CLASS - XI

SESSION- 2025-2026

S.NO.	SUBJECT	BOOKS
1.	ACCOUNTANCY	T.S. GREWAL'S Double Entry Book Keeping
2.	APPLIED MATHEMATICS	M.L. AGGARWAL. NEERAJ RAJ JAIN (APPLIED MATHEMATICS)
3.	ARTIFICIAL INTELLIGENCE	TEXTBOOK FOR ARTIFICAL INTELLIGENCY BY-ORANGE PUBLISHERS
4.	BIOLOGY	BIOLOGY (TEXTBOOK FOR CLASS XI) NCERT EXEMPLER
5.	BUSINESS STUDIES	NCERT BUSINESS STUDIES Text Book for Class XI
6.	CHEMISTRY	CHEMISTRY (TEXTBOOK FOR CLASS XI) MODERN ABC (CHEMISTRY)
7.	COMPUTER SCIENCE	COMPUTER SCIENCE WITH PYTHON (PREETI ARORA)
8.	ECONOMICS	STATISTICS FOR ECONOMICS (NCERT AND T.R. JAIN & V.K. OHRI) INTRODUCTORY MICRO ECONOMICS
9.	ENGLISH	NCERT TEXT BOOKS- (HORNBILL AND SNAPSHOT)
10.	GEOGRAPHY	FUNDAMENTALS OF PHYSICAL GEOGRAPHY (D.R. KHULLAR)

11.	IP	INFORMATICS PRACTICE WITH PYTHON (PREETI ARORA)
12.	MATHEMATICS	MATHEMATICS (TEXTBOOK FOR CLASS XI) NCERT
13.	PHYSICAL EDUCATION	PHYSICAL EDUCATION (SARASWATI PUBLICATION)
14.	PHYSICS	PHYSICS (TEXTBOOK FOR CLASS XI) NEW SIMPLIFIED PHYSICS (S.L. ARORA)
15.	POLITICAL SCIENCE	NCERT TEXTBOOK PART-I INDIAN CONSTITUTION AT WORK PART-II POLITICAL THEORY
16.	PSYCHOLOGY	NCERT- PSYCHOLOGY TEXTBOOK FOR CLASS XI
17.	HINDI	NCERT TEXT BOOKS ANTRA PART-I ANTRAL PART-I

ACCOUNTANCY

THEORY: 80 MARKS

PROJECT: 20 MARKS

	MARKS
PART A- FINANCIAL ACCOUNTING-I	
UNIT-: THEORETICAL FRAMEWORK	12
UNIT-2: ACCOUNTING PROCESS	44
PART B- FINANCIAL ACCOUNTING-II	
UNIT-3: FINANCIAL STATEMENTS OF SOLE PROPRIETORSHIP	24
PART C- PROJECT WORK	20

Books for reference: (1) Accountancy NCERT Part I & II, (2) T S Grewal Part I & II.

MONTH/ PERIODS	UNIT	CONTENT	LEARNING OBJECTIVES	SUGGESTED ACTIVITIES
APRIL/20	1.Introduction to Accounting 2. Basic Accounting Terms	Meaning of accounting, advantages, disadvantages of accounting, bookkeeping, qualitative characteristics of accounting information, users of accounting information. Types of assets, liabilities, expenses, income and other accounting terms.	a) Learn basic accounting terms. b) Understand users of accounting information.	Quizzes

MAY/27	**3. Theory Base of Accounting:** **4. Bases Of Accounting: Cash and accrual basis.** **5. Accounting Equation:**	**Accounting principles, concepts, IFRS and Ind-AS Cash and accrual basis. Rules of accounting equations and effects of adjustment transactions on accounting equations.**	**a) Understand accounting principles, cash and accrual basis.** **b) Prepare an accounting equation with an adjustment transaction.**	**Group activity**
		SUMMER BREAK		
JULY/30	**6. Accounting Procedures** **7. Sources Of Documents** **8. Journals**	**rules of debit and credit (both modern and traditional method) Vouchers, cash memo, receipts, pay-in-slip, cheque, debit note, credit note, etc. Steps in journalizing, discount and rebate, trade discount and cash discount, opening entries.**	**a) Apply accounting rules of debit and credit while recording business transactions.** **b) Record journal entries of different business transactions.**	**1.Quizzes** **2. Project file**
AUGUST/32	**9.Ledger** **10. Special Purpose Book-Cash Book and Petty Cash Book**	**Format of ledger accounts, balancing of ledger accounts. Simple cash book and double column cash book, preparation of petty cash book.**	**a) ledger posting** **b) Prepare cash books and petty cash books.**	**comprehensive project**
SEPTEMBER/ 16	**11.Special Purpose Book- Others Books**	**Preparation of purchase book, purchase return book, sale book, sales return book and journal proper.**	**a) Prepare a purchase book, purchase return book, sales book, sales return book and journal proper.**	**Project file**

			b) Prepare a subsidiary book with the column of IGST, SGST, CGST and freight expenses.	
		MID TERM EXAMINATION		
OCTOBER/ 30	12.Goods and Services Tax 13. Trial Balance 14. Provisions And Reserves 15. Bank reconciliation statement	Inter-state, intra-state supply, accounting entries of GST, set off GST entries. Functions of trial balance, preparing trial balance. Importance of provisions, types of reserves, revenue and capital reserve, general and specific reserves. Reason of difference in cash book and bank statement, preparation of bank reconciliation statement.	a) Record entries of business transactions with GST. b) Record entries of set off GST. c) Prepare trial balance. d) understand Revenue, capital reserve, and specific reserve. e) Prepare a bank reconciliation statement.	PPT
NOVEMBER/ 30	16. Depreciation 17. Rectification of errors	Meaning of depreciation, amortization, depletion, methods of recording depreciation, creating provision of depreciation and preparation of asset disposal account. Types of errors: omission, commission, principles and	a) Record journal entries of depreciation, provision of depreciation. b) Prepare depreciation accounts, provision for depreciation	Concept mapping

		compensating error, rectifying entries and preparation of suspense account.	**accounts, and asset disposal accounts. c) Understand different types of errors and record rectify entries.**	
DECE/30	**18. Preparation of Financial Statements 19. Preparation of Financial Statements With Adjustments**	**Preparing trading, profit & loss account, balance sheet, difference between capital and revenue expenditure. Preparation of trading, profit & loss account and balance sheet with different adjustment entries.**	**a) Learn trading, P&L A/C, balance sheet. b) Prepare a financial statement with adjustments.**	**Comprehensive project**
JANUARY/23	**20. Single Entry System**	**Difference between single entry and double entry system, ascertainment of profits under single entry system by statement of affairs method.**	**a) Learn single entry and double entry systems. b) Calculate profit by statement of affairs method.**	**Assertion and reason MCQ**
FEB/12		**Practical Viva and Revision**		

APPLIED MATHEMATICS [241]

No. Units	Marks
1.Numbers, Quantification and Numerical Applications.	09
2.Algebra	10
3. Mathematical Reasoning	06
4. calculus	10
5. probability	10
6. Descriptive Statistics	12
7.Basics of Financial Mathematics	18
8.Coordinate Geometry	05
Total	80

SUGGESTED BOOK : M L AGGARWAL

MONTHS/PERIODS	UNITS/CONTAINS	LEARNING OBJECTIVE	SUGGESTED ACTIVITIES
APRIL (30)	II/Algebra: Sets types of sets, Venn diagram, DE Morgan's law, problem solving, relation and types of relation VI/Statistics :Measure of dispersion, Range mean deviation and standard deviation of ungrouped and grouped data .	*To understand types of sets and their Venn diagram *To understand the importance in the foundation of relation and their types. *To learn range M.D. and S.D. of ungrouped and grouped data. * To learn different types of numbers and their conversion Binary to decimal and decimal to binary. *To learn Laws of indices and its applications.	*To represent set theoretic operations using Venn diagram. *Collect the data on weather ,price, inflation, and pollution. Sketch different types of graphs.

MAY (27)	**I/Numbers, Quantification and Numerical Applications: Prime numbers, Encryptions using prime numbers, Binary numbers, Indices.**		
JUNE	**SUMMER VACATION**		
JULY (30)	**UNIT – I CONTINUED: Logarithm and antilogarithm and laws, simple applications, numerical problems on averages, calendar, clock, time, work and distance, mensuration, seating arrangement.** **III/Mathematical and Logical Reasoning: Mathematically acceptable statements. Problems based on logical reasoning (coding-decoding, odd man out, blood relation, syllogism etc.)**	***To study about logarithmic and antilogarithmic functions and how they can be used.** *** To learn about statements. algebra of statement Use of Venn diagram in logic. Simple applications of logical statements**	
AUGUST (34)	**II/ALGEBRA: Introduction of sequence, series, geometric progression, Relationship between AM and GM, Basic concepts of permutations and combinations, circular permutations,**	***To study some basic counting techniques which will be useful in determining the number of different ways of arranging or selecting the objects.**	*** To find the number of ways in which three cards can be selected from given five cards.**

	permutations with restrictions, combination with standard result.		
SEPTEMBER (12)	**REVESION FOR HALF YEARLY EXAM**		
OCTOBER (28)	**IV/CALCULUS : Introducing functions, domain, Rangel and types of function, graphical representation of functions. Concepts of limits and continuity of a function.** **Instantaneous rates of change, differentiation as a process of finding derivative, derivative of algebraic functions using chain rule, tangent line and equations of tangents.**	***To define limit of a function.** ***To explain how to find derivative by using formula, first principle.** ***To study application of derivative in various disciplines such as engineering, science and many other fields.**	***To find analytically the limit of a function and also check its continuity at the same point.**
NOVEMBER (30)	**VII/Basics of Financial Mathematics: Interest and interest rate, accumulation with simple and compound interest, effective rate if interest, present value, net present value and future value, annuities, calculating value of regular annuity and their simple applications, Tax, calculation of tax**	***To study about calculation of interest, tax, annuities, bills, surcharge and service charge.** **To recognize the conic as a locus of a point satisfying certain geometric conditions.**	***Create budget of income and spending.**

	and simple applications of tax calculation in goods and service tax, income tax etc. Bills, tariff rates, fixed charges, surcharge, service charge, calculation and interpretation of electricity bill, water supply bill .		
DECEMBER (30)	**V/Probability: Random experiment, sample space, Events, mutually exclusive events, Independent and dependent events, laws of total probability, Bayes theorem.**	***To learn about finding probability under different situation** ***To study different types of probabilities and its application in actuarial science and other fields.** ***To study different types of straight lines.** *** To study general equation of circle and parabola .**	***To write the sample space ,when a coin is tossed once,2times,3times and 4 times**
JANURARY (26)	**VIII/ Coordinate Geometry: Straight line, circles parabola (only standard forms and graphical representation on two dimensional plane)**		***Prepare a report card using scores of last exams and compare the performance.**
FEBRUARY (12)	**REVESION AND PRACTICAL EXAM**		

