	Class: XII		Indian School Wadi Kabir ISWK SHARING KNOWLEDGE (Monthly Plan - March 2022)			
SUBJECTS	**Week - 1**	**Week - 2**	**Week - 3**	**Week - 4**	**Week - 5**	**Learning Outcomes**
ENGLISH				LOST SPRING	ARTICLE WRITING	to identify the problem, consider the options, weigh the pros and cons of each option, and reach a decision/opinion/solution.
MATHEMATICS				**Relations and Functions:** *Types of relations: reflexive, symmetric, transitive and equivalence relations.	*One to one and onto functions, composite functions, inverse of a function.	Recalls relations and functions. Recognizes domain and range Identifies types of relations and functions. compare and identify inverse of a real valued function and verify the same
PHYSICS			CHAPTER1 Electric Charges and fields;	Coulomb's law-force between two-point charges.	Electric dipole, electric field due to a dipole, torque on a	Recalls about charge Infer about Coulomb's law, Electric dipole and dipole moment.

			Conservation of charge.	Electric field, electric field due to a point charge.	dipole in uniform electric field.	
CHEMISTRY			**Haloalkanes:** Nomenclature, nature of C–X bond	Physical and chemical properties, optical rotation mechanism of substitution reactions.	**Haloarenes:** Nature of C–X bond, substitution reactions	After studying this Unit, you will be able to • name haloalkanes and haloarenes according to the IUPAC system of nomenclature from their given structures; • describe the reactions involved in the preparation of haloalkanes and haloarenes and understand various reactions that they undergo; • correlate the structures of haloalkanes and haloarenes with various types of reactions; • use stereochemistry as a tool for understanding the reaction mechanism; • appreciate the applications of organo-metallic compounds; • highlight the environmental effects of polyhalogen compounds.
BIOLOGY			**Sexual reproduction in flowering plants** Pre-fertilisation - structure	**Sexual reproduction in flowering plants** Pre-fertilisation – events,	Post fertilization : -structure and events **Human reproduction-**	The students will be able to explain the male and female reproductive structure, draw diagrams of T.S. of anther, ovary and post fertilisation structures, describe the process of fertilisation, appreciate the importance of endosperm and embryo formation, explain the

				Double fertilization Post fertilization : -structure and events	Reproductive organs	vents in embryogenesis and distinguish between apomixis and parthenocarpy. Explain the structure of male and female reproductive organs in humans and draw the diagrams
ENGINEERING GRAPHICS				Introduction to the new chapter: ISOMETRIC PROJECTION Explanation of all terms and title block construction.	Isometric Projection of Prisms Single solids – Isometric projection of prisms Construction of Isometric scale	Drawing the isometric projections of different types of prisms
INFORMATICS PRACTICES				Data Handling using Pandas - 1	Introduction to Python libraries	Data Structures in Pandas - Introduction

COMPUTER SCIENCE				Revision of python: i)Topics covered in Class XI ii)Developing simple codes	Revision of Python topics: i)covered in Class XI ii)Executing the basic codes in Lab	Revision of Python topics: i)covered in Class XI ii)Basics of Python
ACCOUNTANCY			**Fundamentals of Partnership Accounting: Introduction**	*Partnership: features, partnership deed.Interest on Capital, Interest on Drawings, Remuneration for partners.	*Charges & Appropriation of profit. *Fixed v/s fluctuating capital account-Capital A/c & Current A/c. *Profit/Loss Appropriation A/c	Calculation of IOC,IOD,remuneration of partners. Preparation of P/L A/c, Appropriation A/c
BUSINESS STUDIES			**Nature and Significance of Management** - Introduction	Management - concept, objectives, and importance Management as Science, Art and Profession	Levels of Management Management functions-planning, organising, staffing, directing and controlling	Understand the concept of management. Explain the meaning of 'Effectiveness and Efficiency. Discuss the objectives of management. Describe the importance of management. Examine the nature of management as a science, art and profession Understand the role of top, middle and lower levels of management

