

SYLLABUS FOR THE SESSION 2023-24

CLASS- XI

SUBJECT- Biology

MONTH	TEXT BOOK-NCERT	DIGITAL RESOURCES	SUBJECT ENRICHMENT ACTIVITIES
July	Ch-1 The Living World Ch-2 Biological Classification	Explanation from E- Library	1. Study and describe locally available common flowering plants from family solanaceae including dissection and display of floral holes, anther and ovary to show number of chambers, type of root, type of stem common leaf. 2. Parts of a compound microscope
August	Ch-3 Plant Kingdom Ch-4 Animal Kingdom Ch-5 Morphology of flowering plants Ch-6 Anatomy of flowering plants	Animated videos	1. Preparation and study of a TS of dicot and monocot roots and stems. 2. Specimen and identification with reasons- bacteria, oscillatoria, spirogyra, rhizopus, mushroom, yeast, monocotyledonous plant, dicotyledonous plant and lichen
September	Ch-7 Structural organisation in animals	Demonstration by video	1. Study of osmosis by potato osmometer 2. Virtual specimen and identifying features of amoeba, hydra, liverfluke, ascaris, leech, earthworm, prawn, silkworm, honey Bee, snail, starfish, Shark, rohu, frog, lizard, pigeon and rabbit.
October	Ch-8 Cell-The unit of life Ch-9 Biomolecules	Demonstration by video	1. Study of plasmolysis in epidermal peels. 2. Study of distribution of stomata on the upper and lower surfaces of leaves. 3. Mitosis in onion root tips cells and animal cells.
November	Ch- 10 Cell cycle and cell division Ch- 13 Photosynthesis in higher plants Ch- 14 Respiration in plants Ch-15 Plants growth and development	Animated videos	1. Comparative study of the rates of transpiration in the upper and lower surface of leaves. 2. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. 3. Study of rate of respiration in flower buds, leaf tissue and germinating seeds
December	Ch- 17 Breathing and exchange of gases Ch-18 Body and exchange of gases Ch-19 Excretory products and their elimination	Demonstration by video	1. Separation of plant pigments through paper chromatography. 2. Test for presence of urea in urine test for presence of sugar in urine, presence of albumin in urine, presence of bile salt in urine.

January	Ch-20 Locomotion and movement Ch-21 Neural control and coordination Ch-22 Chemical coordination and integration	Animated videos	1. Different type of inflorescence. 2. Human skeleton and different types of joints with the help of virtual images and models.
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