

**DIRECTORATE OF EDUCATION,SGPC BHADURGARH**  
**CLASS-XI. SYLLABUS-BIOLOGY SESSION-2023-24**

**UNIT-1 DIVERSITY IN THE LIVING WORLD**

CH-1: The Living World

CH-2: Biological Classification

CH-3: Plant Kingdom

CH-4: Animal Kingdom

**UNIT-2 STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS**

CH-5: Morphology of flowering plants

CH-6: Anatomy of flowering plants.

CH-7: Structural organisation of Animals

**UNIT-3 CELL: STRUCTURE AND FUNCTIONS**

CH-8: Cell: The unit of life

CH-9: Biomolecules

CH-10: Cell cycle and Division

**Class:-+1. Subject-Chemistry Session -2023-2024**

**Unit1-** Some basic concept of chemistry

**Unit2-** Structure of atom

**Unit3-** Classification of elements and periodicity in properties

**Unit7-** Redox reactions

**Unit8-** Organic Chemistry: Some basic Principles and Techniques

Note :- • Question paper should be according to CBSE sample paper(2023-2024).

• CBSE syllabus should be strictly followed

**Class 11<sup>th</sup> Physics Sep Exam syllabus**

1. Unit and measurements
2. Motion in a straight line
3. Motion in a plane
4. Laws of motion
5. Work energy and power
6. System of particles and a rotational motion
7. Gravitation
8. Note :- • Question paper should be according to CBSE sample paper(2023-2024).
9. • CBSE syllabus should be strictly followed

Class 11<sup>th</sup>

**Term -1 MATHS**

Chapter no	Chapter Name	Marks
Ch-1	Sets	38
Ch-2	Relations and Functions	
Ch-3	Trigonometric Functions	

Ch-4	Complex Numbers and Quadratic Equations	42
Ch-5	Linear inequalities	
Ch-6	Permutations and Combination	
Ch-7	Binomial theorem	

## Computer Science Class

**XI (Term 1) 2023-24**

**Code No. 083**

**2023-**

**24**

### Unit I: Computer Systems and Organisation

- Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory ( bit, byte, KB, MB, GB, TB, PB)
- Types of software: System software ( Operating systems, system utilities, device drivers), programming tools and language translators ( assembler, compiler, and interpreter), application software
- Operating System(OS): functions of the operating system, OS user interface
- Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits
- Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion

between number systems

- Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32)

### Unit II: Computational Thinking and Programming - I

- Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition
- Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens( keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments
- Knowledge of data types: Number(integer, floating point,complex), boolean, sequence(string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.
- Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)
- Expressions, statement, type conversion, and input/output: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output.
- Errors- syntax errors, logical errors, and run-time errors
- Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow

- Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number.
- Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc.

- **+1 ACCOUNTANCY (055)**

- **TERM 1**

- CH-1 Introduction to accounting
- CH-2 Basic accounting terms
- CH-3 Theory base of accounting
- CH-4 Bases of accounting (AS,Ind/As)
- CH-5 Accounting EQUATION
- CH-6 Accounting procedures Rules of Debit/ credit
- CH-7 Origins of transactions
- CH-8 JOURNAL
- CH-9 Ledger
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- **TERM 2**

- CH-10 Trial balance
- Ch-11 Accounting for GST
- Ch-12 Special purpose books 1-cash book
- CH-13 Special purpose books 11-other books
- CH-14 Bank Reconciliation Statement
- CH-15 Depreciation
- CH-16 Provisions and reserves
- CH-17 Rectification of errors
- CH- 18 Financial statements of Sole Proprietorship
- CH-19 Financial statements with adjustment
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**DIRECTORATE OF EDUCATION,SGPC BHADURGARH**

**Class 12 Term 1 ENGLISH**

1. Flamingo: English Reader published by National Council of and Training, New Delhi  
(Prose)

1.The Last Lesson

2.Lost Spring

3.Deep Water

4.The Rattrap

5. Indigo

(Poetry)

1.My Mother at Sixty-Six

2.Keeping Quiet

3.A Thing of Beauty

2. Vistas: Supplementary Reader published by National Council Research and Training, New Delhi

1.The Third Level

2.The Tiger King

3. Journey to the End of the Earth

## **CLASS-XII. SYLLABUS-BIOLOGY. SESSION-2023-24**

### **UNIT-1REPRODUCTION**

CH-1: Sexual Reproduction in Flowering plants

CH-2: Human Reproduction

CH-3: Reproductive Health

### **UNIT-2 GENETICS AND EVOLUTION**

CH-4: Principles of inheritance and variation

CH-5: Molecular Basis of inheritance

CH-6: Evolution

**NOTE: ACCORDING TO NEW NCERT EDITION (OCTOBER-2022)**

●Question paper should be according to CBSE sample paper(2023-24 )

●CBSE SYLLABUS should be strictly followed.

