



Annual Planner 2024-25 (Humanities)

Class : XI			Subject: English Core-301
Month	Unit/Book	Chapter	Topics
April	Introduction and Curriculum Overview Hornbill- Lesson 1	The Portrait of a Lady by Khushwant Singh (Hornbill) A Photograph by Shirley Toulson	I. The background knowledge of the author and his works would be given. II. Difficult words and terms would be discussed. The prose will be explained. III. All possible questions and answers would be discussed and assigned.
May	Creative Writing Skills Poetry:	Advertisement- Classified	I. Situation Vacant ii.situation wanted i. Theme ii.Figures of Speech
July	Lesson — 1 (Snapshots) Lesson 2-(Hornbill)	The Summer of the Beautiful White Horse by William Saroyan We're not Afraid to Die by Gordon Cook & Alan East (Hornbill)	Analysis of Plot, setting Character Sketch Textbook questions Vocabulary Exercises. Competency based questions. Integrated Grammar
August	Hornbill and Snapshots	•Discovering Tut: the Saga Continues •The Laburnum Top (Poem) • The Voice of the Rain (Poem)	Read, comprehend, identify & relate to real life situation. Understand, Identify & relate to the various themes. Figures of Speech

	Reading Skills	Note Making and Summary	
September	Snapshots	The Address by Marga Minco Poem-Childhood Speech Writing Poster Making	Snapshots: Mother's Day Writing: Speech Grammar: Editing, Omission
October	Hornbill Snapshot	The Adventure The Tale of melon City. (Poem) Silk Road	Hornbill: Silk Road, The Adventure Writing: Advertisement Discussion on theme & value-based Qs Group Activity & Individual activity - Worksheets
November	Snapshot Grammar	Mother's Day Father to Son Birth	Prose/ Poem- analysis of characters, plot and setting. Dramatization. Writing Skills: Debate Writing Grammar: Integrated Grammar
December		Revision	

Class: XI		Subject: History	
Month	Unit	Chapter	Topics
April	Unit I	Chapter 1: Writing and City Life.	<ul style="list-style-type: none"> • Mesopotamia and its Geography. • The Significance of urbanism. • Movement of Goods into Cities • The Development of writing. • The system of Writing • Literacy. • The uses of writing.
	Unit I	Chapter 1: Writing and City Life. Briefing of CBSE Project Work- Instructions, guidelines, Background reading Discussions on Themes.	<ul style="list-style-type: none"> • Urbanisation in Southern Mesopotamia. • Life in the City. • A trading town in a pastoral Zone. • Cities in Mesopotamian Culture. • The Legacy of writing
May	Unit II	Chapter 2: An Empire Across three continents.	<ul style="list-style-type: none"> • The Early Empire. • Politics in Roman Empire • The third-century Crisis • Gender, Literacy, Culture • Economic Expansion &.
	Unit II	Chapter 2: An Empire Across three continents. CBSE Project Work-Selection of the Final Topic, Initiation and Synopsis	<ul style="list-style-type: none"> • Controlling workers • Social Hierarchies & Late Antiquity
July	Unit II	Chapter 3: Nomadic empire CBSE Project Work- Planning and organization: forming an action Plan, feasibility or baseline study, Updating/modifying the action Plan, Data Collection.	<ul style="list-style-type: none"> • Social and Political background of Mongol Empire. • The career of Genghis Khan. • The Mongols after Genghis khan. • Social, Political and Military organisation. • Genghis Khan and the Mongols in world History
August	Unit III	Chapter 4: The Three Orders. CBSE Project Work- Updating/modifying the action Plan, Data Collection.	<ul style="list-style-type: none"> • Introduction to Feudalism. • France & England. • The Three orders. • The Second order. • The Manorial Estate. • The Knights. • The first Order • The Church and Society.

			<ul style="list-style-type: none"> • The Third Order • England
	Unit III	Chapter 4: The Three Orders.	<ul style="list-style-type: none"> • Factors affecting Social and Economic Relations. • A Fourth Order. • Cathedral- towns • The Crisis of the Fourteenth century
October	Unit III	Chapter 5: Changing Cultural Traditions CBSE Project Work- Content/data analysis and interpretation.	<ul style="list-style-type: none"> • The Revival of Italian Cities. • Universities and Humanism. • The Humanist view of History. • Science and philosophy: The Arabs' Contribution. • Artist and Realism • Architecture. • The First Printed Books. • A New concept of Human beings • The Aspiration of Women. • Debates within Christianity. • The Copernican Revolution. • Reading the Universe
November	Unit IV	Chapter 6: Displacing Indigenous Peoples. CBSE Project Work- work on Conclusion, Limitation, Suggestions & Bibliography of the project.	<ul style="list-style-type: none"> • European Imperialism • North America. • The Native People. • Encounters with Europeans. • Mutual Perceptions. • The native people Lose their Land. • The gold Rush and the Growth of Industries. • Constitutional Rights. • Australia • Winds of changes.

