

# FAIR CHILD PUBLIC SCHOOL

## SYLLABUS 2024-25

### CLASS - XII (SCIENCE STREAM)

#### **TERM-I (APRIL - SEPTEMBER)**

### **ENGLISH**

#### **U.T 1**

Flamingo (Prose):- Ch1) The Last Lesson (Ch. 2) Lost Spring (Ch-3) Deep Water  
(Poetry) : (P-1) My Mother At Sixty six

Vistas :- Ch-1) The Third Level (Ch. 2) The Tiger King

Writing :- Notice & Formal / Informal Invitation and replies

Reading - Unseen Passage

Activity :- 1. Discussion on - Dreams of the poor. Problems of child labour. Education is the only weapon to the better lot.

2. Narrate your personal experience to overcome fear.

#### **Mid Term Exam :-(Whole syllabus of Term 1 including Chapters of UT 1)**

Flamingo (Prose):- (ch 4) The Rattrap (ch 5) Indigo

(Poem):- (P-2) Keeping Quiet (P-3) A Thing of a Beauty (P-4) A Roadside stand

Vistas :- Ch-3) Journey to the end of the Earth (Ch 4) The Enemy

Writing - Letter to the Editor Article Writing

Activity :- 1. List some characteristics of a leader. What was Gandhiji's role in the freedom movement?

2. Discussion on 'Should we hate our enemy if he/she is in the death trap or should we save?

#### **Term -II ( October to March)**

#### **U.T 2**

Flamingo (Prose): (Ch-6) Poets & Pancakes (Ch.7) The Interview (Ch 8) Going Places.

(Poetry) :- (P-5) Aunt Jennifer's Tigers

Vistas : (Ch-5) On the Face of It (ch-6) Memories of childhood

Writing :- Report Writing / Letter type Job Application with blo-data.

Reading - Unseen Passage

Activity:- 1. What do you think about patriarchal society? Does it still exist? How to vate handicapped people?

2. How to motivate handicapped people?

Project Work: ASL/Project/Practical exam to be done in 1st week of December.

**Pre Board Exam** whole syllabus to be covered.

### **PHYSICS**

#### **Term-I (April - September)**

#### **UT 1**

Chapter-1: Electric Charges and Fields Chapter-  
2: Electrostatic Potential and Capacitance Chapter-  
3: Current Electricity  
Chapter-4: Moving Charges and Magnetism  
Chapter-5: Magnetism and Matter

**Mid Term Exam :- ( Whole syllabus of Term 1 including Chapters of UT 1)**

Chapter-1: Electric Charges and Fields Chapter-  
2: Electrostatic Potential and Capacitance Chapter-  
3: Current Electricity  
Chapter-4: Moving Charges and Magnetism  
Chapter-5: Magnetism and Matter  
Chapter-6: Electromagnetic Induction  
Chapter-7: Alternating Current  
Chapter-8: Electromagnetic Waves  
Chapter-9: Ray Optics and Optical Instruments  
Experiments

1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.
2. To find resistance of a given wire / standard resistor using metre bridge.
3. To verify the laws of combination (series) of resistances using a metre bridge.

**OR**

- To verify the laws of combination (parallel) of resistances using a metre bridge
4. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
  5. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. OR To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.
  6. To find the frequency of AC mains with a sonometer.

**Term -II ( October to March)**

**UT2**

Chapter-10: Wave Optics  
Chapter-11: Dual Nature of Radiation and Matter Chapter-  
12: Atoms  
Chapter-13: Nuclei  
Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits  
Experiments

1. To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length. 2. To find the focal length of a convex mirror, using a convex lens.
3. To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/u$  and  $1/v$ .
4. To find the focal length of a concave lens, using a convex lens.
5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.

6. To determine refractive index of a glass slab using a travelling microscope.
7. To find the refractive index of a liquid using convex lens and plane mirror.
8. To find the refractive index of a liquid using a concave mirror and a plane mirror.
9. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.

**Pre Board Exam** whole syllabus to be covered.

## **CHEMISTRY**

### **Term-I (April - September)**

#### **UT- I**

- Chapter-1: Solution
- Chapter-2: Electrochemistry
- Chapter-3: Chemical kinetics

#### **LAB MANUAL:**

1. To prepare colloidal solution of starch
2. To study the effectiveness of different common oils in forming emulsions

### **Mid Term Exam :-( Whole syllabus of Term 1 including Chapters of UT 1)**

- Chapter-4: The d and f block
- Chapter-5: Coordination compound
- Chapter-6: Halo alkane and Haloarenes

#### **LAB MANUAL:**

3. To study the variation of cell potential in zinc and copper cell with change in concentration of electrolyte at room temperature
4. To separate the color component present in the mixture of red and blue ink by ascending paper chromatography and find their R<sub>f</sub> value.
5. To prepare 2-naphthol aniline or phenyl azo beta naphthol or aniline yellow dye.

