

**ENGLISH 1**

**1<sup>ST</sup> Term**

1. Articles
2. Agreement of the Verb with the Subject
3. Active and Passive Voice
4. Time and Their Uses- I
5. Time and Their Uses -II
6. The Sequence of Tenses
7. Direct and Indirect Speech
8. Synthesis

**2<sup>nd</sup> Term**

1. Transformation of Sentences- I
2. Transformation of Sentences – II
3. Conditional Sentences
4. Adverbs
5. Synthesis of Sentences
6. Prepositions
7. Adjectives
8. Comparison of Adjectives

**COMPOSITION, COMPREHENSION, LETTER WRITING, WRITING TEXT FOR A NOTICE & EMAIL WRITING ON SAME CONTENT AS NOTICE (In both semesters)**

**FOR ICSE EXAMINATION: COMPLETE SYLLABUS OF CLASS 9 AND 10 IS TO BE STUDIED AND EXAMINATION WILL COVER ALL TOPICS OF CLASS 9 AND 10**

**PRESCRIBED BOOK:**

**Book:** Total English 10

ICSE English Language Course (As per syllabus for ICSE Class 9, in and after 2018)

**Author:** Pamela Pinto (Edited by Xavier Pinto)

**Publication:** Morning Star 4262/3, Gali Punjabiyan, Ansari Road, Daryaganj, New Delhi – 110002

***RECOMMENDED BOOK***

**Book:** A Comprehensive Grammar of Current English

**Author –** Edited by E.G. Myall

**ENGLISH 2**

**1<sup>st</sup> Term Syllabus**

**PLAY- Julius Caesar – William Shakespeare**

1. Acts 3,4.

**PROSE – *Treasure Chest: A Collection of ICSE Short Stories and Poems***

1. With the Photographer – Stephen Leacock
2. The Elevator – William Sleator
3. The Girl who Can- Ama Ata Aidoo

**POEMS – *Treasure Chest: A Collection of ICSE Short Stories and Poems***

1. Haunted Houses – H W Longfellow
2. The Gloves and the Lions– Leigh Hunt
3. When Great Trees fall– Maya Angelou

**2<sup>nd</sup> Term Syllabus**

**PLAY- Julius Caesar – William Shakespeare**

1. Act 5.

**PROSE – *Treasure Chest: A Collection of ICSE Short Stories and Poems***

1. The Pedestrian – Ray Bradbury
2. The Last Lesson- Alphonse Daudet

**POEMS – *Treasure Chest: A Collection of ICSE Short Stories and Poems***

1. A Considerable Speck- Robert Frost
2. The Power of Music- Sukumar Ray

**FINAL TERM TO INCLUDE THE ENTIRE SYLLABUS.**

**PRESCRIBED BOOK:**

**For Drama**

**Book: Julius Caesar**

**Author: William Shakespeare**

**Publisher: Evergreen**

**For Prose & Poetry**

**Book: Treasure Chest: A Collection of ICSE Short Stories and Poems**

**Publisher: Evergreen Publications (India) Ltd.**

**Note:** The Class X – ICSE examination paper will be set on the entire syllabus prescribed for the subject. The Class IX internal examination is to be conducted on the portion of the syllabus that is covered during the academic year. The Council has not prescribed bifurcation of the syllabus prescribed for the subjects.

## 2 LANGUAGE - HINDI

### 1st TERM

#### ICSE Sahitya Sagar

(A Collection of Short Stories & Poems)

#### Stories

- 1) Bheedh Mai Khoya Adami
- 2) Bhedhein Aur Bhedhiye
- 3) Do Kalakar

#### Poems

- 1) Bhikshuk
- 2) Chalna Hamara Kaam Hai
- 3) Matrimandir Ki Or

#### ICSE Saras Hindi Vyakaran

- 1) Prastav /Nibandh Lekhan/Chitra Par Adharit Maulik Kahani
- 2) Patra Lekhan
- 3) Apatith Gadyansh
- 4) Vyavharik Vyakaran

**FOR ICSE EXAMINATION: COMPLETE SYLLABUS OF CLASS 9 AND 10 IS TO BE STUDIED AND EXAMINATION WILL COVER ALL TOPICS OF CLASS 9 AND 10**

### 2nd TERM

**Revision of the entire syllabus of class 9 and 10**

**Note:** The Class X – ICSE examination paper will be set on the entire syllabus prescribed for the subject. The Class IX internal examination is to be conducted on the portion of the syllabus that is covered during the academic year. The Council has not prescribed bifurcation of the syllabus prescribed for the subjects.

