

**BAGARIA BAL VIDYA NIKETAN**

**LAXMANGARH SIKAR**

**SYLLABUS & LESSON PLANNER - 2024-2025**

<b>Class</b>	<b>XI</b>
<b>Subject</b>	<b>Biology</b>
<b>Teacher Name</b>	<b>Ramdev Dayma</b>

**SYLLABUS**

Unit	Name of Books	Name of Chapter	Working Day	Period	Topic	Month	Week
I Diversity of living organisms	N.C.E.R.T	Chapter 1 The living world	23	32	Biodiversity , need for classification, three domains,taxonomical hierarchy,binomial nomenclature	April	2
		Chapter 2 Biological classification			Five kingdom classification, Salient features and classification of Monera, Protista and Fungi into major groups, Lichens, Viruses and Viruses and Viroids.		2
		Chapter 3 Plant kingdom	13	16	Classification of plants into major groups, Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae.	May	2
		Chapter 4 Animal kingdom	11	14	Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level.	June	2
II Structural Organization in plants and animals	N.C.E.R.T	Chapter 5 Morphology of flowering plants	26	32	Morphology of different parts of flowering plants, Root, stem, leaf, inflorescence, flower, fruit and seed.	July	4
		Chapter 6 Anatomy of flowering			Anatomy and functions of tissue systems in dicots and monocots.		
		Chapter 7 Structural organization			Morphology, Anatomy and functions of different systems of frog.		
III Cell - Structure and function		Chapter 8 Cell- the unit of life	24	32	Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells, plant cell and animal, cell membrane, cell wall, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, plastids, microbodies, cytoskeleton, cilia, flagella, centrioles.	August	4
		Chapter 9 Biomolecules			Chemical constituents of living cells, carbohydrates, lipids, and nucleic acids, enzyme action. Dynamic state of body constituents-Concept of Metabolism.		
		Chapter 10 Cell cycle and cell division			Cell cycle, mitosis, meiosis and their significance		

IV Plant physiology	N.C.E.R.T	Chapter 11 Photosynthesis in higher plants	23	32	Photosynthesis as a means of autotrophic nutrition; nutrition, Cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C <sub>3</sub> and C <sub>4</sub> pathways; factors affecting photosynthesis.	Sept.	4
		Chapter 12 Respiration in plants			Exchange of gases; cellular respiration - glycolysis, fermentation, TCA cycle and electron transport system; energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.		
		Chapter 13 Plant growth and development			Photosynthesis as a means of autotrophic nutrition, site of photosynthesis, pigments involved in photosynthesis, chemiosmotic, hypothesis, photorespiration.		
V Human physiology		Chapter 14 Breathing and exchange of gases	23	32	Exchange of gases, cellular respiration- glycolysis, fermentation, TCA cycle and electron transport system, energy relations- number of ATP molecules generated;	November	4
		Chapter 16 Excretory products and their elimination			Modes of excretion- ammonotelism, ureotelism, uricotelism, human excretory system - structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of their organs in excretion; disorders - uremia, renal		
		Chapter 17 Locomotion and movement			Type of movement - ciliary, flagellar, muscular; muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal system.		
		Chapter 18 Neural control and coordination	23	32	Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.		
	Chapter 19 Chemical coordination and integration	Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease.					
					December	4	