### **Term -II (October to March)**

#### **UT-II**

- Chapter-7: Alcohol, phenol and ether
- Chapter-8: Aldehyde, ketone and carboxylic acid
- Chapter-9: Amines
- Chapter-10: Biomolecules

#### **LAB MANUAL:**

6. Identify the functional group in given org compound (alcohol, phenol, aldehyde, carboxylic acid, amino group)
7. Identify the functional group in given org compound (phenol)
8. Identify the functional group in given org compound (aldehyde)
9. Identify the functional group in given org compound (carboxylic)
10. Identify the functional group in given org compound (amine)
11. Salt analysis
12. Salt analysis
13. Salt analysis
14. Salt analysis

15. Salt analysis
16. Test for carbohydrate
17. Test for proteins
18. Test for fats and oils
19. Prepare 0.05 M solution of ferrous Ammonium Sulphate /Oxalic acid using this solution find out the molarity and strength of the given  $\text{KMnO}_4$  solution

**Pre Board Exam** whole syllabus to be covered.

## **MATHEMATICS**

### **Term-I (April - September)**

#### **UT-1:**

- Chapter-1 Relation and functions
- Chapter-2 Inverse Trigonometric Functions
- Chapter-3 Matrices
- Chapter-4 Determinants

#### **Lab Manual:**

- Activity-1 To verify whether the given function is many-one, into or onto by considering domain and co-domain.
- Activity-3 To find analytically the limit of function  $f(x)$  at  $x=c$  and also to check the continuity of the function at that point.
- Activity-4 To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.

### **Mid Term Exam :- (Whole syllabus of Term 1 including Chapters of UT 1)**

- Chapter-5 Continuity and Differentiability
- Chapter-6 Application of derivatives
- Chapter-12 Linear Programming

### **Term -II ( October to March)**

#### **UT-2:**

- Chapter-7 Integrals
- Chapter-8 Application of Integrals
- Chapter-9 Differential equation
- Chapter-10 Vector Algebra

#### **Lab Manual:**

- Activity-7 To evaluate the definite integral as the limit of sum and verify it by actual integration.
- Activity-8 To measure the shortest distance between two skew lines and verify it analytically.
- Activity-9 To understand the concept of increasing and decreasing function.
- Activity-10 To explain the computation of conditional probability.

#### **Nov-Dec:**

- Chapter-11 3-D Geometry
- Chapter-13 Probability

**Pre-Board Exam:** (Includes whole syllabus)

# **BIOLOGY**

## **Term 1 (April to September)**

### **UT- I :**

#### **Chapter-2: Sexual Reproduction in Flowering Plants**

Flower structure; development of male and female gametophytes; pollination – types, agencies and examples; out breeding devices; pollen-pistil interaction; double fertilization; post fertilization events – development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.

#### **Chapter-3: Human Reproduction**

Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis -spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development up to blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).

#### **Chapter-4: Reproductive Health**

Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control–need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies – IVF, ZIFT, GIFT (elementary idea for general awareness).

#### **Chapter-5: Principles of Inheritance and Variation**

Heredity and variation: Mendelian inheritance; deviations from Mendelism–incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination – in humans, birds and honey bee; linkage and crossing over; sex linked inheritance–haemophilia, colour blindness; Mendelian disorders in humans thalassemia; chromosomal disorders in humans; Down’s syndrome, Turner’s and Klinefelter’s syndromes.

### **LAB MANUAL:**

#### **A. List of Experiments**

1. Prepare a temporary mount to observe pollen germination.

#### **B. Study and observe the following (Spotting):**

- Flowers adapted to pollination by different agencies (wind, insects, birds).
- Pollen germination on stigma through a permanent slide or scanning electron micrograph.
- Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
- T.S. of blastula through permanent slides (Mammalian).
- Controlled pollination – emasculation, tagging and bagging.

### **Mid Term Exam :-( Whole syllabus of Term 1 including Chapters of UT 1)**

#### **Chapter-6: Molecular Basis of Inheritance**

Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation – lac operon; Genome, Human and rice genomeprojects, DNA fingerprinting.

## **Chapter-7: Evolution**

Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution – variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy – Weinberg's principle; adaptive radiation; human evolution.

## **Chapter 8: Human Health and Diseases**

Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology – vaccines; cancer, HIV and AIDS; Adolescence – drug and alcohol abuse.

## **Chapter 10: Microbes in Human Welfare**

Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.

## **LAB MANUAL:**

### **List of Experiments**

7. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

### **B. Study and observe the following (Spotting):**

8. Meiosis in onion bud cell or grasshopper testis through permanent slides.

9. Mendelian inheritance using seeds of different colour/sizes of any plant.

10. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.

## **Term -II ( October to March)**

### **UT-2**

## **Chapter 11: Biotechnology – Principles and Processes**

Genetic Engineering (Recombinant DNA Technology).

## **Chapter 12: Biotechnology and its Applications**

Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms – Bt crops; transgenic animals; biosafety issues, biopiracy and patents.

## **Chapter 13: Organisms and Populations**

Population interactions – mutualism, competition, predation, parasitism; population attributes – growth, birth rate and death rate, age distribution. (Topics excluded: Organism and its Environment, Major Abiotic Factors, Responses to Abiotic Factors, Adaptations)

## **Chapter 14: Ecosystem**

Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy (Topics excluded: Ecological Succession and Nutrient Cycles)

## **Chapter 15: Biodiversity and its Conservation**

Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.

