

# INDIAN PUBLIC SCHOOL KATHUA

Academic syllabus 2024-25

Class-12<sup>th</sup>

Non-Medical and Medical

SUBJECT- CHEMISTRY

PA-1:

1. Solutions
2. Electrochemistry

TERM 2:

3. Chemical Kinetics
4. d -and f -Block Elements
5. Coordination Compounds
6. Haloalkanes and Haloarenes

PA-2:

7. Alcohols, Phenols and Ethers
8. Aldehydes, Ketones and Carboxylic Acids

TERM2:

1. Solutions
2. Electrochemistry

3. Chemical Kinetics
4. d -and f -Block Elements
5. Coordination Compounds
6. Haloalkanes and Haloarenes
7. Alcohols, Phenols , and Ethers
8. Aldehydes, Ketones, and Carboxylic Acids
9. Amines
10. Biomolecules

### SUBJECT- PHYSICS

#### PA-1:

1. Electric Current and Field
2. Electrostatic Potential and Capacitance

#### TERM-1:

1. Electric Current and Field
2. Electrostatics Potential and Capacitance
3. Current Electricity
4. Moving Charges and Magnetism
5. Magnetism and Matters
6. Electromagnetic Induction
7. Alternating current
8. Electromagnetic Waves

## **9. Ray Optics**

### **PA-2:**

## **10. Wave Optics**

## **11. Dual Nature of Radiation and Matter**

## **12. Atoms**

### **TERM-2:**

## **1. Electric Current and Field**

## **2. Electrostatics Potential and Capacitance**

## **3. Current Electricity**

## **4. Moving Charges and Magnetism**

## **5. Magnetism and Matters**

## **6. Electromagnetic Induction**

## **7. Alternating Current**

## **8. Electromagnetic Waves**

## **9. Ray Optics**

## **10. Wave Optics**

## **11. Dual Nature of Radiation and Matter**

## **12. Atoms**

## **13. Nuclei**

## **14. Semiconductor**

## **BIOLOGY**

## **PA -1**

- **Sexual reproduction in flowering plants**
- **Human reproduction**
- **Reproductive health**

## **Term 1**

- **Sexual reproduction in flowering plants**
- **Human reproduction**
- **Reproductive health**
- **Principle of inheritance and variation**
- **Biotechnology principles and processes**

## **PA 2**

- **Molecular basis of inheritance**
- **Evolution**
- **Microbes in human welfare**

## **TERM 2 – COMPLETE SYLLABUS**

## **SUBJECT – ENGLISH**

**PA1:**

**Flamingo (Prose)**

**Prose1: The Last Lesson**

**Prose2: Lost Spring**

**Poem1: My Mother at Sixty-Six**

**Vistas:**

**Prose1: The Third Level**

**Prose2: The Tiger King**

**TERM1:**

**Flamingo (Prose)**

**Prose3: Deep Water**

**Prose4: The Rattrap**

**Poem2: Keeping Quiet**

**Poem3: A Thing of Beauty**

**Vistas:**

**Prose3: Journey to the End of the Earth**

**Prose4: The Enemy**

**PA2:**

**Flamingo☹Prose)**

**Prose5: Indigo**

**Prose6: Poets and Pancakes**

**Poem4: A Roadside Stand**

**Vistas:**

**Prose5: On the Face of It Memories of Childhood**

**TERM2:**

**Flamingo☹Prose)**

**Prose6: The Interview**

**Prose7: Going Places**

**Poem5: Aunt Jennifer;s Tigers**

**Vistas:**

**Prose3: Journey to the End of the Earth**

**Prose4: Memories of Childhood**

**Prose5: The Cutting of My Long Hair**

**Prose6: We Too are Human Beings**

## **WRITING SECTION**

**PA1: Notice, up to 50 words.**

**PA1: Letters based on verbal/visual input, to be answered in approximately 120-150 words. Letter types include application for a job with bio data or resume.**

