Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans- Odd Semester (Semester-I) Session – 2022-23

Department- Zoology

Name of the Teacher- Dr. Sandeep Kaur (Sec.- A& B)

Class- B.Sc. I (Medical) Sections- A & B Subject- Zoology

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

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Month	Date	Topics to be Covered		Academic Activity to				
	From	To		be Undertaken				
August	25.08.2022	31.08.2022	Organization of Cell - Concept of Prokaryotic and Eukaryotic cell, extra nuclear and nuclear organization of cell.	Powerpoint presentation, group discussion, assignments, Flipped classroom method				
Departmental	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 28.08.2022							
September	01.09.2022	30.09.2022	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.	Powerpoint presentation, group discussion, assignments, Flipped classroom method Practical demonstration using museum specimens, group discussions				
Departmental	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.09.2022							
October	01.10.2022	31.10.2022	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. Mitochondria - Structure, mitochondrial	Powerpoint presentation, group discussion, assignments, Flipped classroom method Practical demonstration using museum specimens, group discussions				

			enzymes and the role of mitochondria in respiration. Mitochondrial DNA.				
			MST				
Departmental	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.10.2022						
November	01.11.2022	25.11.2022	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.	Powerpoint presentation, group discussion, assignments, Flipped classroom method			
			Plasma membrane - Structure with				
			particular references to Fluid Mosaic Model, Osmosis, active and passive transport, endocytosis and exocytosis.				
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 22.11.2022							
End semester Examination 28.11.2022 to 31.12.2022							

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans- Even Semester (Semester-II) Session – 2022-23

Department- Zoology

Name of the Teacher- Dr. Sandeep Kaur (Sec.- A& 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 to	
	From	To	•	be Undertaken	
January	16.01.2023	31.01.2023	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, carabaeus (Dung beetle), Agrian (Dragon fly), Odontotermes (Termite queen), Cimex (bed bug), Cicindela (Tiger beetle), Polistes (Wasp), Bombyx (Silk moth).	Powerpoint presentation, group discussion, assignments, Flipped classroom method Practical demonstration usin museum specimens, group discussions	
e partmental Meet February	ing to Coordin 01.02.2023	nate and Review 28.02.2023	the Monthly completion of Syllabus as per 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	Powerpoint presentation, group discussion, assignments, Flipped classroom method Practical demonstration usi museum specimens, group discussions	

March	01.03. 2023	31.03. 2023	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.	Powerpoint presentation, group discussion, assignments, Flipped classroom method		
Departmental Mee	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.03.2023					
April	01.04. 2023	29.04. 2023	Adaptations: Ecological, Morphological, physiological and behavioral adaptations in animals in different habitats. Population- Characteristics and regulation of population.	Powerpoint presentation, group discussion, assignments, Flipped classroom method		
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.04.2023						
End semester Examination 02.05.2023 to 03.06.2023						