

DAV INSTITUTIONS, JHARKHAND ZONE - H

Class XII (Session 2025-26)

SUB: - APPLIED MATHEMATICS CLASS-XII SESSION 2025-26

APRIL

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Numbers, Quantification And Numerical Applications	Modulus of an integer, Congruence modulo, Different types problem related to numerical applications.		6
2 nd	Numbers, Quantification And Numerical Applications	Upstream and down Stream, Pipes and cisterns, Races & Games.		6
3 rd	Matrices	Types of Matrices	Video showing: which shows real life application of matrix, ppt to explain the definition matrix and its type	6
4 th	Matrices	Addition and Multiplication of matrices	1. Mind maps 2. Worksheet 3. Quiz	5

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Determinants	Minor, cofactor		6
2 nd	Determinants	Cramer's rules and Matrix method		7
3 rd		SUMMER VACATION		
4 th		SUMMER VACATION		

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		SUMMER VACATION		
2 nd		SUMMER VACATION		
3 rd	Higher order derivatives	Derivative of implicit and parametric function, Second order derivatives		7
4 th	Application of Derivatives	Increasing and decreasing function, Tangents and normals		8

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Application of Derivatives	Rate of change, Maxima and Minima		6

2 nd	INFERENTIAL STATISTICS	t-Test (one sample t-test and two independent groups t-test		6
3 rd	INDEX NUMBERS AND TIME BASED DATA	Time Series analysis for univariate data, Methods of Measuring trend		5
4 th	Integration	Introduction & Intregation by substitution, Intregation by parial fraction and by parts		7

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Integration	Definite intregation, Properties of definite Intregation		6
2 nd	Application of Integration	Area between the two curves	1. Mind maps 2. Worksheet 3. Quiz	6
3 rd	FINANCIAL MATHEMATICS	Perpetuity, Sinking Funds,		7
4 th	FINANCIAL MATHEMATICS	Calculation of EMI		5

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		REVISION		
2 nd		REVISION & MID TERM EXAM.		
3 rd		REVISION & MID TERM EXAM.		
4 th		REVISION & MID TERM EXAM.		

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	FINANCIAL MATHEMATICS	Calculation of Returns, Nominal Rate of Return, Compound Annual Growth Rate		5
2 nd	Linear programming	Solution by grapihal method, Formulation of LPP		8
3 rd	Linear programming	Solution by grapihal method, Formulation of LPP		5
4 th	Differential Equations	Order and degree		5

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Differential Equations	Order and degree		4
2 nd	Differential Equations	Solution of differential equation		6
3 rd	Probability	Probability distribution and Bionomial distribution		7

4 th	Probability	Poisson distribution and Normal distribution		6
DECEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
JANUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
FEBRUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
MARCH				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
SUB: - CHEMISTRY CLASS-XII SESSION 2025-26				
APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Solution	Solution : Types of solution , Expression of concentration of solutions of solids in liquid,solid solutions .	Surface chemistry : preparation of one lyophilic and one lyophobic solution . Lyophilic sol- starch,egg albumin and gum.Lyophobic sol- aluminium hydroxide,arsenous sulphide	7

2 nd	Solution	Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure.	Dialysis of sol- prepared in the above experiment.	7
3 rd	solution	Determination of molecular masses using colligative properties, abnormal molecular mass, van't Hoff factor.	Study of the role of emulsifying agents in stabilizing the emulsion of different oils.	7
4 th	Electrochemistry	Redox reactions, EMF of a cell, standard electrodes potential, Nernst equation and its application to chemical cells	preparation of inorganic compounds: preparation of double salts of Ferrous Ammonium Sulphate or Potash Alum. Preparation of potassium ferric oxalate.	7

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Electrochemistry	Relation between Gibbs energy change and EMF of a cell, Conductance in electrolytic solutions. specific and molar conductivity, conductances in electrolytic solutions.	preparation of organic compounds: preparation of any one of the following compounds. acetanilide, Di- benzal Acetone, P- Nitroacetanilide, Aniline yellow or 2- Naphthol Anilinedye	
2 nd	Electrochemistry	Kohlrausch's law. electrolysis and law of electrolysis(elementary idea only), dry cell- electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion	Characteristics tests of carbohydrates, proteins and fats in pure sample and their detection in given foodstuffs	
3 rd		SUMMER VACATION		
4 th		SUMMER VACATION		

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		SUMMER VACATION		
2 nd		SUMMER VACATION		
3 rd	Chemical Kinetics	Rate of reactions (average and instantaneous), factors affecting rate of reaction: Concentration, temperature, catalyst. Order and molecularity of a reaction.	Revision of practicals of previous months.	8

4 th	Chemical kinetics	Rate law and specific rate constant,integrated rate equations and half - life(only for zero and first order reactions.) concept of collision theory(elementary idea, no mathematical treatment). activation energy,Arrhenius equation. Numericals.	Chemical Kinetics: Effects of concentration and temperature on the rate of reaction between Sodium Thiosulphate and hydrochloric acid.	8
-----------------	-------------------	--	---	---

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	d and f block elements	General introduction , electronic configuration , occurrence and characteristics of transition metals, General trends in properties of the first row transition metals- metallic character, ionisation enthalpy, oxidation states,ionic radii,colour.	Study of reaction rates of any one of the following:i) Reaction of Iodide ion with Hydrogen peroxide at room temperature using different concentrations of iodide ions.ii) Reaction between potassium iodate and Sodium Sulphate using starch solution as an indicator (clock reaction)	8
2 nd	d and f block elements	catalytic property, magnetic properties,interstitial compounds, alloys formation. preparation and properties of K ₂ Cr ₂ O ₇ and KMnO ₄ .	Thermochemistry: Any one of the following experiments.a) Enthalpy of dissolution of copper sulphate or potassium nitrate b)Enthalpy of neutralization of strong acid(HCl) and Strong base(NaOH).c) Determination of enthalpy of change during interaction between acetone and chloroform.	
3 rd	d and f block elements	Lanthanoids: Electronic configuration, oxidation states ,Chemical reactivity and lanthanoids contraction and its consequences . Actinoids: Electronic configuration , oxidation states and comparison with lanthanoids.	Chromatography: separation of pigments from extracts of leaves and flowers by paper chromatography and determination of R _f values	

4 th	coordination compounds	Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds.	Chromatography: Separation of constituents present in an inorganic mixture containing two cations only(constituents having large difference in R _f values to be provided.	12
-----------------	------------------------	---	--	----

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Coordination Compounds	Bonding, Warner's Theory, VBT and CFT , structure and stereoisomerism . The importance of coordination compounds (in qualitative analysis, extraction of metals and biological system.)	Variation of cell potential in Zn/ Zn ²⁺ //Cu ²⁺ / Cu with change in concentration of electrolytes (CuSO ₄ or ZnSO ₄) at room temperature.	8
2 nd	Haloalkane and haloarenes	Haloalkanes: Nomenclature , nature of C- X bond, physical properties of haloalkane, chemical properties of haloalkanes, optical rotation.	Preparation of Standard solution of Oxalic acid	8
3 rd	Haloalkane and Haloarenes	Mechanism of substitution reactions. Nature of C- X bond of haloarenes, substitution reactions (directive influence of halogens in monosubstituted compounds only. uses and environmental effects of dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	Determination of concentration/ molarity of KMnO ₄ solution by titrating it against a standard solution of Oxalic acid.	8
4 th	Alcohols, Phenols and Ethers.	Alcohols : Nomenclature, methods of preparation, physical and chemical properties (primary alcohols only), Identification of primary , secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol.	Preparation of Standard solutions of Mohr's salt(Ferrous Ammonium Sulphates). Determination of concentration/ molarity of KMnO ₄ solution by titrating it against a standard solution of Ferrous Ammonium Sulphate.	10

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		Revision / Mid Term Exam		
2 nd		Revision / Mid Term Exam		
3 rd		Revision / Mid Term Exam		
4 th		Revision / Mid Term Exam		

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
------	---------	-------	----------	-------------------------

1 ST	Alcohols, Phenols and Ethers.	Phenols: Nomenclature of phenols, methods of preparation, physical properties of phenol chemical properties of phenol , chemical properties of phenols .	Qualitative analysis: Determination of one anion and one cation . Cation: Pb ²⁺ , Cu ²⁺ , As ³⁺ , Al ³⁺	8
2 nd	Alcohols, Phenols and Ethers	Phenols: acidic nature of phenols , electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature of ethers, methods of preparation, physical and chemical properties, uses.	cation: Fe ³⁺ , Mn ²⁺ , Zn ²⁺ , Ni ²⁺	8
3 rd	Aldehydes, Ketones and carboxylic acids	Aldehydes and ketones: Nomenclature, nature of carbonyl group, methods of preparation , physical and chemical properties, mechanism of nucleophilic addition reactivity of alpha hydrogen in aldehydes, uses.	Cation: Ca ²⁺ , Sr ²⁺ , Ba ²⁺	8
4 th		VACATION		

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Aldehydes, ketones and carboxylic acids / Amines	Carboxylic acids: Nomenclature, acidic nature , methods of preparation, physical and chemical properties of carboxylic acids, uses. Nomenclature, classification of amines, structure of amines , methods of preparation, physical properties of amines chemical properties of amines , uses,	Cation: Mg ²⁺ and NH ₄ ⁺ Anions: CO ₃ ²⁻ , S ²⁻ , SO ₃ ²⁻ , NO ₂ ⁻	8
2 nd	Amines	identification of primary, secondary and tertiary amines. Diazonium salts: preparation. chemical reactions and importance in synthetic organic chemistry.	Anions: SO ₄ ²⁻ , Cl ⁻ , Br ⁻ , I ⁻	8
3 rd	Biomolecules	carbohydrates:- Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D -L configuration, oligosaccharides (sucrose, lactose, maltose). Polysaccharides (Starch, Cellulose, glycogen). Importance of carbohydrates.	Anions: C ₂ O ₄ ²⁻ , CH ₃ COO ⁻ , NO ₃ ⁻	8
4 th	Biomolecules	Proteins: Elementary idea of amino acids, peptide bond, polypeptides, structure of proteins - primary, secondary, tertiary structure and quaternary structure (qualitative idea only). denaturation of proteins. Enzymes, Hormones: elementary idea (excluding structure). Vitamins - classification and functions. Nucleic acids- DNA and RNA	Revision of the last week practicals.	8