**Term1: Formal/Informal Invitation and Reply, up to 50 words.**

**Term1: Letters to the editor (giving suggestions or opinion on issues of public interest).**

**PA2: Formal/Informal Invitation and Reply, up to 50 words.**

**PA2: Article Writing**

**PA2: Report Writing**

**Term2: Notice, up to 50 words.**

**Term2: Formal/Informal Invitation and Reply, up to 50 words.**

**Term2: Letters based on verbal/visual input, to be answered in approximately 120-150 words. Letter types include application for a job with bio data or resume.**

**Term2: Letters to the editor (giving suggestions or opinion on issues of public interest).**

**Term2: Article Writing**

**Term2: Report Writing**

## **SUBJECT – MATHEMATICS**

**PA-1**

**Ch 1- Relations and functions**

**Ch 2- Inverse Trigonometric functions**

**Ch 12- Linear programming**

**Term 1:**

**Ch 3- Matrices**

**Ch 4- Determinants**

**Ch 10- Vectors**

**Ch 11- 3D geometry**



**PA-2**

**Ch 5- Differentiation**

**Ch 6- Applications of Derivatives**

**Ch 7- Integrals**

**Term-2 (Finals)**

**Whole syllabus.**

## **HUMANITIES**

### **Sociology ( Code 039)**

**PA 1**

**Book :- Indian Society**

**Ch2 :- The Demographic Structure of Indian Society**

**Ch3:- Social Institutions continuity and Change**

**Term 1 (Indian Society)**

**Ch5:- Patterns of social inequality and Exclusion**

**Ch6:- The challenges of Cultural Diversity**

**PA 2 ( Social Change and Development in India)**

**Ch8:- Structural Change**

**Ch9:- Cultural change**

**Term 2 ( Social Change and Development in India)**

**Ch 11)Change and Development in Rural Society**

**Ch12 Change and Development in Industrial Society**

**Ch15 :- Social Movements**

**Subject -History**

**PA 01**

**Chapter 1**

**Bricks Beads and Bones**

**Chapter 2**

**Kings, Farmers and Towns**

**Chapter 3**

**Kingship, Caste and class**

**Term 1**

**Chapter 1**

**Bricks, Beads and Bones**

**Chapter 2**

**Kings, Farmers and Towns**

**Chapter 3**

**Kingship, Caste and class**

**Chapter 4**

**Thinkers Beliefs and Buildings**

**Chapter 5**

**Through the Eyes of Travellers**

**Chapter 6**

**Bhakti Sufi Traditions**

**Chapter 7**

**An imperial capital- Vijaynagar**

**PA 02**

**Chapter 8**

**Peasants, Zamindars, and the states' Agrarian society  
and Mughal Empire**

**Chapter 9**

## **Colonialism and the Countryside Exploring Official Archives**

### **Term 2**

#### **Chapter 8**

**Peasants, Zamindars, and the states' Agrarian society and Mughal Empire**

#### **Chapter 9**

**Colonialism and the Countryside Exploring Official Archives**

#### **Chapter 10**

**Rebels and Raj**

**Revolt of 1857 and its representatives**

#### **Chapter 11**

**Mahatma Gandhi and the Nationalist Movement civil disobedience and beyond**

#### **Chapter 12**

**Framing the constitution**

**The Beginning of new era**

**SUBJECT :- Political Science**

### **PA-1**

**Book 1 (Contemporary World Politics)**

**Chapter 1: The End of Bipolarity**

**Book 2 (Politics in India Since Independence)**

**Chapter 1: Challenges of Nation-Building**

**TERM-1**

**Book 1 (Contemporary World Politics)**

**Chapter 1: The End of Bipolarity**

**Chapter 2: Contemporary Centres of Power**

**Chapter 3: Contemporary South Asia**

**Chapter 4: International Organizations**

**Book 2 (Politics in India Since Independence)**

**Chapter 1: Challenges of Nation-Building**

**Chapter 2: Era of One-Party Dominance**

**Chapter 3: Politics of Planned Development**

**PA-2**

**Book 1 (Contemporary World Politics)**

**Chapter 5: Securities in the Contemporary World**

**Book 2 (Politics in India Since Independence)**

**Chapter 4: India's External Relations**

**Chapter 5: Challenges to and Restoration of the Congress System**

**Chapter 6: The Crisis of Democratic Order**

**TERM-2**

**Book 1 (Contemporary