## **LAB MANUAL:**

## **A. List of Experiments**

11. Study the plant population density by quadrat method.
12. Study the plant population frequency by quadrat method
13. Prepare a temporary mount of onion root tip to study mitosis.

## **B. Study and observe the following (Spotting):**

14. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.
15. Models specimen showing symbiotic association in root modules of leguminous plants, Cuscuta on host, lichens.
16. Flash cards models showing examples of homologous and analogous organs.

## **Pre- Board Examination (Whole syllabus to be covered).**

### **Practical Exam to be conducted.**

# **COMPUTER SCIENCE**

## **Term 1 (April to September)**

### **UT-1**

Unit-1-Computational Thinking and programming-2

Chapter-1 Review of Python-I

Chapter-2 Review of Python-II

Chapter-3 Working with functions

Unit-3-Database Management System-Complete.

### **Lab manual:**

- Read a text file line by line and display each word separated by a #
- Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.
- Remove all the lines that contain the character 'a' in a file and write it to another file.
- Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.

### **Mid Term Exam :- ( Whole syllabus of Term 1 including Chapters of UT 1)**

Chapter-9 Data Structure

Chapter-5-Data File

Handling

### **Lab Manual:**

- Write a python program to implement stack.
- Create CSV file by entering user-id and password.
- Make a presentation introduced all concept of networking,
- Write a program that generate a random number.
- Write a program that print a Fibonacci series.
- Write a python program to find perfect number or not.
- Write a program to check the number is Armstrong or not.
- Write a program to find factorial.
- Write a program to find string is palindrome.

- Write a program to read a data file
- Write a program to create calculator using function.

### **Term -II ( October to March)**

#### **UT-2**

Unit-2-Networking Complete

#### **Lab Manual:**

- Create a student table and insert data. Implement the following SQL commands on the student table:
  - o ALTER table to add new attributes / modify data type / drop attribute
  - o UPDATE table to modify data
  - o ORDER By to display data in ascending / descending order
  - o DELETE to remove tuple(s)
  - o GROUP BY and find the min, max, sum, count and average
- Similar exercise may be framed for other cases.
- Integrate SQL with Python by importing suitable module.

**December:-** Practical Exam

**Preboard Exam** - Whole Syllabus

#### **Project:**

Student mgmt. System, Billing System, Cafe Mgmt., Library System

## **PHYSICAL EDUCATION**

### **Term 1 (April to September)**

#### **UT 1**

- Ch-1 Management of sporting Events
- Ch -3 yoga as preventive measures for lifestyle
- Ch-4 physical education and sports for CWSN
- Ch-5 sports and nutrition

#### **Mid Term Exam :- ( Whole syllabus of Term 1 including Chapters of UT 1)**

- ch-2 children and women sports
- Ch-6 test and measurement in sports
- Ch-9 psychology and sports

**Lab Manual** --- practical 1 fitness test administration (sai khelo India test)

### **Term -II ( October to March)**

#### **UT 2**

- Ch-7 physiology and Injuries in sports
- Ch-8 Biomechanics and sports
- Ch-10 training in sports

**Lab Manual** -- practical 2 procedure for asanas benefits and contradictions for any 2 asans each lifestyle disease.

Practical 3 anyone recognise sports/game of choice Lalled diagram of field and equipments also mention its Rules Terminology and skills.

Pre -Board Exam (whole syllabus)



# FAIR CHILD PUBLIC SCHOOL

## SYLLABUS

CLASS-XII (Commerce Stream)

Session 2024-2025

Subject-Applied Mathematics

Term-1 (April-September)

### UT-1:

Chapter-1 Numbers, Quantification, and numerical application

Chapter-2 Numerical Inequalities and Linear Inequations

Chapter-3 Matrices

Chapter-4 Determinants

### Lab Manual:

Activity-1 To relate the matrices with real life.

Activity-2 To find analytically the limit of function  $f(x)$  at  $x=c$  and also to check the continuity of the function at that point.

Activity-3 To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.

### Mid-Term Exam: (Includes chapters of UT-1)

Chapter-5 Application of Derivatives in Commerce and Economics

Chapter-6 Integrals

Chapter-7 Differential Equations

TERM-2 (October-March)

### UT-2:

Chapter-8 Probability

Chapter-9 Inferential Statistics

Chapter-10 Index Numbers and time based data

Chapter-11 Perpetuity, Sinking funds, bonds and EMI

### Lab Manual:

Activity-4 To verify that the angle between two planes is same as the angle between their normal.

Activity-5 To evaluate the definite integral  $\int_0^1 \sqrt{1-x^2} dx$  as the limit of sum and verify it by actual integration.

Activity-6 To understand the concept of increasing and decreasing function.

### Nov-Dec:

Chapter-12 Return, growth, and depreciation.

