

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Odd Semester (Semester-I)
Session – 2019-20

Department- Zoology

Names of the Teachers- Ms. 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)

Month	Date		Topics to be Covered	Academic Activity Undertaken
	From	To		
July	23.07.2019	31.07.2019	Organization of Cell - Concept of Prokaryotic and Eukaryotic cell, extra nuclear and nuclear organization of cell.	Lecture method, PPT
August	01.08.2019	31.08.2019	<p>Detailed study of the following protozoan types: <i>Amoeba, Paramecium and Plasmodium.</i></p> <p>Classification up to orders with ecological notes and economic importance (if any) of the following: <i>Entamoeba, Trypanosoma, Giardia, Noctiluca, Eimeria, Opalina, Vorticella, Balantidium and Nyctotherus.</i></p> <p>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).</p>	Lecture method, PPT Practical demonstration using Museum specimens
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.09.19				
September	01.09.2019	30.09.2019	<p>Detailed study of the following animal types: <i>Sycon</i></p> <p>Classification up to orders with ecological notes and economic importance (if any) of the following: <i>Grantia, Euplectella, Hyalonema and Spongilla.</i></p>	Lecture method, PPT, Practical demonstration using Museum specimens
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 05.10.19				

October	01.10.2019	31.10.2019	<p>Detailed study of the following animal types: Obelia</p> <p>Classification up to orders with ecological notes and economic importance (if any) of the following: <i>Hydra, Sertularia, Plumularia, Obelia, Tubularia, Bougainvillea, Porpita, Velella, Physalia, Rhizostoma, Millipora, Aurelia, Alcyonium, Tubipora, Zoanthus, Metridium, Madrepora, Favia, Fungia and Astrangia.</i></p> <p>MST</p>	Lecture method, PPT, Practical demonstration using Museum specimens
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.11.19				
November	01.11.2019	30.11.2019	<p>Endoplasmic reticulum - Structure, types, associated enzymes and functions</p> <p>Mitochondria - Structure, mitochondrial enzymes and the role of mitochondria in respiration. Mitochondrial DNA.</p> <p>Golgi complex - Structure, associated enzymes and functions.</p> <p>Plasma membrane - Structure with particular references to Fluid Mosaic Model, Osmosis, active and passive transport, endocytosis and exocytosis.</p>	Lecture method, PPT and group discussion
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 30.11.19				

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Even Semester (Semester-II)
Session – 2019-20

Department- Zoology

Names of the Teachers- Ms. 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-201)

Month	Date		Topics to be Covered	Academic Activity Undertaken
	From	To		
January	9.01.2020	31.01.2020	Detailed study of the following animal type: Arthropoda – <i>Periplaneta</i> Social organizations in insects (honey bee and termite).	Lecture method, Online resource (Digi Frog software)
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.02.20				
February	01.02.2020	28.02.2020	Classification upto orders with brief ecological note and economic importance (if any) of the following: Arthropoda: <i>Apis</i> , <i>Lepisma</i> (Silver Fish), <i>Schistocerca</i> (Locust), <i>Poeciloceris</i> (Ak grasshopper) <i>Gryllus</i> (Cricket), <i>Mantis</i> (Preying Mantis), <i>Cicada</i> , <i>Forficula</i> (Earwig), <i>Cimex</i> , <i>carabaeus</i> (Dung beetle), <i>Agrian</i> (Dragon fly), <i>Odontotermes</i> (Termite queen), <i>Cimex</i> (bed bug), <i>Cicindela</i> (Tiger beetle), <i>Polistes</i> (Wasp), <i>Bombyx</i> (Silk moth). Nutrients - Biogeochemical cycles & concept of limiting factors. Ecological - Morphological, physiological and behavioral adaptations in animals in different habitats. Population - Characteristics and regulation of population.	Practical demonstration using Museum specimens Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 05.03.20				

March	01.03.2020	31.03.2020	<p>Detailed study of the following animal type: Arthropoda - Prawn Life cycle of <i>Anopheles</i> and <i>Culex</i></p> <p>Classification upto orders with brief ecological note and economic importance (if any) of the following: <i>Peripatus</i>, Prawn, Lobster, <i>Cancer</i> (Crab), <i>Sacculina</i>, <i>Eupagurus</i> (Hermit crab), <i>Lepas</i>, <i>Balanus</i>, <i>Julus</i> (Millipede), <i>Scolopendra</i> (Centipede), <i>Palamnaeus</i> (Scorpion), <i>Aranea</i> (Spider) and <i>Limulus</i> (King crab).</p> <p>MST</p>	Lecture method, PPT, Practical demonstration using Museum specimens
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plan on 02.04.20				
April	01.04.2020	18.04.2020	<p>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.</p> <p>Revision and Class test</p>	Lecture method, Group discussion and PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 20.04.20				