THE BGES SCHOOL
12B, HEYSHAM ROAD
KOLKATA – 700020

CLASS 9 SYLLABUS **2024-2025**

(Based on ICSE March 2025 Regulations & Syllabus)

ENGLISH 1
(As split by Council Circular between Class 9 and 10)

1st Term Syllabus

1. Articles
2. Agreement of the Verb with the Subject
3. Time and Tense- I
4. Time and Tense -II
5. The Sequence of Tenses
6. Prepositions

2nd Term Syllabus

1. Direct and Indirect Speech
2. Active and Passive Voice
3. Transformation of Sentences- I
4. Transformation of Sentences – II
5. Conditional Sentences
6. Word Order
7. Synthesis of Sentences
8. Comparison of Adjectives

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

PRESCRIBED BOOK:

Book: **Total English 9**

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 Punjabian, Ansari Road, Daryaganj, New Delhi – 110002**

RECOMMENDED BOOK

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

Author – **Edited by E.G. Myall**

Publication: **I.U.P.**

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ENGLISH 2

1st Term Syllabus

Julius Caesar – *William Shakespeare*

1. Act 1

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

1. Bonku Babu's friend – Satyajit Ray
2. Oliver asks for more – Charles Dickens
3. The Model Millionaire- Oscar Wilde

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

1. The Night Mail – W H Auden
2. Skimbleshanks – The Railway Cat- T. S. Eliot
3. I Remember, I Remember – Thomas Hood

2nd Term Syllabus

Julius Caesar – *William Shakespeare*

1. Act 2

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

1. The Home-coming – Rabindranath Tagore
2. The Boy who broke the Bank – Ruskin Bond

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

1. A Doctor's Journal Entry for August 6, 1945 – Vikram Seth
2. A Work of Artifice- Marge Piercy

FINAL TERM TO INCLUDE THE ENTIRE SYLLABUS.

PRESCRIBED BOOK:

For Drama

Book: Julius Caesar
Author: William Shakespeare
Publisher:

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.

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CLASS 9 SYLLABUS **2024-2025**

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2 LANGUAGE - HINDI
(As split by Council Circular between Class 9 and 10)

1st TERM
ICSE Sahitya Sagar
(A Collection of Short Stories & Poems)

Stories
1) Baat Athanni Ki
2) Kaki
3) Mahayagya Ka Puruskar

Poems
1) Sakhi
2) Giridhar Ki Kundaliyan
3) Swarg Bana Sakte Hain

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

2nd TERM
ICSE Sahitya Sagar
(A Collection of Short Stories & Poems)

Stories
1) Neta ji Ka Chashma
2) Apna – Apna Bhagya
3) Bade Ghar Ki Beti
4) Sandeh

Poems
1) Wah Janambhoomi Meri
2) Megh Aaye
3) Sur Ke Pad
4) Vinay Ke Pad

ICSE Saras Hindi Vyakaran
1) Prastav /Nibandh Lekhan/Chitra Par Aadharit Maulik Kahani
2) Patra Lekhan
3) Apatith Gadyansh
4) Vyavharik Vyakaran

The class IX examination will be conducted on the portion of this syllabus that is to be covered during the academic year.

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.

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CLASS 9 SYLLABUS **2024-2025**

(Based on ICSE March 2025 Regulations & Syllabus)

HCG – HISTORY

1st Term

CIVICS

1. Our Constitution

HISTORY

1. The Harappan Civilization
2. The Vedic Period
3. Jainism and Buddhism
4. The Mauryan Empire
5. The Sangam Age
6. The age of the Guptas
7. The Modern age in Europe ; Renaissance ,Reformation

2ND Term

CIVICS

1. Elections
2. Local Self Government

HISTORY

1. The Harappan Civilization
2. The Vedic Period
3. Jainism and Buddhism
4. The Mauryan Empire
5. The Sangam Age
6. The age of the Guptas
7. Medieval India
8. The Modern age in Europe

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HCG – GEOGRAPHY

1ST TERM

1. Earth as a Planet
2. Geographic Grid Latitudes Longitudes
3.Rotation Revolution
4. Earth Structure
5. Landforms of the Earth
6. Rocks
7. Volcanoes
8. Earthquake
9. Weathering
10. Denudation
11. Natural Regions of the World [First Four Regions]