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		REVISION & PRE-BOARD EXAMINATION		
2 nd		REVISION & PRE-BOARD EXAMINATION		

3 rd		REVISION & PRE-BOARD EXAMINATION		
4 th		REVISION & PRE-BOARD EXAMINATION		

JANUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

FEBRUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

MARCH

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

SUB: - MATHEMATICS CLASS-XII SESSION 2025-26

APRIL

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Relations and Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations.	Verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive.	8
2 nd	Relations and Functions	Types of functions: One to one and onto functions.	Demonstrate a function which is one - one but not onto	8
3 rd	Inverse Trigonometric Functions	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.	Drawing the graph of $\sin^{-1}x$ and demonstrate the concept of mirror reflection	8
4 th	Matrices	Introduction , Types & Operations		6

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Matrices	Introduction , Types & Operations		6
2 nd	Matrices	Transpose, Symmetric & Skew symmetric		8
3 rd		SUMMER VACATION		
4 th		SUMMER VACATION		
JUNE				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		SUMMER VACATION		
2 nd		SUMMER VACATION		
3 rd	Determinants	Introduction, Minors & Cofactors, applications of determinants		8
4 th	Determinants	Adjoint & Inverse of square matrix, solutions of system of linear equations		8
JULY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Continuity & Differentiability	Introduction, Continuity & Differentiability, Chain Rule, derivatives of composite functions & inverse trigometric functions.	Find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.	8
2 nd	Continuity & Differentiability	Exponential & Logarithmic Differentiation		8
3 rd	Continuity & Differentiability	Derivatives of Parametric Form, Second Order Derivatives.		8
4 th	Application of Derivatives	Introduction, Rate of change, Increasing / Decreasing Functions.	Understand the concept of increasing and decreasing functions	8
AUGUST				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Application of Derivatives & Integrals	Maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real- life situations), INTEGRALS -Introduction, Methods, Substitution.	understand the concept of local maxima, local minima and point of inflection	8

2 nd	Integrals	Patial Fractions, By Parts,Integral of Special Functions	construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner	8
3 rd	Integrals,Application of Integrals	Definite Integrals, Introduction, Area under simple curves		8
4 th	Differential Equations	Introduction, Basic Concepts, Order & Degree, General, Particular Solution and Methods of solving Differential Equations.		8

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		REVISION		
2 nd		REVISION & MID Term Exam.		
3 rd		REVISION & MID Term Exam.		
4 th		REVISION & MID Term Exam.		

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Linear Programming	Introduction, Parameters & Terminology, 1D & 2D Programing		6
2 nd	Vectors	Introduction, Basic Concepts, Types, Resolution		6
3 rd	Vectors	Addition, Dot & Cross Product		6
4 th	Vectors	Addition, Dot & Cross Product	Verify the associative law of vectors	5

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Three Dimensional Geometry	Introduction, Direction Cosine & Ratio		8
2 nd	Three Dimensional Geometry	Eqn. of Line in different forms, shortest distance between two lines & angle between two lines.		8
3 rd	Probability	Introduction, Conditional Probability, Multiplication theorem,independent Events		8

4 th	Probability	Bayes' Theorem Random Variables		8
DECEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
JANUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
FEBRUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
MARCH				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
SUB: - PHYSICAL EDUCATION CLASS-XII SESSION 2025-26				
APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unit 1 management of sporting events	1 Function of sports event, management (planning, organising, staffing, directing, and controlling) 2 :various committees and their responsibilities(pre-during and post) 3 fixture, and their procedure knockout(Bye and seeding) and league staircase, cyclic, tubular method and combination tournament		8

2 nd	Unit 1 management of sporting events	4) Intramural, and extramural tournament, meaning objectives, and its significance 5 community sports program, sports Day , health run, run for fun run for a specific causes and run for unity)	Inter house tournaments	8
3 rd	Unit 2 children, and women in sports	1) Exercise guidelines of WHO or different age groups. 2) common postural deformities - Knock knee , Flat foot , round shoulders, Kyphosis, Lordosis , Scoliosis, Bow Legs and their respective corrective measures		8
4 th	Unit 2 children and women in sports	3) Women's participation in physical, psychological and social sports benefits. 4) special consideration(menarche and menstrual dysfunction) 5) female Athlete triad (osteoporosis, amenorrhea, eating disorder)		8

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unit 3 Yoga as preventive measure for lifestyle disease	1. Obesity : procedure benefit and contradiction for Tadasna KatiChakrasna ,Pawan Mukta Asana , matsayasana, Halasana ,Pachimottansana , Ardh - Matsyendrasana ,Dhanurasana , Ushtrasana , Suryabedhan pranayama . 2) Diabetes: procedure benefit and contradiction for Katichakrasana ,Pavanmuktasana ,Bhujangasana, Shalvasana ,Dhanurasana , Supta- Vajrasna ,Paschimottansana ,Ardh Masttendrasna ,Mandukasna, Gomukhasana , Yogmudra ,		8
2 nd	Unit 3 Yoga as preventive measure for lifestyle disease	3 Asthma: procedure benefit and contradiction for Tadasana , Uttanpadasana ,Bhujangasana, Dhanurasana , Ushtrasana, Vakrasana, Kapalbhati, Gomukhasana, Matsyasaasana , Anulom Vilom .Bh	Calculation of BMI	8
3 rd	Unit 3 Yoga as preventive measure for lifestyle disease	4) Hypertension procedure benefit and contradiction for Tadasana ,Katichakrasana ,Uttanpadhastasana , Ardh Halasana , Sarala Matyasana , Gomukhasana , Uttanmandukasana , Vakrasana , Bhuangasana, Makrasana , Shavasana, Nadishodhanapranayam ,Sitlipranayam.		8
4 th	Unit 3 Yoga as preventive measure for lifestyle disease	5)Back pain and Arthritis : procedure benefit and contradiction of Tadasna ,ArdhChakrasana , Ushtrasana , Vakrasana ,SaraMaysyendrasana , Bhujangasana ,Gomukhasana, Bhadrasana , Makrasana ,NadiSodhana Pranayama .		8

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
------	---------	-------	----------	-------------------------

1 ST	Unit 4 physical education, and sports for CWSN children with special needs, Divyang	1) Organizations promoting disability, sports, special Olympics, Paralympics ,Deaflympics		8
2 nd	Unit 4 physical education, and sports for CWSN children with special needs, Divyang	2) Concept of classification and Divisioning in sports.	Plate tapping test	8
3 rd	Unit 4 physical education, and sports for CWSN children with special needs, Divyang	3) Concept of inclusion in sports. It need and implementation (advantage of physical activities for children with a special needs.)		8
4 th	Unit 4 physical education, and sports for CWSN children with special needs, Divyang	4) Strategies to make physical activity accessible for children with special needs.		8

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unit: 5 sports, and nutrition	1) Concept of balance, diet and nutrition		8
2 nd	Unit: 5 sports, and nutrition	2) Macro and micro nutrients, food sources, and functions	Flemingo Balancing test	8
3 rd	Unit: 5 sports, and nutrition	3 Nutritive and Non nutritive component of diet		8
4 th	Unit: 5 sports, and nutrition	4) Eating for weight control, A Healthy weight, The pitfall of dieting, food intolerance, and food myths 5) importance of diet in sports, pre-during and post competition requirements		8

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unit 6: test and measurement in sports	1) Fitnss test-SAI Khelo India fitness test in school is group 5 to 8 years / class I to III BMI ,flamingo balancing test plate tapping test is. Group 9 to 18 year class IV to XII BMI 50 m speed test 600 m run, walk, sit and reach flexibility, test, strength test, partial abdominal kerla push-ups for boys, modified push-ups for girls		8
2 nd	Unit 6: test and measurement in sports	2) Measurement of cardiovascular fitness, Harvard step test duration of the exercise in second into hundred of 5.5 into pulse count of 1.1.5 minute after exercise	50 mt speed start	8

3rd	Unit 6: test and measurement in sports	3) Computing basal metabolic rate BMR 4) Rickli and Jones, senior citizen fitness test: chair stand test for lower body strength: arm curl latest for upper body strength: chair, sit and reach test for lower body flexibility: 8 foot up and go test for agility: six minute walk test for Arabic endurance 5) Johnson Metheny, test of motor ability, front roll, back, roll, jumping, half turn, jumping, full turn		
4th	Unit 7: physiology and injury in sports	1) Physiological factors determining components of physical fitness 2) effect of exercise on the muscular system 3 : effect of exercise on the cardio respiratory system: 4: physiological changes due to aging 5 Sports injuries : classification, Soft tissue injury, Abrasion ,contusion, Laceration , Incision, Sprain and strain ,Bone and joint injury, dislocation and fracture(greenstick, comminuted, transverse, oblique, and impacted)	Partial curl up test	

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST		REVISION & MID TERM EXAMINATION		
2nd		REVISION & MID TERM EXAMINATION		
3rd		REVISION & MID TERM EXAMINATION		
4th		REVISION & MID TERM EXAMINATION		

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	Unit 8 Bio mechanics, and sports	1) Newton's law of motion and its application in a sports 2) Types of levers and their application in a sports. 3) Equilibrium : Dynamic and Static , centre of gravity and its application in a sports 4: friction and sports 5 :) projectile in sports,		8
2nd	Unit 9 : psychology and sports	1) personality, its definition and types, jung classification and Big five theory 2) motivation, it's type and techniques 3) Exercise Adherence : Resons benefits and strategy for enhancing it	Sit and reach test	8
3rd	Unit 9 : psychology and sports	4) meaning, concept and types of aggression in sports 5) psychological attribute in sports, self esteem, mental, imaginary self talk goal setting		8
4th		VACATION		

NOVEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unit 10: Training in sports	1) concept of talent, identification and talent development in sports		8
2 nd	Unit 10: Training in sports	2) introduction to sports training cycle Micro, Miso and Macro cycle 3) types, and methods to develop - strength, endurance, and speed	Push ups	8
3 rd	Unit 10: Training in sports	4) types, and method to develop - flexibility and coordinative ability	Modified push ups for girls 15	8
4 th	Unit 10: Training in sports	5) circuit training - introduction, and its importance		8

SYLLABUS OF PRACTICAL (PHE)

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Practical 1 : fitness test	Physical fitness test, Sai Khelo test, Brockport, physical fitness test, BPFT6 mark	Six marks	
2 nd	Practical 2: proficiency in games and sports	Skill of anyone, IOA recognised sports of the game of choice	Seven marks	
3 rd	Practical 3: yogic practice	Procedure for Asana benefits and contradiction for any two asanas for each lifestyle disease	Five marks	
4 th	practical 4: record file and viva	Viva of games and sports, Yoga and health	Five marks	

JANUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

FEBRUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

MARCH

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				

4 th				
SUB: - PHYSICS CLASS-XII SESSION 2025-26				
APRIL				
WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
	Chapter–1: Electric Charges and Fields	Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution.	To determine resistivity of two / three wires by plotting a graph for potential difference versus current.	7
	Chapter–1: Electric Charges and Fields	Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.	To find resistance of a given wire / standard resistor using metre bridge.	6
		Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside		
	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, electrical potential energy of a system of two- point charges and of electric dipole in an electrostatic field.	verify the laws of combination (series) of resistances using a metre bridge.	6
	Chapter–2: Electrostatic Potential and Capacitance	Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and 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 (no derivation, formulae only)	To verify the laws of combination (parallel) of resistances using a metre bridge.	7
MAY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
	Chapter–3: Current Electricity	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current	To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.	4
	Chapter–3: Current Electricity	Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power		5
JUNE				

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
	Chapter–3: Current Electricity	Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.	To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.	9
	Chapter–4: Moving Charges and Magnetism	Concept of magnetic field, Oersted's experiment.		
		Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter.		13

JULY

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
	Chapter–5: Magnetism and Matter	Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties.	To find the frequency of AC mains with a sonometer.	12
	Chapter–6: Electromagnetic Induction	Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.	To find the value of v for different values of u in case of a concave mirror and to find the focal length.	8

	Chapter–7: Alternating Current	Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current.AC generator, Transformer.	To find the focal length of a convex mirror, using a convex lens.	16
--	--------------------------------	---	---	----

AUGUST

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
	Chapter–8: Electromagnetic Waves	Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only).Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.	To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. <i>To find the focal length of a concave lens, using a convex lens</i>	4
	Chapter–9: Ray Optics and Optical Instruments	Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism	To determine angle of minimum deviation for a given prism by plotting a graph	20
	Chapter–9: Ray Optics and Optical Instruments	Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.	To determine refractive index of a glass slab using a travelling microscope.	10

SEPTEMBER

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
		Revision for Mid Term. Exam and Durga Puja		
		Revision for Mid Term. Exam and Durga Puja		
		Revision for Mid Term. Exam and Durga Puja		
		Revision for Mid Term. Exam and Durga Puja		

OCTOBER

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
	Chapter–10: Wave Optics	Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).	To find the refractive index of a liquid using convex lens and plane mirror.	7

	Chapter–11: Dual Nature of Radiation and Matter	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light.Experimental study of photoelectric effect .Matter waves-wave nature of particles, de-Broglie relation.	To find the refractive index of a liquid using a concave mirror and a plane mirror.	8
	Chapter–12: Atoms And Nuclei	Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only).	To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.	9

NOVEMBER

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
	Chapter–13 Nuclei	Composition and size of nucleus, nuclear force. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.		7
	Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction		5
	Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.		4

DECEMBER

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED

JANUARY

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED

FEBRUARY

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED

MARCH

WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
SUB: - ENGLISH CLASS-XII SESSION 2025-26				
APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST (07/04 to 12/4/2025)	Unseen Passage, The Last Lesson(Prose), My Mother at Sixty six(Poem)	Practice of any one unseen Passage. Textual as well as thematic analysis of the Chapters mentioned from the English Literature Book- Flamingo.	Extempore and Elocution, Role Play	6
2nd(14/04/25 to 19/04/25)	Notice Writing, Letter to the Editor, The Third Level(Prose)	Practice of the Advanced Writing Skills, Textual as well as Thematic analysis of the Chapter, The Third level(Prose) from the supplementary reader- Vistas	Group Discussion	6
3rd (21/04/25 to 30/04/25)	Unseen Passages, Letter to the Editor, Deep Water(Prose), continuation of the chapter, The Third Level (Prose)	Practice of any one unseen passage, Practice of the formal letter(letter to the editor). Thematic and textual analysis of the Deep Water (Prose) and The Third Level (Vistas)	Writing down all the new words learnt from the English Literature books in the week and also learning to use these words in our regular usage of the language.	8
4 th				
MAY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	Lost Spring (Prose), Keeping Quiet(Poem), The Tiger King(Prose), Format and Content of Formal Invitation.	Textual and the thematic discussion of the mentioned texts along with practice and revision of writing section - Formal Invitation and Notice writing	Dramatics	9
2 nd	Summer Vacation			
3 rd	Summer Vacation			
4 th	Summer Vacation			
JUNE				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	Summer Vacation			
2 nd	Summer Vacation			

3 rd	Unseen Passage, Informal Invitation, The Rattrap (Prose)	Practice of one Unseen Passage, Learning the format and content of the informal Invitation along with the textual and thematic discussion of The Rattrap.		6
4 th	The Rattrap-to be continued along with updating the list of the new words in the class work copy, practice and revision of the writing section.	Thematic and textual discussion of The Rattrap along with enlisting the new words learnt till now in their class work copies. Practice and revision of the Writing Section	Debate on any relevant topic	6

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unseen Passage, Revision and Practice of the texts taught till now.	Practice of one unseen passage along with answer writing practice from the portion taught in literature.	Group Discussion	5
2 nd	Writing Skills, Indigo (Prose)	Learning the format and content of the reply to informal Invitation. Textual as well as Thematic analysis of the text Indigo(Prose)	Story Writing Competition	6
3 rd	Unseen Passage, A thing of beauty (Poem)	Practice of one unseen passage. Textual and thematic analysis of the poem A Thing of Beauty.	Role Play	6
4 th	Writing Skills, Journey to the End of the Earth(Prose)	Learning the format and content of Report Writing. Textual and Thematic analysis of the text Journey to the End of the Earth.	Extempore and Elocution	6

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	The Enemy(Prose)	Textual and Thematic Analysis of the text The Enemy.	Debate on any relevant topic	7
2 nd	Writing Skills, Poets and Pancakes(Prose)	Format and Content of Job Application with Resume. Textual and Thematic Analysis of the text Poets and Pancakes.	Wall magazine on Independence Day.	4
3 rd	Writing Skills , A Roadside Stand (Poem)	Format and Content of Article Writing. Textual and Thematic analysis of the poem A Roadside Stand.	Dramatics	6
4 th	Revision	Practice of one unseen Passage and Revision of all taught portions of Flamingo and Vistas		6

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Revision and Mid-Term Exam	Revision & Mid Term Examination		
2 nd	Revision and Mid-Term Exam	Revision & Mid Term Examination		
3 rd	Revision and Mid-Term Exam	Revision & Mid Term Examination		
4 th	Dussehra Holidays			

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	On the face of it(Prose), Aunt Jennifer's Tigers(Poem)	Textual and Thematic Analysis of the text On the face of It and the poem Aunt Jennifer's Tigers respectively.	Writing down all the new words learnt from the English Reader books in the week and also learning to use these words in our regular usage of the language.	8
2 nd	Unseen Passage, The Interview (Prose)	Practice of one unseen passage. Textual and Thematic Analysis of the text ,The Interview.	Dramatics and Elocution.	8
3 rd	Diwali and Chath Holidays			
4 th	Diwali and Chath Holidays			

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unseen Passage, Going Places(Prose)	Practice of one unseen passage. Textual and Thematic analysis of the text, Going Places		6
2 nd	Writing skills, Memories of Childhood:Unit I(Prose)	Revision of all taught portions. Textual and Thematic Analysis of first' Unit from the text , Memories of Childhood named Cutting of My Long Hair	Extempore	6
3 rd	Memories of Childhood:Unit II (Prose)	Textual and Thematic analysis of the second unit from the text, My Memories of Childhood, named We too are Humans		6
4 th	Revision and Practice	Revision and Practice		

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Revision and Practice of texts	Revision and Practice of texts along with doubt clarification sessions		
2 nd	Practice of Board Sample Papers and PYQs for the preparation of the 1st Pre-boards	Practice of Board Sample Papers and PYQs for the preparation of the 1st Pre-boards		

3 rd	1st Pre Board Exam			
4 th	1st Pre Board Exam			
JANUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Winter Vacation			
2 nd	Revision and Doubt Clarification of students for 2nd Pre Board	Revision and Doubt Clarification of the Students for the 2nd Pre Board		
3 rd	Intensive and Extensive preparation of 3rd Pre Board	Intensive and Extensive preparation of 3rd Pre Board		
4 th	Revision and 3rd Pre Board Examination	Revision and 3rd Pre Board Examination		
FEBRUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Revision and Doubt Clarification Sessions	Revision and Doubt Clarification Sessions		
2 nd	Board Examinations commence			
3 rd	Board Examinations			
4 th	Board Examinations			
MARCH				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
SUB: - Computer Science CLASS-XII SESSION 2025-26				
APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Review of Python-I ,	Review of Python-I , Review of Python-II, User-Defined Functions in Python, arguments and parameters , Scope of variable (local, enclosed global & built-in scopes i.e. LEGB Rule)	Notes on different types of tokens, data types with examples	8
2 nd	Review of Python-II,	Review of Python-II, List, tuple and dictionary in details. Introduction to UDF in Python	programs on list, tuple, dictionary	8
3 rd	Functions in python	User-Defined Functions in Python with arguments & parameters	Pre defined and user defined functions	8
4 th	Functions in python	Scope of variable (local, enclosed global & built-in scopes i.e. LEGB Rule)	LEGB Rule	8
MAY				