## **Class-+2 Subject -Chemistry Session -2023-2024**

Unit1-Solution

Unit2- Electrochemistry

Unit3- Chemical Kinetics

Unit6- Haloalkanes and haloarenes

Unit9- Amines

## **Class 12 Physics SepExam syllabus**

1. Electrostatic charges and fields
2. Electrostatic potential and capacitance
3. Current electricity
4. Moving charges and magnetism
5. Magnetism and matter
6. Electromagnetic induction and alternating current
7. Alternating currents
8. Electromagnetic wave

Class 12<sup>th</sup>

### **Term -1 MATHS**

Chapter no	Chapter Name	Marks
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Ch-1	Relations and Functions	
Ch-2	Inverse Trigonometric Functions	20
Ch -3	Matrices	27
Ch -4	Determinants	
Ch -5	Continuity and Differentiability	
Ch-6	Application of Derivatives	33

## Computer Science (083)

## Class XII (Term 1)

(Written 70+Practical 30)=100

### Unit I: Computational Thinking and Programming –

- Revision of Python topics covered in Class XI.

Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)

- Exception Handling: Introduction, handling exceptions using try-except-finally blocks
- Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths
- Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file
- Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file
- CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader()
- Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.

### Unit III: Database Management

- Database concepts: introduction to database concepts and its need
- Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)
- Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join

**TERMINAL SULLABUS (2023-24)**  
**+2 COMMERCE**  
**SUBJECT: BUSINESS STUDIES (054)**

**TERM 1**

CH-1 Nature and significance of management  
CH-2 Principle of management  
CH-4 Planning  
CH-5 Organising  
CH-6 Staffing  
CH-7 Directing  
CH-8 Controlling

**TERM-2**

CH-3 Business Environment  
CH-9 Financial management  
CH-10 Financial marketing  
CH-11 Marketing management  
Ch-12 Consumer protection

**NOTE: WHOLE SYLLABUS BOTH TERM1 AND TERM2 WILL COME IN FINAL EXAMS**

**DIRECTORATE OF EDUCATION (SGPC) BAHADURGARH PATIALA**

**TERMINAL SYLLABUS**  
**+2 COMMERCE**  
**ACCOUNTANCY (055)**

**TERM 1**

**UNIT 1 ACCOUNTING FOR PARTNERSHIP FIRMS**

CH-1 Accounting for partnership firms – Fundamentals  
CH-2 Goodwill: Nature and Valuation  
CH-3 Change in Profit-sharing Ratio among the existing partners  
CH-4 Admission of a partner

**UNIT:3 ANALYSIS OF FINANCIAL STATEMENTS**

CH-1 Financial statement of a company  
CH-2 Financial statement Analysis  
CH-3 Tools of financial statement analysis  
CH-4 Accounting ratios

**12<sup>TH</sup> ECONOMICS SEP EXAM SYLLABUS**

**Indian economic On the eve of independence**

1 economic system and common goals of 5 year plans  
2 Indian economy  
3 economic reforms since 1991  
4 new economic policy  
5 human capital formation in India

**Introductory macroeconomics**

1 Introduction  
2 Some basic concepts of macroeconomics  
3 national income and related aggregates

4 methods of calculating national income

5 money

6 banking

**Note:** all the marking scheme and paper pattern will remain same as per CBSE

## **+1 BUSINESS STUDIES (054)**

### **TERM 1**

CH-1 Evaluation and Fundamentals of Business

CH-2 Forms of Business Organisation's

CH-3 Private, Public and Global Enterprises

CH-4 Business services

CH-5 Emerging mode of Business

### **TERM 2**

ch-6 social responsibility of business and Business ethics

CH-7 Sources of Business finance

CH-8 Small business and enterprises

CH-9 Internal trade

CH-10 International trade

Term 1 syllabus economics class 11<sup>th</sup>

### **Introductory microeconomics**

1 Economics and economy

2. central problem of an economy

3. consumer equilibrium utility analysis

4. theory of demand

5 price elasticity of demand

### **statistics for economic**

1 concept of economics and significance

2 collection of data

3. census and sample method of collection of data

4. organization of data

5. presentation of data texture and tabular presentation

6 diagrammatic presentation of data bar graph and pie diagram

7. Frequency diagram histogram Polygon ogive

Note paper pattern and style and marking scheme will remain same as prescribed by cbse

## **11<sup>TH</sup> Subject English**

Part a reading (as per cbse pattern)

Part b writing and grammar(as per cbse pattern)

Part c literature

Chapters to be included for September exams

Hornbill

Ch 1The portrait of a lady

Ch2 We are not afraid to die

Ch3 discovering tut :the saga continues

poems :-a photograph ,The laburnum top, the voice of rain

snapshots

ch 1:the summer of beautiful White Horse

Ch2: the address

Marking scheme and paper pattern is as cbse

Sample papers.