CLASS XII (PHYSICS) 2022-2023

MONTH FOR COMPLETION	TOPIC	Practicals
MARCH-APRIL	**Electrostatics**	1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.
		2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
	Current Electricity :	3. To verify the laws of combination (series) of resistances using a metre bridge.
MAY	**Magnetic Effect of Current and Magnetism**	4. To verify the laws of combination
		5. To compare the EMF of two given primary cells using potentiometer.
JULY	**Electromagnetic Induction and Alternating Current**	6. To determine the internal resistance
A		7. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
SEPTEMBER	**Electromagnetic Waves**	8. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.9. To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.
SEPTEMBER	**Optics**	1. To find the value of v for different
		3. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
	REVISION FOR MID TERMS	
OCTOBER	**Dual Nature of Radiation and Matter**	4. To find the focal length of a concave lens, using a convex lens.
OCTOBER	**Atoms and Nuclei**	5. To determine angle of minimum
OCTOBER		6. To determine refractive index of a glass slab using a travelling microscope.

NOVEMBER	**Electronic Devices**	7. To find refractive index of a liquid by using convex lens and plane mirror.
		8. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. 9. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.
DECEMBER	REVISION FOR PRE BOARD	

XII- (Business Stuides)

Month	Topic	Activity	Project work
March- April	1. Nature & Significance of Management 2. Principles of Management	To study the nature of management, its principles & Environment (Revision & Test)	
May	3. Business Environment 4. Planning 5. Organising	To study the Meaning & Process of Planning and Organising	Project work on topic principles of management/ Business enviornment
July	6. Staffing	To study the Meaning & Process of Staffing and elements of Directing	
	7. Directing		
August	8. Controling	To study the concept & Role of Controlling	
Sept.	**Half Yearly Exam**		
Oct.	9. Financial Management	To study the role of Financial Management & Capital Market & Mney	Project work on topic Stock exchange/Marketing
	10. Financial Market		
Nov.	10. Financial Market 11. Marketing	To study the various activites included in Marketing	
Dec.	12.Consumer Protection	To Aware students about rights and responsiblities of consumer	
Jan. & Feb.	Revision and exams		

CLASS –XII Physical education (2022-23)		
MONTH	**TOPIC**	**ACTIVITY**
APRIL	Unit-1 MANAGEMENT OF SPORTING EVENTS	To collect a data about intramural activity for planning and management
	Unit-2 children and women in sports	* TRUECALLER INFORMATION ABOUT THE VARIOUS INTERNATIONAL SPORTS WOMEN PERSONALITY
MAY	UNIT-3 YOGA AS PREVENTIVE	MAKE A CHART OF DIFFERENT YOGA ASANAS POSTER FOR DIFFERENT LIFESTYLE DISEASE
	Practical:-PHYSICAL FITNESS TEST SAI KHELO INDIA TEST BROKPORT PHYSICAL FITNESS TEST PROFICIENCY IN GAMES AND SPORTS (ANY ONE SPORTS)	
	Test and Revision	
JUNE	**SUMMER BREAK**	
JULY	UNIT -4 PHYSICAL EDUCATION AND SPORTS FOR CWSN UNIT-5 SPORTS AND NUTRITION	PLAN ACTIVITY FOR PROMOTION OF CWSN IN VARIOUS SPORTS ACTIVITY MAKE A CHART OF DIFFERENT COMPONENTS OF DIET
AUGUST	UNIT-6 TEST AND MEASUREMENT IN SPORTS	TO CONDUCT A PHYSICAL FITNESS TEST AND COLLECT A DATA AND EXPLAIN DATA PROCEDURE IN PRACTICAL WAY
	UNIT-7 PHYSIOLOGY AND INJURIES IN SPORTS	
	UNIT-8 BIOMECHANICS AND SPORTS	

SEPTEMBER	HALF YEARLY EXAMS	
	Practical - YOGA PRACTICES FOR PREVENTIVE LIFESTYLE DISEASE	
OCTOBER	UNIT - 9. PSYCHOLOGY AND SPORTS	
NOVEMBER	**UNIT-10 TRAINING IN SPOR**	MAKE A CHART OF VARIOUS TRAINING METHODS FOR DEVELOPING DIFFERENT COMPONENTS OF PHYSICAL FITNESS
DECEMBER	**REVISION AND PREBOARD EXAMS**	