						Explain the functions of management
ECONOMICS			**Money and Banking: Introduction**	Barter System,Limitation, Money: Evolution of money,Functions	Money Supply, Difference b/w Commercial & Central bank, Functions of Central Bank	Credit creation by Commercial banks Numericals
ENTREPRENEURSHIP			**Entrepreneurial Opportunity: Introduction**	i.Environment Scanning.	ii.Problem Identification. iii.Idea Field	Concept and elements of business opportunity. Process involved in sensing opportunities.Need for environment scanning. Various sources of idea fields.
MARKETING			**Product decision: Introduction**	1.Explain meaning of Product in marketing 2.To understand the components of Product.	3.Provide Information regarding importance of the Product 4.Elucidate the various levels of product	Four P‟s of marketing mix with special focus on Product. Meaning, importance of Product in Marketing Discussion of various components and importance associated with the product,

						along with the various product levels
PSYCHOLOGY			**Variations in Psychological Attributes** Introduction - Theories of Intelligence	**Variations in Psychological Attributes** Theories of Intelligence (cont) -Individual difference in Intelligence	**Variations in Psychological Attributes** Individual difference in Intelligence	Understand psychological attributes on which people differ from each other, learn about different methods that are used to assess psychological attributes, explain what constitutes intelligent behaviour, understand how intelligence has different meaning in different cultures and the difference between intelligence and aptitude.
PHYSICAL EDUCATION			**Planning in Sports** Meaning & Objectives Of Planning	• Various Committees & its Responsibilities	• Tournament and its type.	Responsibilities of Committees (pre; duties and post) Knock-Out, League Or Round Robin & Combination Tournament.
APPLIED MATHEMATICS				**Matrices:** *Define matrix *Identify different kinds of matrices *Order of matrices	**Matrices:** * Addition, subtraction & multiplication of matrices **Determinants:** Determinant of a square matrix	

				*Transpose of given matrix *Symmetric and skew symmetric matrix	*Define the inverse of a square matrix * Apply properties of inverse of matrices	

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SUBJECTS	**Week - 1**	**Week - 2**	**Week - 3**	**Week - 4**	**Week - 5**	**Learning Outcomes**
ENGLISH	Classified averisements	My Mother at 66	The Third Level	letter writing Last Lesson	Last Lesson	to write various types of classifieds in the required format. to grasp the theme and meaning of the poem.

MATHEMATICS	**Inverse Trigonometric Functions:Domain and range (principal value branch) Graphs of inverse trigonometric functions.** **Elementary properties of inverse trigonometric functions.**	Elementary properties of inverse trigonometric functions contd. **Continuity and Differentiability**: *LHL, RHL, Continuity , LHD, RHD and differentiability	Derivative of implicit functions and Inverse trigonometric functions. *Exponential functions and logarithmic functions. Logarithmic differentiation	Derivative of functions in parametric forms, Second derivative	Rolle's theorem and Mean Value theorem	Recalls trigonometric functions domain and range. Identifies inverse trigonometric functions and principal value branches. Apply elementary properties of inverse trigonometric functions. Verifies continuity and differentiability. Identifies various types of differentiation.

PHYSICS	Electric flux, statement of Gauss's theorem and its applications to find a field due to infinitely long straight wire.	uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Exercise and worksheet.	**CHAPTER-2 – Electrostatic potential and capacitance.** Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, Conductors and insulators, free charges and bound charges inside a conductor. Electrical potential energy and of electric dipole in an electrostatic field.	Capacitance, combination of capacitors in series and in parallel. Capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor. Worksheet and exercises.	**CHAPTER-3- Current Electricity** Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility	Understands about electric flux and Gauss's law. Applies the acquired knowledge . Recalls about electric potential and potential difference. Infers about capacitance. Compare capacitance in parallel and series combination. Recalls about electric current.
CHEMISTRY	**Alcohols:**	**Phenols:**	**Ethers:**	**Proteins** -Elementary idea of amino acids, peptide bond,	**Proteins** -Elementary idea of amino acids,	After studying this Unit, you will be able to • name alcohols, phenols