2ND TERM

1. Hydrosphere
2. Composition Structure of Atmosphere
3. Insolation
4. Atmospheric Pressure Wind
5. Humidity
6. Pollution
7. Sources of Pollution
8. Effects of Pollution
9. Preventive Measures
10. Natural Regions of the World [All 8 Regions]

* Above 11 chapters are from First Terminal

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MATHEMATICS

1ST TERM

CHAPTERS

1. Pure Arithmetic: rational and Irrational Numbers
2. Commercial Mathematics: Compound Interest
3. Algebra: Expansions
4. Algebra: Factorisation
5. Algebra: Simultaneous Linear Equations in two variables. Solving algebraically by Elimination, Substitution and Cross Multiplication
6. Indices/Exponents
7. Geometry: Triangles - Congruency
8. Geometry: Triangles - Problems based on Angles opposite equal sides are equal and converse etc.
9. Geometry: Triangles - Pythagoras Theorem
10. Geometry: Rectilinear figures - Construction of polygons
11. Geometry: Circles - Chord properties
12. Statistics
13. Mensuration: Area and perimeter of triangle, all types of Quadrilaterals
14. Co-ordinate Geometry

2nd TERM

15. Algebra: Simultaneous linear equations in two variables – Solving simple problems by framing appropriate equations.
16. Algebra: Logarithms
17. Geometry: Mid – Point theorem and its converse, equal intercept theorem.
18. Geometry: Rectilinear Figures - Proof and use of theorems on parallelogram
19. Geometry: Rectilinear Figures - Proof and use of Area theorems on parallelograms.
20. Geometry: Circles – arc and chord properties
21. Trigonometry
22. Mensuration: Circles – Area and circumference
23. Mensuration: Surface area and volume of 3 – D solids

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SCIENCE – BIOLOGY

1ST TERM

1. Basic Biology
    i) The Cell
    ii) Tissues: Types of plant and animal tissues

2. Flowering plants
    i) Flower: structure of a bisexual flower, functions of various parts
    ii) Pollination: self and cross- pollination
    iii) Fertilisation

3. Plant Physiology
    i) Structure of dicot and monocot seeds, germination of seeds, types and conditions
    ii) Respiration in plants: outline of the process, gaseous exchange

4. Diversity in living organisms
    i) A brief outline of the five kingdom classification
    ii) Economic importance of Bacteria
    iii) Economic importance of Fungi

2ND TERM

5. Human Anatomy and Physiology
    a) Nutrition
        i) Classes of food: balanced diet, malnutrition and deficiency diseases
        ii) The structure of tooth, different types of teeth
        iii) Digestive system
    b) Skeleton—movement and locomotion
    c) Structure and functions of skin
    d) Respiratory system

6. Health and Hygiene
    i) A brief introduction to maintaining good health.
    ii) A brief introduction to communicable, non- communicable, endemic, epidemic, pandemic and sporadic diseases.
    iii) Bacterial, viral, protozoan, helminthic diseases.
    iv) Aids to health: Active and Passive immunity
    v) Health Organisations: Red Cross, WHO

7. Waste generation and management
    a) Sources of waste-domestic, industrial, agricultural, commercial and other establishments
    b) Methods of safe disposal of waste

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SCIENCE – CHEMISTRY

1st Term

1. The language of chemistry
2. Chemical changes &reactions
3. Water
4. Atomic structure &chemical bonding
5. The periodic table

2nd Term

6. Study of the first element –hydrogen
7. Study of gas laws
8. Atmospheric pollution

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SCIENCE – PHYSICS

1ST TERM

CHAPTERS

1 Motion in 1 D
2 Laws of Motion
3 Measurements and Experimentation
4 Pressure in Fluids and Atmospheric Pressure
5 Upthrust in Fluids, Archimedes Principle and Floatation
6 Reflection of Light

2ND TERM

Heat
15 Propagation of Sound Waves
16 Current Electricity
17 Magnetism
Plus all revision chapters of 1st Terminal

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COMMERCIAL STUDIES

FIRST TERM

1) **Commercial Activities**
   - Meaning and differences between Commercial and Non commercial Activities
   - Types of Business Activities (Business, Profession and Employment
   - Industry Trade and Commerce (meaning and examples of each)
   - Meaning of Society, Trust, and Non profit Companies
   - Wholesale and Retail Trade (Meaning and Examples of Each)
   - Aids to trade: Transport, banking, warehousing, packaging (meaning only)
   - Public and Private Sector Enterprises
   - Joint Sector Enterprices (meaning and Features)

2) **Important departments of a Commercial Organisation**
   - Production
   - Purchasing and Stores
   - Marketing and Sales
   - Finance and Accounting
   - Human Resources
   - General Administration, Legal and Compliance.