Chapter-13 Linear programming

**Pre-Board Examination:** (Includes Whole syllabus)

## **ECONOMICS**

**Part-A (Introductory Macro Economics)**

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

### **Term-1 (April-September)**

#### **UT-1:**

**Part-A (Introductory Macro Economics)**

Ch-1 Introduction

Ch-2 Some basic concepts of macroeconomics

Ch-3 National Income and related aggregate

Ch-4 Methods of calculating national income

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

Ch-1 Indian economy on the eve of independence

Ch-2 Five years plans in India

Ch-3 Agriculture, Industries and Trade (1950-1990)

Ch-4 Economic reforms since 1991. (New Economic Policy)

**Activity:-** Make a chart of five years plans with specific objectives and tenure.

#### **Mid-Term Exam: ( including all chapters of UT-1)**

**Part-A (Introductory Macro Economics)**

Ch-5 Money

Ch-6 Banking

Ch-7 Aggregate Demand, Aggregate Supply and related concepts

Ch-8 Short run equilibrium output

Ch-9 Problem of deficient Demand and Excess Demand

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

Ch-5 Human Capital formation in India

Ch-6 Rural Development

Ch-7 Employment

### **TERM-2 (October-March)**

#### **UT - 2**

**Part-A (Introductory Macro Economics)**

Ch-10 Govt. Budget and the economy

Ch-11 Foreign Exchange Rate

Ch-12 Balance of Payments

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

Ch-8 Infrastructure

Ch-9 Environment and sustainable development

Ch-10 Comparative Development experience of India and its neighbours

**Project work:- Make a project file on any one topic provided by C.B.S.E.**

**Pre-board Examination :- Whole Syllabus**

## **ACCOUNTANCY**

### **Term-1 (April-September)**

#### **UT:1**

CH-1 Fundamentals of Partnership

CH-2 Valuation of Goodwill

CH-3 Change in Profit sharing ratio

CH-4 Admission of a Partner.

CH-5 Retirement of a Partner

#### **Mid-Term Examination** (Including chapters of PT1)

CH-6 Death of a Partner

CH-7 Dissolution of a Partnership firm.

CH-8 Issue of Shares

CH-9 Issue of Debentures

### **TERM-2 (October-March)**

#### **UT:2**

##### **PART-3**

CH-1 Financial statement of a company

CH-2 Financial statement Analysis.

CH-3 Tools of analyzing financial statement.

#### **Nov-Dec:**

CH-4 Accounting Ratios

CH-5 Cash Flow Statement.

Activity: Project Work

One specific project covering any two aspects given below:-

a. Comparative and Common size financial statement

b. Accounting Ratio

c. Segment Report

d. Cash Flow Statement

**Pre-Board Examination:** (Includes Whole syllabus)

# English

## Term-1 (April-September)

### U.T 1

Flamingo (Prose):- Ch1) The Last Lesson (Ch. 2) Lost Spring (Ch-3) Deep Water

(Poetry) : (P-1) My Mother At Sixty six

Vistas :- Ch-1) The Third Level (Ch. 2) The Tiger King

Writing :- Notice & Article Writing.

Activity :- 1. Discussion on - Dreams of the poor. Problems of child labour. Education is the only weapon to the better lot.

2. Narrate your personal experience to overcome fear.

**Mid Term Exam** :-(Whole syllabus of Term 1 including Chapters of UT 1)

Flamingo (Prose):- (ch-4) The Rattrap (ch-5) Indigo

(Poem):- (P-2) Keeping Quiet (P-3) A Thing of a Beauty (P-4) A Roadside stand

Vistas :- Ch-3) Journey to the end of the Earth (Ch 4) The Enemy

Writing - Letter to the Editor and Formal / Informal Invitation & Reply

Activity :- 1. List some characteristics of a leader. What was Gandhiji's role in the freedom movement?

2. Discussion on 'Should we hate our enemy if he/she is in the death trap or should we save?'

## TERM-2 (October-March)

### U.T 2

Flamingo (Prose): (Ch-6) Poets & Pancakes (Ch.7) The Interview (Ch 8) Going Places.

(Poetry) :- (P-5) Aunt Jennifer's Tiger's

Vistas : (Ch-5) On the Face of It (ch-6) Memories of childhood

Writing :- Report Writing / Letter type Job Application with bio-data.

Activity: 1. What do you think about patriarchal society? Does it still exist? How to vate handicapped people?

2. How to motivate handicapped people?

Project Work: ASL/Project/Practical exam to be done in 1st week of December.

**Pre Board Exam** whole syllabus to be covered.

## **Informatics Practices**

### **Term-1 (April-September)**

#### **UT-1**

- Unit 1: Data Handling using Pandas –I

#### **Lab Manual:-**

- Create a panda's series from a dictionary of values and array.
- Given a Series, print all the elements that are above the 75th percentile.

#### **Mid-term Exam:-**

- Including UT-1 Syllabus
- Unit 2: Database Query using SQL-Complete
- Unit 3: Introduction to Computer Networks-Complete

#### **Lab Manual:-**

- Create a student table with the student id, name, and marks as attributes where the student id is the primary key.
- Insert the details of a new student in the above table.
- Delete the details of a student in the above table.
- Use the select command to get the details of the students with marks more than 80
- Find the min, max, sum, and average of the marks in a student marks table.
- Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.
- Write a SQL query to order the (student ID, marks) table in descending order of the marks.

