

Guru Gobind Singh Public School Bokaro /Chas/Dhanbad



Syllabus 2025 – 26

Class: XII

GURU GOBIND SINGH PUBLIC SCHOOL

SPLIT UP OF SYLLABUS [SESSION 2025 – 26]

Class: XII

Subject: English – Core

Prescribed Books :

1. **Flamingo:** English Reader published by National Council of Education Research and Training; New Delhi
2. **Vistas:** Supplementary Reader published by National Council of Education Research and Training; New Delhi.

Flamingo:

Prose:

1. The Last Lesson
2. Lost Spring
3. Deep Water
4. The Rattrap
5. Indigo
6. Poets and Pancakes
7. The Interview
8. Going Places

Flamingo:

1. My Mother at Sixty Six
2. Keeping Quiet
3. A Thing of Beauty
4. A Roadside Stand
5. Aunt Jennifer's Tigers

Vistas:

1. The Third Level
2. The Tiger King
3. Journey to the End of the Earth
4. The Enemy
5. On the Face of It
6. Memories of Childhood (Zitkala – Sa & Bama)

| Month | No. of Working Days | Chapters to be covered | Activity/ Projects | Portion of P.T./ Sem. | Prescribed Book | Publication |
|--------|---------------------|---|--------------------|---|---|-------------|
| APRIL | 17 | Flamingo – The Last Lesson; My Mother at Sixty Six; Keeping Quiet Vistas – The Third Level; Writing – Notice; Article; | | PT-1: My Mother at Sixty Six; The Last Lesson ; Notice; Article | Main Reader: Flamingo ; Supplementary Reader: Vistas | |
| MAY | 07 | Vistas – The Tiger King Flamingo – A Thing of Beauty | | | | |
| JUNE | 12 | Flamingo – Lost Spring; Deep Water Vistas – Journey to the End of the Earth; Writing – Invitations & Replies (Formal & Informal) | | PT-2: Lost Spring; Keeping Quiet; The Third Level; Reading Passage | | |
| JULY | 24 | Flamingo – The Rattrap; Indigo Vistas – The Enemy; Writing – Letter to the Editor; Job Application with Bio-data | | PT-3: Deep Water; The Rattrap; Journey to the End of the Earth Invitations & Replies; Letter to the Editor | | |
| AUGUST | 21 | Flamingo – Poets & Pancakes; The Interview; A Roadside Stand; Aunt Jennifer's Tiger Vistas – On the Face of It; Writing – Report Writing | | | | |

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| SEPT | 07 | Vistas – Memories of Childhood(Zitkala -Sa & Bama) REVISION | | PT-4: On the face of it; Roadside Stand; Job Application; Report Writing; Invitation (Informal); Notice | | |
| OCTOBER | 13 | Flamingo – Going Places | | | | |
| NOV | 14 | REVISION & Pre-Board Examination | | | | |



Syllabus (2025-26)

Subject - HINDI CORE (302)

Class –XII

पुस्तकों के नाम --(1).आरोह भाग 2

(2).वितान भाग 2

(3)अभिव्यक्ति और माध्यम

पुस्तकों का मासिक विभाजन:-----

| Month's Name | No. of Working Days | Chapter / Topic | Project/ Assignment | Periodic Test Portion |
|--------------|---------------------|--|---------------------|---|
| April | 17 | गद्य पाठ --1.भक्तिन पद्य पाठ --आत्म परिचय, एक गीत (दिन जल्दी जल्दी ढलता है) वितान --पाठ 1 . सिल्वर वैडिंग जनसंचार माध्यम, अपठित पद्यांश ,आलेख लेखन | परियोजना कार्य | PT--1 1.गद्य पाठ -- भक्तिन 2.पद्य पाठ- दिन जल्दी- जल्दी ढलता है 3. जनसंचार माध्यम 4.अपठित पद्यांश |
| May | 07 | गद्य पाठ --2. बाजार दर्शन पद्य पाठ-- पतंग | | |
| June | 12 | पद्य पाठ-- कविता के बहाने,बात सीधी थी पर रचनात्मक लेखन, कहानी लेखन | | |
| July | 24 | गद्य पाठ--3.काले मेघा पानी दे पद्य पाठ-- कैमरे में बंद अपाहिज, उषा वितान --पाठ 2 - जूझ समाचार लेखन,(उल्टा पिरामिड शैली) आलेख, अपठित गद्यांश, नाटक लेखन, रेडियो नाटक | | PT-2 1.पद्य पाठ- कविता के बहाने 2.गद्य पाठ- बाजार दर्शन 3.वितान - सिल्वर वैडिंग 4.कहानी के तत्व |
| August | 21 | गद्य पाठ--4 पहलवान की ढोलक पद्य पाठ-- बादल राग, कवितावली प्रिंट माध्यम संपादकीय, अपठित पद्यांश, रचनात्मक लेखन | | PT-3 1. पद्य पाठ- कैमरे में बंद अपाहिज 2.पहलवान की ढोलक 3. वितान-- जूझ 4.नाटक, रेडियो |