CLASS –XII ECONOMICS (2022-23)		
MONTH	**TOPIC**	**ACTIVITY**
APRIL	**Part-A Introductory Macroeconomics** 1. National Income and Related Aggregates 2. Money Revision and Test	To study the different methods to calculate National Income and supply of Money
MAY	* Banking * Banking 3. Determination of Income and Employment (continue.)3. Determination of Income and Employment (continue.) Test and Revision	To study the banking system and to Determine the level of income output and employment in the economy
JUNE	**SUMMER BREAK**	
JULY	3. Determination of income and Employment3. Determination of income and Employment	To study about the components of government Budget
AUGUST	4. Government budget 5. Balance of Payment and Foreign Exchange Rate **Part- B Indian Economic Development** **6.** Development Experience (1947-90) and Economic reforms since 1991(conti.)	To study about the Balance of Payment and Foreign Exchange rate and also the development experience of Indian economy

SEPTEMBER	HALF YEARLY EXAMS	
	Unit -6 (Contiued)	
OCTOBER	**7.** Current Challenges facing Indian Eonomy	
NOVEMBER	**8. Development experience of India- A comparisons with neighbours**	
DECEMBER	**REVISION AND PREBOARD EXAMS**	

D.A.V.C.PUBLIC SCHOOL,JIND
MONTHLY PLANNER,ACCOUNTANCY CLASS XII

MONTH	TOPIC	ACTIVITY
March	Ch-2 Accounting for Partnership Firm – Fundamenta	Partnership: features, Partnership Deed.Provisions of the Indian Partnership Act 1932in the absence of partnership deed. • Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriationaccount- division of profit among partners, guarantee of profits.
April	Ch-2 Accounting for Partnership Firm – Fundamenta	**Past adjustments**
	Ch-3 Goodwill: Nature and Valuation	**Goodwill: nature, factors affecting and methods of valuation - average profit, superprofit and capitalization.**
May	Ch-4 Change in Profit Sharing Ratio	sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves and accumulated profits. Preparation of revaluation account and balance sheet.
	Ch-5 Admission of a Patner	- effect of admissionof a partner on change in the profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and reassessment of liabilities, treatment of reserves and accumulated profits.
July	Ch-5 Admission of a Patner (Contd.)	Adjustment in Capital Account
	Ch-6 Retirement of a Partner	effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits and reserves and preparation of balance sheet.
August	Ch-7 Death of a Partner	Calculation of deceased partner's share of profit till the date of death.
	Ch-8 Dissolution of a Partnership Firm	meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlementof accounts - preparation of realization account, and other related accounts: capitalaccounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s)).

September October	Ch-9 Company Account: Accounting for Share Capital	Share and share capital: nature and types. • Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares - over subscription and under subscription of shares; issue at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash. • Concept of Private Placement and EmployeeStock Option Plan (ESOP). • Accounting treatment of forfeiture and re-issue of shares. • Disclosure of share capital in the BalanceSheet of a company
	Ch-10 Company Account: Issue of DEbentures	Debentures: 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 securityconcept, interest on debentures. Writing off discount / loss on issue of debentures.
November-December	Ch-1 Financial Staemenr of a Company	Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act,2013)
	Ch-2 Financial Staemenr of a Company	Financial Statement Analysis: Objectives, importance and limitations.
	Ch-3 Accounting Ratios	Accounting Ratios: Meaning, Objectives, 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. • Activity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio and Working Capital Turnover Ratio.Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment.
	Ch-4 Cash Flow Statement	Meaning, objectives and preparation (as perAS 3 (Revised) (Indirect Method only) Note: (i) Adjustments relating to depreciation and amortization, profit or loss on sale of assets includinginvestments, dividend (both final and interim) and tax. (ii) Bank overdraft and cash credit to be treated asshort term borrowings. (iii) Current Investments to be taken as Marketable securities unless otherwise specified.