ARTIFICIAL INTELLIGENCE

MONTH (NO. OF PERIODS)	UNIT	CONTENT (CBSE HANDBOOK for AI)	LEARNING OBJECTIVES	ACTIVITY
APRIL(24)	**SUBJECT SPECIFIC SKILLS** **UNIT-1**			
	Unit-01 Artificial Intelligence For Everyone	• What Is AI? • History of AI • What Is Machine Learning? • Difference Between Conventional Programming & Ml • Ml & Ai • Data & It's Types • Terminologies & Concepts Related To Ai • Jobs In AI	• To understand what is artificial intelligence & appreciate ai. • To understand what is machine learning and how is it related to ai. • To become familiar with ai related terms.	• **Teachable Machine**- Train a machine to recognise your own images, sounds & poses(create a machine learning model) • Group discussion on skill set required for ai jobs / debate on **"Will AI Take Away Jobs?"**
	EMPLOYABILITY SKILLS **UNIT -1**			
	CH-01 Communication Skills – III	• Methods of communication • Meaning, importance & elements of communication • Perspective in communication • Factors affecting perspective	• To learn about different methods & types of communication & it's importance • To learn about perspective in communication & factors	• Writing pros & cons Of written, verbal and non-verbal communication listing dos & don'ts • Listing dos & don'ts for avoiding common body language mistakes

MAY(28)	**SUBJECT SPECIFIC SKILLS** **UNIT-2**			
	Unit-2 Unlocking your future in AI	• The global demand for Artificial Intelligence (AI) professionals, • Diverse career opportunities available across various industries. • Common job roles in AI, essential skills and tools for prospective AI careers • Opportunities for AI professionals in different sectors.	• To Understand the increasing demand for AI professionals in today's global market. • To Identify common job roles in the field of AI and their respective responsibilities. • To Recognize the essential skills and tools required for a successful career in AI. • Explore the diverse opportunities for AI professionals across various industries.	• Divide the class into small groups and distribute the list of AI job roles to each group. Using the roles written in the chit, the teams will identify ten companies currently hiring.
	EMPLOYABILITY SKILLS **UNIT -1**			
	CH-01 Communication Skills – III	• Visual, language & past experiences • Prejudices, feelings, environment • Writing skills – phrases, kinds of sentences, parts of sentences, parts of speech, construction of paragraphs	• To learn about perspective & factors affecting perspective • To learn about the writing skills	• Group discussion on factors affecting perspective • Demonstration & practice of writing sentences & paragraphs on topics related to the subject

JULY (24)	**SUBJECT SPECIFIC SKILLS** **UNIT-3**			
	UNIT-03 Python Programming	• Fundamentals/ basics of Python programming language. • Operators, variables, constants, lists, strings, iterative and select statements. • Essential Python libraries: NumPy, Pandas, and Scikit-learn. • How to use NumPy for numerical computing. • Pandas for data manipulation and analysis, and Scikit-learn for implementing machine learning algorithms.	• To understand the basics of python programming language- tokens, datatypes, lists, string manipulation, iterative and decision statements. • To use NumPy for mathematical operations and numerical computing. • To explore Pandas for data manipulation, analysis, and exploration of structured data. • To gain proficiency in using Scikit learn for implementing machine learning algorithms, including classification.	• Practical Work
	EMPLOYABILITY SKILLS **UNIT -2**			
	CH-02 Self Management Skills – III	• Importance of dressing appropriately, looking decent & positive body language • Describe the term grooming	• To learn about importance of grooming & dressing appropriately • To learn about balancing work & leisure	❖ Group debate on the topics: ➢ Hard work vs smart work ➢ Failures- stepping stones or stumbling blocks

AUGUST (24)	**SUBJECT SPECIFIC SKILLS** **UNIT-4**			
	UNIT-04 Introduction to Capstone Project	• Concept of Capstone project • Design Thinking Framework • Sustainable Development Goals.	• Understand the meaning of the Capstone Project and its goals. • Understand how problems can be identified, decomposed and solved using Design Thinking Methodology. • Learn the steps of Design Thinking and apply for solving simple issues. • Learn to create Empathy maps. • Understand the importance of 5W1H in Design Thinking and Capstone Project development. • Relate the importance of Sustainable Development Goals and how these issues can be aligned with Capstone Project.	• Ashmitha daily drives to her office and back. The office is hardly 30 minutes' drive from her home. However, due to traffic jams it takes more than 1 hour. Ashmitha is hoping for a solution to this traffic issue. **Prepare an Empathy map related to Ashmitha.**
	EMPLOYABILITY SKILLS **UNIT -2**			
	CH-02 Self Management Skills – III	• Prepare a personal grooming checklist • Describe the techniques of self-exploration	• To learn about importance of grooming & dressing appropriately • To learn about balancing work & leisure	❖ Group debate on the topics: ➢ Work-life balance a myth

SEPTEMBER (12)	**SUBJECT SPECIFIC SKILLS** **UNIT-5**			
	UNIT-05 Data Literacy – Data Collection to Data Analysis	• Basics of data literacy, data collection and its sources. • Level of Measurements, Statistical analysis of data, Matrices and Data pre-processing. • Different types of data, how to store data effectively and visualise it.	• To understand the importance of data literacy in AI. • To explore various data collection methods and their applications. • To analyse data using basic Statistic analysis techniques . • To identify matrices and their role in representing data like images. • To understand the preparation of data to suit the models.	• Python Programs – 1 to 5 Pg No.97 (Hand Book)
	EMPLOYABILITY SKILLS **UNIT -3**			
	CH-03 ICT Skills – III	• Create a document on word processor • Edit, save & print a document in word processor	• To get familiar with word processor & learn about creating a document in the same • To learn about editing (wrapping, aligning, font, numbering, bulleting etc.)	• Create a new document in writer & create your time table in it. • Create a new document in writer & type a bulleted list of word processors.

OCTOBER (24)	**SUBJECT SPECIFIC SKILLS** **UNIT-6**			
	UNIT-06 Machine Learning Algorithms	• Machine Learning and its connection with AI. • Different ML Methodologies.	• To understand Machine Learning and the various machine learning algorithms • To understand regression as a type of supervised learning. Understand classification as a type of supervised learning. • Understand clustering as a type of unsupervised learning. • List of algorithms for regression, classification and clustering • Differentiate between regression, classification and clustering problem.	• Python Implementation for KNN Model • Python Implementation for K-Means Clustering Model
	EMPLOYABILITY SKILLS **UNIT -4**			
	CH-04 Entrepreneurial Skills-III	• Entrepreneurship- values & attributes • Entrepreneurial attitudes • Tendency to take moderate risk • Looking for economic opportunities • Analysing situation & planning action	• To understand what entrepreneurship means in it's true sense • To learn how an entrepreneur looks for an economic opportunity & converts it into a problem solving venture	• Presentation on a business idea- that includes the identification of the market gap, • How that problem is solved or how the gap is bridged, projections, costing & pricing

NOVEMBER (24)	**SUBJECT SPECIFIC SKILLS** **UNIT – 7**			
	UNIT-07 Leveraging Linguistics & Computer Science	• Natural Language processing, • Natural Language Understanding & Natural Language Generation.	• To Understand the challenges of natural language processing (NLP) and its importance in modern technology. • To Explore the components and processes involved in NLP, including lexical analysis, syntactical analysis, semantic analysis, discourse integration, and pragmatic analysis. • To Learn about the applications of NLP in various fields such as sentiment analysis, smart assistants, email filtering etc.	Activity: Creating a Chatbot Create a chatbot on ordering ice-creams using any of the following platforms: ● Google Dialogflow ● Botsify.com ●Botpress.com Video session (for Google Dialogflow) : https://www.youtube.com/ watch?v=bIXkqDZMgaI
	EMPLOYABILITY SKILLS **UNIT -5**			
	CH-05 GREEN SKILLS-III	• What is green economy? • Main sectors of green economy • E-waste management, green transportation, renewal energy, green construction, water management.	• To get familiar with the idea of green economy • To know what are the main sectors of green economy	• Preparing posters on green sectors/areas : cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forest & fisheries

	SUBJECT SPECIFIC SKILLS **UNIT – 8**			
DECEMBER (24)	**Unit-09** AI Ethics & Values	• Development and usage of AI. • The ethical implications of different AI tools	• Understand the fundamental concepts of ethics and its relevance in the context of AI. • Identify bias arising from various sources present in AI systems and understand their societal implications.	Activity : Organize students into groups and ask them to find answers for the questions given below after going through the link Amazon Recruitment Tool : https://www.livemint.com/ Companies/ Bo8aPRQMGKU8uTcEyVuFgO/ Amazon-scraps-secret-AI-recruiting-tool.html
JANUARY (20) **FEBRUARY (16)**	**SUBJECT SPECIFIC SKILLS** **UNIT – 8**			
	UNIT-08	• Different types of bias. • Present-day challenges related to AI ethics	• Understand the importance of mitigating bias in AI systems and be able to identify strategies for reducing bias in AI technologies. • Understand the importance of developing AI policies.	Activity: Role Play- Share the following examples of biased AI systems and their potential consequences and do a role play to present each scenario: 1. Facial Recognition Technology 2. Predictive Policing 3. Algorithmic Hiring Systems 4. Healthcare Algorithms 5. Credit Scoring Systems
	REVISION			

BIOLOGY

Month	No. of Periods	Unit	Content	Learning Objectives	Suggested Activities
April	20	Unit-I Diversity of Living Organisms	Chapter 1: The Living World	Students will learn about: • What is living? • Biodiversity • Need for classification • Three domains of life • Concept of species and taxonomical hierarchy • Binomial nomenclature	• Parts of a Compound Microscope
			Chapter 2: Biological Classification	Students will learn about: • Five kingdom classification • Salient features and classification of Monera, Protista and Fungi into major groups • Lichens, Viruses and Viroids	-
May	21	Unit-I Diversity of Living Organisms	Chapter 3: Plant Kingdom	Students will learn about: • Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta and Gymnospermae. (salient and distinguishing features and a few examples of each category).	1. To study specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.
			Chapter 4: Animal Kingdom	Students will learn about: • Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and distinguishing	• To study virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark,

				features of a few examples of each category).	**rohu, frog, lizard, pigeon and rabbit.** 1. **Prepare an interactive book containing information about any one phylum, draw colourful pictures of organisms belonging to the group, characteristics, etc.**
July	**25**	**Unit – II Structural Organisation in Plants and Animals**	**Chapter-5: Morphology of Flowering Plants**	**Students will learn about:** 1. **Morphology of inflorescence and flower** 2. **Description of family Solanaceae**	• **Study and describe a locally available common flowering plant,from family Solanaceae**
			Chapter-6: Anatomy of Flowering Plants	**Students will learn about:** • **Meristmatic Tissues** • **Permanent Tissues** • **The Tissue System** • **Anatomy of dicotyledonous and monocotyledonous root and stem.** • **Anatomy of dicotyledonous and monocotyledonous leaf.**	1. **Comparative study of rates of transpiration in upper and lower surface of leaves.** 2. **Preparation and study of dicot and monocot stem and root.** 3. **Study of osmosis by potato osmometer.** 4. **Study and identification of different types of inflorescences.**
			Chapter-7: Structural Organisation in Plants and Animals	**Students will learn about:** • **Animal Tissue** • **Types of animal tissue** • **Frog**	• **Study of distribution of stomata on lower and upper surface of leaves.** • **Study of Plasmolysis in Epidermal leaf peel.**

August	**30**	**Unit-III Cell: Structure and Function**	**Chapter-8: Cell: The Unit of Life**	**Students will learn about:** • **Cell Theory** • **Structural Outline of a Cell** • **Prokaryotic Cell** • **Eukaryotic cell** • **Components of Eukaryotic cell** • **Cell membrane** • **Endomembrane System**	• **Study of mitosis in onion root tip cells from permanent slides.**
				1. **Mitochondria** 2. **Nucleus** 3. **Chromosomes**	
			Chapter-9: Biomolecules	**Students will learn about:** 1. **Chemical analysis of Organic compounds** 2. **Primary and Secondary metabolites** 3. **Lipids** 4. **Proteins** 5. **Polysaccharides** 6. **Classification and Nomenclature of Enzymes**	• **Test for presence of sugar, starch, proteins and fats in suitable plant and animal material**
September	**14**	**Unit-III Cell: Structure and Function**	**Chapter -10: Cell Cycle and Cell Division**	**Students will learn about:** • **Phases of Cell Cycle** • **Interphase** • **Mitosis** • **Meiosis -I and II**	
	Revision and Mid-term examination.				