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| | | | | नाटक |
| September | 07 | गद्य और पद्य ---- पुनरावृत्ति कार्य रचनात्मक लेखन ,फीचर लेखन, आलेख लेखन, | | |
| अर्धवार्षिक परीक्षा | | | | |
| October | 13 | गद्य पाठ—5. शिरीष के फूल पद्य पाठ-- लक्ष्मण मूर्छा और राम का विलाप वितान-- पाठ 3. अतीत में दबे पांव रचनात्मक लेखन, फीचर लेखन | परियोजना कार्य | PT-4 1. गद्य- शिरीष के फूल 2.पद्य-लक्ष्मण मूर्छा और राम का विलाप 3.उल्टा पिरामिड 4. संपादकीय से प्रश्न |
| November | 17 | गद्य पाठ—6. श्रम विभाजन और जाति प्रथा, मेरी कल्पना का आदर्श समाज पद्य पाठ-- छोटा मेरा खेत, बगुलो के पंख वितान पाठ-पुनरावृत्ति कार्य नाटक लेखन, फीचर लेखन,रचनात्मक लेखन- पुनरावृत्ति कार्य | | |
| December | 19 | गद्य, पद्य और वितान--- पुनरावृत्ति कार्य अपठित गद्यांश और पद्यांश, | | |
| January | 14 | प्राक् बोर्ड परीक्षा नोट-- पूरे वर्ष का पाठ्यक्रम वार्षिक परीक्षा में सम्मिलित है। | | |
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नोट:-सीबीएसई के द्वारा नवीन पाठ्यक्रम मिलने के उपरान्त इस पाठ्यक्रम में फेरबदल संभव है।

संस्कृत पाठ्यक्रम 2025-2026
कक्षा-द्वादशी

निर्धारित पुस्तकानि :- पाठ्यपुस्तकानि

- पाठ्यपुस्तकम् : भास्वती, द्वितीयः भागः - रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्
- व्याकरण सौरभम् : (संशोधित संस्करणम्) - रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्
- रचनानुवाद कौमुदी : (सहायक पुस्तकम्) - कपिलदेव द्विवेदी लिखितम्
- संस्कृत साहित्य परिचय : (सन्दर्भ पुस्तकम्) - रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्
- वेद परिजात (अतिरिक्त अध्ययनार्थम्) : रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्

