Scheme: 2023-26

Summary of Credits

Course Category	For 3 years Program
Discipline Core Courses	60
Discipline Specific Electives (DSE)	12
Generic Electives	24
Multi-Disciplinary Courses (MDC)	10
Ability Enhancement Courses (AEC)	8
Skill Enhancement Courses (SEC)	10
Value Added Courses (VAC)	6
Industrial/Academic Internship	2
Dissertation	NA
Total Credits	132

B.Sc. (H) Zoology

		SEMESTER	. I				
S. No	Cour se Code	Course Name	Category of Course	L	T	P	Credi ts
1.		Fundamentals of Cell Biology	Discipline Core Course 1	3	0	1	4
2.		Biochemistry	Discipline Core Course 2	4	0	0	4
3.		Diversity of Non-Chordates, Parasitology and Economic Zoology	Discipline Core Course 3	3	0	1	4
4.		Generic Elective (Forensic Science/Maths/Chemistry/Physics/E conomics/ Computer Science)	Generic Electives - 1				4
5.		Ecology and Environment	Ability Enhancement course-1	2	0	0	2
1.		Introduction to Python programming/ Graphical Tools	Skill Enhancement course- 1	1	0	1	2
2.		Health and Nutrition/First Aid	Value Added Course-1	2	0	0	2
			TOTAL				22
		SEMESTER	II				
S. No	Cour se Code	Course Name	Category of Course	L	T	P	Credi ts
1.		Animal Physiology- I	Discipline Core Course 4	4	0	0	4
2.		Diversity of Chordates and Comparative Anatomy	Discipline Core Course 5	3	0	1	4
3.		Biotechnology	Discipline Core Course 6	3	0	1	4
4.		Generic Elective (Forensic Science/Maths/Chemistry/Physics/E conomics/ Computer Science)	Generic Electives - 2				4
		Logical Communication	Ability Enhancement course-2	1	0	1	2
6.		Essentials of IT Tools	Skill Enhancement course- 2	1	0	1	2
7		Art of Happiness	Value Added Course-2	2	0	0	2

			TOTAL				22
		SEMESTER	III				
S. No	Cour se	Course Name	Course Name Category of Course L T		P	Credits	
1.	Code	Fundamentals of Molecular Biology	Discipline Core Course 7	3	0	1	4
2.		Animal Physiology-II	Discipline Core Course 8	3	0	1	4
		Evolutionary and Developmental Biology	Discipline Core Course 9	4	0	0	4
4.		Generic Elective (Forensic Science/Maths/Chemistry/Physics/E conomics/ Computer Science)	Generic Electives - 3		0	0	4
5.		Critical Thinking & Writing	Ability Enhancement course-3	2	0	0	2
		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
			TOTAL				22
~	~	SEMESTER	1	_			~
S. No	Cour se 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			0	0	3
4.		Generic Elective (Forensic Science/Maths/Chemistry/Physics/E conomics/ Computer Science)	Generic Electives - 4				4
5.		Disaster Management	Ability Enhancement Course-4		0	0	2
6.		Cyber Sphere & Security Global Concern	Skill Enhancement Course- 4	2	0	0	2

7.		Nanobiotechnology	Multi	3	0	0	3
			Disciplinary				
			Course 2				22
		CEMECTER	TOTAL				22
C	C	SEMESTER		т.	TF.	n	C 114
S. No	Cour se Code	Course Name	Category of Course	L	T	P	Credits
1.	0040	Chronobiology	Discipline Core Course 12	3	0	1	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 (Forensic Science/Maths/Chemistry/Physics/E conomics/ Computer Science)	Generic Elective - 5				4
6.		Internship	Industrial/Acad emic Internship	0	0	2	2
							22
			TOTAL				22
		SEMESTER					22
S. No	Cour se Code	SEMESTER Course Name		L	Т	P	Credits
			VI Category of	L 3	T	P	
No ·	se	Course Name	Category of Course Discipline Core				Credits
No .	se	Course Name Entomology and Fish Biology Ecology, Ethology, Environmental	Category of Course Discipline Core 14 Discipline Core	3	0	1	Credits
No 1.	se	Course Name Entomology and Fish Biology Ecology, Ethology, Environmental Science and Wildlife	Category of Course Discipline Core 14 Discipline Core 15	3	0	1	Credits 4
1. 2. 3.	se	Course Name Entomology and Fish Biology Ecology, Ethology, Environmental Science and Wildlife DSE from Gp. 1	Category of Course Discipline Core 14 Discipline Core 15 DSE-2	3	0	1	Credits 4 4 4
1. 2. 3. 4.	se	Course Name Entomology and Fish Biology Ecology, Ethology, Environmental Science and Wildlife DSE from Gp. 1 DSE from Gp. 1 Generic Elective (Forensic Science/Maths/Chemistry/Physics/E	Category of Course Discipline Core 14 Discipline Core 15 DSE-2 DSE-3 Generic	3	0	1	Credits 4 4 4 4
1. 2. 3. 4.	se	Course Name Entomology and Fish Biology Ecology, Ethology, Environmental Science and Wildlife DSE from Gp. 1 DSE from Gp. 1 Generic Elective (Forensic Science/Maths/Chemistry/Physics/E conomics/ Computer Science)	Category of Course Discipline Core 14 Discipline Core 15 DSE-2 DSE-3 Generic Electives - 6 Skill Enhancement	3 4	0	0	4 4 4 4