October	**25**	**Unit -IV: Plant Physiology**	**Chapter-11: Photosynthesis in higher plants**	**Students will learn about:** • **Photosynthesis as a means of autotrophic nutrition.** • **Site of Photosynthesis, pigments involved in Photosynthesis (elementary idea)** • **Photochemical and biosynthetic phases of Photosynthesis** • **Chemiosmotic hypothesis** • **Photorespiration; C3 and C4 pathways; factors affecting photosynthesis.**	• **Separation of plant pigments by paper Chromatography.**
		Unit IV: Plant Physiology	**Chapter-12: Respiration in Plants**	**Students will learn about:** • **Exchange of gases** • **Cellular respiration- Glycolysis, Fermentation(anaerobic),TCA cycle and ETS (aerobic)** • **Energy relations- number of ATP molecules generated, amphibolic pathways, respiratory quotient**	
			Chapter-13: Plant -Growth and Development	**Students will learn about:** • **Seed germination, phases of plant growth and plant growth rate** • **Conditions of growth, differentiation, de-differentiation, re-differentiation** • **Sequence of developmental processes in a plant cell** • **Growth regulators- auxins, gibberellin, cytokinin, ethylene, ABA**	• **Study of the rate of respiration in flower buds/leaf tissues and germinating seeds.**

November	**29**	**Unit-V: Human Physiology**	**Chapter-14: Breathing and Exchange of gases**	**Students will learn about:** • **Respiratory organs in animals (recall only)** • **Respiratory system in humans** • **Mechanism of breathing and its regulation in humans -exchange of gases, transport of gases, and regulation of respiration, respiratory volume** • **Disorders related to respiration- asthma, emphysema, ORD**	
			Chapter-15: Body Fluids and Circulation	**Students will learn about:** • **Composition of blood, blood groups, coagulation of blood** • **Composition of Lymph, and its function, human circulatory system-**	
				• **Structure of human Heart and blood vessels** • **Cardiac Cycle, Cardiac output, ECG,** • **Double Circulation** • **Regulation of Cardiac activity** • **Disorders of circulatory system**	

December	**30**	**Unit-5: Human Physiology**	**Chapter-16: Excretory Products and Their Elimination**	**Students will learn about:** • **Modes of Excretion- ammonotelism, ureotelism, uricotelism** • **Human excretory system - structure and function** • **Urine Formation, osmoregulation** • **Regulation of kidney function -RAS mechanism, ANF, ADH and diabetes insipidus, role of other organs in excretion** • **Disorders- Uremia, Renal failure, renal calculi, nephritis, dialysis and artificial kidney, kidney transplant**	• **Test for presence of sugar in urine** • **Test for presence of albumin in urine**
			Chapter-17: Locomotion and Movement	**Students will learn about:** • **Skeletal muscles, Contractile Proteins and muscle contraction**	• **Test for presence of bile salts in urine** • **Test for presence of urea in urine**
			Chapter-18: Neural Control and Coordination	**Students will learn about:** • **Neurons and nerves, Nervous system in humans- Central nervous system, peripheral nervous system and** **visceral nervous system, generation and conduction of nerve impulse**	• **To study Human Skeleton and joints with the help of virtual images and models**
			Chapter-19: Chemical Coordination and Integration	**Students will learn about:** • **Endocrine glands and hormones,** • **Human endocrine system- hypothalamus, pituitary, pineal,**	

				thyroid, parathyroid, adrenal, pancreas, gonads • **Mechanism of hormone action (elementary idea)** • **Roles of hormones as messengers and regulators, hypo- and hyperactivity and related disorders- dwarfism, acromegaly, cretinism, goitre, exophthalmic goitre, diabetes, Addison's disease**	
January	**Revision**				
February	**Annual Examination (Full Syllabus)**				

BUSINESS-STUDIES

Units		Marks
Part A	**Foundations of Business**	
1	Nature and Purpose of Business	16
2	Forms of Business Organizations	
3	Public, Private and Global Enterprises	14
4	Business Services	
5	Emerging Modes of Business	10
6	Social Responsibility of Business and Business Ethics	
	Total	**40**
Part B	**Finance and Trade**	
7	Sources of Business Finance	20
8	Small Business	
9	Internal Trade	20
10	International Business	
	Total	**40**
	Project Work	**20**
		100

BOOKS FOR REFERENCE:- BUSINESS STUDIES BY SUBHASH DEY, ALKA DHAWAN AND POONAM GANDHI

MONTH/ PERIOD	CONTENT/UNIT	LEARNING OBJECTIVES	SUGGESTED ACTIVITY
APRIL/21	**<u>FOUNDATION OF BUSINESS</u>** **1. NATURE AND PURPOSE OF BUSINESS** ***History of trade and commerce *Business-meaning and features *Profession and employment *Industry-types *Business Risk-causes and nature. *Commerce-trade:	To acquaint the history of commerce and understand the concept of Business risk and Industry.	PPT, Map work and Worksheet
MAY/27	**<u>CHAPTER 6</u>** **Concept of social responsibility** Case for social responsibility Responsibility towards owners, investors,consumer, employees, government and community. **<u>CHAPTER 2</u>** **Form of Business organization** ***Sole proprietorship- concept features , merits and demerits *Partnership and partners-types, merits and demerits Registration of a partnership firm, partnership deed.	● State the concept of social responsibility. ● Examine the case for social responsibility. ● Identify social responsibilities towards different interest groups. To know about different form of organization. Understand the important documents used in the various stages of company's formation.	POSTER MAKING To visit different form of organization (group activity) PPT

	Cooperative society-merits and demerits *Hindu undivided family-concept Company-		
JULY 30	Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept *Formation of company-stages *Choice of form of organization **<u>CHAPTER 3</u>** **PUBLIC,PRIVATE AND GLOBAL ENTERPRISES** *Public sector and private sector enterprises-concept *Forms of public sector enterprises:- Departmental Undertaking, Statutory Corporation and Government company. *Global Enterprises- features, PPP-Concept	To make students understand about different documents Develop an understanding of Public sector and private sector enterprises Develop an understanding of global enterprises	FLASH CARD Students will prepare portfolio of department head/ministers in charge
AUG 32	**<u>CHAPTER 6</u>** **<u>BUSINESS SERVICES</u>** *Meaning and types of Bank Accounts(saving, current, recurring, fixed deposit and multiple option deposit account) *Banking Services-Bank overdraft, Cash credit-Banking. * Insurance-principles and its types(Life, Fire and Marine)	Student will understand the type of bank account and services.	Visit to a Bank and survey

SEP 16 **OCT 30**	Banking services Insurance – Principles. Types – life, health, fire and marine insurance – *Revision **MIDTERM EXAMINATION** **CHAPTER 5** **Emerging Modes of Business** E - business: concept, scope and benefits **CHAPTER 7** **Sources of Business Finance** Business finance: Concept and Importance-Owners' funds- equity shares, preferences share and Retained earnings Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade Credit and ICD	To Understand concept of Insurance and its application **Revision** • Give the meaning of e-business. • Discuss the scope of e-business and benefits of e-business Concept meaning and difference, Classify the various sources of funds into owners' funds.	Assignments and PPT Virtual shopping Sort out owners/Debt and reserves from Company's B/S

NOV. 30	<u>**CHAPTER 8**</u> **Small Business and Entrepreneurship Development** **E**ntrepreneurship Development (ED): Concept and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund startup. Intellectual Property Rights and Entrepreneurshipp Role of small business in India with special reference to rural areas. <u>Government schemes and agencies for small scale</u>	● Understand the process of Entrepreneurship Development *Discuss the role of small scale business in India with special reference to rural areas and various schemes of NSIC and DIC	ASSIGNMENT And AIA
DEC. 30	<u>**UNIT 9: INTERNAL TRADE**</u> <u>**Meaning and types**</u> Services rendered by wholesalers and Retailers Types of retail trade-itinerant and small scale fixed shops Large scale retailers-Departmental stores, chain stores-concept		Worksheets And Students will do survey from local market and will

	UNIT 10:INTERNATIONAL TRADE Concept and benefits Export and Import-meaning and procedure	To appreciate the services of wholesaler and retailers. Students will be able to learn about different types of stores	draw and write about it
JAN 23	Document involved in international trade WTO International Trade (WTO and Documents) Final project préparation Revision for Final examination	Learner will understand the scope of international trade How trading is being done internationally Identify the specimen of documents used in business.	Dummy Document Worksheets/ Assignment
FEB.12	REVISION FOR ANNUAL EXAMINATION/ **PRACTICAL AND VIVA**	Students would be able to prepare themselves for final practical exam and doubt will be cleared Doubt clearing session **ANNUAL EXAM**	Assignments and worksheets

CHEMISTRY

Month	Periods	Units	Content	Learning Objectives
APRIL	20	Some Basic Concepts of Chemistry	General Introduction: Importance and scope of Chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on Stoichiometry.	Students will be able to- • Use scientific notation. • Differentiate solid, liquid gas on the basis of properties. • Define different laws of chemical combination. • Solve numerical based on the mole concept, stoichiometry, limiting reagent, percentage composition. • Write the empirical formula and molecular formula.
MAY	15	Structure of atom	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, Bohr's model and its limitations, Dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle.	Students will be able to- • Understand the discovery of electrons, protons and neutrons. • Analyze the merits and demerits of atomic models. • Solve numerical on the basis of formulas used in the Bohr model. • Understand the de-broglie wave equation and Heisenberg uncertainty principle • of various elements.