### **TERM-2 (October-March)**

#### **UT-2**

- Unit-4-Societal Impacts-Complete

#### **Lab Manual:-**

- Given the school result data, analyses the performance of the students on different parameters, e.g. subject wise or class wise.
- For the Data frames created above, analyze, and plot appropriate charts with title and legend.
- Take data of your interest from an open source (e.g. data.gov.in), aggregate and summarize it. Then plot it using different plotting functions of the Matplotlib library.

**Preboard Exam:-**Whole Syllabus

**Project:-**

The aim of the class project is to create tangible and useful IT application. The learner may identify a real-world problem by exploring the environment. e.g. Students can visit shops/business places, communities or other organizations in their localities and enquire about the functioning of the organization, and how data are generated, stored, and managed. The learner can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize. Learners can use Python libraries of their choice to develop software for their school or any other social good. Learners should be sensitized to avoid plagiarism and violation of copyright issues while working on projects. Teachers should take necessary measures for this. Any resources (data, image etc.) used in the project must be suitably referenced. The project can be done individually or in groups of 2 to 3 students. The project should be started by students at least 6 months before the submission deadline.

## **Business Studies**

### **TERM - I (April-September)**

#### **UT-1**

- Unit 1- Nature and Significance of management
- Unit2- Principles of Management
- Unit- 3 Business Environment
- Unit 4 - Planning
- Unit- 5-Organizing

#### **Mid-Term Exam**

- Including UT-1 Syllabus
- Unit- 6 Staffing
- Unit-7 Directing
- Unit- 8 Controlling
- Unit -9 Financial Management

### **TERM-2 (October-March)**

#### **UT-2**

- Unit-10 Financial Market
- Unit-11 Marketing Management
- Unit-12 Consumer protection

**Project: Make a project file for practical exam on any one topic given below:**

- a. Business Environment**
- b. Principles of Management**
- c. Stock Exchange**
- d. Marketing**

**Pre-Board Exam**-Whole Syllabus

## Physical Education

### TERM - 1 (April-September)

#### UT-1

Ch-1 Management of sporting Events

Ch -3yoga as preventive measures for lifestyle

Ch-4 physical education and sports for CWSN

Ch-5 sports and nutrition

#### Mid-term exam(Including all the chapter in UT -1)

Ch-2 children and women sports

Ch-6 test and measurement in sports

Ch-9 psychology and sports

**Lab Manual:** practical 1 fitness test administration (sai khelo India test)

### TERM-2 (October-March)

#### UT-2

Ch-7 physiology and Injuries in sports

Ch-8 Biomechanics and sports

Ch-10 training in sports

**Lab Manual: Practical 2:** procedure for asanas benefits and contradictions for any 2 asanas each lifestyle disease.

**Practical 3:** anyone recognise sports/game of choice Labelled diagram of field and equipment's also mention its Rules Terminology and skills.

**Pre -Board exam: (whole syllabus)**

# FAIR CHILD PUBLIC SCHOOL

## SYLLABUS 2024-25 CLASS – XII (HUMANITIES STREAM)

### TERM-I (APRIL - SEPTEMBER)

### ENGLISH

#### U.T 1

Flamingo (Prose):- Ch1) The Last Lesson (Ch. 2) Lost Spring (Ch-3) Deep Water

(Poetry) : (P-1) My Mother At Sixty six

Vistas :- Ch-1) The Third Level (Ch. 2) The Tiger King

Writing :- Notice & Formal / Informal Invitation and replies

Reading – Unseen Passage

Activity :- 1. Discussion on - Dreams of the poor. Problems of child labour. Education is the only weapon to the better lot.

2. Narrate your personal experience to overcome fear.

#### **Mid Term Exam :-(Whole syllabus of Term 1 including Chapters of UT 1)**

Flamingo (Prose):- (ch 4) The Rattrap (ch 5) Indigo

(Poem):- (P-2) Keeping Quiet (P-3) A Thing of a Beauty (P-4) A Roadside stand

Vistas :- Ch-3) Journey to the end of the Earth (Ch 4) The Enemy

Writing - Letter to the Editor Article Writing

Activity :- 1. List some characteristics of a leader. What was Gandhiji's role in the freedom movement?

2. Discussion on 'Should we hate our enemy if he/she is in the death trap or should we save?'

#### **Term -II ( October to March)**

#### **U.T 2**

Flamingo (Prose): (Ch-6) Poets & Pancakes (Ch.7) The Interview (Ch 8) Going Places.

(Poetry) :- (P-5) Aunt Jennifer's Tigers

Vistas : (Ch-5) On the Face of It (ch-6) Memories of childhood

Writing :- Report Writing / Letter type Job Application with bio-data.

Reading - Unseen Passage

Activity:- 1. What do you think about patriarchal society? Does it still exist? How to value handicapped people?

2. How to motivate handicapped people?

Project Work: ASL/Project/Practical exam to be done in 1st week of December.

