

## B. Sc. (H) Biomedical Science

### Curriculum Structure

SEMESTER I							
S. No	Course Code	Course Name	Category of Course	L	T	P	Credits
1.		Fundamentals of Cell Biology	Discipline Core Course 1	3	0	1	4
2.		Biochemistry	Discipline Core Course 2	4	0	0	4
3.		Human Physiology- I	Discipline Core Course 3	3	0	1	4
4.		Generic Elective (Biodiversity and Conservation/Clinical Science/Chemistry/Forensic Science)	Generic Electives - 1	4	0	0	4
5.		Ecology and Environment	Ability Enhancement course-1	2	0	0	2
6.		Essentials of IT Tools	Skill Enhancement course- 1	1	0	1	2
7.		Food Nutrition and Hygiene	Value Added Course-1	2	0	0	2
			<b>TOTAL</b>				<b>22</b>
SEMESTER II							
S. No.	Course Code	Course Name	Category of Course	L	T	P	Credits
1.		Human Physiology -II	Discipline Core Course 4	4	0	0	4
2.		Toxicology and Pharmacology	Discipline Core Course 5	3	0	1	4
3.		Biotechnology	Discipline Core Course 6	3	0	1	4
4.		Generic Elective (Biodiversity and Conservation/Clinical Science/Chemistry/Forensic Science)	Generic Electives - 2	4	0	0	4
5.		Logical Communication	Ability Enhancement course-2	1	0	1	2

6.		Introduction to Python programming	Skill Enhancement course- 2	1	0	1	2
7.		Art of Happiness	Value Added Course-2	2	0	0	2
			<b>TOTAL</b>				<b>22</b>

**SEMESTER III**

S. No.	Course Code	Course Name	Category of Course	L	T	P	Credits
1.		Fundamentals of Molecular Biology	Discipline Core Course 7	3	0	1	4
2.		Introduction to Microbial World	Discipline Core Course 8	3	0	1	4
3.		Evolutionary and Developmental Biology	Discipline Core Course 9	4	0	0	4
4.		Generic Elective (Biodiversity and Conservation/Clinical Science/Chemistry/Forensic Science)	Generic Electives - 3	4	0	0	4
5.		Critical Thinking & Writing	Ability Enhancement course-3	2	0	0	2
6.		Introduction to Artificial Intelligence	Skill Enhancement course- 3	2	0	0	2
7.		NCC/NSS/Social Internship/Vedic Mathematics	Value Added Course-3	2	0	0	2
			<b>TOTAL</b>				<b>22</b>

**SEMESTER IV**

S. No.	Course Code	Course Name	Category of Course	L	T	P	Credits
1.		Concept of Immunology	Discipline Core Course 10	3	0	1	4
2.		Gene Technology and Human Welfare	Discipline Core Course 11	3	0	1	4
3.		Bioinstrumentation & Biotechniques	Multi Disciplinary Course 1	3	0	0	3
4.		Generic Elective (Biodiversity and Conservation/Clinical	Generic Electives - 4				4

		Science/Chemistry/Forensic Science)					
5.		Disaster Management	Ability Enhancement Course-4	2	0	0	2
6.		One from the List of Choices	Skill Enhancement Course- 4	2	0	0	2
7.		Nanobiotechnology	Multi Disciplinary Course 2	3	0	0	3
			<b>TOTAL</b>				<b>22</b>

**SEMESTER V**

S. No.	Course Code	Course Name	Category of Course	L	T	P	Credits
1.		Hormones: Biochemistry and Function	Discipline Core Course 12	4	0	0	4
2.		Inheritance Biology	Discipline Core Course 13	3	0	1	4
3.		Research Methodology and Ethics	Multi Disciplinary Course 3	4	0	0	4
4.		DSE from Gp. 1	DSE-1				4
5.		Generic Elective (Biodiversity and Conservation/Clinical Science/Chemistry/Forensic Science)	Generic Elective - 5				4
6.		Internship	Industrial/Academic Internship	0	0	2	2
			<b>TOTAL</b>				<b>22</b>

**SEMESTER VI**

S. No.	Course Code	Course Name	Category of Course	L	T	P	Credits
1.		Medical Biochemistry	Discipline Core 14	3	0	1	4
2.		Metabolism of Biomolecules	Discipline Core 15	4	0	0	4
3.		DSE from Gp. 1	DSE-2				4
4.		DSE from Gp. 1	DSE-3				4
5.		Generic Elective (Biodiversity and Conservation/Clinical Science/Chemistry/Forensic Science)	Generic Electives - 6				4
6.		One from the List of choices	Skill Enhancement	2	0	0	2

			Course- 5				
			<b>TOTAL</b>				<b>22</b>
<b>After 3 years, Students will get the degree of B.Sc. (Hons.) Biomedical Science with Total Credits=132</b>							
<b>SEMESTER VII</b>							
<b>S. No.</b>	<b>Course Code</b>	<b>Course Name</b>	<b>Category of Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1.		Bioinformatics	Discipline Core Course 16	3	0	1	4
2.		DSE from Gp. 2	DSE-4				4
3.		DSE from Gp. 2	DSE-5				4
4.		DSE from Gp. 2	DSE-6				4
5.		Generic Elective (Biodiversity and Conservation/Clinical Science/Chemistry/Forensic Science)	Generic Electives - 7				4
			<b>TOTAL</b>				<b>20</b>
<b>SEMESTER VIII</b>							
<b>S. No.</b>	<b>Course Code</b>	<b>Course Name</b>	<b>Category of Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1.		Dissertation	Dissertation				12
2.		Generic Elective (Biodiversity and Conservation/Clinical Science/Chemistry/Forensic Science)/Minor Project	Generic Electives - 8				4
			<b>TOTAL</b>				<b>16</b>
<b>After 4 years, Students will get the degree of B.Sc. (Hons. with Research) Biomedical Science with Total Credits=168</b>							