M21SPS312	Condensed Matter Physics – II	SC <sup>#</sup>					
6	M21SPS313	Photonics-II	SC <sup>#</sup>					
7	M21SPS321	Electronics – III: Linear integrated circuits	SC <sup>#</sup>	4	0	0	4	4
8	M21SPS322	Condensed Matter Physics - III	SC <sup>#</sup>					
9	M21SPS323	Photonics-III	SC <sup>#</sup>					
10	M21SPO301	Astrobiology and Extra-terrestrial Life	OE	4	0	0	4	4
11	M21PTM301	Soft skill training	MC	0	0	0	0	2
12	M21SP0304	General Physics lab - III	HC	0	0	2	2	4
13	M21SPS331	Electronics Lab	SC <sup>#</sup>	0	0	2	2	4
14	M21SPS332	Condensed Matter Physics Lab						
15	M21SPS333	Photonics Lab						
<b>Total Credits</b>				<b>24</b>	<b>0</b>	<b>4</b>	<b>28</b>	<b>32</b>

**Note: i) #OE is Open Elective Course** offered for students of other Schools; the students of MSc Physics shall take any ONE of the OE course offered by other Schools.

**ii) \*Soft Core (SC):** Students shall have to continue the Soft Core opted during the Second Semester.

#### SEMESTER-IV

Sl. No.	Course Code	Title of the Course	Course Type	Credit Pattern & Credit Value				Contact Hours
				L	T	P	Total	
1	M21SP0401	Research methodology	HC	2	0	0	2	2
2	M21SP0402	Major Project	HC	0	0	8	8	16
3	M21SPON01	MOOC/SWAYAM /Internship*	SC	4	0	0	4	-
<b>Total Credits</b>				<b>6</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>18</b>
<b>Total Credits of I to IV Semesters</b>				<b>70</b>	<b>0</b>	<b>20</b>	<b>90</b>	<b>113</b>

**Note:** \* The students shall undergo Internship during summer vacation and mid-term vacation soon after Second and Third Semester exams are completed and present the report on the Internship undergone during the Fourth Semester for evaluation.

#### Semester-wise Summary of Credit Distribution

Semesters	No. of Credits	No. of Hours
First Semester	24	31
Second Semester	24	32
Third Semester	28	32
Fourth Semester	14	18
<b>Total Credits</b>	<b>90</b>	<b>113</b>

#### Distribution of Credits Based on Type of Courses

Semester	HC	SC	OE	MC	TOTAL
I	24	-	-	-	24
II	20	4	-	0	24
III	20	8	4	-	28
IV	10	4	-	4	14
<b>Total</b>	<b>70</b>	<b>14</b>	<b>4</b>	<b>8</b>	<b>90</b>

HC=Hard Core; SC=Soft Core; OE=Open Elective

#### Distribution of Credits Based on L: T: P



Semester	L	T	P	Total	Total Hours
I	20	0	4	24	31
II	20	0	4	24	32
III	24	0	4	28	32
IV	6	0	8	14	18
<b>Total</b>	<b>70</b>	<b>0</b>	<b>20</b>	<b>90</b>	<b>113</b>

  
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## M.Sc. Psychology (Clinical and Industrial Psychology)

### Scheme of Instructions

(2021-2023)