पाठ्यक्रम का मासिक विभाजन-

- अप्रैल (18) - पाठ्यपुस्तकात्-पाठः 1. 'अनुशासनम्' (सरलार्थम् पाठाभ्यास कार्यम्)।
पाठ - 3 'मातुराज्ञा गरीयसी' (सरलार्थम्, पाठाभ्यास - कार्यम्)।
व्याकरणात् - सन्धि प्रकरणात् (स्वर, व्यञ्जन, विसर्ग) - भेदाः उदाहरणानि च। उपपद विभक्ति प्रयोगः। अनुच्छेदलेखनम् अभ्यास कार्यम्। संस्कृतभाषायां अनुवादः।
प्रथम समसामयिकी परीक्षा - पाठात् - पाठ 1 'अनुशासनम्', पठित गद्यांश
पाठ - 3 'मातुराज्ञा गरीयसी'
व्याकरणात् - संवादलेखनम्, उपपदविभक्ति, लघुकथा, सन्धि, संस्कृत अनुवाद।
- मई (08) - पाठ्यपुस्तकात् - 3 'मातुराज्ञा गरीयसी' (सरलार्थम्, पाठाभ्यास - कार्यम्)।
व्याकरणात् - पत्रलेखनम्, संस्कृत अनुवादम्, अपठितं गद्यांशं, संवादे एकपक्षपूरणम्।
प्रथम समसामयिकी परीक्षा - पाठात् - पाठ 1 'अनुशासनम्', पठित गद्यांश
पाठ 3 'मातुराज्ञा गरीयसी'
- जून (09) - पाठ्यपुस्तकात्-पाठः - 4 "प्रजानुरञ्जको नृपः"
व्याकरणात् - प्रत्यय प्रकरणात् - क्त, क्तवतु, शतृ, शानच्, तव्यत्, अनीयर, क्तिन्, मतुप्, इन्, ठक्, त्व, तल् प्रत्ययानां नियमाः उदाहरणानि वाक्य प्रयोगाः चः पत्रलेखनभ्यास कार्यम्, अनुच्छेद लेखनाभ्यासम्। लघुकथां सम्पूरयत अभ्यास कार्यम्। स्त्री प्रत्ययात्-टाप् डीप् प्रत्ययः।
- जुलाई (22) - पाठ्यपुस्तकात्-पाठः 5 'द्वौवारिकस्य निष्ठा' (पाठयोः सरलार्थम् पाठाभ्यासकार्यम्)।
पाठः 6 - 'सूक्ति सौरभम्'
व्याकरणात्-'समासः' (अव्ययीभाव, द्विगु, द्वन्द्वः, तत्पुरुष, कर्मधारय, बहुव्रीहि)
समासस्य भेदाः नियमाः उदाहरणानि च। पञ्चवाक्येषु संस्कृते अनुच्छेद लेखनम्
सामान्य संस्कृत परिचयः - संस्कृत कवीनां परिचयः - संस्कृत महाकाव्यस्य चम्पूकाव्यस्य, गद्यकाव्यस्य विशेषताः संस्कृते लिखत। नाट्यतत्त्वानाम् मुख्यविशेषतानां परिचयः।
द्वितीय समसामयिकी परीक्षा - पाठात् - पाठ 4 "प्रजानुरञ्जको नृपः"
व्याकरणात् - प्रत्यय (क्त, क्तवतु, शतृ), अव्यय, समास, संस्कृत साहित्य परिचय (रिक्त स्थानानि पूरयत)
- अगस्त (19) - पाठ्यपुस्तकात् - पाठः 7 'नैकेनापि समंगता वसुमती' (पाठस्यः सरलार्थम् पाठाभ्यास-कार्यम्)।
व्याकरणात्-कर्त्ता-क्रियान्वितिः अभ्यास-कार्यम्। वाक्येषु विभक्तिनां प्रयोगः।

पठितपाठान्तर्गते गद्यांश, श्लोकांशं, नाट्यांशं पठित्वा प्रश्नान् उत्तरत, श्लोकानां अन्वये रिक्तस्थानानि पूरयत, उचित भावार्थचयनम्, पदानांमेलनम्।

द्वितीय समसामयिकी परीक्षा - पाठात् - पाठ 4 "प्रजानुरञ्जको नृपः"

व्याकरणात् - प्रत्यय (क्त, क्तवतु, शतृ), अव्यय, समास, संस्कृत साहित्य परिचय (रिक्त स्थानानि पूरयत)।