JULY	**15**	**Structure of atom**	**Concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.**	**Students will be able to-** • **Gain the knowledge of quantum numbers.** • **Draw the shapes of atomic orbitals.** • **Define Aufbau's principle, Hund's rule of maximum multiplicity, Pauli's exclusion principle** • **Write down the electronic configuration.**
	10	**Classification of elements and periodicity in properties**	**Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.**	**Students will be able to –** • **Know about the limitations of Mendeleev's periodic table.** • **Classify the elements into different blocks viz. s,p,d,f and get a detailed idea of their general characteristics.** • **Know about the periodic properties viz. Ionisation enthalpy, electron gain enthalpy, electronegativity, ionic and atomic radii and their variations in the periodic table.** • **Correlate various elements and their physical properties in the periodic table.**

AUGUST	**30**	**Chemical bonding and molecular structure**	**Valence electrons, ionic bond, covalent bond, bond parameters, Lewis's structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules, Hydrogen bond.**	**Students will be able to –** • **Understand the different approaches to types of chemical bonding.** • **Explain the rules to write the Lewis structures of simple molecules and the limitations involved.** • **Calculate the formal charge of atoms present in the Lewis structures.** • **Explain the Bond parameters viz., Bond angle, Bond length, Bond enthalpy and Bond order.** • **Describe the VSEPR theory and its significance in predicting the anomalous change in geometry of molecules.** • **Give an account of VB theory that predicts the geometry of molecules in terms of the concept of hybridization** • **Explain the concept of resonance.** • **Describe the concept of hydrogen bonding**

SEPTEMBER	**14**	**Redox reactions**	**Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.**	**Students will be able to** • **Understand the Electronic concept of oxidation and reduction.** • **Explain the basic principles involved in redox reactions** • **Understand the mechanism of electron transfer involved in redox reactions** • **Calculate oxidation numbers in terms of electron transfer.** • **Balance redox reactions using i) oxidation number method ii) half reaction method.**

OCTOBER	**25**	**Thermodynamics**	**Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions.** **First law of thermodynamics - internal energy and enthalpy, heat capacity and specific heat, measurement of U and H, Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution.** **Second law of Thermodynamics. Introduction of entropy as a state function, Gibb's energy change for spontaneous and non-spontaneous processes, criteria for equilibrium.** **Third law of thermodynamics.**	**Students will be able to –** • **Understand the concept of System and surroundings in thermodynamics and their types.** • **Know the first law of thermodynamics in terms of internal energy, work and heat.** • **Understand the relationship between internal energy and enthalpy changes and the formulation of Hess's law. Differentiate between Intensive and Extensive properties of a system** • **Explain Different types of enthalpy changes involved in terms of Hess's law.** • **Explain the concept of Gibbs free energy, entropy and the concept of spontaneity.** • **Solve different types of numerical.**

NOVEMBER	**20** **9**	**Organic chemistry – some basic principles and techniques** **Hydrocarbons**	**General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electrometric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles,** **types of organic reactions.** **Aliphatic Hydrocarbons: Alkanes**	**Students will be able to:** • **Interpret the structure of molecules in different ways Classify and give the nomenclature of organic compounds in trivial and IUPAC system.** • **Explain about different types of isomerism exhibited by organic compounds.** • **Bring out the effect of electronic displacements on structure and reactivity of organic compounds. Understand the methods of purification of organic compounds.** • **Explain in detail the qualitative and quantitative aspects of organic compounds** **Students will be able to** • **Name the different kinds of alkanes according to common and IUPAC nomenclature.** • **Explain the physical properties of alkanes.** • **Discuss the different methods to prepare alkanes.** • **Write the chemical reactions of alkanes.**

DECEMBER	**30**	**Hydrocarbons**	**Aliphatic Hydrocarbons: Alkenes, Alkynes** **Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.**	**Students will be able to** • **Name the different kinds of hydrocarbons according to common and IUPAC nomenclature.** • **Identify and write the structures of isomers of aliphatic and aromatic hydrocarbons.** • **Know different forms arise due to free rotation of C-C bond in alkanes(conformers).** • **Discuss on Preparations and Properties of alkenes, alkynes and arenes.** • **Define Geometrical isomers(cis-trans) arising due to the restricted rotation about C=C.** • **Explain resonance and extra stability of benzene** • **Directive influence of functional groups on the aromatic ring system.** • **Explain Carcinogenicity and Toxicity in aromatic compounds**

January	**22**	**Equilibrium**	**Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, hydrolysis of salts (elementary idea), buffer solution, Henderson Equation, solubility product, common ion effect.**	**Students will be able to –** • **Understand the equilibria existing between different states of matter.** • **Explain the characteristics of chemical equilibrium and equilibrium constant.** • **Bring out the relationship between equilibrium constants at different conditions.** • **Classify substances as acids and bases on the basis of different theories.** • **Explain different important concepts of equilibrium viz., pH scale, ionic product of water, common ion effect, buffer solution.** • **Understand and calculate solubility product.** • **Solve problems pertaining to this chapter.**
February	**8**	**Revision**	**Revision for Annual Examination**	

PRACTICALS:

<u>April</u>

Basic laboratory techniques

i. **Cutting of glass tube**
ii. **Bending of glass rod**
iii. **Drawing out a glass jet**

May

Characterisation and purification of chemical substances

i. **Determination of melting point of an organic compound.**
ii. **Determination of boiling point of an organic compound.**

July

i. **Crystallisation of impure sample of any one of the following: Alum, Copper sulphate, Benzoic Acid.**
ii. **Preparation of standard solution of oxalic acid**
iii. **Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.**

August

i. **Preparation of standard solution of Sodium carbonate.**
ii. **Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.**

September - January

i. **Determination of one anion and one cation in a given salt: Cations- Pb^{2+}, Cu^{2+}, As^{3+}, $Al^{3+,}$ $Fe^{3+,}$ Mn^{2+}, Ni^{2+}, $Zn^{2+,}$ Co^{2+}, Ca^{2+}, Sr^{2+}, Ba^{2+}, Mg^{2+}, NH_4^+**
ii. **Anions – CO_3^{2-} , S^{2-}, NO_2^-, SO_3^{2-}, SO_4^{2-}, NO_3^- , Cl^-, Br^-, I^-, PO_4^{3-}, CH_3COO^- (Note: Insoluble salts excluded)**

COMPUTER SCIENCE (083)

MONTH	PERIODS	CONTENT	LEARNING OBJECTIVES	SUGGESTED ACTIVITY
April	20	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 & interpreter), application software. • Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits.	To understand the fundamental functioning of a computer system. S/W classification and usage.	To create a digital presentation on classification of soft wares as a digital portfolio activity. Truth Tables and logic gates.
May	27	Computational Thinking and Programming – 1 Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flowchart and pseudo code, decomposition.	To understand the concept of problem solving and logic building.	Applications based on case study to form flowcharts, algorithms and pseudocodes as portfolio activity.
SUMMER BREAK				
July	30	Getting started with Python 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.	Understand Python IDLE. Fundamentals to learn Python.	To install Python IDLE To start coding small programs with python.

August	**32**	**Python Programming Fundamentals** **Knowledge of data types: number (integer, floating point, complex), boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data type. Structure of a python program.** **Using def to make a user defined function.** **Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in).** **Flow of Control** **Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control.** **Conditional statements: if, if-else, if-elif-else.** **Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops,**	**To learn fundamental concepts of the python programming language.** **To understand and implement operators to form statements and expressions.** **Generating pattern, summation of series, finding the factorial of a positive number etc.**	• **Input a welcome message and display it.** • **Input two numbers and display the larger / smaller number.** • **Input three numbers and display the largest / smallest number.** • **Input a list of numbers and swap elements at the even location with the elements at the odd location.** • **Determine whether a number is a perfect number, an armstrong number or a palindrome.** • **Write a program to input the value of x and n and print the sum of the following series: 1+x+x2+x3+x4+.... ..... xn**

September	16	Strings in Python Strings: introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split() MID TERM EXAMINATION	To implement string methods and operations.	Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
October	28	List in Python		
		Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list.	To implement List methods and operations	Input a list of numbers and swap elements at the even location with the elements at the odd location. • Input a list of elements, sort in ascending/ descending order using Bubble/Insertion sort.
November	32	Tuples and Dictionary Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple. Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del(), clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy()	To implement Tuple methods and operations. To understand the dictionary concept as a unique collection of python and its advanced programmatic functions	Finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.

December	**30**	**Module in python Importing Methods ,aliasing ,Locating Modules ,Built-in Modules**	**To understand the concept of python modules, Libs and Package**	**To Create Modules to import and using different ways of importing**
January	**23**	**CYBER SAFETY Cyber Crime , Cyber Forensics Identity Theft , IT ACT 2000 Network Security Threats Unit 1 - Revision SOP'S Unit 2 - Revision SOP'S**	**To study and research about various cyber crimes , network threat issues like malwares bots etc.**	**To collect as evidence screenshots of spam mails. Project / Practical File**
February	**12**	**Revision**		

BOOK NAME: A TEXT BOOK OF COMPUTER SCIENCE WITH PYTHON .

AUTHOR NAME: MS PREETI ARORA

PUBLISHER NAME: DHANPAT RAI PUBLICATIONS

Economics (030)

Part A	Statistics for Economics (40)	Marks
Unit 1	Introduction	4
Unit 2	Collection, Organisation and Presentation of Data	12
Unit 3	Statistical tools and Interpretation	24
Part B	Introductory Micro Economics (40)	
Unit 4	Introduction	4
Unit 5	Consumer Behavior and Demand	13
Unit 6	Producer Behavior and Supply	13
Unit 7	Determination of equilibrium price	6
Part C	Annual Project (20)	12+8

Suggested Readings: Statistics for Economics and Introductory Micro Economics by TR Jain, JP Goel, IC Dhingra, ID Mangla, Sandeep Garg and Deepashree

Month/ Periods	Unit	Content	Learning Objective	Suggested Activity
April / 20	PART A: Statistics for Economics Unit 1 Introduction Unit 2: Collection, Organisation and Presentation	Unit 1 Introduction: What is Economics? Meaning, scope, functions and importance of Statistics in Economics. Collection of Data: Sources of data- Primary and Secondary; how basic	To understand the role of Statistics in understanding complex economic issues. To study the process of	To construct different forms of tables and diagrams based on data collection

	of Data (continued.)	**data is collected? Concept of sampling: methods of collecting data: some important sources of secondary data: Census of India and NSSO.**	**data collection, organising it and presenting the data to simplify economic activities.**	
May / 27	**Unit 2: Collection, Organisation and Presentation of Data**	**Organisation of Data: Meaning and types of variables: Frequency Distribution. Presentation of Data: Tabular and Diagrammatic Presentation of data:(i) Geometric forms (bar diagrams and pie diagrams)**	**To study the process of data collection, organizing it and presenting the data to simplify economic activities**	**Construct different forms of tables and diagrams based on data collection. Analyze different methods of judging the rate of inflation in the country.**
SUMMER VACATION				
July / 30	**Unit 2: Continued Unit 3: Statistical Tools and Interpretation**	**Presentation of data: (ii) Frequency diagrams (Histograph, frequency polygon, Ogive) and (iii) Arithmetic Line Graph.(time series graph). Unit 3: Statistical tools and Interpretation:**	**To understand the use of statistical tools in measuring and analysing economic activities and issues.**	**Construct different forms of tables and diagrams based on data collection. Analyse different methods of judging the rate**

		Measures of Central tendency- Mean, Median, Mode.		**of inflation in the country.**
August / 32	**Unit -3: Statistical Tools and Interpretation**	**Correlation - Meaning, scatter diagram; measures of correlation - Karl Pearson's co-efficient of correlation, Spearman's Rank Correlation.**	**To study the importance of various statistical tools and procedures in Economic interpretation**	**Analyse different methods of judging the rate of inflation in the country.**
September/16	**Unit -3: Statistical Tools and Interpretation**	**Index Number - Meaning, Types: Wholesale Price Index, Consumer Price Index. Index Number - Uses of Index Number, Inflation and Rate of Inflation**	**To study the importance of various statistical tools and procedures in Economic interpretation**	**Analyse different methods of judging the rate of inflation in the country.**
MID TERM EXAMINATION				
October / 30	**PART B Introductory Micro Economics Unit 4: Introduction. Unit 5: Consumer Equilibrium and Demand**	**Unit 4: Introduction: Meaning of Micro Economics and Macro Economics, positive and normative economics. What is an Economy? Central Problems of an economy. Opportunity cost.**	**To analyse the role of consumer and his behavior in the market. To understand the behavior pattern of the consumer in**	**Compare different types of goods and the choices of consumers opting for it.**

		Unit 5: Consumers Equilibrium- Meaning of utility, Marginal utility, Law of diminishing Marginal utility. Indifference Curve analysis of consumer's equilibrium-the consumer's budget, preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.	**different situations.**	
November /30	**Unit 5: Consumer Equilibrium and Demand Unit -6: Producers Behavior and Supply**	**Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve. Price elasticity of demand-factors affecting price elasticity of demand; measurement of price elasticity of demand-percentage-change method and Total expenditure method.**	**To analyse the role of consumer and his behavior in the market. Also, the behavior pattern of the consumer.**	**Compare different types of goods and the choices of producers opting for it.**

