

Class 11 Biology

NCERT-Based Complete Syllabus

Prepared for Study Plan Generation Systems

Academic Year: 2025–2026
Subject Code: Biology (044)

UNIT 1: Diversity of Living Organisms

- Nature, characteristics, taxonomy, binomial nomenclature.
- Five kingdom classification, viruses, viroids, prions.
- Plant Kingdom – algae, bryophytes, pteridophytes, gymnosperms, angiosperms.
- Animal Kingdom – basics & major phyla.

UNIT 2: Structural Organisation in Plants & Animals

- Morphology of flowering plants – root, stem, leaves.
- Anatomy – tissues, tissue systems.
- Structural organisation in animals – tissues, frog/cockroach/earthworm anatomy.

UNIT 3: Cell Structure and Function

- Cell theory, prokaryotic & eukaryotic cells.
- Cell organelles – ribosomes, mitochondria, ER, Golgi, plastids.
- Biomolecules – proteins, lipids, carbohydrates, nucleic acids.
- Cell cycle & division – mitosis, meiosis.

UNIT 4: Plant Physiology

- Transport – diffusion, osmosis, transpiration.
- Mineral nutrition – essential elements, nitrogen cycle.
- Photosynthesis – light & dark reactions.
- Respiration – glycolysis, fermentation, Krebs cycle.
- Plant growth – hormones & development.

UNIT 5: Human Physiology

- Digestion & absorption – digestive system & enzymes.
- Respiration – mechanism & gas exchange.
- Circulation – heart & blood vessels.
- Excretion – kidney & nephron.
- Locomotion – bones & muscles.
- Neural control – neurons & brain.
- Chemical coordination – endocrine glands.

Unit	Unit Name	Weightage (Marks)
1	Diversity of Living Organisms	12
2	Structural Organisation in Plants & Animals	12
3	Cell Structure & Function	12
4	Plant Physiology	14
5	Human Physiology	20