

Lesson Plan for Postgraduate course in Zoology for the period July 2015- June 2016,

Dr Debjani Sarkar, Assistant Professor

Academic Quarter	Class	Name of the Teacher	Topics to be covered	No. Of Lectures	Tests
July 15 to September 15	PG Sem I	Dr Debjani Sarkar	Th: Non-chordate Cnidaria- Nematocysts Arthropoda – Compound Eyes, mouth parts, Insect flight. Pr: Preparation of buffer	6+1	Continuous evaluation tests for Sem I and Sem III Final Exams. For Sem II and Sem IV
	PG Sem II				
	PG Sem III		Th: Parasitology Microbiology and Immunology Cells and Molecules involved in innate and adaptive immunity, Major Histocompatibility Complex, Inflammation and Vaccines Spcl Paper: Cells and Organs of Immune System Pr: Slide Agglutination tests Spcl Paper: Immunization process	8+1 3+1	
	PG Sem IV				
September '15 to December '15	PG Sem I		Th: Biochemistry and Biotechnology Animal cell and tissue culture technology Cell and Tissue Muscular tissue Pr: Qualitative and Quantitative estimation of protein	2+2	Continuous evaluation tests for Sem I and Sem III
	PG Sem II				
	PG Sem III		Th: Cyto and Molecular Genetics Transformation, Conjugation and Transduction Applied and Quantitative Biology Application of immunological Principles Spcl Paper: Structure, function and expression of antibody, antigen-antibody interactions. Pr: Immunization process Spcl Paper: Immunization process	6+1 2+1	
	PG Sem IV				

January '16 To March'16	PG Sem I				Final Examinations for Sem I and Sem III
	PG Sem II		Th: Chordate Circulatory system with special reference to venous system, Respiratory system with special reference to ventillary mechanism Pr: ELISA	2+3	Continuous evaluation tests for Sem II and Sem IV
	PG Sem III				
	PG Sem IV		Th: Taxonomy, Evolution and Biodiversity Emergence of Land vertebrates Spcl Paper: Immunodeficiency disease Pr: Spcl Paper: ELISA	1 2+3	
PG Sem II		Th: Developmental Biology Metamorphosis in insects, Ageing and Senescence Pr: Oestrous cycle in rats	3+1		
April'16 To June'16	PG Sem III				Continuous evaluation tests for Sem II and Sem IV
	PG Sem IV		Th: Neurobiology and Endocrinology Learning and memory, Sleep and arousal Spcl Paper: TLR-structure, function and signaling pathways Pr: Spcl Paper: Acute inflammatory response	3 2+2	