Month	Unit	Chapter	Topics
December	Unit IV	Chapter 7: Paths to Modernisation. CBSE Project Work- Work on Annexures and overall presentation of the project.	<ul style="list-style-type: none"> ● Japan -The Political System. ● The Meiji Restoration. ● Modernising the Economy. ● Industrial Workers ● Aggressive Nationalism. ● Westernisation and Tradition. ● Daily Life. ● Overcoming Modernity. ● China-Establishing the republic. ● The Rise of the communist party of China. ● Establishing the New Democracy: 1949-65.
January	Unit IV	Chapter 7: Paths to Modernisation. CBSE Project Work- Work on Annexures and overall presentation of the project.	<ul style="list-style-type: none"> ● Establishing the New Democracy: 1949-65. ● Conflicting Visions: 1965-78. ● The story of Taiwan. ● Two Roads to Modernisation.
February	Unit IV	REVISION FOR FINAL EXAMINATION CBSE Project Work-Final Assessment and VIVA	

May		<p>Chapter 2: Rights in the Indian Constitution</p> <p>Briefing of CBSE Project and selection of Topics.</p>	<p>a) The importance of rights Bill of Rights b) Fundamental rights in the Indian Constitution Right to Equality Right to Freedom Right against Exploitation Right to Freedom of Religion Cultural and Educational Rights Right to Constitutional Remedies c) Directive principles of state policy what do the directive principles contain? d) Relationship between fundamental rights and directive principles</p>
July		<p>Chapter 3: Election and Representation</p> <p>Chapter 4: Executive</p>	<p>1) Elections and democracy b) Election system in India First Past the Post System Proportional Representation c) Why did India adopt the FPTP system? d) Reservation of constituencies e) Free and fair elections Universal franchise and right to contest Independent Election Commission f) Electoral Reforms</p> <p>a) What is an executive? b) What are the different types of executives? c) Parliamentary executive in India Power and position of President Discretionary Powers of the President d) Prime Minister and Council of ministers e) Permanent Executive: Bureaucracy</p>
August		<p>PART B-POLITICAL THEORY</p> <p>Chapter 1: Political Theory: An Introduction</p> <p>Chapter 2 Freedom</p> <p>Follow up of Project</p>	<p>a) What is politics? b) What do we study in political theory? c) Putting Political theory into practice d) Why should we study political theory?</p> <p>a) The Ideal of freedom b) The sources of Constraints-Why do we need constraints? c) The Harm Principle d) Negative and Positive liberty</p>

October		Chapter 5:Legislature	<p>Legislature a) Why do we need a parliament? b) Why do we need two houses of parliament? Rajya Sabha Lok Sabha c) What does the parliament do? Powers of Rajya Sabha</p> <p>Special Powers of Rajya Sabha d) How does the parliament make laws? e) How does the parliament control the executive? f) What do the committees of parliament do? g) How does the parliament regulate itself?</p>
November		<p>Chapter 3: Equality</p> <p>Chapter 4: Social Justice</p>	<p>a) Why does equality matter?</p> <ul style="list-style-type: none"> ● Equality of opportunities ● Natural and Social Inequalities <p>b) Three dimensions of equality</p> <p>c) Feminism, Socialism</p> <p>d) How can we promote equality?</p> <p>a) What is Justice?</p> <ul style="list-style-type: none"> ● Equal Treatment for Equals ● Proportionate Justice ● Recognition of Special Needs <p>b) Just distribution</p> <p>c) John Rawls Theory of Justice</p> <p>d) Pursuing Social Justice</p> <p>e) Free Markets versus State Intervention</p>
December		Chapter 6: Judiciary	<p>a) Why do we need an independent judiciary? Independence of Judiciary Appointment of Judges Removal of Judges b) Structure of the Judiciary c) Jurisdiction of supreme Court Original Jurisdiction Writ Jurisdiction Appellate Jurisdiction Advisory Jurisdiction d) Judicial Activism e) Judiciary and Rights f) Judiciary and Parliament</p> <p>a) What is Federalism? b) Federalism in the Indian Constitution Division of Powers c) Federalism with a strong central government d) Conflicts in India's federal system Centre-State Relations Demands for Autonomy Role of Governors and President's Rule Demands for New States Interstate</p>