Sl. No	Course Code	Title of the Course	HC/SC/OE	Credit Pattern			Total Credits	Weekly Contact Hours
				L	T	P		
<b>First Semester</b>				<b>L</b>	<b>T</b>	<b>P</b>		
1	M21AJ0101	Cognitive Psychology	HC	3	1	0	4	5
2	M21AJ0102	Physiological Psychology	HC	3	1	0	4	5
3	M21AJ0103	Quantitative Research Methods	HC	4	0	0	4	4
4	M21AJ0104	Educational Psychology	HC	4	0	0	4	4
5	M21AJ0105	Psychological Measurement	HC	3	1	0	4	5
6	M21AJ0106	Practical – I (Experimental Psychology)	HC	0	0	2	2	4
7	M21AJ0107	Practical – II (Computer Fundamental and SPSS)	HC	0	0	2	2	4
				<b>17</b>	<b>3</b>	<b>4</b>	<b>24</b>	<b>31</b>
<b>Second Semester</b>								
1	M21AJ0201	Indigenous Psychology	HC	2	1	0	3	4
2	M21AJ0202	Theories of Personality	HC	2	1	0	3	4
3	M21AJS211	Child and Adolescent Psychopathology	SC	3	1	0	4	5
	M21AJS212	Organizational Behaviour - I						
4	M21AJS221	Community Psychology and Mental Health	SC	3	1	0	4	5
	M21AJS222	Consumer Psychology						
5	M21AJ0203	Practical – I (Assessment of Individual Differences)	HC	0	0	2	2	4
6	M21AJ0204	Practical – II (Test Construction)	HC	0	0	2	2	4
7	M21AJON01	MOOC	ON	0	0	2	2	4
				<b>10</b>	<b>4</b>	<b>6</b>	<b>20</b>	<b>30</b>
*Students have to undergo internship of 4 weeks duration after the Second Semester examination; internship marks will be added in the third semester.								
<b>Third Semester</b>								
1	M21AJ0301	Qualitative Research Methods	HC	2	1	0	3	4
2	M21AJ0302	Life Span Development	HC	2	1	0	3	4
	M21AJS311	Rehabilitation Psychology						
3	M21AJS312	Human Resource Management and Development	SC	3	1	0	4	5
	M21AJS321	Adult Psychopathology						

4	M21AJS322	Organizational Behaviour-II	SC	3	1	0	4	5
5	M21AJS331	Practical – I (Clinical Assessment)	SC	0	0	2	2	4
	M21AJS332	Practical – I (Assessment in Organization)						
6	M21AJS341	Practical – II (Clinical Psychology Qualitative Research)	SC	0	0	2	2	4
	M21AJS342	Practical – II (Organizational Psychology Qualitative Research)						
7	M21AJ0303	Internship	HC	0	0	3	3	0
8		Open Elective	OE	4	0	0	4	4
				<b>14</b>	<b>4</b>	<b>7</b>	<b>25</b>	<b>30</b>
<b>Fourth Semester</b>								
1	M21AJ0401	Counseling Psychology	HC	2	1	0	3	4
2	M21AJ0402	Positive Psychology	HC	3	1	0	4	4
3	M21AJS411	Psychological Intervention Techniques	SC	3	1	0	4	5
	M21AJS412	Organizational Training and Development						
4	M21AJS421	Practical – I (Clinical Assessment and Intervention)	SC	0	0	2	2	4
	M21AJS422	Practical – II (Organizational Training and Development)						
5	M21AJ0403	Major Research Project	HC	0	2	6	8	16
6	M21AJM401	Employability Skills	Non-credit Mandatory Course					2
				<b>8</b>	<b>5</b>	<b>8</b>	<b>21</b>	<b>35</b>
				<b>49</b>	<b>16</b>	<b>25</b>	<b>90</b>	<b>126</b>

**Note:** HC=Hard Core; SC=Soft Core; OE=Open Elective

### Semester-Wise Summary of Credit Distribution

Semesters	No. of Credits	No. of Hours
First Semester	24	31
Second Semester	20	30
Third Semester	25	30
Fourth Semester	21	35
<b>Total Credits</b>	<b>90</b>	<b>126</b>

### Distribution of Credits Based on Type of Courses

Semester	HC	SC	OE	CREDIT
I	24	0	0	24
II	10	10	0	20
III	9	12	4	25
IV	15	6	0	21
<b>Total</b>	<b>58</b>	<b>28</b>	<b>4</b>	<b>90</b>

### Distribution of Credits Based on L: T: P

Semester	L	T	P	CREDIT	Total Hours
I	17	3	4	24	31
II	10	4	6	20	30
III	14	4	7	25	30
IV	8	5	8	21	35
<b>Total</b>	<b>49</b>	<b>16</b>	<b>25</b>	<b>90</b>	<b>126</b>