**Pre Board Exam** whole syllabus to be covered.

## हिन्दी

प्रथम सत्र (अप्रैल से सितंबर)

प्रथम सामयिक परीक्षा

पाठ्य पुस्तक अंतरा भाग – 2



## गद्य खंड

- पाठ – 1 प्रेमघन की छाया स्मृति-आचार्य रामचंद्र शुक्ल  
पाठ – 2 सुमिरनी के मनके-पंडित चंद्रधर शर्मा गुलेरी  
पाठ – 3 संवदिया – फणीश्वर नाथ रेणु

## काव्य खंड

- पाठ – 1 (क) देवसेना का गीत, (ख) कार्नेलिया का गीत-जयशंकर प्रसाद  
पाठ – 2 सरोज स्मृति-सूर्यकान्त त्रिपाठी निराला  
पाठ – 3 (क) यह दीप अकेला, (ख) मैंने देखा एक बूँद-सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय'

## पूरक पुस्तक (अंतराल भाग-2)

### पाठ -1 सूरदास की झोपडी

#### अभिव्यक्ति और माध्यम

- पाठ – 3 विभिन्न माध्यमों के लिए लेखन  
पाठ – 4 पत्रकारीय लेखन के विभिन्न रूप  
पाठ – 6 कैसे बनती है कविता  
फीचर लेखन, अपठित गद्यांश, काव्यांश

#### क्रियाकलाप -

1. सूर्यकांत त्रिपाठी निराला अथवा जयशंकर प्रसाद के साहित्यिक परिचय पर आधारित प्रोजेक्ट तैयार कीजिए।
2. में पठित काव्य गीतों का सस्वर वाचन।

#### अर्धवार्षिक परीक्षा

#### सामयिक परीक्षा

1. के समस्त पाठ्यक्रम सहित )

## पाठ्य पुस्तक (अंतरा भाग - 2)

## गद्य खंड

- पाठ – 4 गांधी, नेहरू और यास्सेर अराफात – भीष्म साहनी  
पाठ – 5 शेर, पहचान, चार हाथ, साझा – असगर वजाहत  
पाठ – 6 जहां कोई वापसी नहीं – निर्मल वर्मा

## काव्य खंड

- पाठ – 4 (क) बनारस, (ख) दिशा-केदारनाथ सिंह  
पाठ – 5 (क) तोड़ो (ख) बसंत आया-रघुवीर सहाय  
पाठ – 6 पद – तुलसीदास

## पूरक पुस्तक (अंतराल भाग -2)

### पाठ - 2 बिस्कोहर की माटी

#### अभिव्यक्ति और माध्यम

- पाठ – 5 लेखन स्वरूप और प्रकार  
पाठ – 7 नाटक लिखने का व्याकरण  
पाठ – 8 कैसे लिखें कहानी  
आलेख लेखन, अपठित गद्यांश काव्यांश

## द्वितीय सत्र (अक्टूबर से मार्च)

## सामयिक परीक्षा

### पाठ्य पुस्तक (अंतरा भाग- २)

#### गद्य खंड

पाठ – 7 दूसरा देवदास– ममता कालिया

पाठ – 8 कुटज – हजारी प्रसाद द्विवेदी

#### काव्य खंड

पाठ – 7 बारहमासा – मलिक मोहम्मद जायसी

पाठ – 8 पद – विद्यापति

पाठ – 9 कवित्त – घनानंद

### पूरक पुस्तक (अंतराल भाग - 2)

पाठ – 3 अपना मालवा खाऊ उजाड़ू सभ्यता में

#### अभिव्यक्ति और माध्यम

पाठ –11 कैसे करें कहानी का नाट्य रूपांतरण

पाठ –15 नए अप्रत्याशित विषयों पर लेखन

#### क्रियाकलाप -

1. प्रोजेक्ट कार्य
2. श्रवण वाचन कौशल परीक्षा

प्री - बोर्ड परीक्षा संपूर्ण पाठ्यक्रम सहित

## HISTORY

### TERM – 1 (APRIL TO SEPTEMBER)

#### Chapter 1, 2, 5, 9

Chapter 1: Brick, Beads and Bones

Chapter 2: Kings farmers and town

Chapter 5: Through the eyes of the travellers

Chapter 9: Colonialism and country

**Map work :** Mature Harappan sites, Cities and

Mahajanpadas, Ashoka Inscription, Important Kingdoms and town

#### Mid term exam (Including all the chapters of Ut 1) Chapter 3,6,7,10

Chapter 3 : Kingship caste and class

Chapter 6: Bhakti Sufi traditions

Chapter 7: An imperial capital Vijyanagra

Chapter 10 Rebels and the Raj

**Map work:** Vijyanagra empire, cities under British control in 1857, Important Centre of Revolt 1857 ,

Main town and cities, Early time period

### Term 2 (October to March)

#### UNIT TEST – 2

#### Chapter 4, 8, 11, 12

Chapter 4: Thinkers Believe and Buildings

Chapter 8: Peasant, zamindar and the state

Chapter 11: Mahatma Gandhi and the nationalist movement

Chapter 12: Farming Constitution

**Map work** : Major Buddhist site, Territories under Barber, Akbar and Aurangzeb, important centres of national movement