		<p>Chapter 7: Federalism</p> <p>Chapter 8: Local Governments</p>	<p>Conflicts e) Special provisions Jammu and Kashmir</p> <p>a) Why local governments? b) Growth of Local Government in India Local Governments in Independent India c) 73rd and 74th amendments d) 73rd Amendment Three Tier Structure</p> <p>Elections Reservations Transfer of Subjects State Election Commissioners State Finance Commission e) 74th Amendment f) Implementation of 73rd and 74th Amendments</p>
January		<p>Chapter 5: Rights</p> <p>Chapter 6: Citizenship</p> <p>Chapter 7: Nationalism</p> <p>Chapter 8: Secularism</p>	<p>a) What are Rights? b) Where do rights come from? c) Legal rights and the state d) Kinds of rights e) Rights and responsibilities</p> <p>a) Introduction b) Full and equal membership c) Equal Rights d) Citizen and Nation e) Universal Citizenship f) Global Citizenship</p> <p>a) Introducing Nationalism</p> <p>b) Nations and Nationalism ● Shared Beliefs ● History ● Shared National Identity c) National self-determination d) Nationalism and Pluralism</p> <p>a) What is Secularism? ● Inter-religious Domination ● Intra-religious Domination b) Secular State c) The western model of secularism d) The Indian model of secularism</p> <p>e) Criticisms of Indian secularism ● Western Import ● Minoritism ● Interventionist ● Vote Bank Politics</p>
February		Revision	
March		Annual Examination	

Class: XI		Subject: Psychology	
Month	Unit	Chapter	Topics
April	CHAPTER -1	WHAT IS PSYCHOLOGY?	Psychology as a Discipline, Psychology as a Natural Science, Psychology as a Social Science, Understanding Mind and Behaviour, Popular notions about the discipline of Psychology, Evolution of Psychology, Branches of Psychology, Psychology and Other Disciplines, Psychology in Everyday Life
	CHAPTER -2	METHODS OF ENQUIRY IN PSYCHOLOGY	Goals of Psychological Enquiry, Steps in Conducting Scientific Research, Nature of Psychological Data, Observational Method, Experimental Method, Correlational Research, Survey Research, Psychological Testing, Case Study, Analysis of Data: Quantitative Method and Qualitative Method, Limitations of Psychological Enquiry, Ethical Issues.
May	CHAPTER -4	HUMAN DEVELOPMENT	Meaning of Development, Life-Span Perspective on Development, Factors Influencing Development, Prenatal Stage, Infancy, Childhood, Gender and Sex Roles, Challenges of Adolescence, Adulthood and Old Age.
	PRACTICAL	PRACTICAL ON SERIAL VERBAL LEARNING.	To study the effect of Nonsense syllables on Serial Verbal Learning.
July	CHAPTER -5	SENSORY, ATTENTIONAL AND PERCEPTUAL PROCESSES	Knowing the World, Attentional Processes, Selective Attention, Divided Attention, Sustained Attention, Span of Attention, Perceptual Processes, The Perceiver, Principles of Perceptual Organisation, Perception of Space, Depth, and Distance, Monocular Cues and Binocular Cues, Perceptual Constancies, Illusions, Socio-Cultural Influences on Perception.

August	CHAPTER -6	LEARNING	Nature of Learning, Classical Conditioning, Determinants of Classical Conditioning, Operant/Instrumental Conditioning, Determinants of Operant Conditioning, Key Learning Processes, Observational Learning, Cognitive Learning, Verbal Learning, Skill Learning, Concept Learning, Factors Facilitating Learning, Learning Disabilities.
October	CHAPTER -7	HUMAN MEMORY	Nature of Memory, Information Processing Approach: The Stage Model Memory Systems, Levels of Processing, Types of Long-term Memory, Declarative and Procedural; Episodic and Semantic, Nature and Causes of Forgetting, Forgetting due to Trace Decay, Interference and Retrieval Failure, Enhancing Memory, Mnemonics using Images and Organisation.
	CHAPTER -8	THINKING	Building Blocks of Thought, Problem Solving, Reasoning, Decision-making, Nature and Process of Creative Thinking, Nature and Process of Creative Thinking, Thought and Language, Development of Language and Language Use.
November	CHAPTER -9	MOTIVATION AND EMOTION	Nature of Motivation, Types of Motives: Biological Motives & Psychosocial Motives, Maslow's Hierarchy of Needs, Nature of Emotions, Expression of Emotions, Culture and Emotional Expression, Managing Negative Emotions, Enhancing Positive Emotions.
	PRACTICAL	PRACTICAL ON INTERFERENCE EFFECT	To study the effect of Interference on Free recall of Nonsense syllables.
December & January	REVISION		
February	TERM II EXAMINATION		