		Unit 6: Producer's Behavior and Supply: Meaning of Production Function-Short Run and Long Run. Total Product, Average Product and Marginal Product. Returns to a Factor. **Concept of Cost: Short run costs-total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationships.**		
December / 30	**Unit -6 : Producers Behavior and Supply** **Unit 7: Forms of Market and Price Determination**	**Revenue-total, average and marginal revenue-meaning and their relationship.** **Producer's equilibrium-meaning and its conditions in terms of marginal revenue-marginal cost.** **Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and**	**To study the various concepts related to a Producer and the changes in his of behavior according to different situations.** **To study different forms of Market and**	**Comparison of how are markets different from each other.**

		shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply-percentage-change method. Unit 7: Perfect competition-Features; Determination of market equilibrium and effects of shift in Demand and Supply. Simple application of Demand and Supply Price ceiling and Price floor.	**the behavior of Consumer and Producer in it.**	
January /23	**Part C : Developing Projects in Economics**	**Annual Project - Prepare an annual project report on the case study from the following topics suggested. 1. Consumer awareness amongst Households. 2. A report on Demographic Structure of your neighborhood. 3. Milk Co-operatives. 4. Global Warming. 5. Changing prices of vegetables in your market.**	**To equip the students in preparing the projects by using statistical tools.**	**Preparation of Project File**

		Note: The project must include all the steps of a statistical investigation.		
February / 12	**Revision**	**ANNUAL EXAMINATION 2025-26**	**Clarification of doubts**	

ENGLISH CORE [301]

MONTH & PERIODS	TEXT BOOK	CHAPTERS	GRAMMAR	WRITING/READING	SUGGESTED ACTIVITIES
APRIL 30	HORNBILL	Ch-: The Portrait of a Lady P-1: A Photograph	Recapitulation of Tenses Reordering of sentences	Recapitulation of Letter to Editor Comprehension	Brief up about the author/ poet and his literary work
MAY 27	HORNBILL SNAPSHOT	P-2: The Laburnum Top Ch-1: The Summer of The Beautiful White Horse Ch-2: The Address	Conversational skills– [Practice worksheet]	Poster Drafting Speech Writing	Extensive activity on collection of information about the Garoghlanian tribe - pictures and videos and information related to the tribal group.
JULY 28	HORNBILL	Ch-2: We're Not Afraid to Die…if we can be together Ch-3 Discovering Tut…The Saga Continues	Determiners Gap filling Editing tasks	Notice Writing Advertisement (classified & display)	Worksheets for all range of learners. Draw a flowchart to draw King Tut's Family line and their description
		UNIT TEST-1			
AUGUST 34	HORNBILL	P-3: Voice of the Rain	Re-arranging Jumbled words and phrases	1.(a)Note Making (b)summarizing [	Drawing the signs of YIN and YANG with explanation

SEPTEMBER 16	**HORNBILL**	**Ch-4: Landscape of the soul** **Revision of the Mid-Term syllabus**	**Conversational skills [Practice worksheet]**		**Slogan writing/poster drafting on Go Green**
		MID TERM EXAMINATION			
OCTOBER 30	**SNAPSHOT** **HORNBILL**	**Ch- 4: Mother's Day** **P-4: Childhood**	**Transformation of sentences (Narration)**		**Project File**
NOVEMBER 32	**HORNBILL**	**Ch-6: The Adventure** **P-5: Father to Son**		**Debate Writing**	
DECEMBER 30	**HORNBILL**	**Ch- 7: Silk Road**			
		UNIT TEST-2			
JANUARY 23	**SNAPSHOT**	**Ch- 5: Birth** **Ch.7: The Tale of Melon City**		**Unseen Passage**	**Project file submission & Viva**
FEBRUARY 12	**REVISION OF THE WHOLE SYLLABUS FOR ANNUAL EXAMINATION**				

LEARNING OBJECTIVES

READING	WRITING	GRAMMAR	LITERATURE
(1) To develop comprehension strategies and skills that facilitate their understanding and analyzing of written texts effectively and easily.	**(1) To write formal short compositions effectively.** **(2) To bring awareness of the format, content and process of writing.** **(3) To be able to retain a data and information.**	**(1) To demonstrate an understanding of more complex grammatical structures in conversations and discussions.** **(2) to initiate and sustain conversations and discussions.**	**(1) to admire and appreciate the autobiographical piece.** **(2) to enable the students to read with proper voice intonation and pauses.** **(3) To enable the students to read and understand in between the lines.**

GEOGRAPHY

Part -1

UNIT	NAME	WEIGHTAGE
1	GEOGRAPHY AS A DISCIPLINE	3
2	THE EARTH	9
3	LANDFORMS	6
4	CLIMATE	8
5	OCEANS	4
6	LIFE ON THE EARTH MAP WORK	- 5

Part - 2

UNIT	NAME	WEIGHTAGE
1	INDIA: SIZE & LOCATION	5
2	PHYSIOGRAPHY & DRAINAGE	13
3	CLIMATE	5
4	SOIL, VEGETATION	7
	MAP WORK	5

MONTH & PERIODS	UNIT	CONTENT	LEARNING OBJECTIVES	SUGGESTED ACTIVITY
April 20	Geography as a Discipline	GEOGRAPHY AS A DISCIPLINE: Definition, meaning & scope of the subject, Geography as an integrated science, Branches of Geography , methodologies & approaches to study the subject	To understand the nature of subject & its relationship with other subjects of natural & social sciences.	Presentation on different branches of Geography
May 32	Origin & Evolution of The Earth:	ORIGIN & EVOLUTION OF THE EARTH: Nebular Hypothesis, Planesimal Hypothesis, Big Bang Theory, Big splat Theory, Solar System, Evolution of Lithosphere, Hydrosphere, Atmosphere & Biosphere.	To know about the development of Earth & other planets & the existence of different spheres that supports life on the Earth.	Model on Solar System

		SUMMER VACATION		
July 32	**Interior of the Earth**	**Geography as a discipline: nature and scope The Earth: Origin & Evolution [Nebular & Planesimal Hypothesis, Big Bang] Introduction to maps Landforms : Interior of the Earth: direct & indirect evidences.**	**To understand the spatial attributes & importance of the subject.**	**Jig saw puzzle on plate tectonics**
August 32	**Distribution of Continents and Ocean** **Geomorphic Processes**	**Earthquakes & Volcanoes: types & distribution Distribution of continents & oceans: continental drift theory, plate tectonics** **Geomorphic Processes: weathering & mass wasting Map Scale Landforms & their evolution: role of**	**To know about the different exogenic & endogenic movements takes place on the earth.**	**Discussion on role of human beings in degradation & formation of landforms.**

		river, wind, glaciers &underground water.		
September 16	Climate	Climate: Structure & Composition of Atmosphere Solar radiation, heat & temperature Map Projection Pressure & Winds. MID TERM EXAMINATION	To understand the role of different climatic elements & their importance in environment To know the role & importance of water in different atmospheric aspects.	Map Projections
October 30	Water In the Atmosphere Movement of Oceanic Water	World Climate Water in the atmosphere: evaporation, humidity, condensation, types of clouds and precipitation. Oceans: Movement of oceanic water & oceanic reliefs: waves, tides & currents	To know the importance of biosphere & bio diversity in ecosystem.	Project on food chain or genetic diversity.

		Life on the Earth: Bio diversity & conservation. Distance & Time		
November 32	**Life on the Earth**	**Life on the Earth: Bio diversity & conservation. Distance & Time India: size & location, Physiographic divisions Topographical Maps**	**To find out the position if the country on globe and learn different relief features present in India.**	**Map activity**
December 30	**India: Physical Geography**	**India: size & location, Physiographic divisions Topographical Maps drainage, climate**	**To understand the physical/natural aspects of India.**	**Map activity.**
January 23	**India: Physical Geography**	**Natural vegetation & Soil of India. Weather Instruments GIS**		
February 12	**Revision**	**Discussions & Class Test**		

INFORMATICS PRACTICES (065)

MONTH	PERIODS	CONTENT	LEARNING OBJECTIVES	SUGGESTED ACTIVITY
April	20	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 & interpreter), application software.	To understand the fundamental functioning of a computer system. S/W classification and usage.	To create a digital presentation on classification of softwares as a digital portfolio activity. Truth Tables and logic gates.
May	27	Computational Thinking and Programming – 1 Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flowchart and pseudo code, decomposition.	To understand the concept of problem solving and logic building.	Applications based on case study to form flowcharts, algorithms and pseudocodes as portfolio activity.
SUMMER BREAK				

July	**30**	**Getting started with Python** **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.**	**Understand Python IDLE.** **Fundamentals to learn Python.**	**To install Python IDLE** **To start coding small programs with python.**
August	**32**	**Python Programming Fundamentals** **Knowledge of data types: number (integer, floating point, complex),**	**To learn fundamental concepts of the python**	**1) Input a welcome message and display it.**
		boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data type. **Structure of a python program.** **Using def to make a user defined function.** **Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in, not in).** **Flow of Control** **Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow**	**programming language.** **To understand and implement operators to form statements and expressions.** **Generating pattern,**	• **Input two numbers and display the larger / smaller number.** • **Input three numbers and display the largest / smallest number.** • **Input a list of numbers and swap elements at the even location with the**

		control. Conditional statements: if, if-else, if-elif-else. Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops,	summation of series, finding the factorial of a positive number etc.	elements at the odd location. • Determine whether a number is a perfect number, an armstrong number or a palindrome. • Write a program to input the value of x and n and print the sum of the following series: 1+x+x2+x3+x4+... .. xn
September	16	List in Python Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists. MID TERM EXAMINATION	To implement List	Input a list of numbers and swap elements at the even location with the elements at the odd location.
October	28	Dictionary Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing	To understand the dictionary concept as a unique	To create an interface for all dictionary attributes and methods

		item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(),	collection of python and its advanced programmatic functions	
		del(), clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy()		
November	32	Database concepts Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key.	To create a database, table, alter table structure.	To create a student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.
December	30	Structured Query Language: Data Definition Language, Data Query Language and Data Manipulation Language. Introduction to MySQL: Creating a database, using database, showing tables using MySQL. Data Types : char, varchar, int, float, date ect.	To understand and implement SQL subsets queries.	To run queries based on select clauses and operators.
January	23	EMERGING TRENDS AI and Robotics IOT (internet of things) Cloud models , Smart Cities Unit 1 - Revision SOP'S Unit 2 - Revision SOP'S	TO understand the cloud models and applications.	Project / Practical File
February	12	Revision		

BOOK NAME: A TEXTBOOK OF INFORMATICS PRACTICES WITH PYTHON .

AUTHOR NAME: MS PREETI ARORA

PUBLISHER NAME: DHANPAT RAI PUBLICATIONS

MATHEMATICS (041)

NO.	UNITS	MARKS
I	Sets and Functions	23
II	Algebra	25
III	Coordinate Geometry	12
IV	Calculus	08
V	Statistics and Probability	12
	Total	80
	Internal Assessment	20

- No chapter / unit wise weightage. Care to be taken to cover all the chapter
- SUGGESTED BOOKS – NCERT, EXAMPLER, R.D.SHARMA, S.CHAND, M.L. AGGARWAL, ETC.

