

<b>Semester-I</b>							
<b>Type of the Course</b>	<b>New Course Code</b>	<b>Course Name</b>	<b>Contact Hours Per Week</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credit</b>
<b>CORE (Theory)</b>	<b>BIC21501</b>	<b>Biomolecules and Biomolecular Interaction</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>CORE (Theory)</b>	<b>BIC21503</b>	<b>Biophysical Chemistry and Bio-analytical Techniques</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>CORE (Theory)</b>	<b>BIC21528</b>	<b>Plant Biochemistry</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>CORE (Theory)</b>	<b>BIC21507</b>	<b>Enzymology and Physiological Biochemistry</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>CORE (Theory)</b>	<b>BIC21541</b>	<b>Ecology and Evolution</b>	<b>3</b>				<b>3</b>
<b>CORE (Practical)</b>	<b>BIC22542</b>	<b>Biophysical Chemistry and Bio-analytical Techniques Lab</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>
<b>CORE (Practical)</b>	<b>BIC22557</b>	<b>Enzymology and plant biochemistry Lab</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>
<b>CORE (Theory)</b>	<b>BIC21534</b>	<b>Bioethics and Intellectual Property Rights</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>Foundation</b>	<b>BIC22570</b>	<b>Professional Development Course 1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>Total</b>			<b>23</b>	<b>12</b>	<b>1</b>	<b>9</b>	<b>23</b>

Semester-II							
Type of the Course	New Course Code	Course Name	Contact Hours Per Week	L	T	P	Credit
CORE (Theory)	BIC21511	Molecular Biology	3	3	0	0	3
CORE (Theory)	BIC21512	Recombinant DNA Technology	3	3	0	0	3
CORE (Theory)	BIC21543	Bioinformatics and Biostatistics	3	3	0	0	3
CORE (Theory)	BIC21544	Genomics and Proteomics	3	3	0	0	3
CORE (Practical)	BIC22545	Molecular Biology & Recombinant DNA Technology Lab	4	0	0	3	2
CORE (Practical)	BIC22546	Bioinformatics and Biostatistics Lab	4	0	0	3	2
CORE (Practical)	BIC22547	Genomic and Proteomics Lab	4	0	0	3	2
CORE (Theory) Discipline Specific Elective-I	BIC21517 BIC21518 / BIC21509 /BI C21 510	Any One of the following*: Cancer Biology / Nano biotechnology / Drug Design and Development/ Food and Dairy: Food Safety and Quality Control	3	3	0	0	3
Foundation	BIC22571	Professional Development Course 2	1	0	0	1	1
<b>Total</b>			<b>27</b>	<b>15</b>	<b>0</b>	<b>10</b>	<b>22</b>

Semester-III							
Type of the Course	Course Code	Course Name	Contact Hours Per Week	L	T	P	Credit
CORE (Theory)	BIC21522	Immunology	3	3	0	0	3
CORE (Theory)	BIC21536	Microbiology	3	3	0	0	3
CORE (Theory)	BIC21550 / BIC21551	Forensic Biology#/ Nutrition and toxicology*	3	3	0	0	3
CORE (Theory)	BIC21513	Bioenergetics and Metabolism	3	3	0	0	3
CORE (Practical)	BIC22523	Immunology Lab	4	0	0	3	2
CORE (Practical)	BIC22552 / BIC22553	Forensic Biology Lab#/ Nutrition and toxicology lab*	4	0	0	3	2
CORE (Practical)	BIC22549	Microbiology Lab	4	0	0	3	2
CORE (Theory) Discipline Specific Elective-II	BIC21554 /BIC21555/ BIC21532 / BIC21556 /BIC21558/ BIC24530	Any One of the following*: Applied toxicology*/ Environmental toxicology*/ Clinical Biochemistry / Advanced DNA Forensics#/ Advanced Forensic Chemistry#/ Research	3	3	0	0	3
FOUNDATION	BIC24535	Industry Internship	0	0	0	2	2
Foundation	BIC22572	Professional Development Course 3	1	0	0	1	1
Total			27	15	1	12	24

\*Nutrition and Toxicology Specialization  
#Forensic Biology Specialization

Type of the Paper	New Course Code	Theory/Practical	Contact Hours Per Week	L	T	P	Credit
CORE (Theory)	BIC25539	Comprehensive Viva		3	0	0	4
CORE (Theory)	BIC25540	Dissertation	15	0	0	15	15
<b>Total</b>			<b>21</b>	<b>3</b>		<b>15</b>	<b>19</b>

\*Offering of DSE subjects will vary from year to year, subject to the availability of faculty

**Total credit distribution semester -wise:**

Semester	I	II	III	IV	Total
Credits	23	22	24	19	88

NB: 1 credit ~ 15 contact hours