  
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**REVA Business School**  
**Course Content of PG Programs-2021-22**  
**Master of Business Administration (MBA)**  
**(Effective from Academic Year 2021-22)**

<b>First Semester</b>			HC/SC/CC	L	T	P	Total	Contact Hours
1.	M21MK0101	Management & Organization Behavior	HC	3	1	0	4	4
2.	M21MK0102	Accounting for managers	HC	3	1	0	4	4
3.	M21MK0103	Economic analysis for Business Decisions	HC	3	1	0	4	4
4.	M21MK0104	Business Analytics – I	HC	3	1	0	4	4
5.	M21MK0105	Indian Ethos	RULO	-	-	-	-	-
6.	M21MK0106	Interdisciplinary Course	RULO	-	-	-	-	-
7.	M21MK0107	Foreign Language	RULO	-	-	-	-	-
8.	M21MK0108	Skill Development Course	RULO	-	-	-	-	-
<b>Note: Students can choose any Two Prerequisite courses</b>								
<b>I. Finance</b>								
1	M21MKS111	Financial Markets and Services	SC	1	1	0	2	3
2	M21MKS112	Corporate Finance	SC	1	1	0	2	3
<b>II. Marketing</b>								
1	M21MKS121	Principles of Marketing	SC	1	1	0	2	3
2	M21MKS122	Retail Management	SC	1	1	0	2	3
<b>III. Human Resource</b>								
1	M21MKS131	Leadership and Development	SC	1	1	0	2	3
2	M21MKS132	Talent Management	SC	1	1	0	2	3
<b>IV. Operations Management</b>								
1	M21MKS141	Business Mathematics	SC	1	1	0	2	3
2	M21MKS142	Computer Applications in Business	SC	1	1	0	2	3
<b>V. Health Care Management</b>								
1	M21MKS151	Health care structure in India	SC	1	1	0	2	3
2	M21MKS152	Health care Marketing	SC	1	1	0	2	3

		<b>VI. Strategy &amp; Leadership</b>							
1	M21MKS161	Strategic leadership and change Management	SC	1	1	0	2	3	
2	M21MKS162	Decision making and competitive strategy	SC	1	1	0	2	3	
		<b>VII. Entrepreneurship</b>							
1	M21MKS171	Business Model Generation	SC	1	1	0	2	3	
2	M21MKS172	Business plan preparation for new venture	SC	1	1	0	2	3	
		<b>VIII. Banking &amp; Insurance</b>							
1	M21MKS181	Principles & Practices of Banking	SC	1	1	0	2	3	
2	M21MKS182	Principles & Practices of Insurance	SC	1	1	0	2	3	
		<b>Flexible Course (choose any one course)</b>							
1	M21MKS191	Corporate communication	SC	1	1	0	2	2	
2	M21MKS192	Design thinking	SC	1	1	0	2	2	
3	M21MKS193	Public Policy	SC	1	1	0	2	2	
<b>TOTAL CREDITS</b>							<b>26</b>		

<b>Second Semester</b>			HC/SC/CC	L	T	P	Total	Contact Hours
1.	M21MK0201	Legal Aspects of Business	HC	3	1	0	4	4
2.	M21MK0202	Business Research Methods	HC	3	1	0	4	4
3.	M21MK0203	Corporate Social Responsibility & Sustainability	HC	3	1	0	4	4
4.	M21MK0204	Business Analytics – II	HC	3	1	0	4	4
5.	M21MK0205	Book Review	RULO	-	-	-	-	-
6.	M21MK0206	Interdisciplinary Course	RULO	-	-	-	-	-
7.	M21MK0207	Foreign Language	RULO	-	-	-	-	-
8.	M21MK0208	Skill Development Course	RULO	-	-	-	-	-
<b>Note: Students can choose any Two Prerequisite courses</b>								
<b>I. Finance</b>								
1	M21MKS211	Advanced financial management	SC	1	1	0	2	3
2	M21MKS212	Financial performance analysis	SC	1	1	0	2	3