3) **Communication in Commercial Organisation**
   - Meaning and process
   - Role of Communication in a Commercial Organisation
   - Different methods of Communication (letter, E-mail, Conference calling both Audio and Video)
   - Telephonic Conversation

4) **Introduction to Accounting & Book Keeping**
   - Meaning of Accounting and Book Keeping Accounting
   - Cycle, Difference between Accounting and Book Keeping.
   - Basic Accounting Terminology (Capital, Assets, Liability, Credit, Debit (meaning only)
   - Basic Accounting Principles and Concepts (money measurement, going concern, dual aspect, principle of full disclosure)
   - Meaning of Journal
   - Classification of Accounts,
   - Golden Rules of Debit & Credit.
   - Meaning of Ledger and its posting
   - Meaning and Posting in Trial Balance
   - Meaning, Types and Preparation of Cash Book.

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FINAL TERM

ALL CHAPTERS INCLUDED IN FIRST TERM & THE FOLLOWING

5) **Banking**
- Meaning and Functions of Commercial Banks
- Types of Accounts (savings, Current, Recurring and Fixed, meaning only).

6) **Trade**
- Channels of Distribution (physical, C& F Agents, Wholesalers, Distributers, Retailers)
- E- Commerce and E- Trade
- Merits and Demerits of Online Trading.

- **Social Responsibilities of Commercial Organisations towards the environment.**
- E-waste Management
- Recycling
- Afforestation
- Eco Friendly Products
- Legal Compliance of Environmental Norms

A brief understanding on the above.

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COMPUTER APPICATION

1st Term

1. Introduction to Object Oriented Programming concepts
    a) Principles of Object Oriented Programming
    b) Introduction to Java
2. Elementary concept of Objects and Classes
3. Values and data types
4. Operators in Java
5. Input in Java
6. Mathematical Library Methods
7. Conditional Constructs in Java
8. Python (Practical)
    a) Programs with conditional statements
    b) Python Data structure –Lists, Sets, Dictionaries, Array.

2nd Term

1. All chapters in 1st term
2. Iterative constructs in Java
3. Nested for Loops
4. Computing and Ethics
5. Python (Practical)
    a) Programs using different finite loops- for, while, for-each
    b) Introduction to Numpy

Suggested Learning Resources:

1. Scratch 3.29.1 / Scratch-461
2. Python IDLE 3.10 / Python 2.7.7 IDLE
3. BlueJ 5.0.3 / BlueJ 4.2.2 /BlueJ 3.2

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ROBOTICS AND ARTIFICIAL INTELLIGENCE

1st Term Syllabus:

Part I
Robotics

1. Introduction to Robotics
   (i) Understanding robotics
   (ii) Evolution of Robots: Laws of Robotics

Part II
Artificial Intelligence

1. Introduction to Artificial Intelligence
   (i) Meaning and brief history, Turing Test and its uses
   (ii) Application and Benefits of AI
   (iii) Ethical considerations in AI
2. Role of data and Information, Evaluation of Computing
   (i) Data and Information: Types of Data (audio, visual, numeric, text); Data to information.
3. Introduction to Data and Programming with Python
   (i) Familiarization with Python.
   (ii) Introduction to data types and variables
   (iii) Introduction to Operators.
   (iv) Conditional Statements.

2nd Term Syllabus:

Part I
Robotics

1. Introduction to Robotics(continued)
   (i) Classification of robots
   (ii) Real world Robots and their application
2. Robots as a System
   (i) Building blocks of Robots.
   (ii) Identification of Robots.
3. Concepts in Robotics
   (i) Types of motion; motion in 1D and 2D
   (ii) Using links and joints to create specific motion.
   (iii) Degree of freedom of a robot

Part II
Artificial Intelligence

1. Role of data and Information, Evaluation of Computing (Continued)
   (i) Evolution of Computing: Pre AI/ ML, Binary Logic System, Conditional Gates, Deterministic computing for deterministic problems.
2. Introduction to Data and Programming with Python (Continued)

(i) Functions

3. AI Concepts and AI project Framework

(i) AI Concepts
(ii) Components and Stages AI Projects(alias AI Project cycle)

Suggested Learning Resources:

1. Python 3.11.1
2. Robotics kit