Class : XI		Subject: ECONOMICS	
Month	Unit	Chapter	Topics
APRIL	Unit:1	Introduction & meaning and scope of statistics	What is Economics? Meaning, scope, functions and importance of statistics in Economics
MAY	Unit :4	Introduction	Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of Production Possibility Frontier and Opportunity Cost.
JULY	Unit :5	Consumer's Equilibrium and Demand	Consumer's equilibrium - meaning of Utility, Marginal Utility, Law of Diminishing Marginal Utility, conditions of consumer's equilibrium using marginal utility analysis. Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium. 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.
	UNIT TEST	Unit:1 Statistics Unit :4 Micro Economics	
AUGUST	Unit :7	Price Determination and simple applications.	Determination of market equilibrium and effects of shifts in demand and supply. (Short Run Only) Simple Applications of Demand and Supply: Price ceiling, Price floor.
	Unit :2	Collection, Organisation and Presentation of data	Collection of data - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation. Organisation of Data: Meaning and types of variables; Frequency Distribution. Presentation of Data: Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency

			diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph).
SEPTEMBER		REVISION	Term 1 syllabus:- Unit 1, Unit 2, Unit 4, Unit 5 & Unit 7,
OCTOBER	Unit 6	Producer Behaviour and Supply	Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor 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. Revenue – Total Revenue, Average Revenue 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 shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method.
NOVEMBER	Unit 7	Perfect Competition	Perfect competition - Features.
	Unit 3	Statistical Tools and Interpretation	Measures of Central Tendency- Arithmetic mean, Median and Mode
DECEMBER	Unit 3	Statistical Tools and Interpretation	Correlation – meaning and properties, scatter diagram; measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation (Non-Repeated Ranks and Repeated Ranks).
JANUARY	Unit 3		Introduction to Index Numbers - meaning, types - Wholesale Price Index, Consumer Price Index and index of industrial production, uses of index numbers; Inflation and Index Numbers, Simple Aggregative Method.
FEBRUARY		REVISION	Complete syllabus

Class: XI			Subject: Entrepreneurship
Month	Unit	Chapter	Topics
April	Unit 1	Ch-1 Entrepreneurship: Concept and Functions	<ul style="list-style-type: none"> • Entrepreneurship – Concept, Functions and Need • Why Entrepreneurship for You • Myths about Entrepreneurship • Advantage and Limitations of Entrepreneurship • Process of Entrepreneurship • Entrepreneurship – The Indian Scenario • Project work guidelines to be given to the students on ‘Consumer demand survey on buying habits of’ so that they can choose their topic and start project work.
May	Unit 2	Ch-2 An Entrepreneur	<ul style="list-style-type: none"> • Why be an entrepreneur • Types of Entrepreneurs • Competencies and characteristics • Entrepreneurial Values, Attitudes and Motivation • Intrapreneur: Meaning and Importance
July	Unit 3	Ch-3 Entrepreneurship Journey	<ul style="list-style-type: none"> • Idea generation. • Feasibility Study and opportunity assessment • Business Plan: meaning, purpose and elements • Execution of Business Plan
	1-Unit Test Syllabus	Ch- 1and 2 (Entrepreneurship: Concept and Functions, An Entrepreneur)	
August	Unit 4	Ch-4 Entrepreneurship as Innovation and Problem Solving	<ul style="list-style-type: none"> • Entrepreneurs as problem solvers • Innovations and Entrepreneurial Ventures – Global and Indian • Role of Technology – E-commerce and Social Media • Social Entrepreneurship - Concept
September		Term 1 exam syllabus Ch- 1-4	Practical; Project File (Questionnaire) and Viva vice
October	Unit 5	Understanding the Market	<ul style="list-style-type: none"> • Market: Concept, Types • Micro and Macro Market Environment • Market Research - Concept, Importance and Process • Marketing Mix
	2-Unit Test	Ch-4& 5(Entrepreneurship as Innovation and Problem Solving, Understanding the Market)	

November	Unit 6	Business Finance and Arithmetic	<ul style="list-style-type: none"> • Unit of Sale, Unit Price and Unit Cost – for single product or service • Types of Costs - Start up, Variable and Fixed • Break Even Analysis - for single product or service
December	Unit 7	Resource Mobilization	<ul style="list-style-type: none"> • Types of Resources – Physical, Human, Financial and Intangible. • Selection and utilization of human resources and professionals like Accountants, Lawyers, Auditors, Board Members etc.
	3-Unit Test	Ch-6, 7 (Business Finance and Arithmetic & Resource Mobilization)	
January	Project work and revision	Sample Papers	Project work
February	Revision And Project Work	Sample Papers	
	2-Term Exam	Ch-1-7	Practical Exam- Project File & Viva Vice