CLASS-XII CHEMISTRY 2022-2023 SYLLABUS PLANNER

MONTH	TOPIC	ACTIVITY
MARCH-APRIL	1. SOLUTION	EXPERIMENTAL DEMONSTRATION OF COLLIGATIVE PROPERTIES
MAY	2. ELECTROCHEMISTRY	TO PREPARE GALVANIC CELL
	3. CHEMICAL KINETICS	TO STUDY RATE AND ORDERS OF REACTIONS
JULY	4.D & F BLOCK ELEMENTS	TO PREPARE MODELS
AUGUST	5. CO-ORDINATION COMOUNDS	TO DRAW ISOMERISM OF CO-ORDINATION COMPLEXES AND COLOUR DETECTION
	REVISION FOR 1 st PERIODIC TEST	
SEPTEMBER	1 st PERIODIC TEST	
	6. HALOALKANES AND HALOARENES	ASSEMBLE ALL PREPARATION METHOD ON CHART
OCTOBER	7. ALCOHAL,PHENOL & ETHERS	TO PREPARE FLOW CHART OF PREPRATIONS AND CHEMICAL REACTIONS
	9.ALDEHYDE,KETONES,CARBOXYLIC ACID	TO PREPARE FLOW CHART
NOVEMBER	9.ALDEHYDE,KETONES,CARBOXYLIC ACID	TO PREPARE FLOW CHART OF DISTINGUISH TEST
	10.AMINES	TO PREPARE CHART ON NAMING REACTIONS
	11.BIOMOLECULES	TESTING OF CARBOHYDRATES AND PROTIEN
DECEMBER	REVISION AND PRE-BOARDEXAMS	
JAN.,FEB.	REVISION AND FINAL EXAMS	

Class XII - INFORMATION TECHNOLOGY – 802			
SESSION: 2022-23			
Month	**Topic**	Teaching Aids	Activities
April	**PART-B**		
	Unit-1 Database Concept-RDBMS	Chalk , Green Board	MY SQL Command, Text Book
May	**Unit -1 Database Concept-RDBMS**	Chalk , Green Board	MY SQL Command, Text Book
July	**Unit-2 Operating Web Based Application**	Projector, Computer	Hand on Learning
August	**Unit-3 Fundamental of Java Programming**	Projector, Computer	Experiments, Projects
September		Re	
October	**Unit-3 Fundamental of Java Programming**	Projector, Computer	Experiments, Projects
	Unit -4 Work Integrated Learing IT-DMA	Projector, Computer	Experiments, Projects
	PART-A		
November	**Unit -2 Self Management Skils**	Projector, Computer	Oral Test, Pen Paper Test
	Unit-3 Basic ICT Skills		
December	**Unit-4 Entreprenurial Skills**	Chalk , Green Board	Oral Test, Pen Paper Test
	Revison & Pre-Board Examination		

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Self-Management Skills- IV	2	2	4
2	ICT Skills- IV	2	1	3
3	Entrepreneurial Skills- IV	2	2	4
	TOTAL QUESTIONS	6	5	11
	NO. OF QUESTIONS TO BE ANSWERED	Any 4	Any 3	07
	TOTAL MARKS	1 x 4 = 4	2 x 3 = 6	10 MARKS

PART B - SUBJECT SPECIFIC SKILLS (50 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANS. TYPE QUES.- I	SHORT ANS. TYPE QUES.- II	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	3 MARKS EACH	4 MARKS EACH	
1	Database Concepts	10	2	1	1	14
2	Operating Web Based Applications	9	0	0	1	10
3	Fundamentals of Java programming	12	2	1	3	18
4	Work Integrated Learning IT	1	1	1	0	3
	TOTAL QUESTIONS	32	5	3	4	45
	NO. OF QUESTIONS TO BE ANSWERED	26	Any 3	Any 2	Any 3	34
	TOTAL MARKS	1 x 26= 26	2 x 3 = 6	3 x 2 = 6	4 x 3 = 12	50 MARKS

XII Music			
Month	Topices	Teaching Aids	Activities
April	Alankar, Life Sketch of Bade Gulam Ali Khan , Varna , Description of Raag Bhairav, Pt. Krishan Rav Shankar	Chalk, Duster, Board, Animared video Harmonium,Tabla and Taanpura	prepare file of Raag Bhairav Write any 10 Alankar in file
May	Taal Rupak with hand beats Theory:- Gram, Gamak, Alankar Work of Pt. Bhatkhande	Chalk, Duster, Board, Animared video Harmonium,Tabla and Taanpura	prepare file of Taal Rupak and Ek Taal
June	Summer Break		
July	Raag , Taal Tilwara with hand beats Theory:- Description Taal ,Laya and its types, Time Theory of Raagas	Chalk, Duster, Board, Animared video Harmonium,Tabla and Taanpura	prepare file of Taal Tilwara
August	Dhamar With hand beats ekgun & Dugun Theory : sangeet Ratnakar, various parts and Tuning of taanpura	Chalk, Duster, Board, Animared video Harmonium,Tabla and Taanpura	prepare file of Taal Dhamar and Raag Bageshree
September	Revision & Exams		
October	practical: Raag Malkauns With aarh avroh & pakar Theory : Classification of raaga vergikaran anicent medieval and modren Sangeet parizat, life sketch of ustad Abdul Karim Khan	Chalk, Duster, Board, Animared video Harmonium,Tabla and Taanpura	Prepare file of Raag Malkauns & Singing Practice
November	Practical : Raag Shudh Sarang,Jhup Taal dugun & chaugun With hand beats Theory: Meend, Khatka, murki, kan, Murchanna, Gram, Gamak life sketch of ustad Faiyaz Khan Recognize the raag by its swara	Chalk, Duster, Board, Animared video Harmonium,Tabla and Taanpura	Prepare file of Raag Shudh Sarang and Jhup Taal
December	Revision & Exams		
January	Practical practice of all raagas and revision	Chalk, Duster, Board, Animared video Harmonium,Tabla and Taanpura	Prepare Practical file And Project File etc. for Final Examination.