After 3 years, Students will get the degree of B.Sc. (Hons.) Zoology with Total Credits=132

Choice for Skill Enhancement

Subject	LTPCredits
Testing of cosmetics and hygienic products	1012
Innovation and Entrepreneurship	2002
Statistics with R	1012
Electronic Product Testing	1012
Fundamentals of Clinical Research	2002
Social Media Crimes and Awareness	2002
Graphical Tools	1012
Latex writing	1012

List of
Discipline
Specific
Electives (DSE)

Infectious Microbiology Specialization

Category of Course	eSubject	LTPCredits
Elective-1	Parasitology	4004
Elective-1	Virology	4004
El 2	Toxicology and Vector Biology	3014
Elective-2	Bacteriology	3014
Elective-3	Pharmaceutical Microbiology	4004
Elective-4	Genomics	4004
	Phycology and Mycology	3014
Elective-5	Metagenomics	3014
	Food and Dairy Microbiology	3014
Elective-6	Medical Microbiology	3014

Parasitology Specialization

Category of Course Subject LTP Cred						
Elective-1	Parasitology	4004				
Elective-1	Virology	4004				
Election 2	Toxicology and Vector Biology	3014				
Elective-2	Bacteriology	3014				
	Genetic disorders	4004				
Elective-3	Plant Pathology	3014				
Elective-4	Genomics	4004				
	Phycology and Mycology	3014				
Elective-5	Metagenomics	3014				
Elective-6	Epigenetics and Chromatin Biolog	y 4 ₀₀₄				

Medical Biochemistry Specialization

Category of Co	LTP Credits	
Elective-1	Clinical correlations of disease	4004
Elective-2	Toxicology and Vector Biology	3014
Elective-2	Medical Biochemistry	3014
Elective-3	Genetic disorders	4004
Elective-4	Genomics	4004
	Biochemistry of Metabolism	4004
Elective-5	Metagenomics	3014
2.000,70	Bioorganic and Medicinal Chemistry	3014
Elective-6	Epigenetics and Chromatin Biology	4004
	Hormones: Biochemistry and Function	n 4 0 0 4

List of	f Generic	Elect	tives (GE) offered from D)ivi	sio	n o	f Li	ife Sciences
S.No.	Semester	Code	Course name	L	T	P	C	Discipline
1.	I		Fundamentals of Cell Biology	3	0	1	4	Life Sciences
2.	II		Biochemistry & Physiology	4	0	0	4	Life Sciences
3.	III		Introduction to Microbial World	3	0	1	4	Life Sciences
4.	IV		Fundamentals of Molecular Biology	3	0	1	4	Life Sciences
5.	V		Concept of Immunology	3	0	1	4	Life Sciences
6.	VI		Gene Technology and Human Welfare	3	0	1	4	Life Sciences
7.	VII		Microbial Physiology and Metabolism	4	0	0	4	Microbiology
8.	VIII		Microbial Genetics and Genomics	3	0	1	4	Microbiology
9.	VII		Human Physiology- I	3	0	1	4	Biomedical Science
10.	VIII		Human Physiology -II	4	0	0	4	Biomedical Science
11.	VII		Biochemistry of Metabolism	4	0	0	4	Biochemistry
12.	VIII		Bioorganic and Medicinal Chemistry	3	0	1	4	Biochemistry
13.	VII		Diversity of Non-Chordates, Parasitology and Economic Zoology	3	0	1	4	Zoology
14.	VIII		Diversity of Chordates and Comparative Anatomy	3	0	1	4	Zoology