**HCG – HISTORY**

**1<sup>st</sup> Term**

**CIVICS**

1. The Union Legislature
2. The Union Executive

**HISTORY**

1. The Indian National Movement (1857-1917)
2. Mass Phase of the National Movement (1915-1947)
3. The Contemporary World

**2<sup>nd</sup> Term**

**CIVICS**

1. The Union Legislature
2. The Union Executive
3. The Judiciary

**HISTORY**

1. The Indian National Movement(1857-1917)
2. Mass Phase of the National Movement (1915-1947)
3. The Contemporary World

**HCG – GEOGRAPHY**

**1<sup>ST</sup> TERM**

1. Interpretation of Topographical Maps
2. Map of India
3. Climate of India
4. Soil Resources
5. Natural Vegetation
6. Water Resources
7. Mineral resources
8. Conventional sources of energy
9. Non Conventional sources of energy
10. Transport

**2<sup>nd</sup> TERM**

1. Interpretation of Topographical Maps
2. Map of India
3. Climate of India
4. Soil Resources
5. Natural Vegetation
6. Water Resources
7. Mineral resources
8. Conventional sources of energy
9. Non Conventional sources of energy
10. Transport
11. Agriculture(Food and Cash Crops)
12. Industries (Agro Based and Mineral based)
13. Waste Management (Impact and Safe Disposal)

## **MATHEMATICS**

### **1<sup>ST</sup> TERM**

#### **CHAPTERS**

1. Probability: Random Experiments, Sample Space, Events, Definition of Probability, simple problems single events.
2. Statistics: Measures of Central Tendency
3. Statistics: Graphical Representation. Histograms and Less than Ogive.
4. Geometry: Construction of Tangents to a circle from an external point.
5. Geometry: Circumscribing and inscribing a circle on a triangle and a regular hexagon
6. Commercial Mathematics: Banking
7. Algebra: Linear Inequations
8. Algebra: Quadratic Equations in one variable
9. Algebra: Ratio and Proportion
10. Algebra: Matrices
11. Algebra: Reflection
12. Algebra: Arithmetic and Geometric Proportion
13. Trigonometry: Using Identities to solve/prove simple algebraic trigonometric expressions
14. Trigonometry: Heights and Distances
15. Mensuration: Area and volume of solids – Cylinder, Cone and Sphere

### **2<sup>nd</sup> Term**

16. Algebra: Shares and Dividends
17. Algebra: Factorisation of Polynomials
18. Algebra: Section and Mid-point formula
19. Algebra: Equation of a line
20. Geometry: Similarity
21. Geometry: Loci
22. Geometry: Circles
23. Commercial Mathematics: Goods and Services Tax (GST)

**SCIENCE – BIOLOGY**

**1<sup>ST</sup> TERM**

1. Basic Biology
  - i) Cell Cycle and Cell Division
  - ii) Structure of chromosome
  - iii) Genetics: Mendel's laws of inheritance, sex linked inheritance of diseases
2. Plant Physiology
  - i) Absorption by roots
  - ii) Transpiration
  - iii) Photosynthesis
  - iv) Chemical coordination in Plants
3. Human Anatomy and Physiology
  - i) Circulatory system
  - ii) Excretory system
  - iii) Nervous system
  - iv) Endocrine system
  - v) The Reproductive system

**2<sup>ND</sup> TERM**

4. Population
5. Human Evolution
6. Pollution
  - i) Types and sources of pollution, major pollutants.
  - ii) Biodegradable and non-biodegradable wastes
  - iii) Effects of pollution on climate, environment, human health and other organisms: control measures

## SCIENCE – CHEMISTRY

### 1<sup>st</sup> Term

1. Periodic table periodic properties & variations of properties
2. Chemical bonding
3. A. Acid, bases and salts  
B. Analytical chemistry- use of ammonium & sodium hydroxide
4. Electrolysis
5. Mole concept and stoichiometry  
A. Gay Lussa's law- Avogadro's law- mole concept  
B. Percentage & molecular formula – calculations based on chemical equations

### 2<sup>nd</sup> Term

1. Metallurgy
2. Study of compounds  
A. Hydrogen chloride  
B. Ammonia  
C. Nitric acid  
D. Sulphuric acid
3. Organic chemistry



**SCIENCE – PHYSICS**

**1<sup>st</sup> Term**

1. Force, Work, Power and Energy
2. Sound
3. Electricity and Magnetism
4. Heat
5. Modern Physics

**2<sup>nd</sup> Term**

1. Light
2. All chapters from First term Syllabus

## **COMMERCIAL STUDIES**

### **FIRST TERM**

#### **1) Stakeholders in Commercial Organisations**

- Meaning of stakeholders,
- Internal & External Stakeholders, its differences,
- Expectation of the owners, managers, government and the society.