	Nomenclature, methods of preparation, Physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration.	Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.	Nomenclature, methods of preparation, physical and chemical properties, uses. **Carbohydrates** - Classification (aldoses and ketoses), monosaccharide (glucose and fructose), D-L configuration	polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins. **Nucleic Acids**: DNA and RNA.	peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins. **Nucleic Acids**: DNA and RNA.	and ethers according to the IUPAC system of nomenclature; • discuss the reactions involved in the preparation of alcohols from alkenes, aldehydes, ketones and carboxylic acids; • discuss the reactions involved in the preparation of phenols from haloarenes, benzene sulphonic acids, diazonium salts and cumene; • discuss the reactions for preparation of ethers from (i) alcohols and (ii) alkyl halides and sodium alkoxides/aryloxides; • correlate physical properties of alcohols, phenols and ethers with their structures; • discuss chemical

						reactions of the three classes of compounds on the basis of their functional groups.
BIOLOGY	**Human reproduction**- gametogenesis, menstrual cycle, Fertilisation and implantation, embryo development and parturition **Reproductive health** : Contraceptive method, ART, STDs	**Principles of inheritance and variations** – Mendelian experiments, Deviations from Mendelian experiments	**nciples of inheritance and variations –** Sex determination, genetic disorders	**Molecular basis of inheritance** – Structure of DNA		Students are able to explain gametogenesis , menstrual cycle, Fertilisation and implantation, embryo development and parturition Describe Contraceptive method, ART, STDs Appreciate the importance of Mendelian experiments, work out problem based questions, explain the process of sex determination and genetic disorders

						Explain the structure of DNA
ENGINEERING GRAPHICS	Isometric projection of pyramids. Isometric projection of inverted pyramids.	Isometric projection of here,hemisphere,cone and cylinder	Isometric projection of combination of solids	Isometric projection of ombinations of solids in different conditions	metric projection of ombination of solids with extra problems	Sketches of different Isometric projections of combinations of solids with respect to HP and VP
INFORMATICS PRACTICES	Pandas Series i)Creation of series from dictionary	Creation of series with scalar value. Executing on the system	Mathematical operations i)Implementation using pandas	Series Attributes like .values(),.size,index,.items, .name,.name.index etc.,	head( ) and tail( ) methods with default arguments and specified arguments.	Students will understand about various methods in Creating Pandas series. Mathematical operations over Pandas series. Use of head() and tail() methods
COMPUTER SCIENCE	Functions - i)Types of Functions - ii)Arguments	Function returning value(s), i)flow of execution, ii)scope of a	Introduction to Files - i)Text File - ii)Opening a Text files	Text File with i)clause - writing / appending data to a text file.	Text File - i)read( ),readline ( ), readlines()	Binary File

	iii)Parameters - default parameters, positional parameters,	variable (global scope, local scope)	iii) Text file open modes		ii)seek and tell methods	i)Purpose and why Text file ii)Advantages

ACCOUNTANCY	*Past Adjustment & Guarantee of profit.	**Nature & valuation of Goodwill.** Goodwill: nature, factors affecting Goodwill Valuation of goodwill- Average profit and Super Profit Method	Valuation of goodwill. - Capitalization Method. **Change in profit-sharing ratio.** *Calculation of New Ratio, Sacrificing Ratio, Gaining Ratio	*Treatment of Reserves & Goodwill. *Revaluation of assets and reassessment of liabilities.	*Comprehensive sums relating to change in PSR including capital adjustment.	Comprehensive sums of fundamentals .Sums on guarantee and past adjustment. Methods of valuation- average Super profit and capitalization method.profit . Calculation of new ratio, gaining and sacrificing ratio. Entries for goodwill and reserves. Preparation of revaluation account.Preparation of partners capital A/c

