

Lesson Plan

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

Monthly Teaching Plans- Odd Semester (Semester-III)

Session – 2024-25

Department- Zoology

Name of the Teacher- Dr. Divya Sharma

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		
July	22.07.2024	31.07.2024	Biochemistry and its scope Carbohydrates, proteins: classifications and functions	Power point presentation, group discussion, assignments, Flipped classroom method
August	01.08.2024	31.08.2024	Lipids and nucleic acids: their classifications and functions. Carbohydrate metabolism: The Embden Meyerhoff, Parnas pathway (Glycolysis), the tricarboxylic acid cycle	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 27.08.2024 to review the progress of syllabus as per lesson plans				
September	01.09.2024	30.09.2024	The hexose monophosphate shunt, glycogenesis and glycogenolysis. Enzymes: Nature, nomenclature, mode of action, their classification, coenzymes and cofactors.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 24.09.2024 to review the progress of syllabus as per lesson plans				
October	01.10.2024	31.10.2024	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	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 29.10.2024 to review the progress of syllabus as per lesson plans				
November	01.11.2024	18.11.2024	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. Revision and Class test	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 18.11.2024 to review the completion of syllabus as per lesson plans				
End semester Examination 19.11.2024 to 26.12.2024				

Lesson Plan

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

Monthly Teaching Plans- Even Semester (Semester-IV)

Session – 2024-25

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	10.01.2025	31.01.2025	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).	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 22.01.2025 to review the progress of syllabus as per lesson plans				
February	01.02.2025	29.02.2025	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.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 27.02.2025 to review the progress of syllabus as per lesson plans				
March	01.03.2025	31.03.2025	Neural Integration: Structure of neuron, resting membrane potential, origin and propagation of impulse along the axon, synapse and myoneural junction. MST	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 27.03.2025 to review the progress of syllabus as per lesson plans				
April	01.04.2025	26.04.2025	Muscles: Ultrastructure, chemical and physiological basis of skeletal muscle contraction. Revision and Class test	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 26.04.2025 to review the completion of syllabus as per lesson plans				
End semester Examination 28.04.2025 to 04.06.2025				