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Working with Mutable and Immutable Data Types,	Working with Mutable and Immutable Data Types, Exception handling using try – except block, Introduction to files, types of files(Text, Binary, CSV), Relative and absolute paths in handling of file	Mutable and immutable data types of python	7
2 nd	Exception Handling	Exception handling, use of try-except block	Programs using Try-Except Block	13
3 rd	Data File handling	Introduction to files, types of files(Text, Binary, CSV), Relative and absolute paths in handling of file	Different types of files with individual features	—
4 th		SUMMER VACATION		—

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		SUMMER VACATION		—
2 nd		SUMMER VACATION		—
3 rd	Opening & closing Text File, Binary File & CSV File,	Opening & closing Text File, Binary File & CSV File, Different modes – (r,r+,w,w+,a,a+, rb,rb+,wb, wb+, ab, ab+) , File Handling in Python – Seek and tell methods, manipulation of data in a text file. Different modes – (r,r+,w,w+,a,a+, rb,rb+,wb, wb+, ab, ab+)	opening and closing of different types of files modes of python with explanation	10
4 th		File Handling in Python – Seek and tell methods, manipulation of data in a text file	use of seek and tell method	10

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Different functions in data file handling	Different functions in data file handling – (read(), read(n), readline(), readlines(),write(), writelines(), append())Different functions in data file handling – (read(), read(n), readline(), readlines(),write(), writelines(), append(),dump(), load(), writer(), writerow(), writerows(), reader()), Different modules – (pickle, csv)	different functions of read mode in text files with examples	5
2 nd		Binary file – pickle module, serialization & deserialization, different modes (rb,wb,ab, rb+,ab+,wb+),opening and closing binary file.	pickle module and their modes of working	7
3 rd		Pickle module functions - dump(), load(), CSV module functions - writer(), writerow(), writerows(), reader(),	dump() and load() of pickle	7
4 th		Different modules – (pickle for binary file handling, csv for csv file handling in data file handling)	modules of binary files	10

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
------	---------	-------	----------	-------------------------

1 ST	RDBMS	Database concept and its need, RDBMS, Data Model – relation , tuple, domain, degree, cardinality, key (Primary, Alternate, Candidate, Foreign key), DDL & DML commands of SQL, Data types & Data constraints, operators, clauses, aggregate functions – max(), min(), count(), sum(), avg(). Linear data structure - Stack using Python List – PUSH & POP operation in stack.	Relational DBMS fundamentals	10
2 nd	DATA CONSTRAINTS	Data types & Data constraints, operators SQL Group Functions - Group by, having clauses, aggregate functions – max(), min(), count(), sum(), avg() .	Data constraints and types use of aggregate function and other clauses	10
3 rd	GROUP Command of SQL	Review of SQL SELECT Statement, SQL Group Functions. Linear data structure - Stack using Python List – PUSH & POP operation in stack	functions of Push & pop operation in stack	12
4 th	Joins of SQL –	Joins of SQL – Cartesian product of two tables, equi- join, natural join. Evolution of Computer Networking ARPANET, NSFNET, INTERNET, Network Terminologies IP Address, Switching techniques, Transmission media Twisted pair, co-axial, fiber optics, infrared, radio, micro waves Devices	structure of different types of joins in SQL	—

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		MID TERM EXAM		
2 nd		MID TERM EXAM		
3 rd		MID TERM EXAM		
4 th		MID TERM EXAM		

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Network protocols	Computer Networking - Evolution of Computer Networking ARPANET, NSFNET, INTERNET, Network Terminologies IP Address, Switching techniques, Transmission media Twisted pair, co-axial, fiber optics, infrared, radio, micro waves Devices. Computer Networking - Switching techniques, Transmission media Twisted pair, co-axial, fiber optics, infrared, radio, micro waves Devices.	Evolution of network and different mediums	6
2 nd		Network topologies PAN, LAN, MAN, WAN, Star, Bus, Tree, Mesh, Ring, Hybrid, Computer Networking, Network Stack and Tools Network Protocols like HTTP, HTTPS, FTP, SMTP, PPP, TCP/IP, VoIP and Applications , Introduction to web services – WWW, HTML, XML, Domain Name, Website, Web browsers, Web servers, web hosting	different topologies of network	8

3 rd	web services	Introduction to web services – WWW, HTML, XML, Domain Name, Website, Web browsers, Web servers, web hosting		
4 th	Society-Law and Ethics E-Waste Management	Society-Law and Ethics, E-Waste Management, Revision		8
NOVEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Interface of Python with SQL	Interface of Python with SQL Database, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format.	connectivity of python with mysql	8
2 nd	Interface of Python with SQL	display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format.	use of different functions used in connectivity	13
3 rd	Pre- Board 01 / Revision			—
DECEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Pre- Board 02/ Revision	Solving Sample Papers	Quiz	—
2 nd	Revision	Solving Sample Papers	Practice of Viva Test	—
3 rd	Pre- Board 03/ Revision	Solving Sample Papers	Board Test	—
4 th	Revision	Solving Sample Papers	Board Test	—
JANUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Winter Break	—	—	—
2 nd	Practical	—	—	—
3 rd	Practical/ Revision Classes	—	—	—
4 th	Remedial Classes	—	—	—
FEBRUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
MARCH				

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

SUB: - ACCOUNTANCY CLASS-XII SESSION 2025-26

APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Financial Statements of Companies and Financial Statements Analysis	Format of Balance Sheet (in detail), Detail Explanation of Assets and Liabilities, Methods, Purpose and Importance of Financial Statement Analysis	Board test on the Format of Balance Sheet	8
2 nd	Comparative and Common Size Statements	Comparative Balance Sheet, Comparative Statement of Profit and Loss, Common Size Balance Sheet, Common Size Statement of Profit and Loss	Quiz on Assets and Liabilities	8
3 rd	Accounting Ratio	Meaning, Objectives, Advantages, classification and computation, Liquidity Ratios: Current ratio and Quick ratio, Solvency Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and Interest Coverage Ratio. Debt to Capital Employed Ratio	Preparation of Formula Chart of Liquidity Ratio and Solvency Ratio	8
4 th	Accounting Ratio	Activity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio, Fixed Asset Turnover Ratio, Net Asset Turnover Ratio and Working Capital Turnover Ratio, Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment.	Preparation of Formula Chart of Activity Ratio and Profitability Ratio	8

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Cash-Flow Statement	Meaning, Objectives, Benefits, Importance, Limitations of Cash-Flow Statement, Cash flow from Operating Activities, Cash flow from Investing Activities, Cash-Flow from Financing Activities, Format of Cash- Flow Statement, Calculation of cash flow from operating activities, Indirect Method of calculating Cash Flow from Operating Activities.	Chart work on the format of cash flows from operating activities, investing activities and financing activities	8

2 nd	Cash-Flow Statement	Cash flows from Investing Activities, Ascertain Missing Figure by preparing Fixed Asset Account, Cash Flows from Financing Activities, Provision for Income Tax, Proposed Dividend	Board Test on Cash-flow statement	8
3 rd	SUMMER VACATION	Project: 01 (Comprehensive Project), Project: 02 (Specific Project)	List out various firms of your town and categorize its forms	—
4 th	SUMMER VACATION	Project: 01 (Comprehensive Project), Project: 02 (Specific Project)	Solve Previous years questions from related chapters	—

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	SUMMER VACATION	Project: 01 (Comprehensive Project), Project: 02 (Specific Project)	Solve Previous years questions from related chapters	—
2 nd	SUMMER VACATION	Project: 01 (Comprehensive Project), Project: 02 (Specific Project)	Solve Previous years questions from related chapters	—
3 rd	Accounting for Partnership Firms-Fundamentals	Nature of partnership Firm, Partnership Deed, Rules applicable in the Absence of partnership Deed, Recording of Partnership Transactions, Difference Between Profit & Loss Account and Profit and Loss Appropriation Account, Difference between Charge Against Profit and Appropriation out of profit, Numerical based on Profit and Loss Appropriation A/c, Calculation of Interest on Capitals (in brief), Capital Accounts of partners, Fixed Capital and Fluctuating Capital, Manager's Commission, Partner's Commission, Transfer of Net Profit to General Reserve, Interest on Loan by partner to the firm, Transfer of Divisible profit to General Reserve, Interest on Loan by the firm to a partner, Rent Paid and Rent payable to a partner,	Role Play on Partnership, Chart Paper work on the Format of Profit and Loss Appropriation A/c, Partner's Capital A/c, Partner's Current A/c,	8
4 th	Accounting for Partnership Firms-Fundamentals	In Case of Loss to the firm, Case: When Appropriations are more than available profit, Methods of Calculating Interest on Drawings, Interest on Monthly Drawings(all cases), Calculation of Amount of Monthly drawings, Calculation of Amount of Quarterly Drawings, Calculation of Rate of Interest on Drawings, Drawings against profit and Drawings against capital, Calculation of Interest on Capital(all cases), Appropriation of profit according to capital ratio, Past Adjustments or Adjustments in the closed Accounts-a. Single adjustment entry(When interest on capital is in excess of net profit).	Board Test on Calculation of Interest on Capital and Interest on Drawings	8