						and Balance sheet.
BUSINESS STUDIES	Coordination **Principles of Management** Principles of Management- concept and significance	Fayol's principles of management Taylor's Scientific management principles and techniques	Taylor's Scientific management principles and techniques **Business Environmen**t Business Environment- concept and importance	Dimensions of Business Environment- Economic, Social, Technological, Political and Legal **Planning** Planning: Concept, importance and limitation	Planning process **Organising** **Organising:** Concept and importance **Organising Process**	Discuss the concept and characteristics of coordination. Explain the importance of coordination Understand the concept of principles of management. Explain the significance of management principles Discuss the principles of management developed by Fayol Explain the principles and techniques of 'Scientific Management'

						Understand the concept of ‘Business Environment Describe the importance of business environment Describe the various dimensions of ‘Business Environment Understand the concept of planning. Describe the importance of planning. Understand the limitations of planning Describe the steps in the process of planning Understand the concept of organizing as a structure and as a process. Explain the	

						importance of organising Describe the steps in the process of organizing
ECONOMICS	**Indian economy on the eve of Independence:** Features, Agricultural sector, Industrial sector, Foreign rule,	Demographic Profile, Occupational Structure,	Infrastructure and Conclusion **Indian economy (1950-1990):** Types of Economic System,	Planning - Goals Development in Agriculture,Industry, Trade	**Government budget and the economy**: Meaning, objectives and components	Problems of excess demand and deficient demand; measures to correct them
ENTREPRENEURSHIP	iii.Idea Fields iv.Spotting Trends	v.Creativity & Innovation vi.Selecting Right opportunity. **2. Enterprise Planning** i.Forms of business enterprise	ii.Components of Business plan.	iii. Organizational plan, Production plan, Human resources plan, Operational plan, Financial plan, Marketing plan.	**3.Enterprise Marketing.** i.Goal Setting ii.Marketing and Sales strategy	Process of transformation of ideas into opportunities. Ways of spotting trends.Process of creativity and innovation. Concept of opportunity assessment.

						Various forms of Business enterprise. Importance of the business plan. · Formats of a business plan. Components/parts of a business plan. Marketing strategies of a Business firm
MARKETING	1. Discussion of the consumer goods, their types and features. Comprehension of types of industrial goods and their features.	Detail the classification of consumer goods along with their features. Comprehension of types of industrial goods and their features.	Explain various Types of industrial goods and their features. Understand Product Mix, Product line	Comprehend the concept of Product Mix, Product line. Discussion of Product Life Cycle Enumerate different stages of the product life cycle. A. Introduction Stage B. Growth Stage C. Maturity Stage D. Decline Stage	Identify the various stages in a product life cycle. Understand the response of marketers in these stages.	Knowledge of types of consumer goods and industrial goods. Clarification on the product life cycle stages.

PSYCHOLOGY	**Variations in Psychological Attributes** Culture and Intelligence - Special abilities	**Variations in Psychological Attributes** Special abilities - Creativity	**Variations in Psychological Attributes** REVISION	**Self and Personality** Introduction - Concept of Personality	**Self and Personality** Major approaches to the study of personality - Psychodynamic approach	Understand psychological attributes on which people differ from each other, learn about different methods that are used to assess psychological attributes, explain what constitutes intelligent behaviour, understand how intelligence has different meaning in different culture and the difference between

						intelligence and aptitude.
PHYSICAL EDUCATION	**Planning in Sports** • Procedure To Draw Fixtures-Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)	• Intramural & Extramural – Meaning, Objectives & Its Significance	• Specific Sports Programme (Sports Day, Health Run, Run For Fun, Run For Specific Cause & Run For Unity)	**Sports & Nutrition** Balanced Diet & Nutrition: Macro & Micro Nutrients • Nutritive & Non-Nutritive Components Of Diet	• Eating For Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance & Food Myths	-Knowledge of types of fixture -Objectives and significance of Intramural & Extramural -How to organise different types of run. -understand the concept of balanced diet and nutrition
APPLIED MATHEMATICS	**Determinants:** *Properties of inverse of matrices *Solve the system of simultaneous equations	**Determinants:** *Simple applications of matrices and determinants in different areas of mathematics.	**Differentiation :** *Second and higher order derivatives Understand differentiation of parametric functions and implicit functions	**Differentiation :** *Equation of tangents *Marginal cost and marginal revenue.	**Differentiation :** *Increasing or decreasing functions *Maximum and minimum value of a function.	

