Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans- Odd Semester (Semester-I) Session – 2021-22

Department- Zoology

Names of the Teachers- Dr. Divya Sharma (Sec.-A) Ms. Kadambari Pathania (Sec.-B)

Class- B.Sc. I (Medical)

Sections- A & B Subject- Zoology

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

	raper-1: blodiversity & Cell blology-1 (200-101)					
Month Date			Topics to be Covered	Academic Activity		
	From	To		Undertaken		
September	23.09.2021	30.09.2021	Organization of Cell - Concept of Prokaryotic and Eukaryotic cell, extra nuclear and nuclear organization of cell.	Lecture method using online sources, PPT, videos, Flipped classroom method Practical demonstration using museum specimens, group discussions		
October	01.10.2021	31.10.2021	Detailed study of the following protozoan types: Amoeba, Paramecium and Plasmodium. 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. Methods in Cell Biology - Principles and applications of light (simple, compound & phase contrast) and electron (SEM & TEM) microscopes Fixation & fixatives, staining	Lecture method using online sources, PPT, videos, Flipped classroom method Practical demonstration using museum specimens, group discussions		
Departmental	 Meeting to Co	ordinate and R	techniques (simple and double staining). Review the Monthly completion of Syllabus as p	er lesson plans on 03.11.2021		
November	01.11.2021	30.11.2021	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. Endoplasmic reticulum - Structure, types, associated enzymes and functions	Lecture method using online sources, PPT, videos, Flipped classroom method Practical demonstration using museum specimens, group discussions		
			Golgi complex - Structure, associated enzymes and functions. Plasma membrane - Structure with			

			particular references to Fluid Mosaic Model, Osmosis, active and passive transport, endocytosis and exocytosis.				
			MST				
Departmental	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.12.2021						
December	01.12.2021	16.12.2021	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. Mitochondria - Structure, mitochondrial enzymes and the role of mitochondria in respiration. Mitochondrial DNA	Lecture method using online sources, PPT, videos, Flipped classroom method Practical demonstration using museum specimens, group discussions			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 17.12.2021 End semester Examination 17.12.2021 to 27.01.2022							

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans- Even Semester (Semester-II) Session – 2021-22

Department- Zoology

Names of the Teachers- Dr. Divya Sharma (Sec.-A) Ms. Kadambari Pathania (Sec.-B)

Class- B.Sc. I (Medical)

Sections- A & B Subject- Zoology

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

Month	Date		Topics to be Covered	Academic Activity
	From	To	•	Undertaken
February	03.02.2022	28.02.2022	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 (Preying Mantis), Cicada, Forficula (Earwig), Cimex, carabaeus (Dung beetle), Agrian (Dragon fly), Odontotermes (Termite queen), Cimex (bed bug), Cicindela (Tiger beetle), Polistes (Wasp), Bombyx (Silk moth).	Lecture method using online sources, PPT, videos, Flipped classroom method Practical demonstration using museum specimens, group discussions
Departmental Me	eting to Coordi	nate and Review	the Monthly completion of Syllabus as p	
March	01.03.2022	31.03.2022	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	Lecture method using online sources, PPT, videos, Flipped classroom method Practical demonstration using museum specimens, group discussions

				T		
			(Spider) and Limulus (King crab).			
			MST			
			1710 1			
Departmental M	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.04.2022					
April	01.04.2022	30.04.2022	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.	Lecture method using online sources, PPT, videos, Flipped classroom method Practical demonstration using museum specimens, group discussions		
Denartmental M	eeting to Coordi	 nate and Review	 v the Monthly completion of Syllabus as p	er lesson plans on 02 05 2022		
May	01.05.2022	25.05.2022	Nutrients - Biogeochemical cycles & concept of limiting factors. Ecological, Morphological, physiological and behavioral adaptations in animals in different habitats. Population- Characteristics and regulation of population. Revision and Class test	Lecture method using online sources, PPT, videos Flipped classroom method and group discussions		
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 26.05.2022						
End semester Examination 26.05.2022 to 05.07.2022						