

# Monthly Lesson Plan of 2023-24 Session

B.Sc. II<sup>nd</sup> year III<sup>rd</sup> semester (zoology.)

Sl. No.	Month	Topic Name	Unit Name
1.	01 August 2023 to 31 <sup>st</sup> August 2023. 01.08.2023 to 05.08.2023.	Introduction, Origin, Evolutionary Tree and classification. Brief classification of Chordates with characters	Chordata
2.	07.08.2023 to 18.08.2023	General character, classification, Biodiversity and Affinities.	Urochordata
3.	21.08.2023 to 29.08.2023	<u>Herdmania foltida.</u> External division and Internal Anatomy. General characters classification, Biodiversity and Affinities.	Cephalochordata
4.	September 2023 01.09.2023 to 09.09.2023	<u>Branchiostoma lanceolatum</u> Body wall, Digestive Branchiostoma -System; Respiration lanceolatum Blood vascular system Sense organs Reproductive system Primitive character	

Monthly lesson plan for 2023-24

B.Sc. II<sup>nd</sup> yr. III<sup>rd</sup> Semester Zoology.

No.	Month (September)	Topic Name	Unit Name.
5.	11.09.2023 (September) to 23.09.2023.	Specialized character of Branchiostoma lanceolatum General character classification & Examples of Cyclostomata <u>Petromyzon marinus.</u>	Cyclostomata Agnathostomata
		Anatomy & Physiology of <u>Petromyzon marinus.</u> Ammocoete larva, Migration in <u>Petromyzon marinus.</u>	Ammocoete larva
6.	26.09.2023 to 30th.09.2023.	osteichthyes - General character, classification Biodiversity & Economic importance, Body wall	osteichthyes. Labeo rohita
7.	October 2023 03 October to 21 October 2023 03.10.2023 to 6.10.2023	Digestive system, Respiratory system, Circulatory system Excretory system Nervous System Sense organs Eye (photoreceptor) Statocyst Equilibrium	Labeo rohita.

## Lesson plan of 2023-24.

No.	Month	Topic name	Unit name
8.	09.10.2023 to 20.10.2023	Parental care Migration. Carbohydrates Monosaccharide oligosaccharide Polysaccharide.	Labeo rohita Origin of fish Parental care Migration. Biochemistry
9.	21.10.2023.	Protein - Primary, Secondary Tertiary and Quaternary Structure, Simple, Compound (conjugated and Derived Protein). Lipids - Simple, Compound and derived lipids. Enzymes. Introduction Mammalian physiology	

Lesson Plan for 2023-24 Session.

B.Sc. ~~III<sup>rd</sup>~~ <sup>V<sup>th</sup></sup> semester zoology.

No.	Month	Topic Name	Unit Name
1.	01 August 2023 to 31 <sup>st</sup> August 2023 01-08-2023 to 05-08-2023	our - Universe Some facts origin of our solar system Theories of origin of life.	Origin of life - I. : Organic compounds, Coacervates and Biomolecules.
2.	07.08.2023 to 18.08.2023.	Materialistic Theory of origin of life.	origin of Life - II: Prokaryotic and Eukaryotic life.
3.	21.08.2023 to 29.08.2023	Origin of life Prokaryotic life Nature of Prokaryotic life; Evolution of Prokaryotic life. Impact of photosynthesis. other modes of nutrition.	origin of Life - II: Prokaryotic and Eukaryotic life.
4.	September 2023 01-09-2023 to 09-09-2023.	Symbiotic hypothesis origin of Eukaryotic life (cells); Invasion theory Synthetic theory of origin of life.	Life - II: Prokaryotic and Eukaryotic life.

Month (Date)

Lesson - plan for 2023-24  
Topic Name

Unit Name

11.09.2023 (September)  
to  
23.09.2023.

Organic  
Evolution  
Historical Aspect  
of evolution  
Morphological And  
Anatomical evidences of  
evolution. Connecting  
links. Vestigial organs.

Organic  
Evolution:  
Evidences of  
evolution.

6. 26.09.2023 to  
30th. 09.2023.

Similar vertebrate  
organ systems.  
Palaeontological  
evidences.

Lamarck's  
doctrine of evolution  
Darwin theory  
Hedamarcism  
Neodarwinism.

Organic  
Evolution:  
Theories of organic  
evolution.

7. October 2023.

2 03 October 2023  
to 06.10.2023.

Mutation Theory  
Types of Evolution  
Micro  
Macro, mega evolution  
Concept of species.

Types of  
Evolution:  
Micro, Macro  
and Mega-  
evolution.

Phylogeny of Hesse.

Human evolution

Phylogeny of  
Hesse.

Human  
Evolution.

Lesson plan of 2023-24.

Month

Topic Name

Unit Name.

09.10.2023  
to  
20.10.2023

Gametes; cleavage  
and blastulation  
Fertilization And  
Parthenogenesis

Section B.  
Developmental  
Biology.

Development  
of chick

↓  
Post-fertilization  
changes; Embryonic

induction; Extra-  
-Embryonic membrane  
Competence, determination  
differentiation.  
Regeneration.

9. 21.10.2023  
to

Lesson Plan for 2023-24  
B.Sc. I<sup>st</sup> year I<sup>st</sup> Semester Zoology.

Sr. No.	Month	Topic	Unit/Name
1.	01 August 2023 01-08-2023 to 31-08-2023	Peculiar features and classification of Protozoa	Unit I name Protozoa character classification and example.
2.	17-08-2023 to 18-08-2023	Plasmodium Vivax Life cycle. Schizogony, gamogony sporogony.	Plasmodium vivax  Plasmodium vivax
3.	25-08-2023 to 26-08-2023 31-08-2023	Phylum Porifera character and classification.	Porifera- character classification and examples
4.	01 September 2023- to 30 <sup>th</sup> September 2023	Habitat Habit Morphology and system, Histology	Porifera Scypha (Sycon).
5.	8-09-2023 to 9-09-2023	Skeleton of Sycon; Physiology of Sycon	Scypha ciliatum

# Lesson Plan for 2023-24

Class - B.Sc. Lif Science I<sup>st</sup> Yr. I<sup>st</sup> Sem. Zoology

No.	Month	Topic Name	Unit
6.	14.09.2023 to 16.09.2023	Reproduction. Regeneration.	↳ Chapter-4 Squilla ciliatum
7.	28.09.2023 to 30.09.2023	Diff. species of Cockroach. Habitat Habit, External Morphology	Phylum Arthropoda Chapter-4
8.	5.10.2023 to 7.10.2023	Body cavity Digestive system	
9.	12.10.2023	Respiratory system Circulatory system Excretory system	
10.	19.10.2023		
11.	20.10.2023		
12.	21.10.2023	Character classification and examples Asterias - sea star Nubians - Body wall Endoskeleton; Coelom.	Phylum Echinodermata



# List of Percentage of syllabus completed-

No. slb.

1.

Class

Syllabus completed

B.Sc. I<sup>st</sup> yr. I<sup>st</sup> Semester

80%

Non chordata - Type study. (Life & diversity).

2.

B.Sc. II<sup>nd</sup> yr. III<sup>rd</sup> Semester

80%.

Chordata. Life & diversity of chordata upto  
Pisces & mammalian physiology

3.

B.Sc. III<sup>rd</sup> yr. V<sup>th</sup> Sem.

80%.

Evolution & Developmental  
Biology.

Environmental study (Biology).

Pranav