**Project work CBSE project**

**Pre board exam whole syllabus will be covered**

## **POLITICAL SCIENCE**

### **TERM-I (April – September) UT-1**

PART-A: Contemporary World Politics

Ch-1: The End of Bipolarity

Ch-2: Contemporary Centers of Power

Ch-3: Contemporary South Asia

Ch-4: International Organization

Ch-5: Security in the Contemporary World

### **MID-TERM EXAMINATION**

(Including all the chapters of UT-1)

PART-A: Contemporary World Politics

Ch-6: Environment and Resources Ch-7: Globalization

Part-B: Politics in India since Independence

Ch-1: Challenges of Nation Building

Ch-2: Era of One Party Dominance

Ch-3: Politics of Planned Development

### **TERM-II (October-March) UT-2**

Part-B: Politics in India since Independence

Ch-4: India's External Relations.

Ch-5: Challenges to and Restoration of the Congress System.

Ch-6: The crisis of democratic order.

Ch-7: Regional Aspiration

Ch-8: Recent Developments in Indian Politics.

Project Work:-

Projects from different topics to each Students.

### **PRE-BOARDEXAMINATION**

(Whole syllabus to be covered)

## **AGRICULTURE**

**Term – 1 (April-September)**

**UNIT TEST – 1 (Mid of July )**

**Book : Part A : Employability Skills**

Unit 1: Communication Skills

Unit 2: Self-management Skills

Unit 3: Information and Communication Technology Skills (half)

**Book : Part B : Subject Specific Skills**

## **UNIT I : Advance Crop Production**

1. Food Production Including Horticulture Crops and It's Important in The Economy and Notional Security
2. Soil Fertility and Productivity
3. Essential Plant Nutrients, Classification of Plant Nutrients. Role of Function of Essential Plant Nutrients and their Important Deficiency Symptoms.
4. Soil Sampling and Its Processing. Introduction of Soil pH and Organic Carbon
5. Introduction of Manure, Fertilizer and Classification of Fertilizer, Bio-fertilizer, their Method of Application and Integrated Nutrients Management
6. Concept of Soil Moisture Availability, Various Irrigation Method. Concept of Precision and Pressure Irrigation. Drip and Sprinkler Irrigation.
7. Method of Insect-Pest Management Chemical, Biological and Mechanical. Concept of Integrated Pest Management

## **UNIT II : Organic Farming**

1. Concept, history and importance
2. Present status and contribution to National Economy
3. Important food products grown organically. Important Government Schemes for the promotion of organic farming in our country. Kitchen gardening.

### **Lab Manual:**

#### **SECTION I**

##### **Unit I: Advance Crop Production and Organic Farming**

1. Soil sampling and determination of Soil pH.
2. Determination of soil organic carbon content.
3. Preparation of nursery and seed beds.
4. Seed treatment with fungicides and Bio-fertilizers.
5. Identification of different types of chemical fertilizers, composts ,bio-fertilizers.
6. Calculation of fertilizer requirement of crops (for wheat, rice and maize) based on their nutrient needs.
7. Preparation of FYM and Compost.
8. Uses of sprayers and dusters for pest control and nutrient spray.
9. Determination of moisture content of crop seeds (wheat, rice, maize and mustard).
10. To find out 100-grain weight of crop seeds (wheat, rice, maize and mustard).
11. Visit to a crop field and compare healthy plant with a diseased and insect affected plant.
12. Identification of different types of Insecticides, Fungicides and Herbicides.

### **Mid-Term Exam: (Mid of September)**

#### **Including UT-1 syllabus**

#### **Book :- Part A : Employability Skills**

Unit 3: Information and Communication Technology Skills

Unit 4: Entrepreneurial Skills (half)

#### **Book : Part B : Subject Specific Skills**

## **UNIT III Post-Harvest Management**

1. Importance, Scope of Post-Harvest Technology and Processing Post-Harvest Management of

Fruits and Vegetables Post-Harvest Management of Flowers, cereals, pulses and oil seeds.  
Status of food processing in our country.

2. Important Government Scheme for Food Sector

#### **UNIT IV Food Processing and Value Addition**

1. Principals and Methods of food processing and Preservation of Fruits and Vegetables. Benefits of food processing
2. Important Value Added Product of Fruits and Vegetables, cereals, pulses and oil seeds. Preparation of jam, jelly, ketchup, morabba, pickles, marmalade.

#### **Lab Manual:**

#### **SECTION: II**

#### **Unit II: Post-Harvest Management, Food Processing and Value Addition**

1. Visit to Bakery Unit, Local Chakki.
2. Preparation of Jam, Jelly, ketchup and Morabba
3. Drying of fruits, vegetables and flowers.
4. Preparation of pickles.
5. Identification of fresh and aged vegetables and fruits.
6. Visit to cold storage and record the storage of various fruits and vegetables.
7. Harvesting and packaging of flowers.
8. Preparation of flower arrangements such as garland and rangoli.
9. Visit to a flower mandi and record the activities in the mandi.
10. Visit to a local fruit market and record the activities in the market.