MONTH & PERIOS	CHAPTERS / UNITS	TOPICS	LEARNING OBJECTIVES	SUGGESTED ACTIVITES
APRIL 20	**Ch: 1**	**SETS: Introduction, sets and their representation. Finite, infinite and empty sets, equal sets, subsets, power sets, universal sets, Venn diagrams, operation on sets, complement of sets, practical problems on union and intersection of two sets.**	***To understand the importance of types of sets in the foundation of relation and functions.**	***To represent set theoretic operations using Venn diagram.**
	Ch: 11	**Introduction to three dimensional: Introduction, coordinates axes and coordinates planes on 3-dimensional space, coordinates of a point in space, distance between two points, section formula.**	*** To study basic concepts of geometry in three-dimensional space. *To explain about Cartesian product of two sets domain, co-domain and range.**	***To explain the concepts of octants by three mutually perpendicular planes in space**
MAY	**Chapter 2**	**ELATIONS AND FUNCTIONS: Ordered pair, Cartesian product of sets, Numbers of elements in the Cartesian product of two finite set, Cartesian product of the sets of reals with itself. Pictorial Diagram, Domain, Functions Domain & amplitude ; Range, algebra of Real functions**	***To learn the difference between relation & function and examples related to domain and range.**	
JUNE		**SUMMER VACATION**		

JULY 30	**Ch:3**	**TRIGONOMETRIC FUNCTIONS: Positive and negative angles, measuring angles in Radians & in Degrees & Conversion of one measure to another. Definitions of Trigonometric functions with the help of unit circle. Signs of Trigonometric functions & sketch of the graphs expressing sin (x+y) and cos (x+y) in terms of sin x, sin y, cos x & cosy** **Deducting the following identities** **tan(x+y) = tanx +tany/1+tanx tany** **Sin x +siny = 2 sin x+y/2 cos x-y/2** **Sin x –siny = 2 cos x+y/2 sin x-y/2** **Cosx +cosy = 2 cos x +y/2 cos x-y/2** **Identities related to sin2x, cos2x, tan2x, sin3x and tan3x.General solutions of trigonometric equations. Sample applications of Sine & cosine formulae.**	• **To Explain about angles (anti clock- wise & clockwise) relation between degree and radian.** • **To explain about quadrants, signs of t-ratios.** • **To learnt the principal and general solutions of trigonometric equations.**	**To verify the relation between degree measure and radian measure of an angle.**
AUG 34	**Ch: 4** **Ch: 5**	**Complex numbers: Introduction of complex number, algebra of complex numbers, modulus and conjugate, argand plane and polar representation, quadratic equations.** **Linear inequalities: Introduction of inequalities, algebraic solutions of linear inequalities in one and two**	***To study graphical representation of complex number, the algebra of complex number and extraction of their roots.**	*** To interpret geometrically the meaning of i = √-1 and its integral powers.** ***To verify the graph of a given inequality say**

SEPT 15 **OCT 39**	**Ch: 6**	**variables and their graphical representation** **HALF YEARLY EXAMINATION AND REVISION** **Permutations and combinations: Introduction, Fundamental principle of counting, permutations, combinations.**	***To learnt word problems of in-equations and find sol^{n} of word problems.** ***To study some basic counting techniques which will be useful in determining the number of different ways of arranging or selecting the objects**	**5x+4y-40<0 of the form ax +by+c <0, a, b,>0,c<0 represents only one of the two half planes.**
OCT 30	**Ch:14**	**Probability: Random Experiments; outcomes, sample spaces. Events; occurrence of events, Not or OR events, exhaustive events, mutually exclusive events, axiomatic probability, connections with the theories of earlier classes. Probabilities of an event, probability of Not, And, Or events.**	***To learn about finding probability under different situations**	***To write the sample space, when a coin is tossed once, 2times,3 times and 4 times**

NOV 30	**Ch: 7** **Ch: 8**	**Binomial theorem: Introduction, Binomial theorem for positive integral indices, General and Middle term.** **Sequence and Series: Sequence and series, Arithmetic Progression (AP), A.M., G.M., general term of a G.P., sum of n terms of G.P. relation between A.M. and G.M.**	***To study and proof of binomial theorem. General method for finding the expansion of (a+b)** ***To compute any term of G.P. using the nth term formula**	*** To find the number of ways in which three cards can be selected from given five cards.**
DEC 30	**Ch: 9** **Ch:10**	**Straight line: Brief recall of 2-dimensional Geometry from earlier classes. Slope of a line and angle between two lines. Various form of equations of line: parallel to axes, point-slope form, slope intercept form, 2point form, intercept form and normal form. General equations of line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from line.** **Conic Sections: *Sections of a cone: Circle, Parabola, Ellipse, Hyperbola, appoint, a straight line & a pair of intersecting lines as a degenerated case of coni section, Standard equations & simple properties of**	***To explain slope of a line.** ***To learn about equation of a line passing through the intersection of lines.** ***To recognize the conic as a locus of a point satisfying certain geometric conditions**	***To verify that the equations of a line passing through the point of** **Intersection of 2 lines.** ***To construct a parabola**

		parabola, Ellipse and Hyperbola, Standard equation of circle.		
JAN 23	**Ch:12** **Ch: 13**	**Limits and Derivatives: Derivative idea of introduced as rate of change both as that of distance function& geometrically initiative idea of limit. Limit of polynomials & Rational functions, trigonometric, Exponential &logarithmic functions. Definition of derivative, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial& trigonometric function.** **Statistics: Introduction, measures of dispersion, range, mean deviation, variance and standard deviation, analysis of frequency distributions.**	*** To define limit of a function.** ***To explain how to find derivative by using formula, first principle.** ***To find the mean deviation about mean and median, Variance and standard deviation of data.**	
FEB 12		**REVISION FOR ANNUAL EXAMINATION**		

PHYSICAL EDUCATION

UnitNo.		Unit Name & Topics	Specific learning objectives	Suggested TeachingLearning process
Unit 1		Changing Trends andCareers in Physical Education 1. Concept, Aims & Objectives of PhysicalEducation 2. Development of Physical Education inIndia – Post Independence 3. Changing Trends inSports-playing surface, wearable gear and sports equipment, technological advancements 4. Career options in Physical Education 5. Khelo-India Programand Fit – India Program	• To make the students understand the meaning,aims, and objectives of Physical Education. • To Teach students about the development of physical education in India after Independence. • To educate students about the development of sports surfaces, wearable gear, sports equipment, and technology. • To make students know the different career options available in the field. • To make them know about the Khelo India Program	• Lecture-based instruction, • Technology-based learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learningand • Expeditionary learning.
APR	10			

Unit 2		Olympism ValueEducation		
MAY	15	1. Olympism – Concept and Olympics Values (Excellence, Friendship & Respect) 2. Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body,Will & Mind 3. Ancient and ModernOlympics 4. Olympics - Symbols, Motto, Flag, Oath, andAnthem 5. Olympic Movement Structure - IOC, NOC,IFS, Other members	• To make the students aware of Concepts and Olympics Values (Excellence, Friendship & Respect) • To make students learn about Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance AmongBody, Will & Mind • To make students understand ancient and modern Olympic games. • To make the students aware of Olympics - Symbols, Motto, Flag, Oath, and Anthem • To make students learn about the working and functioning of IOC, NOC and IFS, and other members.	• Lecture-based instruction, • Technology-basedlearning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learningand • Expeditionary learning.

Unit 3		**Yoga** 1. **Meaning and importance of Yoga** 2. **Introduction toAshtanga Yoga** 3. **Yogic Kriyas (ShatKarma)** 4. **Pranayama and its types.** 5. **Active Lifestyle and stress management through Yoga**	• **To make the students aware of the meaning and importance of yoga** • **To make them learn about Ashtanga yoga.** • **To teach students about yogic kriya, specially shatkarmas.** • **To make the learn andpractice types of Pran** • **To make them learn the importance of yoga in stress management.**	• **Lecture-based instruction,** • **Technology-based learning,** • **Group learning,** • **Individual learning,** • **Inquiry-based learning,** • **Kinesthetic learning,** • **Game-based learningand** • **Expeditionary learning.**
JULY	**15**			
Unit 4		**Physical Education and Sports for Children withSpecial Needs** 1. **Concept of Disability & Disorder** 2. **Types of Disability, itscauses & nature (Intellectual disability, Physical disability).** 3. **Disability Etiquette** 4. **Aim and objectives of Physical Education**	• **To make the students aware about the concept of Disability and Disorder.** • **To make students aware of different types of disabilities.** • **To make students learn about Disability Etiquette** **To make the students understand the aims and objectives of Adaptive Physical Education**	• **Lecture-based instruction,** • **Technology-based learning,** • **Group learning,** • **Individual learning,** • **Inquiry-based learning,** • **Kinesthetic learning,** • **Game-based learningand** • **Expeditionary learning.**
JULY	**10**			

		5. Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist, and SpecialEducator)	• **To make students aware of role of various professionalsfor children with special needs.**	
Unit 5		**Physical Fitness, Wellness, and Lifestyle**	• **To make the students understand the Meaning & importance of Wellness, Health, and Physical Fitness** • **To make students aware of the Components/ Dimensionsof Wellness, Health, and Physical Fitness** • **To make students learn Traditional Sports & RegionalGames to promote wellness** • **To develop Leadership qualities through PhysicalActivity and Sports in students**	• **Lecture-basedinstruction,** • **Technology-basedlearning,** • **Group learning,** • **Individual learning,** • **Inquiry-based learning,** • **Kinesthetic learning,** • **Game-based learningand** • **Expeditionary learning.**
AUG	**12**	1. **Meaning & importanceof Wellness, Health, and Physical Fitness.** 2. **Components/Dimensionns of Wellness, Health, and Physical Fitness** 3. **Traditional Sports &Regional Games forpromoting wellness** 4. **Leadership through Physical Activity andSports**		

		5. Introduction to First Aid – PRICE	• **To make students learn First Aid and its management skills**	
Unit 6		**Test, Measurement & Evaluation**	• **To Introduce the students with the terms like test, measurement and evaluationalong with its importance**	• **Lecture-basedinstruction,** • **Technology-basedlearning,** • **Group learning,** • **Individual learning,** • **Inquiry-based learning,** • **Kinesthetic learning,** • **Game-based learningand** • **Expeditionary learning.**
AUG	**14**	**1. Define Test, Measurements and Evaluation.** **2. Importance of Test, Measurements and Evaluation in Sports.** **3. Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site)** **4. Somato Types (Endomorphy, Mesomorphy &Ectomorphy)** **5. Measurements of health-related fitness**	• **To Introducing them the methods of calculating BMI, Waist- hip ratio and Skin foldmeasurement.** • **To make the students awareof the different somatotypes.** • **To make the students learnthe method to measure health-related fitness.**	

Sept /14		▪ **MID TERM ASSESSMENT** **Revision**		
Unit 7		**Fundamentals of Anatomy, Physiology in Sports** **1. Definition and importance of Anatomy and Physiology in Exercise and Sports.** **2. Functions of Skeletal System, Classificationof Bones, and Types of Joints.** **3. Properties and Functions of Muscles.** **4. Structure and Functions of Circulatory Systemand Heart.** **5. Structure andFunctions of Respiratory System.**	• **The students will learn the meaning and definition & identify the importance of anatomy, physiology, and kinesiology.** • **Students will understand the main functions and Classification of Bone and the Types of Joints.** **.** • **The students will learn the Properties and Functions of muscles.** • **The students will learn the Structure and Functions of the Circulatory System and Heart.** • **The students will learn theStructure and Functions ofRespiratory System.**	• **Lecture-basedinstruction,** • **Technology-based learning,** • **Group learning,** • **Individual learning,** • **Inquiry-based learning,** • **Kinesthetic learning,** • **Game - based learningand Expeditionary learning.**
OCT	**15**			
Unit 8		**Fundamentals Of Kinesiology and Biomechanics in Sports** **1. Definition andImportance of**	• **The students will learn themeaning and definition & identify the importance of Kinesiology and Biomechanics in sports.**	• **Lecture-basedinstruction,** • **Technology-basedlearning,** • **Group learning,**
OCT	**10**			