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Accounting for Partnership Firms- Fundamentals	Past Adjustments (Distribution of profit in wrong ratio, Rectification of Interest on capital less charged, rectification of excessive interest on capital, Interest on drawings wrongly provided) b. Separate adjustment entry, Guarantee of Profit to a partner.	Group Discussion on the topic Past Adjustment and Guarantee of Profit with the help of Previous years questions	5
2 nd	Change in Profit sharing ratio among the existing partners	Reconstitution of a Partnership Firm, Sacrificing ratio, Gaining ratio, Goodwill(theory), Methods of valuation of goodwill(Average profit method, Super profit method and capitalisation method),	Art work on Fraction, chart Paper work on various formula of Goodwill Calculation	7
3 rd	Change in Profit sharing ratio among the existing partners	Accounting treatment of goodwill when there is change in the profit sharing ratio of existing partners, Accounting treatment of Reserves and Accumulated profits when there is change in the profit sharing ratio of existing partner's, Accounting for Revaluation of Assets and Liabilities when there is change in the profit sharing ratio of existing partners.	Chart Paper work on the the format of Revaluation Account, Extempore on all the formula and treatment of Accumulated Profits	8
4 th	Admission of a Parner	Basic Theory,Calculation of New Profit Sharing Ratio, Calculation of Sacrificing Ratio, When new partner brings in only a part of his share of goodwill/ premium.	Role Play on Admission of a new partner	8

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Admission of a Parner	Accounting Treatment of Goodwill on the Admission of a New Partner, When Goodwill already appears in the books and new partner brings his share of goodwill/premium in cash, When new partner does not bring his share of goodwill/premium in cash,	Board Test on Calculation of Sacrificing ratio and new profit sharing ratio	8
2 nd	Admission of a Parner	Revaluation of Assets and Liabilities, Accounting treatment of Reserves and Accumulatd profits, Hidden Goodwill, When new partner brings in proportionate capital, Adjustment of Old Partners' capital accounts on the basis of new partner's capital.	Board Test on Revaluation Account and treatment of Accumulated profit	8
3 rd	Retirement or Death of a Partner	Basic theory,Calculation of New Profit Sharing Ratio, Calculation of Gaining Ratio, Accounting Treatment of Goodwill, When Goodwill account is already appearing in the books, Revaluation of Assets and Liabilities, Adjustment of Accumulated Profits and Reserves,	Group Discussion on Previous years questions	12
4 th	'Retirement or Death of a Partner	Adjustment of Capitals, Retirement and Settlement of Loan, Death of a partner, Calculation of the total amount due to the representatives of the deceased partner	Chart Paper work on the format of , Retiring Partner's Capital A/c, Executor's Loan A/c,	8

SEPTEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Exam	_____	_____	—
2 nd	Exam/Festival	Viva Practical Questions	_____	—
3 rd	Festival	Viva Practical Questions	_____	—
4 th				
OCTOBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Dissolution of a Partnership Firm	Basic theory as per section 40,41,42,43,44 and 49, Accounting Procedure on Dissolution of Firm, Realisation Account, Loan by firm to Partner and Loan by Partner to Firm, Liability taken over by the partner. Treatment of Goodwill, Payment of Partner's Loan, Balance Sheet at the Date of Dissolution not Given.	Board Test on variou situations of expenses on dissolution.	8
2 nd	Accounting for Companies-Issue of shares	Basic theories related to shares, Share Capital, Preparation of company's Balancesheet, Presentation of share capital in compay's Balance Sheet, Private placements of shares, ESOP, Public Subscription of shares, Accounting treatment of Issue of share at Par, Issue of Shares at premium, Use of cash book, Under-Subscription of shares, Issue of shares for Consideration other than cash, Calls in Arrear, Calls in Advance, Over- Subscription of shares, Opening of Joint Application and Allotment account,	Role play on Accounting for Companies-Issue of shares, Chart paper work on company's Balance Sheet.	8
3 rd	'Accounting for Companies-Issue of shares	Entries on Forfeiture of shares, Reissue of Forfeited Shares, Presentation of Forfeited shares Account in the Balance Sheet	Board Test on the Calulation of Capital Reserve.	8
4 th	'Accounting for Companies-Issue of shares	When premium on forfeited shares became due but is not received, When Premium on Forfeited shares is received, Forefeiture in case of Over-Subscription and Pro-rata Allotment,	Board Test on Pro-rata Allotment	8
NOVEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Issue of Shares	Over- Subscription and Forfeiture of shares Issued at Premium, Utilisation of excess application money for securities premium	Group Discussion on Previous years questions.	8

2 nd	Accounting for Debentures	Debentures: Meaning, types, Issue of debentures at par, at a premium and at a discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security-concept, interest on debentures (concept of TDS is excluded). Writing off discount / loss on issue of debentures.	Group Discussion on the features of Debentures, Chart paper work on difference between Debentures and Bonds	8
3 rd	Pre- Board 01 / Revision	Solving Sample Papers	Excursion to various Firms or Commercial Institutions	—
4 th	Revision	Solving Sample Papers	Excursion to various Firms or Commercial Institutions	—

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Pre- Board 02/ Revision	Solving Sample Papers	Quiz	—
2 nd	Revision	Solving Sample Papers	Practice of Viva Test	—
3 rd	Pre- Board 03/ Revision	Solving Sample Papers	Board Test	—
4 th	Revision	Solving Sample Papers	Board Test	—

JANUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Winter Break	—	—	—
2 nd	Practical	—	—	—
3 rd	Practical/ Revision Classes	—	—	—
4 th	Remedial Classes	—	—	—

FEBRUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

MARCH

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

SUB: - B.St. CLASS-XII SESSION 2025-26				
APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	1. Nature and Significance of management	1. Modern concept of management/ Meaning of management, Characteristics or Features of Management, Objectives of Management, 1. Importance of Management, Nature of Management, Levels of Management, Functions of Management	Quiz	8
2 nd	1. Nature and Significance of management, 2. Principles of Management	1. Coordination, 2. Introduction and Meaning of Management Principles, Nature/ Features/ Characteristics of Management Principles	Discussion of Case-Based Questions	8
3 rd	2. Principles of Management	2. Significance/ Importance/ of Management Principles, Scientific Management developed by F.W. Taylor	Role Play on Various Principles	8
4 th	2. Principles of Management	2. Fayol's Principles of Management	Board Test	8
MAY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	2. Principles of Management	2. Comparison Between Taylor and Fayol	Quiz	3
2 nd	3. Business Environment	3. Meaning of Business Environment, Features/ Characteristics/ Nature of Business Environment, Importance of Business Environment	Visit to Library Club	6
3 rd	Summer Vacation	Project Work on two chapters for Mid Term Exam	—	
4 th	Summer Vacation	Project Work on two chapters for Mid Term Exam	—	
JUNE				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Summer Vacation	Case- Based Questions (Atleast 25)	—	
2 nd	Summer Vacation	Previous Years' Questions (Atleast for 5 Years)	—	
3 rd	3. Business Environment	3. Dimensions of Business Environment	Discussion of Case-Based Questions	8
4 th	4. Planning	4. Meaning of Planning, Features/ Nature/ Characteristics of Planning, Importance/ Significance of Planning, Limitations of Planning, Planning Process,	Writings of Various Plans (eg. Farewell Plan)	8
JULY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED

1 ST	4. Planning	4. Type of Plans, Differences Between Policies and Objectives, Policies and Procedures, Procedures and Methods, Strategy and Policy.	Discussion of Case-Based Questions	8
2 nd	5. Organising	5. Meaning of Organising, Organising Process, Importance/ Significance of Organising, Organising Structure.	Quiz	8
3 rd	5. Organising	6. Formal and Informal Organisation, Delegation of Authority, Centralisation and Decentralisation	Board Test	8
4 th	6. Staffing	7. Meaning of Staffing, Importance/ Need/ Benefits/ Advantages of Staffing, Staffing as Part of HRM, Staffing Process, Components/ Elements/ Aspects of Staffing 6. Methods of Training,	Role Play on Selection Process	8

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	7. Directing	7. Meaning and Introduction, Features/ Characteristics of Directing Function, Importance of Directing Function, Elements of Directing,	Role Play on Elements of Directing	8
2 nd	7. Directing	7. Supervision, Motivation, Leadership, communication	Discussion of Case-Based Questions	8
3 rd	8. Controlling	8. Meaning of Controlling, Nature/ Features of Controlling, Importance of Controlling,	Board Test	8
4 th	8. Controlling	8. Process, Relationship between Planning and Controlling	Quiz	8

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Exam	—	—	—
2 nd	Exam	—	—	—
3 rd	Festivals	Prepare a Formula Chart of Accounting Ratio, and have a look on the chapter Financial Management	—	—
4 th	Festivals	Prepare a PPT on Business Environment	—	—

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	9. Financial Management	9. Concept, Role and Objectives of Financial Management, Financial Decisions, Financial Planning,	Chart paper Work on Formula of ICR, ROI and DSCR	8
2 nd	9. Financial Management	9. Concept and Factors affecting Capital Structure, Concept and Factors affecting the requirements of Fixed and working capital	Quiz/ Case- Based Questions	8
3 rd	10. Financial Market	10. Concept of Financial Markets, Concept of Money Market, Concept and types of Capital Market (Primary and Secondary)	Board Test	8
4 th	10. Financial Market	10. Objectives and Functions of SEBI	Discussion of Previous Years Questions	8

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	11. Marketing Management	Concept, functions and Philosophies of Marketing Management, Concept of Marketing Mix, Product Mix,	Identification of Brand Name, Labelling, Packaging etc.	8
2 nd	11. Marketing Management	Price Mix, Place Mix, Promotion Mix	Quiz/ Board Test	8
3 rd	12. Consumer Protection	Concept and Importance of Consumer Protection, The Consumer protection Act, 2019: Meaning, Rights and Responsibilities of consumers, Who can file a complaint? Redressal machinery, Remedies available, Consumer Awareness- Role of consumer organizations and Non- Governmental Organizations	Discussion of Previous years Questions	8
4 th	Pre- Board 01 / Revision	Solving Sample Papers	Excursion to various Firms or Commercial Institutuions	—

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Pre- Board 02/ Revision	Solving Sample Papers	Quiz	—
2 nd	Revision	Solving Sample Papers	Practice of Viva Test	—
3 rd	Pre- Board 03/ Revision	Solving Sample Papers	Board Test	—
4 th	Revision	Solving Sample Papers	Board Test	—

JANUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Winter Break	—	—	—
2 nd	Practical	—	—	—
3 rd	Practical/ Revision Classes	—	—	—
4 th	Remedial Classes	—	—	—

FEBRUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

MARCH

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

SUB: - GEOGRAPHY CLASS-XII SESSION 2025-26

APRIL

WEEK	CHAPTER	TOPIC	ACTIVITY	NO. OF PERIODS REQUIRED (Weitage)
1 ST	PART-A UNIT - 1	Human Geoghaphy, Introduction, Nature of Human Geography	Group Discussion	5
2 nd	UNIT - 1	Approaches of Human Geography	Group Discussion	6
3 rd	PART-B 'UNIT - 1	Population : Distribution, Density, Growth		5
4 th	UNIT - 1 (PART - B)	Growth of Population, Population Composition	Identify some issue in which India is ahead of or lagging behind of Neighbours	5

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	UNIT - 2 (PART - A) CH-2	The World Population: Density and Growth	Destribution population in Map (Map Skill)	4
2 nd	CH -2 (PART-A)	Demographic Transition Theory, Population Control Measures	Map Skill	4
3 rd				
4 th				

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd	CH-02(PART B) Practical - 1	Human Settlements Rural and Urban Settlements (Urbanisation in India) Data-Its sources and Composition	List of Urban Agglomerations / Cities Statewise	8
4 th	Part-2(CH -2)	Human Settlements: Urbanisation in India	Debate	4

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
------	---------	-------	----------	-------------------------

1st	CH- 3 (PART A)	Human Development: The Four pillars of Human Development, Approaches to Human Development	Prepare HDI Report	5
2nd	Part-A (CH -3)	Human Development: Measuring Human Development, Internal Composition of Human Development	Locate 10 developed countries on a world map with HDI index	5
3rd	UNIT -3(PART B) CH-3	Land Resources and Agriculture	Prepare a list of agricultural problems	9
4th	Part-B Ch-4, Ch-5	Water Resources Mineral and Energy Resources	Rainwater Harvesting Diagrams	8
AUGUST				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1st	Practical CH-2 (CH-3)	Data Processing Graphical Representation of Deata		6
2nd	Part-A Unit-3 CH-4 and Part- A CH-5	Primary Activities and Secondary Activities	Ask to the farmars and list the various options. Locate areas of Nomadic Herding, livestock Reanching. Make a list of the global brands (items) & Logos	8
3rd	Part-B CH-6	Planning and Sustanable Development in India Context	Quiz, Environmental and Social-Economic Problems of your area	7
4th	Ch-4	Practical Work in Geography	Analysis the results	6
SEPTEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1st	Revision for Mid Term. Exam and Durga Puja			
2nd				
3rd				
4th				
OCTOBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1st	Part-A Ch-6	Tertiary and Quaternary Activities	KPO Knowledge Processing Outsourcing	10
2nd	PART-B CH-7	Transport and Communication	Find out the facilities of Indian Railways provide to the passangers	6

3 rd	CH-5 (Practical Book) Part- A, CH-7	Practical in Geography (Field Survey), Transport and Communication	Design a field Survey on Soil Degredation & Energy Issues Cyber, Space, Internet. Identify the major airport and Sea port of the world political map	8
4 th	Depawali & Chat			
NOVEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Part-A, CH-8	International Trade From of Exchange in trading History of International Trade, Gateways of International Trade, Trade Liberalisation	Special Analysis of Urban Landuse	8
2 nd	CH-6	Practical in Geography: Special Insformation Technology		8
3 rd	Part-B CH-8	International Trade Chaging Pattern of India's International Trade, Sea Port as Gateways of International Trade	Name the nearest domestic and International airports from your place	8
4 th	Ch-9	Geographical Perspective on Selected Issues and Problems, Land Degradation	Debete on The Swachh Bharat Mission (SBM) Project on Land Degradation	8
DECEMBER				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Revision for Final Examination-2026			
2 nd				
3 rd				
4 th				
JANUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
	Revision for Final Examination-2026			
FEBRUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Revision for Final Examination-2026			
2 nd				
3 rd				
4 th				

MARCH				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST				
2nd				
3rd				
4th				

SUB: - FINE ARTS (PAINTING) CLASS-XII SESSION 2025-26

APRIL				
WEEK	CHAPTER	TOPIC	PRACTICAL	No. Of PERIODS REQUIRED
1ST				
2nd	UNIT- I RAJASTHANI AND PAHARI SCHOOL OF MINIATURE PAINTING	(1) THE RAJASTHANI SCHOOL: (A) ORIGIN AND DEVELOPMENT (B) SUB-SCHOOL- MEWAR, BUNDI, JODHPUR, BIKANER, KISHANGARH AND JAIPUR. (C) MAIN FEATURES OF THE RAJASTHANI SCHOOL (D) APPRICIATION OF THE FOLLOWING RAJASTHANI PAINTING- MARU RAGINI, KRISHNA ON SWING, RADHA (BANI- THANI),CHAUGAN PLAYERS, BHARAT MEETS RAMA AT CHITRAKUT.	FUNDAMENTALS OF VISUAL ARTS	6
3rd	UNIT- I RAJASTHANI AND PAHARI SCHOOL OF MINIATURE PAINTING	(1) THE PAHARI SCHOOL: (A) ORIGIN AND DEVELOPMENT (B) SUB-SCHOOL- BASHOLI, GULER, KANGRA, CHAMBA, GARHWALL AND MANDI. (C) MAIN FEATURES OF THE PAHARI SCHOOL.	ELEMENTS AND PRINCIPLES	6
4th	UNIT- I RAJASTHANI AND PAHARI SCHOOL OF MINIATURE PAINTING	(D) APPRICIATION OF THE FOLLOWING RAJASTHANI PAINTING: KRISHNA WITH GOPIS,NAND, YASHODA AND KRISHNA WITH KINSMEN GOING TO VRINDAVANA	OBJECTS SUDY	6

MAY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED

1 ST	UNIT- II THE MUGHAL AND DECCAN SCHOOL OF MINIATURE PAINTING	(1) THE MUGHAL SCHOOL: (A) ORIGIN AND DEVELOPMENT (B) MAIN FEATURES OF THE MUGHAL SCHOOLS (C) APPRICIATION OF THE FOLLOWING MUGHAL PAINTINGS: KRISHNA LIFTING MOUNT GOVARDHANA, FALCON ON A BIRD- REST, KABIR AND RAIDAS, MARRIAGE PROCESSION OF DARA SHUKOH	WATER COLOUR TECHNIQUE	6
2 nd	LANDSCAPE	IATURE STUDY (CLOUDS, MOUNTAIN, TREE, RIVER)	WATER COLOUR WET ON WET TECHNIQUE	6
3 rd	SUMMER VACATION			
4 th	SUMMER VACATION			

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	SUMMER VACATION			
2 nd	SUMMER VACATION			
3 rd	UNIT- II THE MUGHAL AND DECCAN SCHOOL OF MINIATURE PAINTING	(1) DECCAN SCHOOL: (A) ORIGIN AND DEVELOPMENT (B) MAIN FEATURES OF THE DECCAN SCHOOL	DSCAPE WITH WATER CO	6
4 th	UNIT- II THE MUGHAL AND DECCAN SCHOOL OF MINIATURE PAINTING	(C) APPRECIATION OF THE FOLLOWING DECCAN PAINTINGS: HAZRAT NIZAMUDDIN AULIYA AND AMIR KHUSRO	COMPOSITION WITH WATER COLOUR	6

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	UNIT-III THE BENGAL SCHOOL OF PAINTING AND THE MODERN TRENDS IN INDIAN ART	(1) BENGAL SCHOO (ABOUT THE BEGINNING TO MID OF THE 20TH CENTURY): (A) NATIONAL FLAG OF INDIA AND THE SYMBOLIC SIGNIFICANCE OF ITS FORMS AND THE COLOURS.	POSITION WITH WATER CO	6
2 nd	UNIT-III THE BENGAL SCHOOL OF PAINTING AND THE MODERN TRENDS IN INDIAN ART	(B) INTRODUCTION TO THE BENGAL SCHOOL OF PAINTING. (i) ORIGIN AND DEVELOPMENT OF THE BENGAL SCHOOL OF PAINTING (ii) MAIN FEATURES OF THE BENGAL SCHOOL OF PAINTING	LIVE STUDY OF OBJECTS DRAWING	6

3rd	UNIT-III THE BENGAL SCHOOL OF PAINTING AND THE MODERN TRENDS IN INDIAN ART	(C) APPRECIATION OF THE FOLLOWING PAINTINGS OF THE BENGAL SCHOOL: JOURNEY'S END, SHIV AND SATI, RADHIKA, MEGHDOOT	FIGURATIVE COMPOSITION	6
4th	UNIT-III THE BENGAL SCHOOL OF PAINTING AND THE MODERN TRENDS IN INDIAN ART	CONTRIBUTION OF INDIAN ARTISTS IN THE STRUGGLE FOR NATIONAL FREEDOM MOVEMENT	COMPOSTION OF VILLAGE MARKET	6

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1st	UNIT- III EVOLUTION OF THE INDIAN NATIONAL FLAG	THE PHASES OF EVOLUTION OF THE FLAG.	OBJECTS COMPOSITION	6
2nd	UNIT- IV THE MODERN TRENDS IN INDIAN ART	MODERN TRENDS IN INDIAN ART: APPRECIATION OF THE FOLLOWING CONTEMPORARY (MODERN) INDIAN ART.	MEMORY DRAWING OF OBJECTS	6
3rd	UNIT- IV THE MODERN TRENDS IN INDIAN ART	MODERN TRENDS IN INDIAN ART: PAINTINGS: RAMA VANQUISHING THE PRIDE OF THE OCCEAN, MOTHER AND CHILD, HALDI GRINDERS, MOTHER TERESA.	COMPOSITION WITH ANIMAL	6
4th	UNIT- IV THE MODERN TRENDS IN INDIAN ART	GRAPHIC PRINTS OF THE CONTEMPORARY INDIAN ARTISTS: (A) INTRODUCTION OF GRAPHIC ART (B) APPRECIATION OF THE FOLLOWING DECCAN PAINTINGS: CHILDREN, DEVI, OF WALLS, MAN,WOMAN AND TREE.	COMPOSITION WITH BIRDS	6

