

**THE BGES SCHOOL
12B, HEYSHAM ROAD
KOLKATA – 700020**

CLASS 10 SYLLABUS

2026-2027

(Based on ICSE March 2024 Regulations & Syllabus)

ENGLISH 1

1ST 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

2nd 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 Punjabian, Ansari Road, Daryaganj, New Delhi – 110002

RECOMMENDED BOOK

Book: A Comprehensive Grammar of Current English

Author – Edited by E.G. Myall

ENGLISH 2

1st 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

2nd 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.

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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.

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HCG – HISTORY

1st 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

2nd 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

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HCG – GEOGRAPHY

1ST 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

2ND 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

1ST TERM CHAPTERS

1. Banking
2. Matrices
3. Linear Inequation
4. Quadratic Equations
5. Trigonometrical Identities
6. Trigonometrical Tables
7. Height And Distance
8. Ratio And Proportion
9. Arithmetic Progression, Geometric Progression
10. Circles
11. Similarity
12. Cylinder, Cone, Spheres
13. Section Formula
14. Equation of a Straight Line
15. Measures of Central Tendency: Mean, Median, Mode, Histograms and Ogives
16. Construction Of Tangents and Circumcircle and Incircle

2nd TERM CHAPTERS

17. Reflection
18. Probability
19. Shares And Dividends
20. GST
21. Locus
22. Factorization
23. Revision Chapters of 1st Term

SCIENCE – BIOLOGY

1ST 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

2ND 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

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SCIENCE – CHEMISTRY

1st 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

2nd Term

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

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SCIENCE – PHYSICS

1st Term

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

2nd Term

1. Calorimetry
2. Modern Physics
3. All chapters from 1st 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

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- 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

1st 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

2nd 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

1st 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
3. Python Programming
 - (i) List
 - (ii) Dictionary
 - (iii) String Manipulation
 - (iv) Numpy arrays
 - (v) Image using matplotlib
 - (vi) Plotting

2nd 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

5. Python Programming

- (i) Plotting different graph
- (ii) Regression Assignment