World Politics)**

**Chapter 1: The End of Bipolarity**

**Chapter 2: Contemporary Centres of Power**

**Chapter 3: Contemporary South Asia**

**Chapter 4: International Organizations**

**Chapter 5: Securities in the Contemporary World**

**Chapter 6: Environment and Natural Resources**

**Chapter 7: Globalisation**

**Book 2 (Politics in India Since Independence)**

**Chapter 1: Challenges of Nation- Building**

**Chapter 2: Era of One-Party Dominance**

**Chapter 3: Politics of Planned Development**

**Chapter 4: India's External Relations**

**Chapter 5: Challenges to and Restoration of the Congress System**

**Chapter 6: The Crisis of Democratic Order**

**Chapter 7: Regional Aspirations**

**Chapter 8: Recent Developments in Indian Politics**

**SUBJECT:- PSYCHOLOGY**

**✓PA 1**

**Chapter 1: Variations in Psychological Attributes**

**Chapter 2: Self and Personality**

**✓ Term 1**

**Chapter 1: Variations in Psychological Attributes**

**Chapter 2: Self and Personality**

**Chapter 3: Meeting Life Challenges**

**Chapter 4: Psychological Disorders**

**✓ PA 2**

**Chapter 5: Therapeutic Approaches**

**Chapter 6 : Attitude and Social Cognition**

**✓ Term 2**

**Chapter 1: Variations in Psychological Attributes**

**Chapter 2: Self and Personality**

**Chapter 3: Meeting Life Challenges**

**Chapter 4: Psychological Disorders**

**Chapter 5: Therapeutic Approaches**

**Chapter 6 : Attitude and Social Cognition**

**Chapter 7 : Social Influence and Group Processes**

**SUBJECT :- GEOGRAPHY**

**PA 1**

**(A) Fundamental of Human geography**

**1. Human geography**

**(B) India people and economy**

**1. Population distribution, density, Growth and composition 2. Human settlements**

## **Term 1**

**All the syllabus covered in PA 1 including below mentioned units (A) Fundamental of Human geography**

**1. The world population, density and Growth**

**2. Human Development**

**(B) India people and economy**

**1. Land resources and agriculture**

**(A) Fundamental of Human geography**

**1. Primary activities**

**(B) India people and economy**

**1. Water resources**

## **PA 2**

**(A) Fundamental of Human geography**

**1. Secondary activities**

**2. Tertiary and quaternary activities**

**(B) India people and economy**

**1. Mineral and energy resources**

## **Term 2**

**Complete books**

**A. Fundamental of Human geography**



## **B. India people and economy**

**SUBJECT :- INFORMATION TECHNOLOGY CODE 402**

**CLASS XII code 803**

**PA 1**

**Chap 12. Relational Databases**

**Chap 13. Simple Queries in SQL**

**Chap 14. Table Creation and Data Manipulation Commands**

**TERM 2**

**Chap 12 Relational Databases**

**Chap 13 Simple Queries in SQL**

**Chap 14 Table Creation and Data Manipulation Commands**

**Chap 15 Grouping Records, Joins in SQL**

**Chap 16 Interface Python with SQL**

**Chap 10 Computer Networks -I**

**PA 2**

**Chap 10 Computer Networks -I**

**Chap 11 Computer Networks -II**

**Chap 3 Working with Functions**

## **TERM 2**

**Chap 4 Using Python Libraries**

**Chap 5 File Handling**

**Chap 6 Recursion**

**Chap 7 Idea of Algorithmic Efficiency**

**Chap 8 Data Structures I**

**Chap 9 Data Structures II Stacks, Queues and Lists**

## **Commerce**

### **SUBJECT – BUSINESS STUDIES**

#### **PA-1**

**Ch1. Nature and Significance of Management**

**Ch2. Principles of Management**

#### **T-2**

**Ch3. Business Environment**

**Ch4. Planning**

**Ch5. Organising**

**Ch6. Staffing**

**PA-2**

**Ch7. Directing**

**Ch8. Controlling**

**T-2**

**Ch9. Financial Management**

**Ch10. Financial Markets**

**Ch11. Marketing Management**

**Ch12. Consumer Protection**

**SUBJECT :- ACCOUNTANCY**

**PA 1**

- \* Introduction to partnership firm**
- \* Profit and loss appropriation account**
- \* partners capital account**
- \* Goodwill valuation and methods**

