

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري لمادة احياء عامة

	Material Covered
Week 1	Introduction - The Science of Biology Why study biology is importance ,Definition of biology, Branches of Biology, Life's Levels of Organization
Week 2	The Characteristics of Living Organisms (1. Nutrition, 2. Respiration , 3. Movement , 4. Excretion, 5. Growth , 6. Reproduction, 7. Sensitivity), Classification of living organisms
Week 3	Introduction to cell, Definition of cell, The cell theory ,cell types (The differences between eukaryotic and prokaryotic cell), cell shapes
Week 4	Prokaryotic Cell Structure (ex: bacterial cell) , Eukaryotic Cell Structure (ex: Animal and Plant cell)
Week 5	Cell membrane, membrane composition, membrane transport (1.passive transport, 2.active transport). - passive transport(osmosis and diffusion) -active transport (bulk transport)
Week 6	Kingdoms of living organisms (Monera , Protista, Fungi, Plantae and Animalia), Properties of viruses, Structure of Viruses , Virus classification, Viral pathogenesis and infection, Portals of entry (routes of infection), Mode of transmission, Identification of Virus (Coronavirus)
Week 7	Monera Kingdom, ex: bacteria, Properties of Bacteria, Classification of Bacteria ,Clinical specimens reaching to the lab , Identification of Bacteria, infections of Bacteria, Mode of transmission, Prevention, Treatment
Week 8	Protista Kingdom, ex: Protozoa, Classification of protozoa , Protozoa Cell Structure (ex:Paramecium), Reproduction of Paramecium
Week 9	Parasitology, Types of Parasites , Medical parasitology, Method of parasitic entry, Life cycle, Diagnosing Parasite Infection, Examples of Medical parasitology
Week 10	Fungi Kingdom, Introduction To Mycology, Importance of fungi (Beneficial Effects and Harmful Effects of Fungi), General properties of fungi, Nutrition of Fungi
Week 11	Classification of fungi , Reproduction in fungi (Asexual reproduction and Sexual reproduction), Importance of Spores (Biological and practical Importance)
Week 12	Classes of fungi (Phycomycetes, Ascomycetes , Basidiomycetes and Deutero mycetes), Fungal Pathogenicity, The Process of Infection , Factors predisposing to fungal infections.

Week 13	Mycoses (Fungal Infections), Superficial Mycoses, Cutaneous Mycoses, Subcutaneous Mycoses, Opportunistic mycoses, Systemic Mycoses, Antifungal Chemotherapy
Week 14	Molecular biology (Genetics), Chemical Composition of DNA and RNA, Pyrimidines and purines, transcription and translation, nucleotide and nucleoside
Week 15	
Week 16	Preparatory week before the final Exam