Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans- Odd Semester (Semester-I)

Session – 2023-24

Department- Zoology

Name of the Teacher- Dr. Sarabjeet Kaur

Class- B.Sc. I (Medical)

Single section

Subject- Zoology

Paper–I: Biodiversity & Cell Biology-I (ZOO-101)

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
July	21.07.2023	31.07.2023	**Organization of Cell** - Concept of Prokaryotic and Eukaryotic cell, extra nuclear and nuclear organization of cell.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 03.08.2023 to review the progress of syllabus as per lesson plans				
August	01.08.2023	31.08.2023	**Detailed study of the following protozoan types**: *Amoeba, Paramecium, Plasmodium and Entamoeba* **Classification up to orders with ecological notes and economic importance (if any) of the following**: *Entamoeba, Trypanosoma, Giardia, Noctiluca, Eimeria, Opalina,Vorticella, Balantidium and Nyctotherus*.	Power point presentation, group discussion, assignments, Flipped classroom method Practical demonstration using museum specimens, group discussions
Departmental Meeting on 02.09.2023 to review the progress of syllabus as per lesson plans				
September	01.09.2023	30.09.2023	**Detailed study of the following animal types**: *Sycon* **Classification up to orders with ecological notes and economic importance (if any) of the following**: *Grantia, Euplectella, Hyalonema and Spongilla.* **Detailed study of the following animal types: *Obelia*** Classification up to orders with ecological notes and economic importance (if any) of the following: *Hydra, Sertularia, Plumularia, Obelia, Tubularia, Bougainvillea, Porpita,Velella, Physalia, Rhizostoma, Millipora, Aurelia, Alcyonium, Tubipora, Zoanthus, Metridium, Madrepora, Favia, Fungia and Astrangia.*	Power point presentation, group discussion, assignments, Flipped classroom method Practical demonstration using museum specimens, group discussions
Departmental Meeting on 03.10.2023 to review the progress of syllabus as per lesson plans				
October	01.10.2023	31.10.2023	**Mitochondria** - Structure, mitochondrial enzymes and the role of mitochondria in respiration. Mitochondrial DNA. **Plasma membrane** - Structure with particular	Power point presentation, group discussion, assignments, Flipped classroom method

			references to Fluid Mosaic Model, Osmosis, active and passive transport, endocytosis and exocytosis. **MST**	
Departmental Meeting on 02.11.2023 to review the progress of syllabus as per lesson plans				
November	01.11.2023	18.11.2023	**Methods in Cell Biology** - Principles and applications of light (simple, compound & phase contrast) and electron (SEM & TEM) microscopes Fixation & fixatives, staining techniques (simple and double staining). **Endoplasmic reticulum** - Structure, types, associated enzymes and functions **Golgi complex** - Structure, associated enzymes and functions. **Revision and Class test**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 20.11.2023 to review the completion of syllabus as per lesson plans				
End semester Examination 27.11.2023 to 30.12.2023				

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans- Even Semester (Semester-II)

Session – 2023-24

Department- Zoology

Name of the Teacher- Dr. Sarabjeet Kaur

Class- B.Sc. I (Medical)

Single section

Subject- Zoology

Paper–I: Biodiversity & Ecology -I (ZOO-201)

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
January	09.01.2024	31.01.2024	**Detailed study of the following animal type:** Arthropoda – *Periplaneta* Social organizations in insects (honey bee and termite). **Classification upto orders with brief ecological note and economic importance (if any) of the following:** Arthropoda: *Apis*, *Lepisma* (Silver Fish), *Schistocerca* (Locust), *Poecilocerus* (Ak grasshopper), *Gryllus* (Cricket), *Mantis* (Praying Mantis), *Cicada*, *Forficula* (Earwig), *Cimex*, *Scarabaeus* (Dung beetle), *Agrian* (Dragon fly), *Odontotermes* (Termite queen), *Cimex* (bed bug), *Cicindela* (Tiger beetle), *Polistes* (Wasp), *Bombyx* (Silk moth).	Power point presentation, group discussion, assignments, Flipped classroom method Practical demonstration using museum specimens, group discussions
Departmental Meeting on 02.02. 2024 to review the progress of syllabus as per lesson plans				
February	01.02.2024	29.02.2024	**Detailed study of the following animal type:** Arthropoda - Prawn Life cycle of *Anopheles* and *Culex* **Classification upto orders with brief ecological note and economic importance (if any) of the following:** *Peripatus*, Prawn, Lobster, *Cancer* (Crab), *Sacculina*, *Eupagurus* (Hermit crab), *Lepas*, *Balanus*, *Julus* (Millipede), *Scolopendra* (Centipede), *Palamnaeus* (Scorpion), *Aranea* (Spider) *and Limulus* (King crab). **MST**	Power point presentation, group discussion, assignments, Flipped classroom method Practical demonstration using museum specimens, group discussions
Departmental Meeting on 02.03.2024 to review the progress of syllabus as per lesson plans				

March	01.03.2024	31.03.2024	**Ecology -** Subdivisions and Scope of ecology. **Ecosystem -** Components, ecological energetics, food web, introduction to major ecosystems of the world. **Ecological factors -** Temperature, light and soil as ecological factors. **Nutrients -** Biogeochemical cycles & concept of limiting factors.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 02.04.2024 to review the progress of syllabus as per lesson plans				
April	01.04.2024	22.04.2024	**Adaptations:** Ecological, Morphological, physiological and behavioral adaptations in animals in different habitats. **Population-** Characteristics and regulation of population. **Revision and Class test**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 24.04.2024 to review the completion of syllabus as per lesson plans				
End semester Examination 02.05.2024 to 05.06.2024				