	<b>II. Marketing</b>							
1	M21MKS221	Marketing Management	SC	1	1	0	2	3
2	M21MKS222	Digital Marketing & Social Media Marketing	SC	1	1	0	2	3
	<b>III. Human Resource</b>							
1	M21MKS231	Employee Relations	SC	1	1	0	2	3
2	M21MKS232	Sustainable HRM	SC	1	1	0	2	3
	<b>IV. Operations Management</b>							
1.	M21MKS241	Technology Management & Systems	SC	1	1	0	2	3
2	M21MKS242	Production & Operations Management	SC	1	1	0	2	3
	<b>V. Health Care Management</b>							
1	M21MKS251	Health and society	SC	1	1	0	2	3
2	M21MKS252	Health reforms and policy planning	SC	1	1	0	2	3
	<b>VI. Strategy &amp; Leadership</b>							
1	M21MKS261	Leadership in Organizations	SC	1	1	0	2	3
2	M21MKS262	Effective Leadership Strategies	SC	1	1	0	2	3
	<b>VII. Entrepreneurship</b>							
1	M21MKS271	Entrepreneurship Theory & Practice	SC	1	1	0	2	3
2	M21MKS272	Social Entrepreneurship	SC	1	1	0	2	3
	<b>VIII. Banking &amp; Insurance</b>							
1	M21MKS281	Insurance Planning & Risk Management	SC	1	1	0	2	3
2	M21MKS282	Legal & Regulatory Aspects of Banking	SC	1	1	0	2	3
	<b>Flexible Course (choose any one course)</b>							
1	M21MKS291	Business Development Models	SC	1	1	0	2	2
2	M21MKS292	Advanced Excel	SC	0	0	2	2	2
3	M21MKS293	SPSS	SC	0	0	2	2	2
	<b>TOTAL CREDITS</b>						<b>26</b>	

Third Semester			HC/SC/CC	L	T	P	Total	Contact Hours
1.	M21MK0301	Innovation & Entrepreneurship	HC	3	1	0	4	4
2.	M21MK0302	Minor Project	HC	-	-	-	4	-
3.	M21MK0303	Interdisciplinary Course	RULO	-	-	-	-	-
4.	M21MK0304	Foreign Language	RULO	-	-	-	-	-
5.	M21MK0305	Skill Development Course	RULO	-	-	-	-	-
<b>Note: Students can choose any Two Prerequisite courses</b>								
<b>I. Finance</b>								
1	M21MKS311	Securities Analysis and portfolio management	SC	2	1	0	3	4
2	M21MKS312	Financial derivatives	SC	2	1	0	3	4
3	M21MKS313	Advanced Cost and Management Accounting	SC	2	1	0	3	4
<b>II. Marketing</b>								
1	M21MKS321	Consumer Behavior	SC	2	1	0	3	4
2	M21MKS322	Integrated Marketing Communication	SC	2	1	0	3	4
3	M21MKS323	Sales & Distribution Management	SC	2	1	0	3	4
<b>III. Human Resource</b>								
1	M21MKS331	Cross Cultural Management	SC	2	1	0	3	4
2	M21MKS332	Performance and Reward Management	SC	2	1	0	3	4
3	M21MKS333	Labour Legislation	SC	2	1	0	3	4
<b>IV. Operations Management</b>								
1	M21MKS341	Supply Chain & Logistics Management	SC	2	1	0	3	4
2	M21MKS342	Operations Research Applications	SC	2	1	0	3	4
3	M21MKS343	Materials and Lean Management	SC	2	1	0	3	4
<b>V. Health Care Management</b>								
1	M21MKS351	Healthcare Environment & Management	SC	2	1	0	3	4
2	M21MKS352	Health care Laws, Ethics and Medical Terminology	SC	2	1	0	3	4
3	M21MKS353	Patient care Management	SC	2	1	0	3	4