**MID TERM 1**

**Dec pa2- ( whole syllabus)**

**Book no 1 : Accounting for partnership firm**

**Book no 2 : Accounting for companies ( share and Debentures)**

**Book no 3 : Analysis of financial statements**

**PA2**

**\* Basic accounting terms**

**\* Journal**

**Term 2**

**\* JOURNAL**

**\* LEDGER**

**\* TRAIL BALANCE**

**\* TRADING ACCOUNT**

**\* FINANCIAL STATEMENTS**

**PA 2 WHOLE SYLLABUS**

**SUBJECT – PHYSICAL EDUCATION**

**Periodic 1**

**Unit 1**

**Unit 2**

**Term 1**

**Unit 3**

**Unit 4**

**Unit 5**

**Periodic 2**

**Unit 6**

**Unit 7**

**Term 2**

**Unit 8**

**Unit 9**

**Unit 10**

## **SUBJECT – ECONOMICS**

**PA1**

		<b>Part-A(Introductory Macroeconomics)</b>
<b>I.</b>	I	Introduction
<b>II.</b>	II	Some Basic Concepts of Macroeconomics
		<b>Part-B((Indian Economic Development)</b>
<b>III.</b>	I	Indian Economy on the Eve of Independence

**TERM 1**

**Part-A(Introductory Macroeconomics)**

- I. III National Income and Related Aggregates
- II. IV Method of Calculating National Income
- III. V Money
- IV VI Banking
- V VII Aggregate Demand, Aggregate Supply and Related Concepts
- VI VIII Short Run Equilibrium Output
- VII Part-B(Indian Economic Development)
- VIII II Five Year Plans in India
- IX III Agriculture, Industry and Trade
- X IV Economic Reforms Since 1991- New Economic Policy
- XI V Poverty
- XII VI Human Capital Formation in India

**PA-II**

**S.No. Chapter No. Chapter**  
**Part-A(Introductory Macroeconomics)**

I. IX Problem of Deficient Demand and Excess Demand  
Part-B(Indian Economic Development)

II. VII Rural Development

T-II

S.No. Chapter No. Chapters

**Part-A(Introductory Macroeconomics)**

I. I Introduction

II. II Some Basic Concepts of Macroeconomics

III. III National Income and Related Aggregates

IV. IV Methods of Calculating National Income

V. V Money

VI. VI Banking

VII. VII Aggregate Demand , Aggregate Supply and  
Related Concepts

VIII. VIII Short Run Equilibrium Output

IX. IX Problem of Deficient Demand and Excess Demand

X. X Government Budget and The Economy

XI. XI Foreign Exchange Rate

XII. XII Balance of Payment

**Part-B (Indian Economic Development)**

I. I Indian Economy on the Eve of Independence

II. II Five Year Plans in India

III. III Agriculture, Industry and Trade

IV. IV Economic Reforms Since 1991- New Economic  
Policy

- V. V Poverty
- VI. VI Human Capital Formation
- VII. VII Rural Development
- VIII. VIII Employment
- IX. IX Infrastructure
- X. X Environment and Sustainable Development
- XI. XI Comparative Development Experience

### **SUBJECT :- PAINTING SYLLABUS**

**(PA -1)**

**Unit-1 The Rajasthani and Pahari Schools Of Miniature  
PAINTING.**

**Terms 1**

**Unit-2**

**The Mughal and Deccan School Of Miniature Paintings.**

**PA-2**

**Unit-3**

**The Indian National Flag And The Bengal School  
PAINTING.**

**TERM -2**

**UNIT -4**

**The Modern Trends In Indian Art. (And) Whole syllabus.**