- सितम्बर (08) – पाठाधारितम् सन्धिः, प्रत्ययः, समासविग्रहः, उपपदविभक्तिनां प्रयोगः, कर्त्ताक्रियान्वितिः प्रयोगः, पदानांमेलनम्, प्रसंगानुसारं शुद्धं अर्थचयनम्। संस्कृत साहित्य परिचयात् पुनरावृत्ति-कार्यम् (अर्द्धवार्षिकी परीक्षायाः शुभारम्भः)
- अक्टूबर (15) – पाठ्यपुस्तकात् – पाठः 9 'मदालसा' (सरलार्थम् पाठाभ्यासकार्यम्) सामान्य संस्कृत साहित्य परिचयात् अभ्यास कार्यम्, अपठितं गद्यांशं।
पाठ्यपुस्तकात् – पाठः 11 'कार्याकार्य' – व्यवस्थितिः' (पाठस्य सरलार्थम् पाठाभ्यासम्)
संस्कृत-साहित्य परिचयः-संस्कृत महाकाव्यस्य, खण्डकाव्यस्य, संस्कृत-नाट्यस्य, साहित्य, गद्यकाव्यस्य, चम्पूकाव्यस्य, विशेषताः संस्कृते लिखत। रामायणम्, महाभारतम्, पुराणानि आधारिता प्रश्नाः।
मंजूषा पदसहायताया रिक्तस्थानानि पूरयत अभ्यास कार्यम्।
तृतीय समसामयिक परीक्षा – पाठात् – पाठ 9 'मदालसा', पाठ 11 'कार्याकार्य' – व्यवस्थितिः' (गद्यांशम्/पद्यांशम्)
- नवम्बर (12) – पुनरावृत्ति कार्यम् – व्याकरणात्-समासः' (अव्ययीभाव, द्विगु, द्वन्द्वः, तत्पुरुष, कर्मधारय, बहुव्रीहि) समासस्य भेदाः नियमाः उदाहरणानि च। पंचवाक्येषु संस्कृते अनुच्छेद लेखनम्'
सामान्य संस्कृत परिचयः – संस्कृत कवीनां परिचयः – संस्कृत महाकाव्यस्य चम्पूकाव्यस्य, गद्यकाव्यस्य विशेषताः संस्कृते लिखत। नाट्यतत्त्वानाम् मुख्यविशेषतानां परिचयः।
तृतीय समसामयिक परीक्षा – पाठात् – पाठ 9 'मदालसा', पाठ 11 'कार्याकार्य' – व्यवस्थितिः' (गद्यांशम्/पद्यांशम्)
व्याकरणात् – प्रसंगानुसारं शुद्ध अर्थ चयनम्, उपपदविभक्ति, सन्धि, समास, प्रत्यय, संस्कृत साहित्य परिचय। पाठस्य सन्दर्भग्रन्थः तेषां लेखाकानाम् परिचयः
प्राक्बोर्ड परीक्षायाः शुभारम्भः।
- दिसम्बर (19) – पुनरावृत्ति कार्यम् – अधोलिखितेषु टिप्पणयः लिखत-सूत्रधारः, नान्दी, विदूषकः, नायकः, नायिका, नेपथ्यम् इत्यादयः। (प्रारम्भिक जाँच परीक्षायाः शुभारम्भः)।
- जनवरी (17) – द्रुतगत्या पुनरावृत्ति कार्यम्। प्राक्-बोर्ड परीक्षायाः शुभारम्भः।

नोट :- प्राक् बोर्ड परीक्षायाः सम्पूर्ण पाठ्यक्रमः सम्मिलितः भविष्यति।

—इति शुभम्—

Class -XII**Subject : Mathematics****TEXT BOOKS :** Mathematics Part I and Part II- Text Book for Class XII (NCERT) **REFERENCE BOOKS :**

1. Exemplar (Maths) Problems Class XII(NCERT)

2. Mathematics Part I and II, Class XII R.D. Sharma, by Dhanpat Rai

LABORATORY MANUAL : Laboratory Manual Mathematics CBSE Class XII, Arihant Publication.**TERM-I**

| Months/W.D. | Topic to be taught | Activity/Value |
|--------------------|---|-----------------------|
| April (17) | Unit I: Relations and Functions 1. Relations and Functions Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. 2. Inverse Trigonometric Functions Definition, range, domain, principal value branch. Unit II: Algebra 1. 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 Invertible matrices (Here all matrices will have real entries). | |
| MAY (07) | 2. Determinants Determinant of a square matrix (up to 3×3 matrices), Minors, co-factors and Applications of determinants in finding the area of a triangle. Determinants contd: Adjoint and inverse of a square matrix. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix. | |
| JUNE (12) | 1.Continuity and Differentiability Continuity and differentiability, derivative of composite functions, chain rule. | |
| JULY (24) | derivatives 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. Unit III: Calculus 2. Applications of Derivatives Applications of derivatives: increasing/decreasing functions, tangents and normals, 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). Unit V: Linear Programming 1.Linear Programming Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, + graphical method of solution for problems in two variables, feasible and infeasible regions (bounded and unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints). | |