#### **2) Marketing & Sales**

- Meaning & Objectives and differences
- Meaning and difference between product and service
- Meaning & objectives between pricing, product & service.
- Advertising & sales promotion (importance, meaning, merits and demerits.)

#### **3) Finance & Accounting**

- Capital and Revenue (Capital and Revenue receipts
- Capital and revenue expenditure, its differences
- Meanings, deferred revenue expenditure.
- Meaning & Preparation of Trading, P/L and Balance sheet
- Fixed and Variable cost (its meaning and differences).
- Utility of budgeting,
- Difference between budgeting and forecasting
- Meaning of Production, Master, Purchase and Cash budget.

#### **4) Human Resources**

- Recruitment, Selection and Training.
- Meaning of each, steps in selection
- Tests, objectives and methods of training.
- Meaning and objectives of trade unions, Concept of social security.

### **SECOND TERM**

#### **ALL CHAPTERS INCLUDED IN FIRST TERM & THE FOLLOWING:**

#### **5) Logistics**

- Meaning and Classification of Transportation
- Warehousing, Insurance
- Meaning and its types

**(Based on ICSE March 2024 Regulations & Syllabus)**

- Merits and Demerits of each mode of transportations
- Meaning of private and bonded warehouse.
- Meaning of fire, General, Marine and Health Insurance.

**6) Banking**

- Meaning and Function of Central Bank
- Difference between Commercial and Central bank
- Modes of Transferring Money (NEFT, RTGS, Mobile Wallets)
- ATM, Debit and Credit Card, Types of Financial Fraud.

**7) Government Initiatives in Environment Protection**

- Environment Protection Act 1986,
- Features of the act
- Functions of General Pollution Control Board.

## **COMPUTER APPICATION**

### **1<sup>st</sup> Term**

1. Revision of Class IX Syllabus

- i) Elementary Concept of Objects and Classes
- ii) Values and types
- iii) Conditionals and non-nested loops.

2. Class as the basis of all Computation

3. Constructors

4. Functions

5. Iterations

6. Arrays

7. Input / Output

### **2<sup>nd</sup> TERM**

1. Revision of Class IX Syllabus

- i) Elementary Concept of Objects and Classes
- ii) Values and types
- iii) Conditionals and non-nested loops.

2. Class as the basis of all Computation

3. Constructors

4. Functions

5. Class as a User Defined Type

6. Iterations

7. Using Library Classes

8. Encapsulation

9. Arrays

10. Input / Output

## ROBOTICS AND ARTIFICIAL INTELLIGENCE

### 1<sup>st</sup> Term Syllabus:

#### Part I Robotics

1. New Age Robotic Systems
2. From Robots to Cobots
  - (i) Difference between a machine and a robot.
  - (ii) Cobots
3. Components of Robots as a System
  - (i) Introduction to Gears. Use of gears in robots- transmission and amplification of force, principles of gears, types of gears, gear ratio (brief understanding with examples).
  - (ii) Sensors in Robotics
  - (iii) Actuators
  - (iv) Controller for a Robotic System
  - (v) Integrating Sensors, Actuators and Controller in a Robotic

#### Part II Artificial Intelligence

1. Decision making in Machines/ Computer
  - (i) Automated versus Autonomous Systems.
  - (ii) Decision Making
  - (iii) Machine Learning (ML).
2. Machine Intelligence and Cybersecurity in Computing
  - (i) Machine Intelligence
  - (ii) Cybersecurity

### 2<sup>nd</sup> Term Syllabus:

#### Part I Robotics

4. Visualization, Design and Creation of Components
  - (i) Application of Mechanical Block of Robotics.
  - (ii) Visualization of motion.
5. Integrating Robots as a System

#### Part II Artificial Intelligence

3. Components of AI Project Framework
  - (i) Problem Scoping
  - (ii) Data Acquisition
  - (iii) Data Exploration

(iv) Modelling and Evaluation

4. Introduction to Data and Programming with Python

(i) Modules and Packages.

(ii) Lists and Tuples in Python

(iii) Strings