		Kinesiology andBiomechanics in Sports. **2. Principles of Biomechanics** **3. Kinetics and Kinematics in Sports** **4. Types of Body Movements - Flexion, Extension, Abduction,Adduction, Rotation, Circumduction, Supination & Pronation** **5. Axis and Planes – Concept and its application in bodymovements**	• **To make the students learnthe principles of biomechanics.** • **To make the students understand the concept ofKinetics and Kinematics in sports** • **To make the students learn about different types of bodymovements.** • **To make the students understand the concept of Axis and Planes and its application in body movements.**	• **Individual learning,** • **Inquiry-based learning,** • **Kinesthetic learning,** • **Game-based learningand** • **Expeditionary learning.**
Unit 9 **NOV**	**12**	**Psychology and Sports** **1. Definition & Importance of Psychology in Physical Education & Sports;** **2. Developmental Characteristics at Different Stages ofDevelopment;**	• **The students will identify thedefinition and importance of Psychology in Physical Education and sports.** • **The students will be able to differentiate characteristics of growth and development at different stages.**	• **Lecture-based instruction,** • **Technology-basedlearning,** • **Group learning,** • **Individual learning,** • **Inquiry-based learning,** • **Kinesthetic learning,** • **Game-based learningand**

		3. Adolescent Problems& their Management; 4. Team Cohesion and Sports 5. Introduction to Psychological Attributes: Attention,Resilience, Mental Toughness	• Students will be able to identify the issues and management related to adolescents. • The students will be able to understand the importance of team cohesion in sports. • Students will distinguish between different Psychological Attributes like Attention,Resilience, and Mental Toughness.	• Expeditionary learning.
Unit 10 NOV	13	Training & Doping inSports 1. Concept and Principles of Sports Training 2. Training Load: Over Load, Adaptation, andRecovery 3. Warming-up & Limbering Down –Types, Method & Importance 4. Concept of Skill, Technique, Tactics &Strategies	• To make the students aware of concepts and principles of sports training. • To make students learn and understand the Training Load, Over Load, Adaptation,and Recovery concepts. • To make students understand the importanceof warning up and limberingdown exercises. • To introduce the terms likeSkills, Techniques, Tactics, and Strategies to the	• Lecture-basedinstruction, • Technology-basedlearning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learningand • Expeditionary learning.

	5. Concept of Doping and its disadvantages	**students.** • **To make students aware ofthe doping substances and their disadvantages in sports.**	
Nov/Dec Jan	**Revision**		

PHYSICS

MONTH & PERIODS	UNIT	CONTENT	LEARNING OBJECTIVE	ACTIVITIES
April 12	1) Physical world and measurement	<u>Ch-2: Units and measurements</u> Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications	Students will be able to understand: 1)the need of measurement along with basics of fundamental and derived units. 2)significance and importance of dimensional analysis of any physical quantity	To measure to diameter of a small spherical body using Vernier Caliper
April 14	2) Kinematics	<u>Ch-3: Motion in a straight line</u> Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion, Instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment)	Students will be able to understand: 1)the term motion as a relative term and classification of motion. 2)mathematical tools used in physics 3) the significance of three equations of motion 4)graphs representing various types of motion	To measure the internal diameter and depth of the given beaker using Vernier Calliper and find its volume.

May 15	**2) Kinematics**	**<u>Ch-4: Motion in plane</u>** **Scalar and vector quantities; position and displacement vectors, general vectors and their notations, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors,Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors.**	**Students will be able to understand:** **1) basics of Scalar and Vector quantities along with its Mathematical analysis, laws of adding vector quantities** **2) Multiplication of vectors**	**To make a paper scale of given least count and measure lengths of your pen using this** **To plot the graph for given set of variables and identify the dependent and independent variables**
July 08	**2) Kinematics**	**<u>Ch-4: Motion in plane</u>** **Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion, uniform circular motion**	**The concept of Projectile and its mathematical analysis**	**To measure the thickness of given sheet of paper using Screw gauge**
July 17	**3) Laws of Motion**	**<u>Ch–5: Laws of Motion</u>** **Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and**	**Students will be able to understand-** **1) Concept of force along** **2) Newton's laws of motion and their applications.** **3) Laws of conservation of linear momentum and its applications** **4) Friction: its advantages and disadvantages** **5)concurrent forces**	**To determine the radius of given Spherical surface by a spherometer**

		kinetic friction, laws of friction, rolling friction, lubrication. **Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road Vehicle on a banked road).**	**6)dynamics of circular motion**	
August 10	**4)Work, Energy and Power**	**<u>Ch-6-Work ,Energy and Power</u>** **Work done by a constant force** **and a variable force; kinetic energy, work-energy theorem, power; Notion of potential energy, potential energy of a spring, conservative forces; non-conservative forces; motion in a vertical circle, elastic and inelastic collisions in one and two dimensions.**	**Student will be able to understand-** **1)the concept of Work, Energy and Power** **2)Potential energy and its types: gravitational and elastic** **3)collision and its types** **3)motion of an object in vertical circle**	**To study the relationship between force of limiting friction and normal rection and to find the coefficient of friction between a block and a horizontal surface**
August 12	**6)Gravitation**	**<u>Ch–8: Gravitation</u>** **Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential,**	**Students will be able to understand:** **1)Concept of gravitational force between two bodies and its conservative nature.** **2)Concept of variation of acceleration due to gravity with height, depth**	**To study the variation in range of projectile with angle of projection**

		escape velocity, orbital velocity of a satellite.	3)escape and orbital velocity of a satellite	
August 8	7) Properties of Bulk Matter	<u>Ch–9: Mechanical Properties of Solids</u> Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy	Students will be able to understand the concept of elasticity and rigidity of a body with stress- strain analysis	
Sep. 14		<u>Revision and Mid Term Examination (2025-26)</u>		
October 12	10) Oscillations and waves	<u>Ch-14: Oscillations</u> Periodic motion - time period, frequency, displacement as a function of time, periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.	Students will be able to understand: 1)the basic concept of SHM and phase. 2)the Concept of Different forms of energy possessed by a body executing SHM with its mathematical analysis. 3)some examples of S.H.M.	To determine Young's modulus of elasticity of the material of a given wire.

October 13	**10) Oscillations and waves**	**<u>Ch-15: Waves</u>** **Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats,**	**Students will be able to understand:** **1) the Mathematical analysis of waves** **2)the concept of reflection of waves along with concept of harmonics.** **3)Beat phenomenon and its applications**	**To find force constant of a helical spring by plotting a graph between load and extension**
Nov. 18	**7) Properties of Bulk Matter**	**<u>Ch–10: Mechanical Properties of Fluids</u>** **Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.**	**Students will be able to understand:** **1) Practicality of Fluid dynamics in real life (Pascal's Law, Bernoulli's theorem, Magnus Effect) 2) Concept of surface Tension and Surface energy** **3)Shape of meniscus of liquid in a capillary** **4)Excess pressure inside a drop, bubble**	**To observe and explain the effect of heating on a bi-metallic strip.** **To study the effect of detergent on surface tension of water by observing capillary rise.**

Nov. 11		**<u>Ch–11: Thermal Properties of Matter</u>** **Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law .**	**Student will be able to understand-** **1)the different methods of heat transfer,** **2)Concept of thermal expansion** **3) Laws of cooling** **4)Black body radiations**	**To determine the coefficient of viscosity of given viscous liquid by measuring the terminal velocity of given spherical body**
Dec. 12	**8) Thermodynamics**	**<u>Ch–12: Thermodynamics</u>** **Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes**	**Students will be able to understand the Concept of-** **1) Heat, work and Internal energy of the system** **2) Different types of thermodynamic process.** **3)laws of thermodynamics**	**To study the relationship between temperature of a hot body and time by plotting a cooling curve**

Dec. 18	**5) Motion of system of particles and rigid body**	**<u>Ch-7: System of Particles and Rotational Motion</u>** **Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; center of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).**	**Students will be able to understand-** **1) concept of rotational dynamics** **2) different parameters of rotating body (Torque, Angular momentum, moment of inertia) and applying different theorems to find the moment of inertia of simple geometrical objects.** **3)comparison of linear and rotational motion**	**To note the change in level of liquid in a container on heating and interpret the result**
January 12	**9) Behavior of Perfect Gases and Kinetic Theory of Gases**	**<u>13.Kinetic Theory-</u>** **Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of**	**Students will be able to understand the concept of:** **1) Pressure exerted by a gas on the walls of the container.**	

Feb. 10		**equipartition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.** **Revision for annual examination**	**2)relation between different specific heat capacities** **3)kinetic interpretation of temperature**	

POLITICAL SCIENCE (028)

Chapter No.	Chapter Name	Marks Allotted
	PART-I INDIAN CONSTITUTION AT WORK	
1	The End of Bipolarity	6
2	Contemporary Centres of Power	6
3	Contemporary South Asia	6
4	International Organizations	6
5	Security in the Contemporary World	6
6	Environment and Natural Resources	6
7	Globalisation	4
	Total	40
	PART-II POLITICAL THEORY	
1	Challenges of Nation-Building	6
2	Era of One-Party Dominance	4
3	Politics of Planned Development	2
4	India's External Relations	6
5	Challenges to and Restoration of the Congress System	4
6	The Crisis of Democratic Order	4
7	Regional Aspirations	6
8	Recent Developments in Indian Politics	8
		40
	PRACTICAL	20
	TOTAL	100
	Suggested reference book:- Political Science By -B.B.Tayal,Oswal and Sample Paper	

MONTH	PERIODS	CONTENT	LEARNING OBJECTIVES	SUGGESTED ACTIVITIES
April	35	Ch:2 The End of Bipolarity Ch:4 New centers of power Part-B Ch:1 Challenges of nation building	To make students understand about the disintegration of USSR. To make students learn about the European union and alternative centres of political and economic power.	Role play Find out about BRICKS
May	32	Ch:5 Contemporary South Asia Ch:6 United Nations and its organizations	To make the student aware about different International Organisations & their role in maintaining peace in the world.	Analyse the role of UNO in the present day situation.
July	32	Ch:7 Security in Contemporary world PART-B Ch:3 Planned development	To make students aware about POSCO	To find out the latest countries who have become democratic in the last few years.
August	32	Ch:8 Environment and natural resources Ch:9 Globalization	To make students aware about the recent developments in the political system of India How different countries of the world are inter connected through globalization.	Discussion in the class on the causes of environmental degradation. Discussion on the impact of globalization.