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| AUGUST (21) | Unit IV: Vectors and Three – Dimensional Geometry 1. 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. 2. 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. Distance of a point from a plane | |
| SEPTEMBER (07) | Unit VI: Probability 1. Probability Conditional probability, multiplication theorem on probability, independent events, total probability, Baye's theorem, Random variable and its probability distribution, Revision for Half Yearly Examination. Half Yearly Examination. Discussion of Half Yearly question papers | |

TERM-II

| Months/W.D | Topic to be taught | Maths Lab Activities |
|---------------|---|----------------------|
| OCTOBER (13) | 3. 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 types and problems based on them, Integrals contd. : Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals. 4. Applications of the Integrals Applications in finding the area under simple curves, especially lines, circles/ parabolas /ellipses (in standard form only), (the region should be clearly identifiable). | |
| NOVEMBER (14) | 5. Differential Equations Definition, order and degree, general and particular solutions of a differential equation. 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. Revision for Pre-Board Examination. | |
| DECEMBER (18) | Revision for Pre-Board Examination. Pre-Board Examination 2025 – 26. Discussion of Pre – Board Question – Papers Discussion of CBSE Sample Papers | |
| JANUARY | Comprehensive Revision for Board Examination 2025 | |

Class -XII**Subject : Applied Mathematics (241)****TEXT BOOKS :** Mathematics Part I and Part II- Text Book for Class XII (NCERT) **REFERENCE BOOKS :**

1. Exemplar (Maths) Problems Class XII(NCERT)

2. Mathematics Part I and II, Class XII R.D. Sharma, by Dhanpat Rai

LABORATORY MANUAL : Laboratory Manual Mathematics CBSE Class XII, Arihant Publication.**TERM-I**

| Months/W.D. | Topic to be taught | Activity/Value |
|-------------------|--|----------------|
| April (17) | UNIT-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS Modulo Arithmetic ,Congruence Modulo UNIT-2 ALGEBRA Matrices and types of matrices ,Equality of matrices, Transpose of a matrix, Symmetric and Skew symmetric matrix ,Algebra of Matrices ,Determinants, Inverse of a matrix ,Solving system of simultaneous equations using matrix method, Cramer's rule | |
| MAY (07) | UNIT-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS Alligation and Mixture, Numerical Problems, Boats and Streams (upstream and downstream), Pipes and Cisterns, Races and Games, Numerical Inequalities | |
| JUNE (12) | UNIT- 3 CALCULUS Higher Order Derivatives Application of Derivatives | |
| JULY (24) | UNIT- 3 CALCULUS Marginal Cost and Marginal Revenue using derivatives ,Increasing /Decreasing Functions, Maxima and Minima, Integration , Indefinite Integrals as family of curves ,Definite Integrals as area under the curve , Application of Integration | |
| AUGUST (21) | Differential Equations and Modeling Differential Equations ,Formulating and Solving Differential Equations ,Application of Differential Equations Probability Distributions Probability Distribution ,Mathematical Expectation ,Variance Binomial Distribution ,Poison Distribution ,Normal Distribution | |
| SEPTEMBER (07) | INFERENTIAL STATISTICS Population and Sample ,Parameter and Statistics and Statistical Interferences ,t-Test (one sample t-test and two independent groups t-test) Revision for Half Yearly Examination. Half Yearly Examination. Discussion of Half Yearly question papers | |