	Class: XII	Indian School Wadi Kabir ISWK SHARING KNOWLEDGE (Monthly Plan - May 2022)				
SUBJECTS	**Week - 1**	**Week - 2**	**Week - 3**	**Week - 4**	**Week - 5**	**Learning Outcomes**
ENGLISH	NOTICE WRITING	DEEP WATER	DEEP WATER	EMENTARY SCHOOL CLASS ROOM IN A SLUM	ELEMENTARY SCHOOL CLASS ROOM IN A SLUM	Students will be able to use appropriate style and format to write a NOTICE effectively. The learn

						ers would unfold their logical thinking skills, They are able to speak and write about importance of perseverance

MATHEMATICS	**Matrices:** ***Types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices.** **Operation on matrices**	Operations on matrices, inverse of matrix **Determinants:** Definition, properties, minors, cofactors	Adjoint of a matrix, solving equations using matrices.	**Application of derivatives:** *Rate of change, increasing decreasing functions, tangent and normal	Application of derivatives: * Maxima, minima, word problems	Identifies matrices and determinants . Evaluate the result using operations on matrices Apply properties of matrices and determinants appropriately . Solves word problems using matrices. Recalls derivatives and identify rate of change. Apply derivatives to find rate of change maxima and

						minima and sums related to tangents and normals. Analyse the properties of function.
PHYSICS	Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's laws and simple applications.	Wheatstone bridge, meter bridge, Potentiometer - principle and its applications to measure potential difference and for comparing emf of two cells; measurement of internal resistance of a cell. Exercises and worksheet	**HAPTER 4 – Moving charg agnetism** Concept of magnetic field, (experiment. Biot -Savart l application to the c carrying circular loop. law and its applicati infinitely long straig Straight and toro solenoids(qualitative t only). Force on a movi in uniform magnetic ar fields. Cyclotro Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel	Moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter. **CHAPTER -5- Magnetism and matter** Current loop as a magnetic dipole and its magnetic	**CHAPTER -5- Magnetism and matter** Bar magnet as an equivalent solenoid. Earth's magnetic field and magnetic elements.	Recalls about resistance and infers about internal resistance . Compares between emf of cells in parallel and in series. Understands about potentiometer, its principle and working. Recalls about magnetic fields and magnetism.

			current-carrying conductors- definition of ampere.	dipole moment Magnetic dipole moment of a revolving electron.		Infers about Biot Savart's law and applies the acquired knowledge. Acquires knowledge about earth's magnetic field and magnetic elements.
CHEMISTRY	**Solid State** Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea)	Unit cell in two dimensional and three-dimensional lattices, calculation of density of unit cell	packing in solids, packing efficiency, voids. Number of atoms per unit cell in a cubic unit cell, point defects.	**Solutions** Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law,	colligative properties - relative lowering of vapour pressure, elevation of boiling point,	After studying this Unit, you will be able to • describe general characteristics of solid state; • distinguish between amorphous and crystalline solids; • classify crystalline solids on the basis of the nature of binding forces; • define crystal lattice and unit cell; • explain close packing

						of particles; • describe different types of voids and close packed structures; • calculate the packing efficiency of different types of cubic unit cells; • correlate the density of a substance with its unit cell properties; • describe the imperfections in solids and their effect on properties;
BIOLOGY	**UT 1** **Revision**	**UT 1** **Revision**	**Molecular basis of inheritance** – Packaging of DNA, Experiments	**Molecular basis of inheritance** – DNA replication	**Molecular basis of inheritance** –Transcription, Genetic code	Students are able to describe the packaging of DNA, replication, transcription, translation and genetic code, represent the above