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1st		REVISION		
2nd		REVISION		
3rd		MID TERM EXAM		
4th		DURGA PUJA VACATION		

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	OBJECT & NATURE STUDY	STILL LIFE, LANDSCAPE & COMPOSITION	STILL LIFE DRAWING & LANDSCAPE COLOURING TECHNIQUE	6
2 nd	UNIT- IV SCULPTURES OF THE CONTEMPORARY INDIAN ARTISTS	SCULPTURES: (A) TRIUMPH OF LABOUR (B) SANTHAL FAMILY	OBJECTS COMPOSITION	6
3 rd	UNIT- IV SCULPTURES OF THE CONTEMPORARY INDIAN ARTISTS	SCULPTURES: (A) CRIES UN HEARD (B) GANESHA	NATURE COMOSITION	6
4 th	DIWALI & CHHATH VACATION			

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	PORTFOLIO MAKING			6
2 nd	PORTFOLIO MAKING			6
3 rd	REVISION			
4 th	REVISION			

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

JANUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

FEBRUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				1
2 nd				
3 rd				
4 th				

MARCH

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

SUBJECT- HINDI CORE**APRIL**

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	आरोह-2 पाठ- 1	आत्म परिचय , एक गीत	हरिवंश राय बच्चन की रचनाओं का माइंड मैप	8
2 nd	आरोह-2 पाठ- 11	भक्तिन	महादेवी की रचनाओं का परिचय	8
3 rd	वितान -2 पाठ- 1	सिल्वर वैडिंग, अनुच्छेद		8
4 th	अभिव्यक्ति और माध्यम, अध्याय -3	विभिन्न माध्यमों के लिए लेखन		8

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	आरोह- 2 पाठ- 2,3	पतंग, कविता के बहाने, बात सीधी थी पर		8
2 nd	आरोह- 2 पाठ -12	बाज़ार-दर्शन, पत्र- लेखन	बाज़ार की चकाचौंध फिज़ूलखर्ची की ओर धकेलती है।' विषय पर परिचर्चा	8
3 rd	_____	_____		
4 th	_____	_____		

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd	आरोह-2, पाठ 4, 14	कैमरे में बंद अपाहिज ,काले मेघा पानी दे	वंचितों के लिए संवेदना नहीं सहयोग' विषय पर 100 से 150 शब्दों का निबंध	8
4 th	वितान-2.पाठ-2	जूझ		8

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	आरोह-2,पाठ-6	उषा, पहलवान की ढोलक		8
2 nd	आरोह-2,पाठ-14	पहलवान की ढोलक		8
3 rd	अभिव्यक्ति और माध्यम, अध्याय 4	पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया	पत्रकारीय लेखन के विभिन्न रूपों का माइंड मैप	8
4 th	अभिव्यक्ति और माध्यम, अध्याय 5	विशेष लेखन: स्वरूप और प्रकार		8

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	(आरोह-2)पाठ-7 ,(वितान2) पाठ-3	बादल राग, अतीत के दबे पाँव		8
2 nd	आरोह-2,पाठ-8	कवितावली, लक्ष्मण मूर्छा और राम का विलाप	चार्ट के माध्यम से तुलसी के विभिन्न ग्रंथों का सामान्य- परिचय	8
3 rd	(आरोह-2)पाठ-17,9	शिरीष के फूल, रुबाइयाँ	स्वरचित गज़ल	8
4 th	अभिव्यक्ति और माध्यम, अध्याय- 11	कैसे करें कहानी का नाट्य- रूपांतरण		8

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		पुनरावलोकन	स्वरचित गज़ल	
2 nd		पुनरावलोकन		
3 rd				
4 th				

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	आरोह-2,पाठ-10	छोटा मेरा खेत, बंगूलों के पंख		8
2 nd	आरोह-2,पाठ-18	श्रम विभाजन और जाति प्रथा, मेरी कल्पना का आदर्श समाज	वर्तमान परिपेक्ष्य में जाति का औचित्य' विषय पर डिबेट(पक्ष - विपक्ष	8
3 rd	अभिव्यक्ति और माध्यम, अध्याय- 12	कैसे बनता है रेडियो नाटक	रेडियो नाटक बनाने की तकनीक पर माइंड मैप	8
4 th	व्याकरण	अपठित गद्यांश, पद्यांश, अनुच्छेद ,पत्र		8

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	अभिव्यक्ति और माध्यम, अध्याय- 13	नए और अप्रत्याशित विषयों पर लेखन		8
2 nd	व्याकरण	पत्र व अनुच्छेद लेखन		8
3 rd		पुनरावलोकन		
4 th		पुनरावलोकन		

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

JANUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

FEBRUARY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				

3rd				
4th				

MARCH

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST				
2nd				
3rd				
4th				

SUBJECT- BIOLOGY

APRIL

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
1	Chapter-1 Sexual Reproduction in Flowering Plants	Flower structure; development of male and female gametophytes, Pollination- Types, agencies and examples; out breeding devices, pollen -pistil interaction	Prepare a temporary mount to observe pollen germination	10
2	Chapter-1 Sexual Reproduction in Flowering Plants	double fertilisation, post fertilisation events- development of endosperm and embryo, development of seed and formation of fruit; special modes - apomixis, parthenocarpy, polyembryony, significance of seed dispersal and fruit formation.	Controlled Pollination- Emasculation, tagging and bagging	10
3	Chapter-2 Human Reproduction	Male and female reproductive systems, microscopic anatomy of testis and ovary; Gametogenesis- Spermatogenesis and oogenesis; menstrual cycle	Identification of stages of gametes development i.e T.S of Testis and T.S of Ovary	
4	Chapter-2 Human Reproduction	Fertilization, embryonic development upto blastocyst, Implantation, pregnancy and placenta formation, parturition, lactation.	T.s of Blastula through permanent slides (Mammalian)	

MAY

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
1	Chapter-3 Reproductive Health	Need for reproductive health and prevention of sexually transmitted Diseases (STDs); birth control, MTP, amniocentesis, infertility and assisted reproductive technologies- IVF, ZIFT, GIFT		8

2	Chapter-4 Principles of Inheritance and variation	Heridity and variation: Mendelian inheritance, deviation from Mendelism- Incomplete dominance, Co-dominance, multiple alleles and inheritance of blood groups, pleiotropy, polygeni inheritance, Chromosomes and genes, Sex determination- in human, birds and honey bee, linkage and crossing over, Sex linked inheritance, Mendelian disorders in humans, chromosomal disorders in humans.	Mendalian inheritance using seeds of different colour/sizes of any plants	8

JUNE

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
3	Chapter-5 Molecular Basis of Inheritance	Search for genetic material and DNA as genetic material, structure of DNA and RNA		8
4	Chapter-5 Molecular Basis of Inheritance	DNA Packaging, DNA replication, Central dogma, transcription,genetic code, translation		

JULY

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
1	Chapter-5 Molecular Basis of Inheritance	gene expression and regulation- lac operon		
2	Chapter-5 Molecular Basis of Inheritance	Genome, Human and rice genome projects, DNA fingerprinting.		
3	Chapter-6 Evolution	Origin of life, biological evolution(paleontology, comparative anatomy, embryology and molecular evidences), Darwin's contribution, modern synthetic theory of evolution	Prepare pedigree chart of any one genetic traits	5
4	Chapter-6 Evolution	mechanism of evolution- variation and natural selection with examples,types of natural selection, Gene flow and genetic drift, Hardy - Weinberg's principle , adaptive radiation, human evolution		

AUGUST

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
1	Chapter-7 Human Health and Diseases	Pathogens; parasites causing human diseases(malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ringworm) and their control		8
2	Chapter-7 Human Health and Diseases	Basic concepts of immunology- vaccines, cancer, HIV and AIDS; Adolescence- drug and alcohol abuse		
3	Chapter-8 Microbes in Human Welfare	Microbes in food processing, industrial production, sewage treatment, energy generation, Microbes as bio- control agents, bio- fertilizers and antibiotics		7
4	Chapter-9 Biotechnology- principles and processes	Genetic Engineering (Recombinant DNA Technology), Genetic Engineering (Recombinant DNA Technology)		10

SEPTEMBER

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
1				
2	Exam			
3	Exam			
4	Chapter-10 Biotechnology and its applications	Application of biotechnology in health and agriculture; Human insulin and vaccine production stem cell technology		10

OCTOBER

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
2	Chapter-10 Biotechnology and its applications	Gene therapy, genetically modified organisms- Bt crops, transgenic animals, biosafety issues, biopiracy and patents.	Study the plant population density by quadrat method	
3	Chapter-11 Organism and population	Population interaction, mutualism, competition, predation, parasitism, population attributes- growth, birth rate and death rate, age distribution		10

NOVEMBER

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED
------	---------	-------	--------------------	-------------------------

1	Chapter- 12 Ecosystem	Ecosystems- patterns, productivity,components and decomposition		7
2	Chapter- 12 Ecosystem	Energy flow, pyramids of number,biomass and energy.		
3	Chapter-13 Biodiversity and it's conservation	Biodiversity- concept patterns, importance, loss of biodiversity, biodiversity conservation		7
4	Chapter-13 Biodiversity and it's conservation	Hotspot, endangered organisms, extinction, Red data book, sacred groves, biosphere reserves, national parks, wildlife sanctuaries and Ramsar sites		

DECEMBER

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED

JANUARY

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED

FEBRUARY

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED

MARCH

WEEK	CHAPTER	TOPIC	PRACTICAL/ACTIVITY	No. Of PERIODS REQUIRED

APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		Revision Tour of Class XI List & Dictionary	Blackboard, Chalk-Duster, Projector, Computer Lab	8
2 nd	Unit 1: Data Handling using Pandas -I	Introduction to Python libraries- Pandas, Matplotlib;	Create Series, Data frames and apply various operations.	8
3 rd		Data structures in Pandas - Series and Data Frames.		8
4 th		Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head() and Tail() functions; Selection, Indexing and Slicing.	Create a panda's series from a dictionary of values and a ndarray	8