Sep.	**16**	**Ch:4 India's foreign policy** **MID TERM EXAMINATION**	**To make students aware about India's nuclear policy and external relations**	**Debate and Discussion**
October	**30**	**Ch:5 Parties and party system in India** **Ch:6 Democratic resurgence**	**To make them understand about the different political parties and election commission**	**Role play**
Nov.	**30**	**Ch:8 Regional Aspirations** **Ch: 9 Indian Politics recent: Trends and development**	**To make students aware about Indian politics**	**Group Activity and Poster making**
Dec.	**16**	**Revision** **PRE-BOARD EXAMINATION**	**To make students understand and revise all the concepts related to different chapters.**	
January	**08**	**PRE-BOARD EXAMINATION**		
Feb.	**10**	**Practice Papers & worksheets**	**BOARD EXAMINATION**	

PSYCHOLOGY (037)

Prescribed Books: 1. Psychology, Class XI, Published by NCERT

Theory Paper **3 Hours**
Marks: 70

Units	Topics	Marks
I	What is Psychology?	11
II	Methods of Enquiry in Psychology	13
III	Human Development	11
IV	Sensory, Attentional and Perceptual Processes	8
V	Learning	9
VI	Human Memory	8
VII	Thinking	5
VIII	Motivation and Emotion	5
	Total	70

COURSE CONTENT

MONTH	UNIT	TOPIC	LEARNING OBJECTIVES	SUGGESTED ACTIVITIES
APRIL (20)	**1.**	**What is Psychology?** **The topics in this unit are:** 1. **Introduction** 2. **What is Psychology?** • **Psychology as a Discipline** • **Psychology as a Natural Science**	**Students will be able to define the term psychology.**	• **Class presentation (BYOD)** • **Mind map making**
		• **Psychology as a Social Science** 3. **Understanding Mind and Behaviour** 4. **Popular Notions about the Discipline of Psychology** 5. **Evolution of Psychology** 6. **Development of Psychology in India** 7. **Branches of Psychology** 8. **Psychology and Other Disciplines** 9. **Psychology in Everyday Life**	**Students will be able to evaluate on the concept of psychology as science as well as social science.**	

MAY (27)	**2.**	**Methods of Enquiry in Psychology** **The topics in this unit are:** 1. **Introduction** 2. **Goals of Psychological Enquiry** **Steps in Conducting Scientific Research Alternative Paradigms of Research** 3. **Nature of Psychological Data** 4. **Some Important Methods in Psychology** • **Observational Method** • **Experimental Method** • **Correlational Research** • **Survey Research** • **Psychological Testing** • **Case Study**	**Students will be able to evaluate all the methods of psychological enquiry.**	1. **Class presentation** 2. **Building hypothesis** 3. **Mind map making**
JUNE		**Summer Vacation**		
JULY (30)		5. **Analysis of Data** • **Quantitative Method** • **Qualitative Method** 6. **Limitations of Psychological Enquiry**	**Students will be able to mention the various developmental stages and their significances.**	**1.Make a power point presentation on the various developmental stages of life.**

	3.	**Ethical Issues** **Human Development** **The topics in this unit are:** 1. **Introduction** 2. **Meaning of Development** • **Life-Span Perspective on Development** 3. **Factors Influencing Development** 4. **Context of Development** 5. **Overview of Developmental Stages** • **Prenatal Stage** • **Infancy** • **Childhood** • **Challenges of Adolescence** • **Adulthood and Old Age**		**2.Mind map making**
AUG (32)	**4**	**Sensory, Attentional and Perceptual Processes** **The topics in this unit are:** 1. **Introduction** 2. **Knowing the world** 3. **Nature and varieties of Stimulus** 4. **Sense Modalities** • **Functional limitation of sense organs**	**Students will be able to Define and evaluate on the concept of perception and attention.**	• **Chart making** • **Mind map making** • **Experiment conduction**

		5. **Attentional Processes** • **Selective Attention Sustained Attention** 6. **Perceptual Processes** • **Processing Approaches in Perception** 7. **The Perceiver** 8. **Principles of Perceptual Organisation** 9.		
		10. **Perception of Space, Depth and Distance** • **Monocular Cues and Binocular Cues** 11. **Perceptual Constancies** 12. **Illusions - Socio-Cultural Influences on Perception** **Practical- Experiment 1** **Recapitulation of Chap 2&3**		
SEPT (16)	**6**	**Learning** **The topics in this unit are:** 1. **Introduction** 2. **Nature of Learning** 3. **Paradigms of Learning** 4. **Classical Conditioning** • **Determinants of Classical Conditioning**	**Students will be able to define the term learning. They will also be able to classify all the types of learning.**	• **Group discussion** • **Mind map making**

		5. **Operant/Instrumental Conditioning** • **Determinants of Operant Conditioning** • **Key Learning Processes** 6. **Observational Learning**		
MID TERM EXAMINATION				
OCT (30)	**7.**	• **Cognitive Learning** • **Verbal Learning** • **Skill Learning** • **Factors Facilitating Learning** **Learning Disabilities** **Human Memory**	**Students will be able to classify the types of memory and state the strategies involved in improving our memory.**	• **Creating mnemonics** • **Mind map making**
		The topics in this unit are: • **Introduction** • **Nature of memory** • **Information Processing Approach: The Stage Model** • **Memory Systems: Sensory, Short-term and Long-term Memories** • **Levels of Processing** • **Types of Long-term Memory**		

		Declarative and Procedural; Episodic and Semantic Nature and Causes of Forgetting		
NOV(30)	**7**	**Thinking** **The topics in this unit are:** 1. **Introduction** 2. **Nature of Thinking** • **Building Blocks of Thoughts** 3. **The Processes of Thinking** 4. **Problem Solving** 5. **Reasoning** 6. **Decision-making** 7. **Nature and Process of Creative Thinking** • **Nature of Creative Thinking** • **Process of Creative Thinking** 8. **Thought and Language Development of Language and Language Use**	**Students will be able to evaluate and discuss on the concept of thinking.**	**1.Role play to demonstrate the process of decision making and judgement**

DEC (30)	**9**	**Motivation and Emotion** **The topics in this unit are:** 1. **Introduction** 2. **Nature of Motivation** 3. **Types of Motives** • **Biological Motives** • **Psychosocial Motives** 4. **Maslow's Hierarchy of Needs** 5. **Nature of Emotions** 6. **Expression of Emotions** • **Culture and Emotional Expression** • **Culture and Emotional Labelling** 7. **Managing Negative Emotions** **Enhancing Positive Emotions**	**Students will be able to define the term motivation. They will also be able to discuss the theories of motivation and emotion**	**1.Group discussion**
JAN (23)		**Project- Case Profile** **Practical – Experiment 2**	**Students will develop the specific skills required to build a case study.** **Students will be able to create hypothesis for their**	**Experiment conduction** **Building case profile**

			experiment conduction.	
FEB (12)		**Revision**	**Students will be able to recapitulate the entire syllabus.**	
		Annual Examination		

Practical (Projects, experiments, small studies, etc.) 30 marks

The students shall be required to undertake one project and conduct two experiments. The project would involve the use of different methods of enquiry like observation, survey, interview, questionnaire, small studies related to the topics covered in the course (e.g. Human development, Learning, Memory, Motivation, Perception, Attention and Thinking). Experiments could focus on cause-and-effect relationship. Practical Examination

Practical (Experiments) file	**05 Marks**
Project File	**05 Marks**
Viva Voce (Project and experiments)	**05 Marks**
One experiment (05 marks for conduct of experiment and 10 marks for reporting)	**15 Marks**
Total	**30 Marks**

पाठ्यक्रम कक्षा 11वीं
विषय हिंदी(2025-26)

माह	इकाई	विषयवस्तु	कला समेकित गतिविधियाँ
		1 पाठ्यपुस्तक 2.गद्य 3. पद्य 4 व्याकरण 5 लेखन 6. अंतराल	
अप्रैल /20 15अप्रैल से 15 मई		गद्य-ईदगाह पद्य- कबीर के पद, व्याकरण- अनौपचारिक पत्र, जनसंचार के माध्यम- रेडियो, टेलीविजन,स्ववृत्त लेखन दृश्य लेखन	प्रेमचंद की कोई एक कहानी पढ़कर उसकी सचित्र समीक्षा कीजिए। गरीबी से जूझ रहे किसी विवश परिवार या घटना का वर्णन कीजिए।
मई/22		गद्य- दोपहर का भोजन, पद्य- सूरदास के पद व्याकरण-जनसंचार के माध्यम- समाचार पत्र, इंटरनेट	विकलांगों की समस्या पर आधारित कोई फिल्म देखकर उसकी समीक्षा कीजिए।
जुलाई /24		गद्य- खानाबदोश , टॉर्च बेचने वाला पद्य- संध्या के बाद,देव, व्याकरण- डायरी लेखन, कथा पटकथा ,कार्य सूची अंतराल- हुसैन की कहानी अपनी जुबानी	श्रवण कौशल अभ्यास करवाया जाएगा । मकबूल हुसैन की पेंटिंग्स का कोलाज बनाइए
अगस्त/ 23		गद्य- ज्योतिबा फूले पद्य- बादल को घिरते देखा है ,महादेवी वर्मा,संध्या के बाद व्याकरण- पत्रकारिता	ज्योतिबा फुले के जीवन व कार्यों पर परियोजना कार्य कीजिए।
सितंबर/12	अर्धवार्षिक परीक्षा	पद्य- संध्या के बाद करवाए गए कार्य की पुनरावृत्ति	श्रवण वाचन कौशल (ASL)
अक्टूबर/19		गद्य- भारतवर्ष की उन्नति कैसे हो सकती है।, उसकी मां पद्य- हस्तक्षेप ,घर में वापसी व्याकरण- प्रेस विज्ञप्ति, दृश्य लेखन,	शरद चंद्र, रागेय राघव, सुधा अरोड़ा, मोहन राकेश, किसी एक कवि पर परियोजना कार्य कीजिए। उसकी मां कहानी के आधार पर अपना वह अपनी मां के संबंधों पर कहानी लिखिए।

नवंबर/19		गद्य-गद्दे के पाठों की सप्रसंग व्याख्या पद्य- पद्य के पाठों की सप्रसंग व्याख्या व्याकरण- शब्दकोश परिचय अंतराल- आवारा मसीहा निबंधात्मक प्रश्न उत्तर	शरत चंद्र चट्टोपाध्याय के जीवन से संबंधित किसी एक घटना का वर्णन कीजिए ।
दिसंबर/24		गद्य-गद्य के पाठों के बहुविकल्पीय प्रश्न पद्य- पद्य के पाठों के बहुविकल्पीय प्रश्न व्याकरण- अपठित गद्यांश, अपठित काव्यांश	श्रवण कौशल अभ्यास करवाया जाएगा । कार्य प्रपत्र
जनवरी/20		व्याकरण- करवाए गए कार्य की पुनरावृति श्रवण वाचन कौशल (ASL)	
फरवरी/20		करवाए गए कार्य की पुनरावृति	

शैक्षणिक उद्देश्य -

गद्य---गद्य विधा के माध्यम से जीवन के परिवेश, समकालीन यथार्थ वह चुनौतियों के प्रति सजग रहना। भाषा साहित्य को मजबूत करना। सृजनात्मक साहित्य की सराहना, उस का आनंद उठाना और उसके प्रति सृजनात्मक और आलोचनात्मक दृष्टि का विकास करना।

पद्य--विद्यार्थियों में साहित्य ज्ञान, रस, अलंकार भाषा व भाव विकसित करके उसकी महत्व उपयोगिता को समझना। विविध कवियों की रचनाओं को पढ़ना वह साहित्य के प्रति अनुराग उत्पन्न करना।

व्याकरण- 1.संचार माध्यमों में प्रयुक्त हिंदी भाषा की प्रकृति से अवगत कराना और नवीन विधियों के प्रयोग की क्षमता को बढ़ाना।

2. अमूर्त विषयों पर प्रयुक्त भाषा का विकास और कल्पनाशीलता और मौलिक चिंतन के लिए प्रयोग करना।

3. कविता व कहानी के प्रति छात्रों के मन में अनुराग लिखने के लिए प्रेरित करना।