Class XI (Theory)			Subject: Physical Education (048)
MONTH	UNIT	Chapter	TOPICS
APRIL	Unit I: Changing Trends and Careers in Physical Education:	Changing Trends and Careers in Physical Education:	<ol style="list-style-type: none"> 1. Concept, Aims & Objectives of Physical Education 2. Development of Physical Education in India – Post Independence 3. Changing Trends in Sports- playing surface, wearable gear and sports equipment, technological advancements 4. Career options in Physical Education 5. Khelo-India Program and Fit – India Program
MAY	Unit II: Olympism Value Education	Olympism Value Education	<ol style="list-style-type: none"> 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 Modern Olympics 4. Olympics - Symbols, Motto, Flag, Oath, and Anthem 5. Olympic Movement Structure - IOC, NOC, IFS, Other members
JULY	Unit III: Yoga	Yoga	<ol style="list-style-type: none"> 1. Meaning and importance of Yoga 2. Introduction to Astanga Yoga 3. Yogic Kriyas (Shat Karma) 4. Pranayama and its type 5. Active Lifestyle and stress management through Yoga
AUGUST	Unit IV: Physical Education and Sports for Children with Special Needs	Physical Education and Sports for Children with Special Needs	<ol style="list-style-type: none"> 1. Concept of Disability and Disorder 2. Types of Disability, its causes & nature (Intellectual disability, Physical disability). 3. Disability Etiquette 4. Aim and objectives of Adaptive Physical Education 5. Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist, and Special Educator)
	Unit V: Physical Fitness, Wellness, and Lifestyle	Physical Fitness, Wellness, and Lifestyle	<ol style="list-style-type: none"> 1. Meaning & importance of Wellness, Health, and Physical Fitness 2. Components/Dimensions of Wellness, Health, and Physical Fitness 3. Traditional Sports & Regional Games for promoting wellness 4. Leadership through Physical Activity and Sports 5. Introduction to First Aid – PRICE

MONTH	UNIT	CHAPTERS	TOPIC
OCTOBER	Unit VI: Test, Measurement & Evaluation	Test, Measurement & Evaluation	<ol style="list-style-type: none"> 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
NOVEMBER	Unit VII: Fundamentals of Anatomy, Physiology in Sports	Fundamentals of Anatomy, Physiology in Sports	<ol style="list-style-type: none"> 1. Definition and importance of Anatomy and Physiology in Exercise and Sports 2. Functions of Skeletal System, Classification of Bones, and Types of Joints 3. Properties and Functions of Muscles 4. Structure and Functions of Circulatory System and Hear 5. Structure and Functions of Respiratory System
	Unit VIII: Fundamentals Of Kinesiology And Biomechanics in Sports	Fundamentals Of Kinesiology And Biomechanics in Sports	<ol style="list-style-type: none"> 1. Definition and Importance of Kinesiology and Biomechanics 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 body movements

DECEMBER	Unit IX: Psychology and Sports	Psychology and Sports	<ol style="list-style-type: none"> 1. Definition & Importance of Psychology in Physical Education & Sports 2. Developmental Characteristics at Different Stages of Development; 3. Adolescent Problems & their Management 4. Team Cohesion and Sports 5. Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness
JANUARY	Unit X: Training & Doping in Sports	Training & Doping in Sports	<ol style="list-style-type: none"> 1. Concept and Principles of Sports Training 2. Training Load: Over Load, Adaptation, and Recovery 3. Warming-up & Limbering Down – Types, Method & Importance 4. Concept of Skill, Technique, Tactics & Strategies 5. Concept of Doping and its disadvantages
FEBRUARY	REVISION		
MARCH	PRACTICAL/ FINAL EXAMINATION		
Physical Education Test 1. Fitness Test – SAI Khelo India Fitness Test in school Age group 5-8 years/ class 1-3: BMI, Flamingo Balance Test		ACTIVITIES: <ol style="list-style-type: none"> 1. Proficiency in Games and Sports (Skill of any one IOA recognized Sport/Game of Choice) 2. Yogic Practices 3. Record File 4. Viva Voce (Health/ Games & Sports/ Yoga) 	

Class : XI			Subject: Mathematics
Month	Unit	Chapter	Topics
April	Sets	Sets	Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.
May	<ol style="list-style-type: none"> Linear Inequalities Relations and Functions 	<ol style="list-style-type: none"> Linear Inequalities Relations and Functions 	<p>Linear Inequalities:</p> <p>Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variables</p> <p>Relations & Functions:</p> <p>Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (up to $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.</p>
July	Trigonometric Functions	Trigonometric Functions	<p>Trigonometric Functions:</p> <p>Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications. Deducing identities like the following:</p> $\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y},$ $\cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x},$ $\sin \alpha \pm \sin \beta = 2 \sin \frac{1}{2}(\alpha \pm \beta) \cos \frac{1}{2}(\alpha \mp \beta)$ $\cos \alpha + \cos \beta = 2 \cos \frac{1}{2}(\alpha + \beta) \cos \frac{1}{2}(\alpha - \beta)$ $\cos \alpha - \cos \beta = -2 \sin \frac{1}{2}(\alpha + \beta) \sin \frac{1}{2}(\alpha - \beta)$

			Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$. General solution of trigonometric equations of the type $\sin y = \sin a$, $\cos y = \cos a$ and $\tan y = \tan a$.
August	1. Principle of Mathematical Induction 2. Complex Numbers and Quadratic Equations 3. Binomial Theorem	1. Principle of Mathematical Induction 2. Complex Numbers and Quadratic Equations 3. Binomial Theorem	Principle of Mathematical Induction: Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications. Permutations and Combinations: Fundamental principle of counting. Factorial n . $(n!)$ Permutations and combinations, derivation of Formulae for ${}^n P_r$ and ${}^n C_r$ and their connections, simple applications. Binomial Theorem: Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, General and middle term in binomial expansion, simple applications.
September			
October	1. Sequence and Series 2. Straight Lines	1. Sequence and Series 2. Straight Lines	Sequence and Series: Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M. Formulae for the following special sums. Straight Lines: Brief recall of two-dimensional geometry from earlier classes. Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.
November	1. Conic Sections 2. Introduction to Three-dimensional	1. Conic Sections 2. Introduction to Three-dimensional	Conic Sections: Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle. Introduction to Three-dimensional Geometry: Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.
December	1. Statistics 2. Probability	1. Statistics 2. Probability	Statistics: Measures of Dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

			<p>Probability: Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.</p>
January	Limits and Derivatives	Limits and Derivatives	<p>Limits and Derivatives: Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relateit to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions..</p>

INFORMATICS PRACTICES

Month	Unit	Chapter	Topics
April & May	Unit 3: Database concepts and the Structured Query Language	Chapter 7 Database Concepts	<ul style="list-style-type: none"> • Introduction • File System • Database Management System • Relational Data Model • Keys in a Relational Database
April & May	Unit 3: Database concepts and the Structured Query Language	Chapter 8 Introduction to Structured Query Language (SQL)	<ul style="list-style-type: none"> • Introduction • Structured Query Language (SQL) • Data Types and Constraints in MySQL • SQL for Data Definition • SQL for Data Manipulation • SQL for Data Query • Data Updation and Deletion
April & May	Unit 3: Database concepts and the Structured Query Language	Chapter 5 Understanding Data	<ul style="list-style-type: none"> • Introduction to Data • Data Collection • Data Storage • Data Processing • Statistical Techniques for Data Processing
July	Unit 2: Introduction to Python	Chapter 3 Brief Overview of Python	<ul style="list-style-type: none"> • Introduction to Flow charts • Introduction to Python • Python Keywords • Identifiers • Variables • Data Types • Operators • Expressions • Input and Output • Debugging • Functions and its types • if..else Statements
August	Unit 2: Introduction to Python	Chapter 3 Brief Overview of Python	<ul style="list-style-type: none"> • for Loop • While Loop • Nested Loops

August	Unit 2: Introduction to Python	Chapter 4 Working with Lists and Dictionaries	<ul style="list-style-type: none"> • Introduction to List • List Operations • Traversing a List • List Methods and Built-in Functions • List Manipulation
September	Term I Assessment (Practical + Practical File + Viva+ Written)		
October	Unit 2: Introduction to Python	Chapter 4 Working with Lists and Dictionaries	<ul style="list-style-type: none"> • Introduction to Dictionaries • Traversing a Dictionary • Dictionary Methods and Built-in Functions • Manipulating Dictionaries
October	Unit 2: Introduction to Python	Chapter 6 Introduction to NumPy	<ul style="list-style-type: none"> • Introduction • Array • NumPy Array • Indexing and Slicing
November	Unit 2: Introduction to Python	Chapter 6 Introduction to NumPy	<ul style="list-style-type: none"> • Operations on Arrays • Concatenating Arrays • Reshaping Arrays • Splitting Arrays • Statistical Operations on Arrays • Introduction to CSV files
December	Unit 1: Introduction to Computer System	Chapter 1 Computer System	<ul style="list-style-type: none"> • Computer System • Introduction to Computer System • Evolution of Computer • Computer Memory • Software
January	Unit 4: Introduction to the Emerging Trends	Chapter 2 Emerging Trends	<ul style="list-style-type: none"> • Emerging Trends • Introduction to Emerging Trends • Artificial Intelligence (AI) • Big Data • Internet of Things (IoT) • Cloud Computing • Grid Computing • Blockchains

February			• Revision
March	Term II Assessment (Practical + Practical File + Viva + Project File)		