TERM-II

| Months/W.D | Topic to be taught | Maths Lab Activities |
|-----------------|--|----------------------|
| OCTOBER (13) | UNIT – 6 INDEX NUMBERS AND TIME BASED DATA Time Series ,Components of Time Series ,Time Series analysis for univariate data ,Secular Trend ,Methods of Measuring trend UNIT - 7 FINANCIAL MATHEMATICS Perpetuity, Sinking Funds ,Calculation of EMI ,Calculation of Returns, Nominal Rate of Return ,Compound Annual Growth Rate ,Linear method of Depreciation . | |

| | | |
|------------------|--|--|
| NOVEMBER (14) | UNIT - 7 FINANCIAL MATHEMATICS (Cont.....) UNIT - 8 LINEAR PROGRAMMING Introduction and related terminology ,Mathematical formulation of Linear Programming Problem ,Different types of Linear Programming Problems ,Graphical method of solution for problems in two variables ,Feasible and Infeasible Regions Feasible and infeasible solutions, optimal feasible solution. Revision for Pre-Board Examination. Revision for Pre-Board Examination. | |
| DECEMBER (18) | Revision for Pre-Board Examination. Pre-Board Examination 2024 – 25. Discussion of Pre – Board Question – Papers Discussion of CBSE Sample Papers | |
| JANUARY | Comprehensive Revision for Board Examination2024 | |





GURU GOVIND SINGH PUBLIC SCHOOL

SECTOR- V/B, BOKARO STEEL CITY

Syllabus (2025-26)

Class XII

Subject: Physics (042)

Theory (70)

| Unit | Chapter Number & Chapter Name |
|--------|---|
| Unit 1 | Electrostatics |
| | Chapter-1: Electric Charges and Fields |
| | Chapter-2: Electrostatic Potential and Capacitance |
| Unit 2 | Current Electricity |
| | Chapter-3: Current Electricity |
| Unit 3 | Magnetic Effects of Current and Magnetism |
| | Chapter-4: Moving charge & Magnetism |
| | Chapter-5: Magnetism & Matter |
| Unit 4 | Electromagnetic Induction & Alternating Current |
| | Chapter-6: Electromagnetic Induction |
| | Chapter-7: Alternating Current |
| Unit 5 | Electromagnetic Waves |
| | Chapter-8: Electromagnetic Waves |
| Unit 6 | Optics |
| | Chapter-9: Ray Optics & Optical Instruments |
| | Chapter-10: Wave Optics |
| Unit 7 | Dual Nature Radiations & Matter |
| | Chapter-11: Dual Nature Radiations & Matter |
| Unit 8 | Atoms & Nuclei |
| | Chapter-12: Atoms |
| | Chapter-13: Nuclei |
| Unit 9 | Electronic Devices |
| | Chapter-14: Semiconductor, Electronic materials, Devices & Simple Circuits. |

Month Wise Breakup of Syllabus

| Month | Unit No. | Chapter No. | Chapter Details |
|--------------------|----------------------|-------------|--|
| April 2025 (17) | Unit 1 | Chapter1 | Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. 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. Electric flux, statement of Gauss's law 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). |
| | | Chapter2 | 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. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel. |
| May 2025 (7) | Unit 1 (continue) | Chapter 2 | Capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formula only) |
| | Unit 2 | Chapter 3 | Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. |
| June 2025 (12) | Unit 2 (Continue) | Chapter 3 | Series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws, Wheatstone bridge. |
| July 2025 (24) | Unit 3 | Chapter 4 | 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 and toroidal solenoids (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; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter. |
| | | Chapter 5 | Current loop as a magnetic dipole and its magnetic dipole moment, magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; magnetic field lines; magnetic properties of materials Para-, dia- and ferro - magnetic substances, with examples. magnetization of materials, effect of temperature on magnetic properties. |

