S.H.I.P.S.

APremierInstitution

CourseofStudyforGrade XI(Science),2024-25

ENGLISH

Month	Skill	Topic
April	Reading	Notes Making
	Writing	Advertisement Poster
	Grammar	Determiners, Tenses
	Literature	The Portrait of a Lady A Photograph Laburnum Top
	ASL	Introduction of Self, Narration of Short Story
May	Reading	Passage
	Writing	Speech
	Grammar	Modal
	Literature	The summer of beautiful white horse The Address
July	ASL	Best Friend, Family
	Reading	Passage
	Writing	Advertisement Posters Speech
	Grammar	Determiners, tenses, Modals
	Literature	Childhood We're not afraid to die Discovering Tut
	ASL	Listening Task
August	Reading	Passage, Notes making
	Writing	Revision of writing composition
	Grammar	Jumbled sentences
	Literature	Voice of Rain

		Father to son
		Adventure
	ASL	Listening/ speaking
September	Term I Exam	Term I Exam
October	Reading	Passages
	Writing	Short and long composition
	Grammar	Gap Filling/Cloze Filling
	Literature	Mother's day Birth
	ASL	Situational questions
November	Reading	Passages
	Writing	Short and long composition
	Grammar	Revision
	Literature	Silk road Situational questions
	ASL	Situational questions
December	Reading	Passages
	Writing	Short and long composition
	Grammar	Revision
	Literature	Tale of melon city
	ASL	Situational questions

PUNJABI

ਅਪ੍ਰੈਲ- ਦੰਤਕਥਾ – ਪੂਰਨ ਭਗਤ, ਲੋਕਗੀਤ – ਸੁਹਾਗ ਪੱਤਰ, ਇਸ਼ਤਿਹਾਰ (1-10), ਮੁਹਾਵਰੇ, ਬੈਂਕ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ

> ਮਈ- ਦੰਤਕਥਾ – ਰਾਜਾ ਰਸਾਲੂ, ਦੁੱਲਾਭੱਟੀ, ਲੋਕਗੀਤ - ਘੋੜੀਆਂ, ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ, ਪੱਤਰ,ਲੇਖ, ਰੇਲਵੇ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ

ਜੁਲਾਈ - ਲੋਕਗੀਤ - ਬੋਲੀਆਂ, ਇਸ਼ਤਿਹਾਰ(11-20), ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ, ਮੁਹਾਵਰੇ

ਅਗਸਤ – ਲੋਕ ਗੀਤ - ਟੱਪੇ, ਸੱਦਾ ਪੱਤਰ (1-6), ਮੁਹਾਵਰੇ, ਪੱਤਰ, ਲੇਖ ਦੁਹਰਾਈ

Unit Test - ਦੰਤਕਥਾ- ਪੂਰਨ ਭਗਤ, ਲੋਕ ਗੀਤ- ਸੁਹਾਗ ,ਇਸ਼ਤਿਹਾਰ (1-10), ਮੁਹਾਵਰੇ, ਬੈਂਕ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ, ਪੱਤਰ , ਦਫਤਰੀ ਸ਼ਬਦਾਵਲੀ

ਸਤੰਬਰ2024 Term - I

ਅਕਤੂਬਰ - ਪ੍ਰੀਤਕਥਾ – ਹੀਰ ਰਾਂਝਾ, ਲੋਕਗੀਤ- ਸਿੱਠਣੀਆਂ, ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਤ ਸ਼ਬਦਾਵਲੀ, ਡਾਕ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ, ਮੁਹਾਵਰੇ, ਸੱਦਾ ਪੱਤਰ (7-12), ਪੱਤਰ

ਨਵੰਬਰ – ਪ੍ਰੀਤ ਕਥਾ – ਮਿਰਜ਼ਾ ਸਾਹਿਬਾ, ਲੋਕ ਸਾਹਿਤ - ਢੋਲਾ ,ਪੱਤਰ, ਲੇਖ, ਕੰਪਿਊਟਰ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ

ਦਸੰਬਰ – ਲੋਕ ਸਾਹਿਤ- ਮਾਹੀਆ

,ਬੁਝਾਰਤਾਂ, ਲੇਖ, ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ ਜਨਵਰੀ - ਦੁਹਰਾਈ ਫਰਵਰੀ- ਦੁਹਰਾਈ ਮਾਰਚ - Term - ॥

PHYSICALEDUCATION

APRIL

Chapter1– ChangingTrendsandCareerinPhysicalEducationChapter2– Olympism Value Education



