

SUBJECT : BIOLOGY

Sr. No.	Month	Chapters	Learning Outcomes
1.	May	Bridge Course Branches of biology. Carrier options in biology. Diagram making. Introduction to biology lab and practicals. Taxonomy Morphology Cytology Physiology	The students will be able to Define different branches of biology. Explain taxonomy and its uses. Define morphology and its application. Define Cytology and methods. Define physiology and related terms. Draw diagrams related to physiology, Cytology, etc.
2.	June	Diversity of living organisms 1. The living world 2. Biological classification 3. Plant kingdom 4. Animal kingdom	The students will be able To understand taxonomy and systematic. To explain rules of Binomial nomenclature. To identify animals of different Phylum of animal kingdom. To identify plants of different Divisions of Plant Kingdom.
3.	June July	Structural organization in plants and animals 5. Morphology of flowering plants 6. Structural organization in animals	The students will be able Draw the structure of different flowers, floral formulas and floral diagrams. To explain different parts of flowers. To describe different types of plant tissues and their functions. To describe different types of animal tissues and their functions.
4.	JULY August	Cell Structure and Function 7. The unit of life 8. Biomolecules 9. Cell cycle and cell division	The students will be able To understand cell as basic unit of life. To explain the structure and function of different cell organelles. Explain structure and function of different biomolecules. To understand the steps and phases of Mitosis and meiosis.
5.	AUGUST	Plant Physiology 10. Photosynthesis I higher plants 11. Respiration I plants 12. Plant Growth and development	The students will be able To understand different steps of photosynthesis and process of carbohydrate synthesis. To understand different steps of cellular respiration . Differentiate between Aerobic and anaerobic respiration.

			To explain function and uses of different plant hormones
6.	SEPTEMBER	Human Physiology 13. Breathing and exchange of gases 14. Body fluids and circulation.	The students will be able To draw structure of human respiratory system. To Explain mechanism of breathing and mechanism of respiration. To understand structure and function of different blood corpuscles. To draw the structure of heart. To explain the mechanism of blood circulation and transport of respiratory gases.
7.	OCTOBER	Human Physiology 15. Excretory products and their elimination. 16. Locomotion and movement	The students will be able To draw the structure of human excretory system To explain structure of kidney. To understand to process of urine formation. To draw the structure of different types of bones. To locate different types of bones and their functions.
8.	NOVEMBER	Human Physiology 17. Locomotion and movement 18. Neural control and coordination	The students will be able To draw the structure of different types of muscles. To explain structure and function of different types of muscles To draw the structure of neuron, reflex arc and brain. To explain different parts of brain and their functions.
9.	DECEMBER	Human Physiology 19. Chemical coordination and integration	The students will be able To locate different types of glands in human body. To differentiate exocrine and endocrine glands . Explain different types of hormones, their source gland and functions.
10.	JANUARY	Revision and Annual exams	
11.	FEBRUARY		
12.	MARCH		
13.			