| | | | |
|--------------------------|----------------------|------------|--|
| July 2025 | Unit 4 | Chapter 6 | Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction. |
| August 2025 (21) | Unit 4 (continue) | Chapter 7 | 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 and Transformer. |
| | Unit 5 | Chapter 8 | Basic idea of displacement current, Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses. |
| | Unit 6 | Chapter 9 | 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, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction and dispersion of light through a prism. |
| September 2025 (7) | Unit 6 (continue) | Chapter 9 | Optical Instruments : Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. Revision & Half yearly Examination |
| October 2025 (13) | Unit 6 (Continue) | Chapter 10 | Wave optics: Wave front and Huygens's principle, reflection and refraction of plane wave at a plane surface using wave fronts Proof of laws of reflection and refraction using Huygens'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 maximum. (Qualitative treatment only) |
| | Unit 7 | Chapter 11 | 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. |
| November 2025 (17) | Unit 8 | Chapter 12 | 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). |
| | Unit 8 | Chapter 13 | 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. |
| | Unit 9 | Chapter 14 | Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier |
| December 2025 (19) | _____ | _____ | Revision & Pre-Board 1 |
| January 2026 (14) | _____ | _____ | Pre-Board 2 Board Practical Examination |

Experiment-(30)

SECTION-A

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.
3. To verify the laws of combination (series) of resistances using a metre bridge.
4. To verify the laws of combination (parallel) of resistances using a metre bridge.
5. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
6. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

SECTION-B

7. To find the value of v for different values of u in case of a concave mirror and to find the focal length.
8. To find the focal length of a convex mirror, using a convex lens.
9. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
10. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
11. To determine refractive index of a glass slab using a travelling microscope.
12. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.
13. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.

Activity

Section-A

1. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.
2. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
3. To assemble the components of a given electrical circuit.
4. To study the variation in potential drop with length of a wire for a steady current.
5. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

Section -B

1. To identify a diode, an LED, a transistor, an IC, a resistor and a capacitor from a mixed collection of such items.
2. To identify electronic component (e.g., diode, transistor or IC) is in working order.
3. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
4. To observe polarization of light using two Polaroids
5. To observe diffraction of light due to a thin slit.
6. To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
7. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

Suggested Investigatory Projects

Class-12

| S.No. | (Unit) | Title | No. of Periods | Marks |
|-------|--------|---|--------------------|-----------|
| 1 | I | Solutions | 10 | 7 |
| 2 | II | Electrochemistry | 12 | 9 |
| 3 | III | Chemical Kinetics | 10 | 7 |
| 4 | IV | d-and f-Block Elements | 12 | 7 |
| 5 | V | Coordination Compounds | 12 | 7 |
| 6 | VI | Haloalkanes and Haloarenes | 10 | 6 |
| 7 | VII | Alcohols, Phenols and Ethers | 10 | 6 |
| 8 | VIII | Aldehydes, Ketones and Carboxylic Acids | 10 | 8 |
| 9 | IX | Amines | 10 | 6 |
| 10 | X | Biomolecules | 12 | 7 |
| | | | Total Marks | 70 |

| Months | No. of Working Days | Chapters to be covered | Contents in detail | Experiment/Project |
|--------|---------------------|---|--|--|
| April | 17 | <p>Unit 1: Solutions. No. of periods: 10 Marks: 07</p> <p>Unit 2: Electrochemistry No. of periods: 12 Marks: 09</p> | <p>Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.</p> <p>Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law,</p> | <p>Titration/Volumetric analysis</p> <p>Experiment-1 To prepare M/20 Mohr's salt solution and with the help of it determine the strength of given KMnO_4 solution in g/L.</p> <p>Experiment-2 To prepare M/40 Mohr's salt solution and with the help of it determine the strength of given KMnO_4 solution in g/L.</p> |

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|-------------|----|--|---|---|
| May | 07 | Unit 2: Electrochemistry cont... | electrolysis and law of electrolysis (elementary idea), electrolytic cells and Galvanic cells, dry cell, lead accumulator, fuel cells. corrosion. | Titration/Volumetric analysis Experiment-3 To prepare M/20 Oxalic acid solution and with the help of it determine the strength of given KMnO_4 solution in g/L. PROJECT PREPARATION FOR FINAL BOARD EXAMINATION |
| June | 12 | Unit 3: Chemical Kinetics. No. of periods: 10 Marks: 07 Unit 6: Haloalkanes and Haloarenes. No. of Periods: 10 Marks: 06 | Rate of reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, 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. Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. | Titration/Volumetric analysis Experiment-4 To prepare M/40 Oxalic acid solution and with the help of it determine the strength of given KMnO_4 solution in g/L. REVISION |
| July | 24 | Unit 6: Haloalkanes and Haloarenes. Unit 7: Alcohols, phenols and Ethers No. of periods: 10 Marks: 06 | Haloarenes: Nature of C-X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of-dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT. Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), Identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols. | Salt analysis Experiment-5 To identify one acidic and one basic radical in given salt sample Experiment-6 To identify one acidic and one basic radical in given salt sample Experiment-7 To identify one acidic and one basic radical in given salt sample |