#### **Term -2:**

#### **UT- 2: (October - March)**

#### **Book : Part A : Employability Skills**

Unit 4: Entrepreneurial Skills (half)

Unit 5: Green Skills

#### **Book : Part B : Subject Specific Skills**

#### **UNIT IV Food Processing and Value Addition**

1. Packaging, Quality Standards and Their Marketing Including Export
2. Flowers and their harvesting: important processed flower products, packaging, storage and their marketing
3. Concept of Safe Food and Quality Standard and important food regulations.

#### **UNIT V Subsidiary Enterprises of Agriculture**

1. Apiculture, Lac Culture and Sericulture. Important subsidiary enterprises based on Agriculture including Horticulture and their importance in the socio-economic status of an individual.
2. Mushroom Cultivation, their nutritional status and methods of production. Beekeeping and its important usage and importance of Honey, Wax and Royal jelly.

#### **Lab Manual:**

#### **SECTION: III Unit III: Subsidiary Enterprises in Agriculture**

1. Preparation of plant-based bio-pesticides (neem)
2. Visit to Mushroom production unit.
3. Visit to nearby apiary and record the process of beekeeping.

4. Observe the characteristics of different bee products (honey and wax).
5. Visit to a vermin composting unit.
6. Observe the characteristics of compost.

**Post UT-2:**

1. Principles and Elements of Landscape Design. Landscaping, development and maintenance of lawns and avenue gardens.
2. Preparation of Bio-pesticides (plant based), Organic manures (composts) and Vermicomposting.
3. Vermicompost
4. Nursery and Layout of Nursery. Setting up nurseries and marketing of plant sapling and important Govt. Schemes for the support of these enterprises.

**December:** 1<sup>st</sup> week practical exam to be done

Pre-Board Exam: 2<sup>nd</sup> week of December (Whole syllabus to be covered) 1 Practical file, 1 Project file, 1 portfolio file to be submitted.

**Notes:**

1. The students have to prepare a report on the visits recording their observations on the subject.
2. In case of practical of fruit and vegetable preservation and methods of production of value added products from fruits and vegetables, the student will have to write the procedure adopted and the necessary precautions to be taken in the answer sheet provided.

**Report on the Visits**

The student has to prepare a report of their visit to different organizations and submit to Subject teacher for the evaluation. The report must contain the student's original work and observations.

**Viva Voce**

Students can be asked questions based on:

1. Identification of objects.
2. Visit Report analysis.
3. Experiences in their field visits, etc.

## **ECONOMICS**

**PART-A**

(Introductory Macro Economics)

**PART-B**

(Indian Economic Development)

**UT-1**

**PART-A**

(Introductory Macro Economics)

Ch-1 Introduction

Ch-2 Some basic concepts of macroeconomics

Ch-3 National Income and related aggregate

Ch-4 Methods of calculating national income

**PART-B**

(Indian Economic Development)

Ch-1 Indian economy on the eve of independence

Ch-2 Five years plans in India

Ch-3 Agriculture, Industries and Trade (1950-1990)

Ch-4 Economic reforms since 1991. (New Economic Policy)

Activity :- Make a chart of five years plans with specific objectives and tennure

Half yearly (including all chapters of UT-1)

### **PART-A**

(Introductory Macro Economics)

Ch-5 Money

Ch-6 Banking

Ch-7 Aggregate Demand, Aggregate Supply and related concepts

Ch-8 Short run equilibrium output

Ch-9 Problem of deficient Demand and Excess Demand

### **PART-B**

(Indian Economic Development)

Ch-5 Human Capital formation in India

Ch-6 Rural Development

Ch-7 Employment

### **UNIT TEST - 2**

#### **PART-A**

(Introductory Macro Economics)

Ch-10 Govt. Budget and the economy

Ch-11 Foreign Exchange Rate

Ch-12 Balance of Payments

#### **PART-B**

(Indian Economic Development)

Ch-8 Infrastructure

Ch-9 Environment and sustainable development

Ch-10 Comparative Development experience of India and its neighbours

Project work:- Make a project file on any one topic provided by C.B.S.E.

Pre-board Examination:- Whole Syllabus

## **PHYSICAL EDUCATION:-**

### **U.T. :- (1).**

Ch-1 Management of sporting Events

Ch-3 yoga as preventive measures for lifestyle

Ch-4 physical education and sports for CWSN

Ch-5 sports and nutrition

### **Mid Term Exam (Including Unit Test -1 Chapters)**

Ch-2 children and women sports

Ch-6 test and measurement in sports

Ch-9 psychology and sports

(Including all the chapter in UT -1)

Lab Manual --- practical 1 fitness test administration (sai khelo India test)

**U.T. - (2)**

Ch-7 physiology and Injuries in sports

Ch-8 Biomechanics and sports

Ch-10 training in sports

Lab Manual --practical 2 procedure for asanas benefits and contradictions for any 2 asans each lifestyle disease.

Practical 3 anyone recognise sports/game of choice Lalled diagram of field and equipments also mention its Rules Terminology and skills.

**Pre -Board** (whole syllabus)