

SYLLABUS FOR TERM- II
CLASS-XII
SUBJECT- MATHEMATICS

Book	Unit No.	Chapter No.	Chapter Name
Text Book for Mathematics (NCERT)	I	1	Relations and functions Determination
		2	Inverse Trigonometry
	II	3	Matrices
		4	Determination
	III	5	Continuity and differentiability
		6	Application of derivative
		7	Integrals
		8	Application of Integrals
		9	Differential equations

SUBJECT- PHYSICS

Book	Unit No.	Chapter No.	Chapter Name
NCERT	I	1	Electrostatics- Electric charges and Field
		2	Electric Potential & Capacitance
	II	3	Current Electricity- Current Electricity
	III	4	Magnetic Effects of Current & Magnetism- Moving Charges & Magnetism
		5	Magnetism and Matter
	IV	6	Electromagnetic Induction
		7	Alternating Current
	V	8	Electromagnetic Waves
	VI	9	Ray Optics & Optical Instruments
		10	Wave Optics

Practical:-

1. Verification of ohm's law by plotting a graph of V & I.
2. To determine the value of unknown resistance by using meter bridge
3. To compare the emf of cell by potentiometer.
4. To verify the law of combination (series & Parallel) of resistance using a meter bridge.
5. To draw I-V characteristics curve of a P-N junction in forward bias and reverse bias.
6. To draw characteristics of a zener diode and to determine its reverse breakdown voltage.
7. a) To determine angle of minimum deviation for a given prism by plotting graph between angle of incidence and angle of deviation.
b) To determine refractive index of material of prism.
8. To find focal length of a concave lens using a convex lens.
9. To find focal length of a convex lens by plotting a graph between "u and v" or 1/u and 1/v.
10. To find focal length of a concave mirror using a convex mirror.

SUBJECT- CHEMISTRY

Theory:-

Book	Unit No.	Chapter Name	
Text Book of Chemistry (NCERT)	6	Metallurgy	
	3	Electrochemistry	
	7	P-Block Elements	
	8	d and f-block of elements	
	1	Solid State	
	4	Chemical Kinetic	
	5	Surface Chemistry	
9	Coordinates Compounds		

Practical-

1. Titration, Salt Analysis, Record , Viva (30 Marks)

SUBJECT- BIOLOGY

Theory:-

Book	Chapter No.	Chapter Name
Text Book for Biology (NCERT)	3	Human Reproduction
	4	Reproductive Health
	8	Human health & diseases.
	9	Strategies for enhancement in food production.
	10	Microbes in human welfare.
	11	Biotechnology-Principals and process
	12	Biotechnology and its applications
	13	Organizers and their Environment

Practical:-

Section – A

1. Study of plant population density by quadrant method.
2. . Study of plant population frequency by quadrant method.
3. Prepare a temporary mount of onion root tip to study mitosis.
4. Study of effect of different temperatures and three different pH on the activity of salivary amylase on starch.
5. Study the presence of suspended particles in air at two widely different sites.

Section – B

- 1.Meiosis in onion bud cell or grasshopper testis through permanent slides.
2. prepared pedigree charts of traits such as rolling of tongue, ear lobes, widow's peak & colour blindness.

3. common disease causing organisms:- Ascaris ,Entamoeba, Plasmodium ,Roundworm.
4. Two plants & animals found in Xeric conditions.
5. Two plants and animals found in aquatic conditions.
6. Controlled Pollination emasculation, Jaggling & bagging.

SUBJECT- COMPUTER SCIENCE

Theory:-

Book	Unit No.	Chapter No.	Chapter Name
Computer Science with C++ by Sumita Arora (Volume –I)	I	1	C++ Revision Tour
		2	Object Oriented Programming
		3	Function Overloading
		4	Classes and Objects
		5	Constructor and Destructor
		6	Inheritance
		7	Data file handling
		8	Pointers
	II	9	Arrays
		10	Linked List, Stacks and Queues

Practical –

FILE HANDLING

- 1 Binary File operation (Creation , Display)
- 2 Binary File operation (Searching, Modification)
- 3 Text File operation (Creation , Display)
- 4 Text File operation (Searching, Modification)

STRING AS AN ARRAY

- 4 To check if a string is a palindrome or not
- 5 To count number of words, characters, vowels in a given string

1 D ARRAY

- 6 To implement Insertion in array.
- 7 To implement Deletion in array.
- 8 To implement traversal in array
- 9 To implement Linear Search.
- 10 To implement Binary Search.
- 11 To implement Selection Sort.
- 12 To implement Bubble Sort.
- 13 To implement Insertion Sort.
- 14 To implement merging in array.

