

SYLLABUS FOR THE SESSION 2023-24

CLASS: XII

SUBJECT: BIOLOGY

MONTH	TEXT BOOK	DIGITAL RESOURCES	SUBJECT ENRICHMENT ACTIVITIES
April	2. Sexual Reproduction in Flowering Plants	E- Library notes and Smart Class	1 :observation of pollen germination
May	Chapter 3: Human Reproduction. Chapter 4: Reproductive Health	E- Library notes and Smart Class	Practical 2. Study the plant population density by quadrat method. 3.Study the plant population frequency by quadrat method
July	Chapter 5: Principles of Inheritance and Variation. Chapter 6: Molecular Basis of Inheritance.	E- Library notes and Smart Class	Practical 4. Prepare a mount of onion root tip to study mitosis. 5.Isolate DNA from available plant material.
August	Chapter 7 Evolution Chapter 8 Human Health and Diseases	E- Library notes and Smart Class	Spotting : 1.Study ofCommon disease causing organisms like Ascaris, Entamoeba, permanent slides, models or virtual images. .2. Pollen germination on stigma through a permanent slide 3. Identification of stages of gamete development. 4. Meiosis in onion bud cell.

September	Chapter 10: Microbes in Human Welfare	E- Library notes and Smart Class	<p>5. \bar{U}S. of blastula.</p> <p>6. Mendelian inheritance using seeds of different colour/sizes.</p> <p>7. Prepared pedigree charts of any one of the genetic traits.</p> <p>8. Controlled pollination - emasculation, tagging and bagging.</p>
October	Chapter 11. Biotechnology: Principles and processes Chapter 12: Biotechnology and applications	E- Library notes and Smart Class	<p>9. Flowers adapted to pollination</p> <p>10. Models specimen showing symbiotic association in root modules of leguminous plants</p> <p>11. Flash cards and models showing homologous and analogous organs</p>
November	Chapter 13: Organisms and populations Chapter 14: Ecosystem Chapter 15. Biodiversity and Conservation	E- Library notes and Smart Class	Project and Practical Preparation
December	Revision for Board Exams/Preparation for Practical Exams		