						processes diagrammatically
ENGINEERING GRAPHICS	Introduction to unit 2: Machine Drawing Threads and its definitions Types of screw threads:	BSW thread Metric Internal Metric external Square thread Knuckle thread	Types of bolts : Hexagonal headed bolt Square headed bolt Types of nuts: Hexagonal nut Square nut	Types of washer Combination of nut bolt and washer Free hand sketches: Conventional representation of threads.	Types of Studs: Plain stud Stud with square neck Collar stud	Sketches different types of machine parts using instruments.

INFORMATICS PRACTICES	Series - Indexing	Series - slicing	Data Frames - Creation of data frames from series	list of dictionaries - text / csv files	Displaying and Iteration of Data Frames	Students will understand the Indexing and Slicing techniques in Pandas series. Students will understand the ways to create Dataframe in Pandas.
COMPUTER SCIENCE	Binary File - i)Basic operations - file open modes - ii)import pickle module	Binary File - i)dump(), load() methods ii)read(), write(), append() and search operations	CSV File i)Importing csv module ii) Open /close operations on csv file	CSV File i)writerow() and csv.reader() ii)Conversions	Examples on csv file i)All the modules of csv file are executed in ICT Lab ii)More on modes	Students will understand the Binary file operations and the creation of CSV files.

ACCOUNTANCY	**Admission of a partner** *New Ratio, Sacrificing Ratio. *Treatment of Goodwill and Reserves.- IFR,GR,WCR, *Revaluation A/c-Sharing of revaluation profit /loss.	*Revaluation A/c-Sharing of revaluation profit /loss. Adjustments of Capital Accounts.	*Comprehensive problems. **Retirement of a Partner** *New and Gaining ratio. *Revaluation of assets and liabilities.- Sharing of revaluation of profit/loss. *	*Accounting treatment of reserves. *Partners' Capital A/c, Balance Sheet.	*Comprehensive sums	Calculation of SR. Entries for Goodwill in different cases. Entries and posting of reserves. Preparation of Revaluation A/c and partners 'capital A/c. Comprehensive sums on admission. Calculation of NR and GR Accounting treatment of reserves and entries/posting in revaluation and partner's capital A/c.

						Preparation of partner's capital A/c and Balance Sheet. Passing journal entries.Comprehensive sums with adjustment of capital.
BUSINESS STUDIES	Structure of organisation- functional and divisional concept Delegation: concept, elements and importance	Decentralisation: concept and importance **Marketing** Marketing – Concept, functions and philosophies	Marketing Mix – Concept and elements	Product - branding, labelling and packaging – Concept	Price - Concept, Factors determining price Physical Distribution – concept	Describe functional and divisional structures of organisation. Understand the concept of delegation. Describe the elements of delegation. Appreciate

						the importance of Delegation Understand the concept of decentralisation. Explain the importance of decentralisation. Differentiate between delegation and decentralisation Understand the concept of marketing. Discuss the functions of marketing. Explain the marketing philosophies Understand the concept	

						of marketing mix. Describe the elements of the marketing mix Understand the concept of product as an element of marketing mix. Understand the concepts of branding, labelling and packaging. Understand the concept of price as an element of marketing mix. Describe the factors determining price of a product Understand the concept of physical distribution.

