

Lesson Plan

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

Department- Zoology
Name of the Teacher- Ms. Kadambari Pathania

Class- B.Sc. II (Medical)

Single section
Subject- Zoology

PAPER II: BIOCHEMISTRY AND PHYSIOLOGY-I (ZOO 302)

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
August	17.08.2022	31.08.2022	Biochemistry and its scope Carbohydrates, proteins: classifications and functions.	Powerpoint presentation, group discussion, assignments, Flipped classroom method
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	Lipids and nucleic acids: their classifications and functions. Carbohydrate metabolism: The Embden Meyerhoff, Parnas pathway (Glycolysis), the tricarboxylic acid cycle, the hexose monophosphate shunt, glycogenesis and glycogenolysis. Enzymes: Nature, nomenclature, mode of action, their classification, coenzymes and cofactors.	Powerpoint presentation, group discussion, assignments, Flipped classroom method
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	Digestion: Digestion of dietary constituents, regulation of digestive processes and absorption. extra and intra cellular digestion, enzymatic digestion and symbiotic digestion. Respiration: Exchange and transport of respiratory gases, Oxygen dissociation curve of haemoglobin, Bohr effect, chloride shift, Haldane effect and control of breathing. MST	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.10.2022				
November	01.11.2022	25.11.2022	Heart: Origin and regulation of heart beat, cardiac cycle, electrocardiogram, cardiac output, blood pressure and micro-circulation. Blood: Composition and functions of blood and lymph. Function of hemoglobin, blood clotting. Blood groups including Rh. Factor.	Powerpoint presentation, group discussion, assignments, Flipped classroom method
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-IV)
Session – 2022-23

Department- Zoology
Name of the Teacher- Dr. Divya Sharma
Class- B.Sc. II (Medical)

Single section
Subject- Zoology

PAPER II: BIOCHEMISTRY AND PHYSIOLOGY-II (ZOO- 402)

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
January	16.01.2023	31.01.2023	Lipid metabolism: B-oxidation of fatty acids, fate of glycerol and gluconeogenesis, interaction of carbohydrates and lipids, lipogenesis in tissues, ketosis. Protein metabolism: Metabolism of amino acids (Oxidative deamination, transamination and decarboxylation), hydrolysis of proteins and Ornithine cycle).	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.01.2023				
February	01.02.2023	28.02.2023	Excretion: Structure and types of nephron, urine formation, osmoregulation and counter current mechanism, composition of urine. Endocrine System: Structure, hormones and functions of thyroid, parathyroid, pineal, thymus, hormones of alimentary canal and kidney, adrenal, hypothalamus, pituitary, pancreas and gonads.	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.02.2023				
March	01.03.2023	31.03.2023	Neural Integration: Structure of neuron, resting membrane potential, origin and propagation of impulse along the axon, synapse and myoneural junction. MST	Powerpoint presentation, group discussion, assignments, Flipped classroom method
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	Muscles: Ultrastructure, chemical and physiological basis of skeletal muscle contraction.	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				