

Scheme for Five Year Integrated B. Sc., M. Sc. programme in Zoology under CBCS

Semester- 1

	Code	Title of the Course	Credits
CORE	ZOO-CC-101	Animal Diversity (Non-Chordates)	04
	ZOO-CC-102	Cell Biology	04
	ZOO-CC-103	Lab. Course based on CC-101 & CC-102	02
	ZOO-CC-104	Fundamentals of Biochemistry	04
	ZOO-CC-105	Lab. Course of Biochemistry	02
DSE	NIL		
GE	Any one from the following combinations		
	ZOO-GE-101	Chemistry: Inorganic Chemistry-I	04
	ZOO-GE-102	Lab. Course Chemistry	02
	OR		
	ZOO-GE-103	Botany: Biodiversity (Microbes, Algae, Fungi & Archegoniate)	04
	ZOO-GE-104	Lab. Course Chemistry	02
AEC	ZOO- AEC-101	Functional English/	02
	ZOO-AEC-102	Urdu/	
	ZOO-AEC-103	Arabic/	
	ZOO-AEC-104	Hindi	
Total credits:			24

For four credit courses marks shall be divided as follows:

CIA: 40

ESE: 60

For Two credit course marks shall be divided as follows:

CIA: 20

ESE: 30

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Semester- II

	Code	Title of the Course	Credits
CORE	ZOO-CC-201	Animal Diversity (Chordates)	04
	ZOO-CC-202	Genetics	04
	ZOO-CC-203	Lab. Course based on CC-201 & CC-202	02
	ZOO-CC-204	Animal Physiology	04
	ZOO-CC-205	Lab. Course of Animal Physiology	02
DSE	NIL		
GE	Any one from the following combinations		
	ZOO- GE-201	Chemistry: Organic Chemistry-I	04
	ZOO- GE-202	Lab. Chemistry	02
	OR		
	ZOO-GE-203	Botany: Plant Ecology and Taxonomy	04
	ZOO-GE-204	Lab. Botany	02
AEC	ZOO-AEC-201	Environmental Science	02
SEC	NIL		
Total credits:			24

For four credit courses marks shall be divided as follows:

CIA: 40 **ESE: 60**

For Two credit course marks shall be divided as follows:

CIA: 20 **ESE: 30**

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Semester- III

	Code	Title of the Course	Credits
CORE	ZOO-CC-301	Systematics & Evolution	04
	ZOO-CC-302	Parasitology & Entomology	04
	ZOO-CC-303	Lab. Course based on CC-301 & CC-302	02
	ZOO-CC-304	Molecular Biology	04
	ZOO-CC-305	Lab. Course of Molecular Biology	02
DSE	NIL		
GE		Any one from the following combinations	
	ZOO- GE-301	Chemistry: Physical Chemistry-I	04
	ZOO-GE-302	Lab. Chemistry	02
		OR	
	ZOO-GE-303	Botany: Anatomy of Angiosperms	04
	ZOO-GE-304	Lab. Botany	02
AEC	NIL		
SEC	ZOO-SEC-301	Mathematics and Statistics for Biologist	02
		OR	
	ZOO-SEC-302	Organic Farming	
		Total credits:	24

For four credit courses marks shall be divided as follows:

CIA: 40

ESE: 60

For Two credit course marks shall be divided as follows:

CIA: 20

ESE: 30

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Semester- IV

	Code	Title of the Course	Credits
CORE	ZOO-CC-401	Comparative anatomy of vertebrates	04
	ZOO-CC-402	Applied Zoology	04
	ZOO-CC-403	Lab. Course based on CC-401 & CC-402	02
	ZOO-CC-404	Immunology	04
	ZOO-CC-405	Lab. Course of Immunology	02
DSE	NIL		
GE	Any one from the following combinations		
	ZOO- GE-401	Chemistry: Inorganic Chemistry-II	04
	ZOO- GE-402	Lab. Chemistry	02
	OR		
	ZOO-GE-403	Botany: Economic Botany	04
	ZOO-GE-404	Lab. Botany	02
AEC	NIL		
SEC	ZOO-SEC-401	IT Skills	02
	OR		
	ZOO-SEC-402	Public Health and Hygiene	
Total credits:			24

For four credit courses marks shall be divided as follows:

CIA: 40

ESE: 60

For Two credit course marks shall be divided as follows:

CIA: 20

ESE: 30

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Semester- V

	Code	Title of the Course	Credits
CORE	ZOO-CC-501	Animal Ecology	04
	ZOO-CC-502	Wildlife Management & Conservation	04
	ZOO-CC-503	Lab. Course based on CC-501 & CC-502	02
	ZOO-CC-504	Biotechniques	04
	ZOO-CC-505	Lab. Course of Biotechniques	02
DSE	NIL		
GE	Any one from the following combinations		
	ZOO- GE-501	Chemistry: Organic Chemistry-II	04
	ZOO- GE-502	Lab. Course Chemistry	02
	OR		
	ZOO-GE-503	Botany: Plant Physiology & Reproductive biology	04
	ZOO-GE-504	Lab. Course Botany	02
AEC	NIL		
SEC	ZOO-SEC-501	Personality & Entrepreneurship development	02
	OR		
	ZOO-SEC-502	Sericulture	
Total credits:			24

For four credit courses marks shall be divided as follows:

CIA: 40

ESE: 60

For Two credit course marks shall be divided as follows

CIA: 20

ESE: 30

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Semester- VI

	Code	Title of the Course	Credits
CORE	ZOO-CC-601	Reproductive & Developmental Biology	04
DSE	ZOO-DSE-601	Pisciculture	02
	ZOO-DSE-602	Dairy Farming	02
	ZOO-DSE-603	Poultry Farming	02
	ZOO-DSE-604	Agro-Chemicals and Pest Management	02
	ZOO-DSE-605	Biostatistics	02
	ZOO-DSE-606	Recombinant DNA Technology	02
GE	Any one from the following combinations		
	ZOO- GE-601	Chemistry: Physical Chemistry-II	04
	ZOO -GE-602	Lab. Chemistry	02
	OR		
	ZOO-GE-603	Botany: Plant Biotechnology & Conservation	04
	ZOO-GE-604	Lab. course Botany	02
	Any one from the following		
SEC	ZOO-SEC-601	Herbal Medicine	
	ZOO-SEC-602	Apiculture	02
	ZOO-SEC-603	Aquaculture	
	Total credits:		24

For four credit courses marks shall be divided as follows:

CIA: 40

ESE: 60

For Two credit course marks shall be divided as follows:

CIA: 20

ESE: 30

Total credits for B. Sc.= 144

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Semester- VII

	Code	Title of the Course	Credits
CORE	ZOO-CC-701	Biosystematics	4
	ZOO-CC-702	Animal, Structures & Functions	4
	ZOO-CC-703	Animal Behaviour	4
	ZOO-CC-704	(Lab. Course)	4
<u>Anyone from the following Combinations</u>			
DSE	ZOO-DSE-701	General Entomology	2
	ZOO-DSE-702	(Lab. Course)	2
	ZOO-DSE-703	General Parasitology	2
	ZOO-DSE-704	(Lab. Course)	2
	ZOO-DSE-705	Fish Classification and Structure	2
	ZOO-DSE-706	(Lab. Course)	2
<u>For the Students of other Departments</u>			
OGE	ZOO-OGE-701	Nutrition and Health	4
			Total Credits: 24

For Four Credit Courses Marks shall be divided as follows:

CIA: 40

ESE: 60

For Two Credit Course Marks shall be divided as follows:

CIA: 20

ESE: 30

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Semester- VIII

	Code	Title of the Course	Credits
	ZOO-CC-801	Inheritance Biology	4
	ZOO-CC-802	Evolutionary Biology	4
CORE	ZOO-CC-803	Advanced Developmental Biology	4
	ZOO-CC-804	(Lab. Course)	4

Anyone from the Following Combinations

	ZOO-DSE-801	Insect Ecology, Anatomy & Physiology	2
	ZOO-DSE-802	(Lab. Course)	2
DSE	ZOO-DSE-803	Plant Nematology and Parasitic Resistance	2
	ZOO-DSE-804	(Lab. Course)	2
	ZOO-DSE-805	Fish Physiology and Ecology	2
	ZOO-DSE-806	(Lab. Course)	2

For the Students of other Departments

OGE	ZOO-OGE-801	Ornamental Fisheries	4
			Total Credits: 24

For Four Credit Courses Marks shall be divided as follows:

CIA: 40

ESE: 60

For Two Credit Course Marks shall be divided as follows:

CIA: 20

ESE: 30

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Semester- IX

	Code	Title of the Course	Credits
CORE	ZOO-CC-901	Population Ecology/Limnology	4
	ZOO-CC-902	Environmental & Conservation Biology	4
	ZOO-CC-903	Vertebrate Endocrinology	4
	ZOO-CC-904	(Lab. Course)	4

Anyone from the Following Combinations

DSE	ZOO-DSE-901	Agricultural Pests/Medical & Veterinary Entomology	2
	ZOO-DSE-902	(Lab. Course)	2
	ZOO-DSE-903	Parasite Immunology and Immunodiagnostics	2
	ZOO-DSE-904	(Lab. Course)	2
	ZOO-DSE-905	Fish Culture, Adaptations and Health	2
	ZOO-DSE-906	(Lab. Course)	2

For the Students of other Departments

OGE	ZOO-OGE-901	Animal Resource	4
			Total Credits: 24

For Four Credit Courses Marks shall be divided as follows:

CIA: 40

ESE: 60

For Two Credit Course Marks shall be divided as follows:

CIA: 20

ESE: 30

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Semester- X

	Code	Title of the Course	Credits
	ZOO-CC-10-01	Comparative Animal Physiology	4
	ZOO-CC-10-02	Environmental Physiology	4
CORE	ZOO-CC-10-03	Cell and Molecular Biology	4
	ZOO-CC-10-04	(Lab. Course)	4

Anyone from the Following Combinations

	ZOO-DSE-10-01	Insect behaviour and control	2
	ZOO-DSE-10-02	(Lab. Course)	2
DSE	ZOO-DSE-10-03	Emerging Zoonotic and Parasite Management	2
	ZOO-DSE-10-04	(Lab. Course)	2
	ZOO-DSE-10-05	Fish Resource, Collection and Preservation	2
	ZOO-DSE-10-06	(Lab. Course)	2

For the Students of other Departments

OGE	ZOO-OGE-10-01	Organic Farming	4
			Total Credits: 24

For Four Credit Courses Marks shall be divided as follows:

CIA: 40

ESE: 60

For Two Credit Course Marks shall be divided as follows:

CIA: 20

ESE: 30