ECONOMICS	**Government budget and the economy**: Classification of receipts-Revenue receipts and Capital recepits	Changes in Govt Spending, taxes and Money supply.	Classification of expenditure – Revenue expenditure	Classification of expenditure - Capital Expenditure	Measures of Government Deficit: Revenue,Fiscal and Primary deficit : Meaning	Numericals Conclusion and Measures
ENTREPRENEURSHIP	iii.Marketing Mix: Product-Branding, Packaging and Labelling.	*Pricing-Methods of pricing. *Place-Channels of distribution.	*Promotion-Sales Strategy,tools of promotion,personal selling and sales promotion, modes of Advertising. Public Relations.	iv.Negotiation. v.Customer Relationship management & Vendor management.	**4.Enterprise Growth Strategies** i.Internal and external expansion. ii.Concept of franchise.	Concepts of Product, Price, Place and Promotion. Importance of Customer Relationship Management . Importance of Vendor Management . Concept of growth & development of an enterprise.

MARKETING	Discussion of the packaging concept and its role in marketing. Comprehension of importance and functions of Packing.	Understand the essential qualities of good packaging and its types. Discussion of the concept of Labelling.	Understanding the role, importance of packaging and labelling. Understand the essential qualities of good packaging and its types. Discussion of the concept of Labelling.	Explain the importance of packaging and the functions of packaging. Comprehend the important features of good packaging and the types of packaging. Marketing project work discussions.	**EMPLOYABILITY SKILLS :** Communication skills Active Listening Parts of Speech Writing Sentences	Understanding the role, importance of packaging and labelling. The concept of packaging, role, importance, functions and types. In addition, understanding the concept of labelling. Employability Skills • identify the basic parts of speech, such as nouns, pronouns, adjectives, verbs and

						adverbs. • use capitalisation and punctuation rules for sentences. • explain the usage of parts of speech and identify them in a sentence. • identify supporting parts of speech, such as articles, conjunctions, prepositions and interjections. • identify the different parts of a sentence. • differentiate between active and passive voice. •

						compose different types of sentences.
PSYCHOLOGY	**REVISION**	**REVISION**	**Self and Personality** Psychodynamic approach-Post Freudian Approach	**Self and Personality** Post Freudian Approaches - Humanistic Approach	**Self and Personality** Humanistic Approach - Assessment of Personality	Describe the concept of self and learn some ways for self-regulation of behaviour, explain concept of personality, differentiate between the various approaches to the study of personalit

						y, get an insight into the development of healthy personality and describe some techniques for personality assessment.
PHYSICAL EDUCATION	**Yoga & Lifestyle** Asanas as preventive measures • Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardha Matsyendrasana	• Asthma: Procedure, Benefits & contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana• Hypertension: Tadasana, Vajrasana,	**Physical Education & Sports for CWSN** Concept of Disability & Disorder• Types of Disability, its causes & nature (cognitive disability, intellectual disability, physical disability)	• Types of Disorder, its cause & nature (ADHD, SPD, ASD, ODD, OCD)	• Disability Etiquettes • Advantage of Physical Activities for children with special needs	-Identify the asanas beneficial for different types of ailments and health problems. -Outline the role of yogic management for various health

	• Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pavan Muktasana, Ardha Matsyendrasana	Pavan Muktasana, Ardha Chakrasana, Bhujangasana, Shavasana *Back Pain: Tadasana, Ardha Matsyendrasana, Vakrasana, Shalabhasana, Bhujangasana				benefits and preventive measures. -Describe the concept of Disability and disorder. -Explain various disability etiquettes
APPLIED MATHEMATICS	**Differentiation :** *Maximum and minimum value of a function. *Solve applied problems	**Numbers & Quantification** *Modulus of an integer *Define congruence modulo *The rule of alligation to produce a mixture at a given price	**Revision for UT 1 and Numbers & Quantification** *Solve real life problems mathematically - upstream and downstream, the time taken to finish a task etc	**Revision for UT 1 and Numbers & Quantification** *Solve real life problems mathematically - active partner and sleeping partner, division of gain or loss.	**Numbers & Quantification** * Basic concepts of numerical inequalities	

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SUBJECTS	**Week - 1**	**Week - 2**	**Week - 3**	**Week - 4**	**Week - 5**	**Learning Outcomes**

