

**Syllabus 2024-2025**  
**English Core (301)**  
**Class XI**

Term 1	Term 2
<p><b><u>Hornbill :</u></b></p> <ol style="list-style-type: none"><li>1) The Portrait of a Lady (Prose)</li><li>2) A Photograph (Poem)</li><li>3) "We're Not Afraid to Die... if we can be together</li><li>4) Discovering Tut: the Saga Continues</li><li>5) The Laburnum Top (Poem)</li><li>6) The Voice of the Rain (Poem)</li></ol> <p><b><u>Snapshots:</u></b></p> <ol style="list-style-type: none"><li>1) The Summer of the Beautiful White Horse (Prose)</li><li>2) The Address (Prose)</li><li>3) The Tale of Melon City</li></ol> <p><b><u>Writing and Grammar :</u></b></p> <ol style="list-style-type: none"><li>1) Poster</li><li>2) Speech</li><li>3) Debate</li><li>4) Questions on Gap filling (Tenses)</li><li>5) Questions on re-ordering</li></ol> <p><b><u>Reading and comprehension :</u></b></p> <ol style="list-style-type: none"><li>1) Note-making</li></ol>	<p><b><u>Hornbill:</u></b></p> <ol style="list-style-type: none"><li>1) Childhood (Poem)</li><li>2) The Adventure (Prose)</li><li>3) Silk Road (Prose)</li><li>4) Father to son (Poem)</li></ol> <p><b><u>Snapshot :</u></b></p> <ol style="list-style-type: none"><li>1) Mother's Day (Play)</li><li>2) Birth ( Prose)</li></ol> <p><b><u>Writing and Grammar :</u></b></p> <ol style="list-style-type: none"><li>1) Advertisements</li><li>2) Questions on Gap filling (Clauses)</li><li>3) Questions on transformation of sentences</li></ol>

वार्षिक पाठ्यक्रम 2024-2025

हिन्दी

कक्षा 11

TERM	पाठ का नाम
<b>TERM 01</b>	
	01 नमक का दरोगा
	02 मियाँ नसीरुद्दीन
	03 अप्पू के साथ ढाई साल
	04 विदाई संभाषण
काव्य खण्ड	01 कबीर पद संख्या -
	02 मीरा पद संख्या -
	03 भवानी प्रसाद मिश्र
	04 त्रिलोचल
	05 दुष्यंत कुमार
वितान	01 भारतीय गायिकाओं में बेजोड़ लता मंगेशकर
	02 राजस्थान की रजत बूँदें
	औपचारिक पत्र, प्रतिवेदन, प्रेस विज्ञप्ति, श्रवण वाचन कार्य, परियोजना कार्य, अपठित पद्यांश तथा गद्यांश, अभिव्यक्ति तथा मध्यम पाठ 1,2,9,10,14,15,16 पर आधारित प्रश्न, स्ववृत्त, लेखन, रोजगार संबंधी आवेदन पत्र, संदर्भ ग्रन्थों की उपयोगिता विधि
<b>TERM 02</b>	
	01 गलता लोहा, 02 रजनी, 03 जामुन का पेड़, 04 भारत माता
	अक्क महादेवी, पाश, निर्मला पुतुल
	आलोआँधारि, जनसंचार, कार्यालय हिन्दी, डायरी लेखन, कथा पटकथा लेखन
	04 भारत माता

**SYLLABUS 2024-25**  
**MATHEMATICS**  
**Class -XI**

**Term I**

1. Sets
2. Relations and Functions
3. Trigonometric functions
4. Complex numbers and Quadratic equations
5. Permutations and Combinations
6. Sequence and series
7. Statistics

**Term II**

1. Linear inequations
2. Binomial theorem
3. Straight line and conic sections
4. 3D
5. Limits and derivatives
6. Probability