Chapter 2 – Olympism Value Education

Chapter 3 - Yoga

Periodic Test 1

Chapter 1 and Chapter 2

June

Practical Work

Fitness tests administration. (SAI Khelo India Test)

July

Chapter 4 - Physical Education and Sports for CWSN

Chapter 5 – Physical Fitness, Wellness and Lifestyle

Periodic Test 2

Chapter 3

Chapter 4

August

Chapter 6:- Test, Measurement and Evaluation

Practical work :- Procedure for Asanas, Benefits & Contraindication for any two

Asanas for each lifestyle disease

September

Term 1 Exam

Chapter 1 to 5

Term 2 Syllabus

October

Chapter 7 – Fundamentals of Anatomy, Physiology in Sports.

Chapter 8 – Fundamentals of Kinesiology and Biomechanics in Sports.

Periodic Test 3

Chapter 6, 7 & 8.

November

Chapter 9 - Psychology and Sports.

Practical Work:- Proficiency in Game. (Skill of any one IOA recognised Sports/Game of choice)

December

Chapter 10 – Training and Doping in Sports

Periodic Test 4

Chapter 9 & 10

January

Practical Classes and Revision



Revision Tests



Final Exam

PHYSICS

Term-1

Ch-2 Units and MeasurementsCh-3 Motion in Straight Line

MAY

Ch-4 Motion in Plane Ch-5 Laws of Motion

UT-1

Ch.2 units and measurementCh 3 Motion in straight lineCh4 Motionin plane

JULY

Ch-4 Motion in Plane Ch -5 Laws of Motion Ch-6Work,Energyand Power

AUGUST

Ch-7System of particles and rotational motion Ch-8Gravitation

SEPTEMBER

Term-1 exams.

OCTOBER

Ch-10 Mechanical Properties of FluidCh-11 Thermal Properties

NOVEMBER

Ch-12Thermodynamics.

Ch-13 Behaviour of Perfect Gases and Kinetic Theory of Gases

DECEMBER

Ch-14Oscillations

UT-2

Ch 9Mechanical Properties of solids.Ch10mechanical properties of fluidCh11Thermalproperties
Ch 12 Thermodynamics

JANUARY

Ch-15 Waves

FEBRUARY

Revision

MARCH

Annualexam.

SYLLABUSFORPRACTICALS

APRIL

Tomeasure diameter of spherical bobusing vernier calipers.

May

To find diameter and depth of beaker using vernier caliper

JULY

Tomeasurethicknessofsheetusingscrewgauge

AUGUST

To find volume of lamina using screw gauge

OCTOBER

Tofindforce constant of helicalspringbyplottinggraphbetweenloadandextension

NOVEMBER

Tofindmassoftwounknownobjectsusingbeambalance

DECEMBER

To using simple pendulum, plot I-t2 graph and find value of acceleration due to gravity JANUARY

Tostudyvariation of time periodof simple pendulum of givenlength but different masses.

Term-1

Ch-2 Units and measurementCh-3 Motion in straight lineCh-4 Motionin plane Ch-5 Laws of motion Ch-6 Work, power and energyCh-7 Motionofsystem Ch 8 gravitation

CHEMISTRY

Term1

- 1 Some Basic Concepts of Chemistry (April)
- 2 Structure of Atom (April, May)

- 3 Classification of Elements and Periodicity in Properties(July)
- 4 Chemical Bonding and Molecular Structure (July)
- 5 Chemical Thermodynamics (August)

Term 2

- 6 Equilibrium (October)
- 7 Redox Reactions (November)
- 8 Organic Chemistry: Some basic Principles and Techniques(November, December)
- 9 Hydrocarbons (January, February)

List of Practicals

- 1. Determination of melting point of an organic compound. (May)
- 2. Determination of boiling point of an organic compound. (May)
- 3. Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid(May)
- 4. Comparing the pH of solutions of strong and weak acids of same concentration. (August)
- 5. Study the pH change in the titration of a strong base using universal indicator. (August)
- 6. Preparation of standard solution of Oxalic acid. (October)
- 7. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid. (October)
- 8. Preparation of standard solution of Sodium carbonate. (October)
- 9. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.(October)
- 10. Determination of one anion and one cation in a given salt(minimum 3 salts)(November)
- 11. Detection of -Nitrogen, Sulphur, Chlorine in organic compounds. (November, December)

MATHEMATICS

M.M.: 80 Time: - 3 hrs.