FASHION STUDIES

Months	Teaching Days	Topics	Activities
April	Tuesday & Wednesday only	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 1 Overview of Fashion</p> <p>1.1 Understanding Fashion</p> <p>1.2 Factors Influencing Fashion</p> <ul style="list-style-type: none"> • Economics factors • Psychological factors • Social & Cultural factors • Textiles <p>CHAPTER 3 - Design Fundamentals</p> <p>3.1 Design, Designer and Design Process</p> <p>Designer</p> <p>Design concept</p> <p>The Design process</p> <p>3.2 Elements of Design</p> <ul style="list-style-type: none"> • Point • Line <p>Vertical, horizontal, Curved, Broken, zigzag, staircase, spiral, Mountains, dashed-dotted, jagged etc.</p>	<p>Observe and analyse the Selected area and identify the Elements of design.</p> <p>Design develops by points and make a composition with different size of dots or bindi or flat pearls</p> <p>Draw different types of lines on A block size of 4x4’’</p> <p>Develop a design using different types of lines with black pen, marker and sketch pens.</p> <p>Make a composition of lines with different colour mediums.</p>

<p>May</p>	<p>Tuesday & Wednesday only</p>	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 1 Overview of Fashion</p> <p>1.1 Understanding Fashion</p> <p>1.2 Factors Influencing Fashion</p> <ul style="list-style-type: none"> • factors • Geographical factors • Technological advancement in Textiles <p>1.3 Key concept and terminology</p> <p>1.4 Movement and direction of fabric</p> <p>CHAPTER 3 - Design Fundamentals</p> <p>3.1 Design, Designer and Design Process</p> <p>3.2 Elements of Design</p> <ul style="list-style-type: none"> • Shapes Natural, geometric and abstract shapes • Texture • Space 	<p>Make a composition of lines with different colour mediums.</p> <p>Draw different types of shapes in a block size of 4x4’’</p> <p>Create textures from different Material on a block size of 4x4’’</p>
<p>July</p>	<p>Tuesday & Wednesday only</p>	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 1 Overview of Fashion</p> <p>1.3 Key concept and terminology</p> <p>1.4 Movement and direction of fabric</p> <p>1.5 Theories of fashion movement</p> <p>1.6 Consumer segment</p> <p>1.7 International trade in fashion</p> <p>1.8 Fashion regularity bodies in India</p> <p>CHAPTER 3 - Design Fundamentals</p> <p>3.3 Colour theory and Psychology of colours</p> <ul style="list-style-type: none"> • Hue ,Tint, Tones and Shades 	<p>Collect the information of famous Indian designers. Write about any one Indian designer who has a main label and pret label.</p> <p>Sketch any 1 object four times. Apply 4 colour schemes to each of them.</p>

		<ul style="list-style-type: none"> • Colour Theory: The Prang System • Colour Schemes <p>3.4 Colour Palette</p> <p>3.5 Colour Psychology</p> <p>BOOK 2- Employability Skills</p> <p>UNIT –I Communication Skills III</p> <ul style="list-style-type: none"> • Introduction to communication • Verbal & non-verbal communication • Communication Styles • Writing skills-part of speech & sentences • Greetings and introduction 	
<p>August</p>	<p>Tuesday & Wednesday only</p>	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 2 – Introduction to Fabrics, Dyeing & Printing</p> <p>2.1 Introduction: Textile Fibers</p> <p>2.2 Classification of Textile Fibres</p> <ol style="list-style-type: none"> i. Natural fibres ii. Manmade fibres iii. High performance fibers <p>2.3 Yarns</p> <p>CHAPTER 3 - Design Fundamentals</p> <p>3.6 Principles of Design</p> <ul style="list-style-type: none"> • Rhythm • Balance • Emphasis • Contrast • Proportion <p>3.7 Illustration Apparel on fashion figure</p> <ul style="list-style-type: none"> • The Block figure • Relative proportion of normal and fashion figure. • Steps to develop a pose from line Drawing to the croquis. <p>BOOK 2- Employability Skills</p>	<p>Collect 5 different types of fibers and write down their properties and applications.</p> <p>Observe and analyse the Selected normal forms and Identify the Principles of Design.</p> <p>Steps to develop a pose from line drawing to the croquis.</p>

		<p>UNIT-2- Self- management skills</p> <p>UNIT 3- ICT Skills</p>	<ul style="list-style-type: none"> • Strength and weakness analysis • Grooming and personal hygiene • Team Work • Networking Skills • Self- management • Goal setting and Time management <ul style="list-style-type: none"> • Introduction to ICT • Basic Interface of Liber Office Writer • Saving, closing, opening & printing <p>Document. Formatting Text in a Word Document.</p> <ul style="list-style-type: none"> • Checking spelling & grammar, Inserting Lists, tables, Pictures &shapes. • Header, Footer and page number
September	Tuesday & Wednesday only	REVISION for Mid-Term	
October	Tuesday & Wednesday only	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 2 – Introduction to Fabrics, Dyeing & Printing</p> <p>2.3 Yarns</p> <p>2.4 Weaving</p> <p style="padding-left: 20px;">i. Weaving process</p> <p style="padding-left: 20px;">ii. Weave structure</p> <p>2.5 Dyeing</p> <p style="padding-left: 20px;">i. Classification of dyes</p> <p style="padding-left: 20px;">ii. Natural dyes</p> <p style="padding-left: 20px;">iii. Synthetic dyes</p> <p style="padding-left: 20px;">iv. General theory of dyeing</p> <p>CHAPTER 4 - Elements of Garment Making</p>	<p>Open any one yarn by untwisting it and remove the fibres or the filaments to observe the process of yarn Formation.</p> <p>Burning test of different fibers.</p> <p>Visit the market and identify various sewing machines from</p>