**SYLLABUS**  
**CLASS - XI (2024 - 2025)**  
**SUB - PHYSICS**

**TERM - 1**  
**(APRIL - SEPTEMBER)**

CHAPTER 2 : UNIT AND MEASUREMENTS- April  
CHAPTER 3 : MOTION IN STRAIGHT LINE- April  
CHAPTER 4 : MOTION IN PLANE- May  
CHAPTER 5 : LAWS OF MOTION- July  
CHAPTER 6 : WORK , ENERGY , POWER- July  
CHAPTER 7 : SYSTEM OF PARTICLES AND ROTATIONAL MOTION- August  
September : Revision 1st term exam

**TERM - 2**  
**(OCTOBER - JANUARY)**

CHAPTER 8 : GRAVITATION- October  
CHAPTER 9 : MECHANICAL PROPERTIES OF SOLIDS- October  
CHAPTER 10 : MECHANICAL PROPERTIES OF FLUIDS- November  
CHAPTER 11 : THERMAL PROPERTIES OF MATTER- November  
CHAPTER 12 : THERMODYNAMICS- December  
CHAPTER 13 : KINETIC THEORY- December  
CHAPTER 14 : OSCILLATIONS- January  
CHAPTER 15 : WAVES- January

**NOTE :**

CHAPTER 2,3,4,5 (23 MARKS)  
CHAPTER 6 , 7, 8 (17 MARKS)  
CHAPTER 9 ,10 ,11,12,13 (20 MARKS)  
CHAPTER 14 ,15 (10 MARKS)

**TOTAL MARKS : 70**

**CHEMISTRY (043)**

**SYLLABUS**

**CLASS XI (2024-25 )**

**TERM 1**

1. Some basic concepts of chemistry
2. Structure of Atom
3. Classification of elements and periodicity in properties
4. Chemical bonding and molecular structure
5. Chemical thermodynamics

**TERM 2**

1. Equilibrium
2. Redox reactions
3. Organic chemistry: Some basic principles and techniques
4. Hydrocarbons

# Biology Syllabus

2024-25

Class – 11

Term - 1

## Unit-I Diversity of Living Organisms

### **Chapter-1: The Living World**

Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature

### **Chapter-2: Biological Classification**

Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.

### **Chapter-3: Plant Kingdom**

Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae (Topics excluded – Angiosperms, Plant Life Cycle and Alternation of Generations)

### **Chapter-4: Animal Kingdom**

Salient features and classification of animals, non-chordates up to phyla level and chordates upto class level (salient features and at a few examples of each category).

## **Unit-II Structural Organization in Plants and Animals**

### **Chapter-5: Morphology of Flowering Plants**

Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae

### **Chapter-6: Anatomy of Flowering Plants**

Anatomy and functions of tissue systems in dicots and monocots.

### **Chapter-7: Structural Organisation in Animals**

Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.

## **Unit-III Cell: Structure and Function**

### **Chapter-8: Cell-The Unit of Life**

Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.

### **Chapter-9: Biomolecules**

Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, and nucleic acids; Enzyme - types, properties, enzyme action. (Topic excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents Concept of Metabolism, Metabolic Basis of Living, The Living State)

**Chapter-10: Cell Cycle and Cell Division**  
Cell cycle, mitosis, meiosis and their significance

## Term- 2

### Unit-IV Plant Physiology

#### **Chapter-13: Photosynthesis in Higher Plants**

Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C<sub>3</sub> and C<sub>4</sub> pathways; factors affecting photosynthesis.

#### **Chapter-14: Respiration in Plants**

Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.

#### **Chapter-15: Plant - Growth and Development**

Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; plant growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA.

### Unit-V Human Physiology

#### **Chapter-17: Breathing and Exchange of Gases**

Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.

#### **Chapter-18: Body Fluids and Circulation**

Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.

#### **Chapter-19: 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 other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.

#### **Chapter-20: Locomotion and Movement**

types of movement  
muscle contraction systems - myasthenia

Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and musclecontraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.

### **Chapter-21: Neural Control and Coordination**

Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse

### **Chapter-22: Chemical Coordination and Integration**

Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease.