ENGLISH	JOB APPLICATION					Students will be able to use appropriate style and format to write an application effectively.
MATHEMATICS	**Application of derivatives: Word problems based on maxima and minima.**					Apply the knowledge of derivatives to solve sums related to real life situations.
PHYSICS	**CHAPTER-6- Electromagnetic Induction** Electromagnetic induction; Faraday's laws. induced EMF and current.					Recalls electromagnetic induction and infers about Faraday's laws.
CHEMISTRY	depression of freezing point, osmotic pressure	Determination of molecular masses using colligative properties.	**SUMMER BREAK**	**SUMMER BREAK**	**SUMMER BREAK**	After studying this Unit, you will be able to • describe the formation of different types of solutions; • express concentration of solution in

						different units; • state and explain Henry's law and Raoult's law; • distinguish between ideal and non-ideal solutions; • explain deviations of real solutions from Raoult's law; • describe colligative properties of solutions and correlate these with molar masses of the solutes; • explain abnormal colligative properties exhibited by some solutes in solutions.
BIOLOGY	**Molecular basis of inheritance –** Translation	**Molecular basis of inheritance** - HGP, DNA fingerprinting	Summer Break	Summer Break	Summer Break	Students are able to explain DNA fingerprinting and HGP
ENGINEERING GRAPHICS	Types of Rivets: Snap head rivet Pan head rivet	Types of Rivets: Flat head rivet 60 degree CSK head rivet	Summer break	Summer break	Summer break	Free hand sketching skills of different machine parts.

INFORMATICS PRACTICES	Select, Delete and rename operations on Data Frames head() and tail() methods	Indexing using labels - Boolean Indexing.	Summer Break	Summer Break	Summer Break	Students will understand the various operations performed in Data Frames and Indexing and Boolean Indexing Techniques.
COMPUTER SCIENCE	Record Book Programmes i)Revision Tour ii)Functions	Record Book Programs i)Text File ii)Binary File iii)csv file	Summer Break	Summer Break	Summer Break	Students will create the python programs using List, Strings, Tuples and Dictionary. Students will create the python programs using Text file, Binary file and csv file.
ACCOUNTANCY	*Comprehensive sums. *Retiring partner's loan A/c.					Comprehensive sums with adjustment of capital. Preparation of partner's loan A/c.
BUSINESS STUDIES	Promotion – Concept and elements; Advertising, Personal Selling,	Promotion – Concept and elements; Sales Promotion and Public Relations				Understand the concept of promotion as an element of marketing mix. Describe the elements of the promotion mix. Understand the concept of advertising and personal selling Understand the concept of

						sales promotion. Discuss the concept of public relations.
ECONOMICS	**Economic Reforms since-1991:** Need for economic reforms, its features Liberalisation	Globalisation Meaning and Objective	Summer Break	Summer Break	Summer Break	Outsourcing, WTO Privatisation- An appraisal of LPG Policies. Features Meaning, Objective Merits and Demerits
ΓREPRENEURSHIP	iii.Concept of franchise. iv.Types of franchise.					Advantages,disadvantages and limitations of franchise.
MARKETING	**UNIT 2 :** 1.Introduction 2.Meaning of Price and Pricing Marketing Project work discussions	Meaning and importance of Price in Marketing.	Summer Break	Summer Break	Summer Break	Four P"s of marketing mix with special importance of Price. Price is crucial for a firm as well as for consumers.
PSYCHOLOGY	**Self and Personality**					Describe the concept of self and learn some

	Assessment of Personality					ways for self-regulation of behaviour, explain concept of personality, differentiate between the various approaches to the study of personality, get an insight into the development of healthy personality and describe some techniques for personality assessment.
PHYSICAL EDUCATION	**Physical Education & Sports for CWSN** • Strategies to make Physical Activities assessable for children with special need.					-Explain Strategies to make physical activities accessible for children with special needs
APPLIED MATHEMATICS	**Probability:** * The concept of Random					

	Variables and its Probability Distributions					