4.1 Elements of Garment Making

- Sewing Machine
 - i. Lock Stitch Machine
 - ii. Types of Lock Stitch Machine
 - iii. Parts of Sewing Machine
 - iv. Threading the Machine
- 4.2 Sewing Tools and Safety Rules
 - i. Safety Rules
 - ii. Sewing Tools and Equipment and their uses
- 4.3 Common Machine Problems
- 4.4 Operating Power Machine and Domestic Machine

BOOK 2- Employability Skills
UNIT 4- Entrepreneur Skills

different brands and note their prices. Co-relate the prices with the functions that a machine can perform. Prepare a short report of about 5-6 pages.

Familiarize with sewing Machine
Objective:- To Stitch on Paper Practicing on machine
Doing machine exercises on paper
Working on paper without thread

- Introduction to Entrepreneurship
- Values of Entrepreneur
- Attitude of an Entrepreneur
- Thinking like an Entrepreneur
- Coming up with Business Idea
- Understanding the Market
- Business Planning

<p>November</p>	<p>Tuesday & Wednesday only</p>	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 2 – Introduction to Fabrics, Dyeing & Printing</p> <p>2.6 Printing</p> <ol style="list-style-type: none"> i. Theory of printing ii. Methods of printing iii. Transfer printing iv. Digital printing <p>CHAPTER 4 - Elements of Garment Making</p> <p>4.5 Hand Stitches:-</p> <ol style="list-style-type: none"> i. Temporary Stitches ii. Permanent Stitches iii. Decorative Stitches <p>4.6 Seam</p> <ol style="list-style-type: none"> i. Plain Seam ii. Curved Seam iii. Cornered Seam iv. Seam Finishes v. Self-Enclosed seams vi. Top Stitching Seams 	<p>Study the print design from printed fabric samples. Sketch the print design on Paper and write down how Many dyes have been used to Print the design.</p> <p>Making Samples of Hand stitches on cotton fabric or poplin fabric and window mounting all the samples on A/4 size pastel sheets with necessary information on it.</p> <p>Making samples of machine seams on poplin fabric .sample size 10”X10”</p>
<p>December</p>	<p>Tuesday & Wednesday only</p>	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 2 – Introduction to Fabrics, Dyeing & Printing</p> <p>Fabric Samples:</p> <ol style="list-style-type: none"> 1. Cotton ,wool,silk, polyester and nylon 2. Weaving samples :- Plain weave, Twill weave and Satin weave 3. 5 printed samples of the following printing techniques : <p>Block printing Screen printing Digital printing</p>	<p>Observe the type of print , colour, thickness, feel and the comfort properties of each sample.</p>

		<p>4. Any 20 samples consisting of different types of weaves, prints, structure etc.</p> <p>CHAPTER 4 - Elements of Garment Making</p> <p>4.7 Seam with Fullness</p> <ol style="list-style-type: none"> i. Eased Seam ii. Gathered Seam <p>4.8 Pleats:-</p> <ul style="list-style-type: none"> Side Pleats /Knife Pleats Box Pleats Inverted Box Pleats Kick Pleats <p>Accordion Pleats</p>	<p>Making samples of machine seams on poplin fabric .sample size 10”X10”</p> <p>Making samples of pleats on fine cotton fabric. Sample size 10x10</p>
<p>January</p>	<p>Tuesday & Wednesday only</p>	<p>BOOK -1 –FASHION STUDIES</p> <p>CHAPTER 4 - Elements of Garment Making</p> <p>4.9 Tucks</p> <p>Pin Tucks</p> <ul style="list-style-type: none"> Space Tucks Blind Tucks Crossed Tucks Released Tucks <p>4.10 Fashion Products</p> <ul style="list-style-type: none"> • Introduction to the fashion industry • Home fashion products • Unstitched category of home textile, apparel and floor covering • Traditional Indian products of leather <p>BOOK 2- Employability Skills</p> <p>UNIT 5- Green Skills</p>	<p>Making samples of Tucks on fine cotton fabric. Sample size 10x10</p> <ul style="list-style-type: none"> • Sectors of Green Economy • Policies for a Green Economy • Stakeholders in Green Economy

			<ul style="list-style-type: none">• Government and Private Agencies
February	Tuesday & Wednesday only	FINAL SUBMISSION OF FILES AND ASSIGNMENTS Practical Examination REVISION FOR FINAL TERM	