CLASS XII (MATHEMATICS)

MONTH	NAME	CONTENTS WITH SUB TOPICS	ACTIVITY/PROJECT
APRIL	RELATION AND FUNCTION	Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.	To verify that the Relation R on the set L of all lines in a plane is an equivalence relation
	INVERSE TRIGNOMETRIC FUNCTION	Definition, range, domain, principal value branch. Graphs of inversetrigonometric functions.	To DRAW THE Graph of inverse trigonometric function and demonstrate the concept of mirror reflection(about the line Y= X)
MAY	MATRICES	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2).Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).	
	DETERMINANTS	Determinant of a square matrix (up to 3 x 3 matrices), properties of determinants, minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	
JULY	CONTINUITY AND DIFFERENTIABILITY	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.	To represent the derivative of a point graphically

	APPLICATION OF DERIVATIVES	Applications of derivatives: rate of change of bodies, increasing/decreasing functions, tangents and normals, use of derivatives in approximation, 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).	To make a chart of the formulae of Application of calculus . To find the absolute maximum and minimum value
			To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.
AUGUST	INTEGRALS	Integration as inverse process of differentiation.Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following type and problem based on them	
		Fundamental Theorem of Calculus (without proof).Basic properties of definite integrals and evaluation of definite integrals.	To evaluate the definite integral as the limit of a sum and verify it by actual integration
SEPT			
OCT	**APPLICATION OF THE INTEGRALS**	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only).	

	DIFFERENTIAL EQUATIONS	Definition, order and degree, general and particular solutions of a differential equation.formation of differential equation whose general solution is given.Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: dy/ dx + py = q, where p and q are functions of x or constants. dx/dy + px = q, where p and q are functions of y or constants.	Formation of a differential equation
0CT - Nov.	**VECTORS**	Vectors and scalars, magnitude and direction of a vector.Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.	To verify that angle in a semicircle is a right angle, using vector method
	THREE-DIMENSIONAL GEOMETRY	Direction cosines and direction ratios of a line joining two points.Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines.Cartesian and vector equation of a plane.Angle between (i) two lines.	To verify that angle between two planes is the same as the angle between their normal
	LINEAR PROGRAMMIN	Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), optimum feasible solution (upto three non-trivial constraints).	
	PROBABILITY	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.	To find the conditional probability of any two events

Biology

Month	Contents	Activities/Practicals/Teaching Aids
APRIL	Chap.-1 Reproduction in organisms	Use of PPTs, and use of Green Board
	Chap.-2 Sexual Reproduction in flowering plants	Study of floral parts,Slides ,germination of pollen grains on slide
	Chap.-3 Reproduction in Human	
MAY	Chap.-4 Reproductive health	Use of Green Board and preparation of notes and interactive mode
	Chap.-5Principals of heredity and variations	Plant parts especially pods of pea and plants. Study of pedigree analysis.
JUNE	Chap.-6 Molecular basis of inheritance	Structure of D.N.A. and R.N.A. Use of Green Board .
JULY	Chap.-7 Evolution	Use of Green Board and preparation of Notes .
	Chap.-8 Human health and disease	Use of Green Board and preparation of Notes .local examples of Microbes .
AUG	Chap.-10 Microbes in Human welfare	Use of Green Board ,Preparation of Notes
Sep.	Chap.-11 Biotechnology principal and process	use of Green Board and preparation of Notes .
	Chap.-12 Applications of Biotechnology	Use of Green Board and preparation of Notes .
OCT.	Chap.-13 Organisms and population	study of plant population by quadrate methode
NOV.	Chap.-15 Biodiversity and conservation	Use of Green Board ,Preparation of Notes ,interactive mode