MAY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head() and Tail() functions; Selection, Indexing and Slicing.		8
2 nd		Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head() and Tail() functions; Selection, Indexing and Slicing.	Given a Series, print all the elements that are above the 75th percentil	8
3 rd		SUMMER VACATION		
4 th		SUMMER VACATION		

JUNE				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		SUMMER VACATION		
2 nd		SUMMER VACATION		
3 rd		Data Frames: creation- from dictionary of Series, list of dictionaries, Text/CSV files, display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing;		8
4 th		Data Frames: creation- from dictionary of Series, list of dictionaries, Text/CSV files, display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing;	Create a Data Frame quarterly sales where each row contains the item category,	8

JULY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				8
2 nd	Data Visualization	Importing/Exporting Data between CSV files and Data Frames.	lize data using relevant gr	8

3 rd		Importing/Exporting Data between CSV files and Data Frames.		8
4 th		Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots.	item name, and expenditure. Group the rows by the category and print the total expenditure per category.	8

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Unit 2: Database Query using SQL	Revision of database concepts and SQL commands covered in class XI		8
2 nd		Database Concepts: Introduction to database concepts and its need, Database Management System.	Design SQL queries using aggregate functions	6
3 rd		Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE, UPDATE		8
4 th		Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().	Import/Export data between SQL database and Pandas	8

SEPTEMBER

WEEK		TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by. Working with two tables using equi-join		8
2 nd				8

3rd	Unit 3: Introduction to Computer Networks	Introduction to networks, Types of network: PAN, LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP.	Learn terminology related to networking and internet.	8
4th		Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Identify internet security issues and configure browser settings.	7

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST		Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR),		5
2nd	Unit 4: Societal Impacts	plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act.	Understand the impact of technology on society including gender and disability issues	8
3rd		E-waste: hazards and management		8
4th		Awareness about health concerns related to the usage of technology.	Importing and exporting data between pandas and CSV file	8

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	Interface of Python with SQL	Interface of Python with SQL Database, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format.	connectivity of python with mysql	8
2nd	Interface of Python with SQL	display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format.	use of different functions used in connectivity	8
3rd	Pre- Board 01 / Revision			—
4th				

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	Pre- Board 02/ Revision	Solving Sample Papers	Quiz	—
2nd	Revision	Solving Sample Papers	Practice of Viva Test	—
3rd	Pre- Board 03/ Revision	Solving Sample Papers	Board Test	—
4th	Revision	Solving Sample Papers	Board Test	—

JANUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
FEBRUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				
MARCH				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

SUBJECT-ECONOMICS

APRIL				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	National Income and Related Aggregates	What is Macroeconomics? Consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation	Group discussion on basic economic terms	8
2 nd	National Income and Related Aggregates	Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product GDP Deflator, GDP and Welfare (GDP) and Net Domestic Product (NDP) - at market price, at factor cost; Real and Nominal GDP GDP Deflator, GDP and Welfare	Worksheet on GDP, GNP, NDP, etc concepts	8
3 rd	National Income and Related Aggregates	Circular flow of income (two sector model); Methods of calculating National Income - Value Added or Product method, Expenditure method, Income method	Numerical practice session	8
4 th	National Income and Related Aggregates	Methods of calculating national income - Value Added method, Expenditure method, Income method	Numerical practice session	8

MAY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	Development Experience (1947-90) and Economic Reforms since 1991	A brief introduction of the state of Indian economy on the eve of independence. Indian economic system and common goals of Five Year Plans	Debate on pre-independence economy	8
2 nd	Development Experience (1947-90) and Economic Reforms since 1991	Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI – role & importance) and foreign trade	Brief discussion on the 7 five year plan which occurred from 1950-1990	8
3 rd		SUMMER VACATION		
4 th		SUMMER VACATION		

JUNE

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST		SUMMER VACATION		
2 nd		SUMMER VACATION		
3 rd	Money and Banking	Money – meaning and functions, supply of money - Currency held by the public and net demand deposits held by commercial banks. Money creation by the commercial banking system	Role play on functions of money	8
4 th	Money and Banking	Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank	Analyze past instances where RBI used monetary policy to address specific economic challenges	8

JULY

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
------	---------	-------	----------	-------------------------

1ST	Money and Banking	Control of Credit through Bank Rate, Cash Reserve Ratio (CRR), Statutory Liquidity Ratio (SLR), Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requiremen	Visiting the nearby banks to see how it functions	8
2nd	Development Experience (1947-90) and Economic Reforms since 1991	Economic Reforms since 1991: Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST	Group discussion on LPG reforms	8
3rd	Current challenges facing Indian Economy	Human Capital Formation: How people become resource; Role of human capital in economic development; Growth of Education Sector in India	Case study on skill development programs	8
4th	Determination of Income and Employment	Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal)	Numerical problem solving sessions	8

AUGUST

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	Determination of Income and Employment	Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment	Case study on unemployment in India	8
2nd	Determination of Income and Employment	Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply	Difference between monetary policy and fiscal policy	8
3rd	Current challenges facing Indian Economy	Rural development: Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming	Role play on rural economy	8
4th	Current challenges facing	Employment: Growth and changes in work force participation rate in formal and informal sectors; problems and policies	Quiz on employment trends	8

SEPTEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST		Revision/Mid Term Exam		
2nd		Revision/Mid Term Exam		

3rd		Revision/Mid Term Exam		
4th		Revision/Mid Term Exam		

OCTOBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1st	Government Budget and the Economy	Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts;	Class presentation on government budget concepts	8
2nd	Government Budget and the Economy	Classification of expenditure – revenue expenditure and capital expenditure. Balanced, Surplus and Deficit Budget – measures of government deficit.	Role play on presentation of budget	8
3rd	Current challenges facing Indian Economy	Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming	Poster-making competition	8
4th		Deepawali and Chhat Puja		

NOVEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1st	Balance of Payments	Balance of payments account - meaning and components; Balance of payments – Surplus and Deficit	Chart making on BOP components	8
2nd	Balance of Payments	Foreign exchange rate - meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market, Merits and demerits of flexible and fixed exchange rate. Managed Floating exchange rate system	Discussion on the importance of foreign exchange	8
3rd	Development Experience of India	A comparison with neighbours India and Pakistan India and China	Group presentation on comparative analysis	8
4th	Development Experience of India	Issues: economic growth, population, sectoral development and other Human Development Indicators	Collect recent stats related India, China and Pakistan	8

DECEMBER

WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

JANUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

FEBRUARY				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

MARCH				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST				
2 nd				
3 rd				
4 th				

SUBJECT - MUSIC				
APRIL				
WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	XII	Theory of Raag Bhairav	Write and remember the theory	6
2 nd		Raag Bhairav Aalap,Bandish		6
3 rd		Raag Bhairav Taan	Write and remember the theory	6

4 th		Study of Taal Jhaptaal		6
-----------------	--	------------------------	--	---

MAY				
WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	XII	Thah, Dugun,Tigun and Chaugun of Taal Jhaptaal	Write and remember the theory	6
2 nd		Detail study of Sangit Parijat	Write and remember the theory	6
3 rd		Summer Vacation	Summer Vacation	
4 th		Summer Vacation	Summer Vacation	

JUNE				
WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	XII	Summer Vacation	Summer Vacation	
2 nd		Summer Vacation	Summer Vacation	
3 rd		Study of Gram and murchnana	Write and remember the theory	6
4 th		Study of Alap,Tan and Kan	Write and remember the theory	6

JULY				
WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	XII	Study of Rupak Taal	Theory and Practical	6
2 nd		Description of Rupak taal	Theory and Practical	6
3 rd		Taal notation of Rupak taal	Theory and Practical	6
4 th		Description and notation of Raag Bageshri	Theory and Practical	6

AUGUST				
WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1 ST	XII	Brief study of Murki and Gamak	Write and remember the theory	6
2 nd		Brief study of Alankar, Meend and Khatka	Write and remember the theory	6

3rd		Detail study of Sangeet Ratnakar	Theory	6
4th		Life sketch and contribution of Faiyaz Khan	Theory	6

SEPTEMBER

WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	XII	Life sketch and contribution of Gulam Ali Khan	Theory	6
2nd		Description of Dhamar taal with taal notation with thah and dugun	Theory and Practical	6
3rd		Tigun and Chaugun of Dhamar taal	Theory and Practical	6
4th		Historical development of Time Theory of Ragas	Theory	6

OCTOBER

WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	XII	D.P vacation	D.P vacation	
2nd		Recognising Ragas from Phrases	Theory and Practical	6
3rd		Life sketch and contribution of Krishna Rao Shankar Pandit	Theory	6
4th		Diwali and chhath vacation	Diwali and chhath vacation	

NOVEMBER

WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	XII	Description of Tanpura	Theory and Practical	6
2nd		Tuning and playing of tanpura	Theory and Practical	6
3rd		Description of Raag Malkauns	Theory	6
4th		Notation of Raag Malkauns	Theory and Practical	6

DECEMBER

WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	XII	Revision	Revision	6
2nd		Revision	Revision	6
3rd		Revision	Revision	6
4th		Revision	Revision	6

JANUARY

WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST		Winter Break	Winter Break	

2nd	XII	Revision	Revision	6
3rd		Revision	Revision	6
4th		Revision	Revision	6

FEBRUARY				
WEEK	CLASS	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	XII	Revision	Revision	6
2nd		Revision	Revision	6
3rd		Revision	Revision	6
4th		Revision	Revision	6

MARCH				
WEEK	CHAPTER	TOPIC	ACTIVITY	No. Of PERIODS REQUIRED
1ST	XII	ANNUAL EXAM	ANNUAL EXAM	
2nd		ANNUAL EXAM	ANNUAL EXAM	
3rd		ANNUAL EXAM	ANNUAL EXAM	
4th		ANNUAL EXAM	ANNUAL EXAM	