Lesson Plan

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

Session – 2023-24

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		
	From	To		be Undertaken		
July	21.07.2023	31.07.2023	Biochemistry and its scope Carbohydrates, proteins: classifications and functions	Power point presentation, group discussion, assignments, Flipped classroom method		
Departmental Meeting on 03.08.2023 to review the progress of syllabus as per lesson plans						
August	01.08.2023	31.08.2023	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 02.09.2023 to review the progress of syllabus as per lesson plans						
September	01.09.2023	30.09.2023	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 03.10.2023 to review the progress of syllabus as per lesson plans						
October	01.10.2023	31.10.2023	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		
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November	01.11.2023	18.11.2023	.2023 to review the progress of syllabus as per 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.	Power point presentation, group discussion, assignments, Flipped classroom method		
			Revision and Class test			
Departmental Meeting on 20.11.2023 to review the completion of syllabus as per lesson plans						
End semester Examination 27.11.2023 to 30.12.2023						

Lesson Plan

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

Session – 2023-24 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			
	From	To	_	Undertaken			
January	09.01.2024	31.01.2024	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			
Ι	Departmental Meeting on 02.02.2024 to review the progress of syllabus as per lesson plans						
February	01.02.2024	29.02.2024	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			
Ι	Departmental Mo	eeting on 02.03	.2024 to review the progress of syllabus as	per lesson plans			
March	01.03.2024	31.03.2024	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			
Γ	Departmental Meeting on 02.04.2024 to review the progress of syllabus as per lesson plans						
April	01.04.2024	22.04.2024	Muscles: Ultrastructure, chemical and physiological basis of skeletal muscle contraction. Revision and Class test	Power point presentation, group discussion, assignments, Flipped classroom method			
De	Departmental Meeting on 24.04.2024 to review the completion of syllabus as per lesson plans						
End semester Examination 02.05.2024 to 05.06.2024							