2 D ARRAY

- 15 Write a program to add two matrices.
- 16 Write a program to find the product of two matrices.
- 17 To find Transpose of a matrix

18 Write a program to find the sum of left and right diagonal of a 3x3 matrix.

STRUCTURES

19 Write a program to make a structure of student with the following details. (Name, Age, Class, Marks, Average, Result)& Get Input from the user for the data Name, Age, Class Marks and Find the average & result of the student
if average ≥ 40 result 'P' if not result 'F'

SUBJECT- PHYSICAL EDUCATION

Book	Unit No.	Chapter Name
Candid	1	Planning in sports
	2	Sports and Nutrition
	3	Yoga and Life Style
	4	Physical Education and Sports for differently abled
	5	Children and Sports
	6	Women and Sports
	7	Test and Measurement in Sports
	8	Physiology and sports

PRACTICAL -

01. Physical Fitness – AAHPER
02. Athletics – Middle and Long Distance Runs and Throws
03. Health and Fitness Activities – Asanas (Any Three)
04. Skill of any one Team Game of your choice
05. Viva
06. Record File

SUBJECT- HINDI

किताब का नाम	पाठ संख्या	पाठ का नाम
	1	आत्म परिचय
	2	पतंग
	3	कविता के बहाने
आरोह (काव्य खंड)	4	कैमरे में बंद अपाहिज
	5	स्वर्ष स्वीकारा है
	6	उषा

किताब का नाम	पाठ संख्या	पाठ का नाम
	11	भक्तिन
	12	बाजार दर्शन
	13	काले मेघा पानी दे
आरोह (गद्य खंड)	14	पहलवान की ढोलक
	15	चार्ली चैप्लिन यानी हम सब
	16	नमक

किताब का नाम	पाठ संख्या	पाठ का नाम
वित्तान	1	सिल्वर वैडिंग
	2	जूझ

- निबंध लेखन
- पत्रलेखन (औपचारिक, अनौपचारिक)
- पत्रकारिता से संबंधित प्रश्न
- फीचर, रिपोर्ट , लेख

SUBJECT- ECONOMICS

Theory:-

Book	Unit No.	Chapter Name
Micro Economics	1	Introduction
	2	Consumer's Equilibrium
	3	Demand
	4	Elasticity of Demand
	5	Production Function
	6	Cost
	7	Revenue
	8	Producer's Equilibrium
	9	Supply
Macro Economics	1	Circular flow of Income
	2	Basic Concepts of Macro
	3	National Income
	4	Measurement of National Income.
	5	Money
	6	Banking

SUBJECT- BUSINESS STUDIES

Theory:-

Book	Unit No.	Chapter Name
Business Studies by Sandeep Garg	1	Nature and Significance of Management
	2	Principals of Management
	3	Business Environment
	4	Planning
	5	Organising
	6	Staffing
	7	Directing

Practical – Principal of management.

SUBJECT- ACCOUNTS

Theory:-

Book	Chapter No.	Chapter Name
	1	Accounting for partnership firms
	2	Goodwill – Nature and valuation
	3	Change in Profit sharing ratio
	4	Admission of partner
Double Entry Book Keeping by T. S. Grewal	5	Retirement and Death of Partner
	6	Dissolution
	7	Accounting for Share Capital
	8	Issue of Debentures
	9	Redemption of Debentures

SUBJECT – Entrepreneurship

Book	Chapter No.	Chapter Name
	1	Entrepreneurial Opportunity
	2	Enterprise Planning
	3	Enterprise Marketing
	4	Enterprise Growth Strategies

SUBJECT – ENGLISH

S.NO	Book	Term II
1	Flamingo	Poem – 1) My Mother 2)An elementary school class room in a slum 3) Keeping Quite 4)A thing of beauty, Joy forever
		Ch. 1- The Last Lesson Ch.2- Lost Spring Ch. 3– Deep Water Ch. 4 – The Rattrap
2	Vistas	1.The Tiger King, 2. The Enemy, 3. Should Wijard, Hit Mommy.
3	Writing Skills	Note Making, Advertisement, Article Writing.

SUBJECT- INFORMATICS PRACTICES

Book	Chapter No.	Chapter Name
Sumita Arora	1	Computer Network
	2	Open Source Concept
	3	Java GUI Programming Revision Tour I
	4	Java GUI Programming Revision Tour II
	5	Java GUI Programming Revision Tour III
	6	More about Class and Library
	7	Concept of inheritance
	8	Database Connectivity to MySQL
	9	Web Application Development
	10	HTML I
	11	HTML II
	12	XML
	13	MySQL Revision Tour
	17	IT Application