Format for Term Question Paper:-

Form of Questions	No. of Questions	Marks of each	Total
		question	
M.C.Q. s	20	1	20
Very Short Answer	5	2	10
type questions			
Short Answer type	6	3	18
questions			
Long Answer type	4	5	20
questions			
Case Base Study	3	4	12
questions			
		Total	80

Format for U.T. Question Paper:-

Form of Questions	No. of Questions	Marks of each	Total
		question	
M.C.Q. s	10	1	10

Very Short Answer	5	2	10
type questions			
Short Answer type	4	3	12
questions			
Long Answer type	2	5	10
questions			
Case Base Study	2	4	8
questions			
Total			50

Internal Assessment	20 Marks
Pen Paper Test (U.T.) and multiple Assessment (5+5)	10 Marks
Mathematics Activities	10 Marks

Class XI

Unit	Name of	Course Content	No. of	Month
No.	the Unit		Lectures required	
1	Sets and	Sets (Chapter 1)	15	April
	Functions	Relations and functions (Chapter 2)	10	April
		Trigonometric functions (Chapter 3)	18	May
2	Algebra	Complex Numbers and Quadratic		
		equations (Ch-4)	10	May
		Linear Inequalities (Ch-5)	10	July
		Permutations and Combinations (Ch-6)	10	July
		Binomial Theorem (Ch-7)	10	August
		Sequence and Series (Ch-8)	12	August
3	Coordinate	Straight Lines (Ch-9)	15	Sep./Oct.
	Geometry	Conic Sections (Ch-10)	10	October
		Introduction to three dimensional	10	Oct./Nov.
		gemoetry (Ch-11)		
4	Calculus	Limits and Derivatives	18	Nov.
5	Statistics	Statistics (Ch-15)	10	Dec.
	Probability	Probability (Ch-16)	10	Dec/Jan

BIOLOGY

Term -1 April

ch.1 The Living world.

ch.2 Biological classification

ch.3 Plant Kingdom ch.5 Morphology of flowering plants (July half) July ch.6 Anatomy of flowering plants ch.7 St. organisation in Animals. Aug Ch.15 Plant growth & Development Ch.13 Photosynthesis in plants ch.14 Respiration in plants Term - II Oct Ch. 4 Animal Kingdom. ch. 8 Cell - The unit of Life Nov Ch.10 Cell cycle and cell Division Ch. 9. Biomolecules Dec Ch.17 Breathing and Exchange of gases Ch.18 Body Fluid ch. 19 Excretory Products Ch. 20 Locomotion and Movement Jan Ch. 21 Neural control & coordination Ch-22 Chemical coordination. Syllabus of Practicals Time: 03 Hours. M.Mark30 **Evaluation Scheme** One Major Experiment Part A (Experiment No-1,3,7,8) 5M One Minor Experiment Part A (Experiment No- 6,9,10,11,12,13). 4M Slide Preparation Part A (Experiment No-2,4,5). 5M Spotting Part B. 7M Practical Record + Viva Voce. 4M Project Record + Viva Voce. 5M Part - A A: List of Experiments 1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound). 2. Preparation and study of T.S. of dicot and monocot roots and stems (primary). 3. Study of osmosis by potato osmometer. 4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). 5. Study of distribution of stomata on the upper and lower surfaces of leaves.

6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.7. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.

9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

8. Separation of plant pigments through paper chromatography.

May

Part - B

Study and observe the following

(Spotting)

- 1. Parts of a compound microscope.
- 2. Specimens/slides/models and identification with reasons -Bacteria, Oscillatoria, moss, fern, pine, Spirogyra, Rhizopus, mushroom, yeast, liverwort,

monocotyledonous plant, one dicotyledonous plant and one lichen.

- 3. Virtual specimens/slides/models and identifying features of Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
- 4. Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.
- 5. Different types of inflorescence (cymose and racemose).
- 6. Human skeleton and different types of joints with the help of virtual images/models only. Syllabus of Unit Test 1
 - Living world
 - Biological classification
 - Plant kingdom

INFORMATICS PRACTICES CLASS -XI

April:

- 1. Basics of Computer System
- 2. Programming with Python

May:

- 3. Python Basics
- 4. Datatypes and Operators

July:

- 5. Control Flow
- Practical Sessions

August

Term 1-Final Practical

September

Term 1 Examination

October

- 6. List Manupulation
- 7. Python Dictionary

November

8. Database Concept

December

9. Structured Query Language

January

- 10. Emerging Trends
- Practical Sessions

February

• Final Practical

March

• Term 2 Examination