VI. Strategy & Leadership								
1	M21MKS361	Strategic Leadership and Organization	SC	2	1	0	3	4
2	M21MKS362	Agile Leadership Theories and Practices	SC	2	1	0	3	4
3	M21MKS363	Leadership Strategies for Digital Age	SC	2	1	0	3	4
VII. Entrepreneurship								
1	M21MKS371	Family Business Management	SC	2	1	0	3	4
2	M21MKS372	Marketing; Primer for Entrepreneurs	SC	2	1	0	3	4
3	M21MKS373	New Enterprise Financing & Appraisal	SC	2	1	0	3	4
VIII. Banking & Insurance								
1	M21MKS381	Rural Banking and Microfinance	SC	2	1	0	3	4
2	M21MKS382	Marketing of Banking Services	SC	2	1	0	3	4
3	M21MKS383	General and Life Insurance	SC	2	1	0	3	4
<b>TOTAL CREDITS</b>							<b>26</b>	

Fourth Semester			HC/SC/CC	L	T	P	Total	Contact Hours
1.	M21MK0401	Strategic Management	HC	3	1	0	4	4
2.	M21MK0402	Major Project	HC	-	-	-	8	-
3.	M21MK0403	Interdisciplinary Course	RULO	-	-	-	-	-
4.	M21MK0404	Foreign Language	RULO	-	-	-	-	-
5.	M21MK0405	Skill Development Course	RULO	-	-	-	-	-
<b>Note: Students can choose any Two Prerequisite courses</b>								
I. Finance								
1	M21MKS411	International Financial Management	SC	2	1	0	3	4
2	M21MKS412	Mergers, acquisitions and corporate restructuring	SC	2	1	0	3	4
3	M21MKS413	Corporate Taxation for Business Decisions	SC	2	1	0	3	4

	<b>II. Marketing</b>							
1	M21MKS421	International Marketing	SC	2	1	0	3	4
2	M21MKS422	Strategic Brand Management	SC	2	1	0	3	4
3	M21MKS423	Services Marketing	SC	2	1	0	3	4
	<b>III. Human Resource</b>							
1	M21MKS431	Strategic Human Resource Management	SC	2	1	0	3	4
2	M21MKS432	HR Analytics	SC	2	1	0	3	4
3	M21MKS433	Global HRM	SC	2	1	0	3	4
	<b>IV. Operations Management</b>							
1	M21MKS441	Total Quality Management	SC	2	1	0	3	4
2	M21MKS442	Sourcing Management	SC	2	1	0	3	4
3	M21MKS443	Management of Manufacturing Systems	SC	2	1	0	3	4
	<b>V. Health Care Management</b>							
1	M21MKS451	Public Health System	SC	2	1	0	3	4
2	M21MKS452	Hospital Architecture, Planning and Maintenance	SC	2	1	0	3	4
3	M21MKS453	Hospital Facilities Management	SC	2	1	0	3	4
	<b>VI. Strategy &amp; Leadership</b>							
1	M21MKS461	Innovation & Leadership	SC	2	1	0	3	4
2	M21MKS462	Global Strategic Leadership	SC	2	1	0	3	4
3	M21MKS463	Inclusive Strategic Leadership	SC	2	1	0	3	4
	<b>VII. Entrepreneurship</b>							
1	M21MKS471	Legal Compliances for start-ups in India	SC	2	1	0	3	4
2	M21MKS472	Entrepreneurial Leadership Skills	SC	2	1	0	3	4
3	M21MKS473	Institutional Support System for Entrepreneurs	SC	2	1	0	3	4
	<b>VIII. Banking &amp; Insurance</b>							
1	M21MKS481	Corporate and Retail Banking	SC	2	1	0	3	4
2	M21MKS482	International Banking and Trade Finance	SC	2	1	0	3	4
3	M21MKS483	Banking and Insurance System	SC	2	1	0	3	4
	<b>TOTAL CREDITS</b>						<b>30</b>	

### Semester-wise Summary of Credit Distribution

Semesters	Total
First Semester	26
Second Semester	26
Third Semester	26
Fourth Semester	<b>30</b>
<b>Total Credits</b>	<b>108</b>





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