**Economics (030) - 2024-25**

**Class : XI**

**Term I**

**MicroEconomics :**

- April **Unit 1: Introduction**  
1. Introduction
- April **Unit 2: Consumer's Equilibrium And Demand**  
2. Consumer's Equilibrium  
3. Demand  
4. Elasticity of Demand
- May **Unit 3: Producer Behaviour And Supply**  
5. Production Function  
6. Cost  
7. Revenue  
8. Producer's Equilibrium

**Statistics**

- July **Unit 1: Introduction**  
1. Economics : An Introduction  
2. Meaning, Scope and Importance of Statistics
- August **Unit 2: Collection, Organisation And Presentation of Data**  
3. Collection of Data  
4. Organisation of Data  
5. Tabular Presentation  
6. Diagrammatic Presentation  
7. Graphic Presentation

September **Revision & Half yearly examination**  
**Term II**

**MicroEconomics :**

- October **Unit 3 : Producer Behaviour And Supply**  
Supply
- October **Unit 4: Forms of Market And Price Determination Under Perfect Competition with simple Applications**  
Main Market Forms  
Price Determination with Simple Applications

**Statistics**

**Unit 3: Statistical Tools And Interpretation**

- December **Measures of Central Tendency—Arithmetic Mean**  
7. Measures of Central Tendency—Median and Mode  
8. Measures of Dispersion
- January **Measures of Correlation**  
9. Index Numbers
- February **Revision & Annual examination**

**SYLLABUS. SESSION-2024-25**

**CLASS XI**

**SUB: ACCOUNTANCY**

**TERM - I (JULY - SEPTEMBER)**

1. Introduction to Accounting
2. Theory Base of Accounting
3. Recording of Transactions-I
4. Recording of transaction -II
5. Bank Reconciliation Statement
6. Trial Balance & Rectification of Errors

**TERM - II (OCTOBER-FEBRUARY)**

1. Depreciation, Provision and Reserves
2. Financial Statements of Sole Proprietorship
3. Incomplete Records
4. Project Work

**BUSINESS STUDIES (Code no. 054)**

**CLASS XI**

**SYLLABUS 2024-25**

**Theory : 80 marks**

**Project : 20 marks**

**TERM 1**

Units	
<b>Part A</b>	<b>Foundations of Business</b>
1.	Nature and Purpose of Business
2.	Forms of Business Organizations
3.	Public, Private and Global Enterprise
4.	Business Services
5.	Emerging Modes of Business
6.	Social Responsibility of Business and Business Ethics

**TERM 2**

Units	
<b>Part B</b>	<b>Finance and Trade</b>
7.	Sources of Business Finance
8.	Small Business
9.	Internal Trade
10.	International Business

**Part C - PROJECT WORK**

**P A -1**  
**CLASS-XI**  
**SUB- YOGA**  
**SYLLABUS**

**UNIT -1**

**Introduction to yoga and yogic practices-II**

**Communication skills-IV**

**SHRIKANT YADAV**

**03/05/2024**

2024-2025

**SYLLABUS**  
**CLASS - XII**  
**SUB.- COMPUTER SCIENCE**

		Ch. No.	Name of the Chapters
<b>TERM-I</b>	April - September	April	Python Revision Tour - I
		April	Python Revision Tour - II
		May	Working with Functions
		July	Using Python Libraries
		July	File Handling
		August	<b>*Recursion</b>
		August	<b>*Idea of algorithmic Efficiency</b>
		August	Computer Networks - I
		September	Relational Databases simple Queries in SQL
<i>September</i>		<i>Revision + 1st Term Exam</i>	
<b>TERM-II</b>	Oct.-Dec.	Oct	Data Structures - I Linear Lists
		Oct	Data Structures-II Stack & Queue
		Oct	Compter Networks -II
		Nov	Table Creation & Data Manipulation Grouping Records, Joins in SQL
		Nov	Interfacing Python with My Sql
<i>December</i>		<i>Revision + 1st Pre Board Exam</i>	
<i>January</i>		<i>2nd Pre - Board</i>	

1) PRACTICAL REPORT: Based on cycles conatining 20\*5 Python/SQL Questions

2) PROJECT REPORT : Any Application Software using Language Python)

Like: Indian Railway, Banking system, Telephone Directiries etc)

Prescribed Book:

**COMPUTER SCIENCE PYTHON, Sumita Arora**

\*Given in Book but not in Syllabus of 2024