| | | | | |
|-----------|----|---|---|---|
| | | Unit 8: Aldehydes, Ketones and Carboxylic Acids No. of periods: 10 Marks: 08 | 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. Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses. | |
| August | 21 | Unit 9: Amines. No. of periods: 10 Marks: 06 Unit 4: d-and f-Block Elements No. of periods: 12 Marks: 07 REVISION | Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry. General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, (Not asked in Half yearly examination) REVISION | Salt analysis Experiment-8 To identify one acidic and one basic radical in given salt sample Experiment-9 To identify one acidic and one basic radical in given salt sample |
| September | 07 | REVISION | Half yearly examination | Organic tests Introduction of content based experiments |
| October | 13 | Unit 4: d-and f-Block Elements Continued... | preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$ Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids Electronic configuration, oxidation states and comparison with lanthanoids, | Organic tests Experiment-10 To identify functional group in given organic sample Experiment-11 To identify functional group in given organic sample Experiment-12 To identify functional |

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|----------|----|--|--|--|
| | | Unit 5: Coordination Compounds No. of periods: 12 Marks: 07 | Coordination compounds Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system). | group in given organic sample |
| | | Unit 10: Biomolecules. No. of periods: 12 Marks: 07 | Carbohydrates Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L. configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen), Importance of carbohydrates. | |
| November | 17 | Unit 10: Biomolecules Continued | Proteins - Elementary idea of amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins, enzymes. Hormones - Elementary idea excluding structure. Vitamins Classification and functions. Nucleic Acids . DNA and RNA. Pre-board-1 | Organic test Experiment-13 To identify functional group in given organic sample REVISION |
| December | 11 | REVISION | Pre-board-2 | |
| January | | Retest | | SSCE-Chemistry Practical exam.2026 |

CLASS - XII**Subject : Biology****Syllabus for the whole year (SESSION-2025-2026)****Unit 1 Reproduction****(16 marks)**

Chapter-

- 1) Sexual Reproduction in flowering plant
- 2) Human Reproduction
- 3) Reproductive Health

Unit 2 Genetics & Evolution**(20 marks)**

Chapter-

- 4) Principles of Inheritance and variation
- 5) Molecular Basis of Inheritance
- 6) Evolution

Unit 3 Biology in Human welfare (12 marks)

Chapter-

- 7) Human Health and Disease
- 8) Microbes in Human welfare

Unit 4 Biotechnology and its Applications (12 marks)

Chapter-

- 9) Biotechnology: Principles & Process
- 10) Biotechnology and its application.

Unit 5 Ecology and Environment**(10 marks)**

Chapter-

- 11) Organism and population
- 12) Ecosystem
- 13) Biodiversity and conservation

| Month | Working Days | Chapter/Topic | Content | Periodic Test | Activity/Projects |
|-------|--------------|--|--|--|--|
| April | 17 | 4.Principles of Inheritance and Variation. 5.Molecular Basis of Inheritance | <u>Principles of Inheritance and Variation :</u> Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co- dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - 9 in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans -thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes. <u>Molecular Basis of Inheritance:</u> Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; | PT-1 : CH-5 Principles of Inheritance and Variation. CH-6 Molecular Basis of Inheritance - Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging | A.2. Study the plant population density by quadrat method. 3. Study the plant population frequency by quadrat method. |
| May | 07 | 5.Molecular Basis of Inheritance 1. Sexual Reproduction in Flowering Plants | DNA replication; Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting. <u>Sexual Reproduction in Flowering Plants:</u> Flower structure; development of male and female gametophytes; | | B.1. Flowers adapted to pollination by different agencies (wind, insects, birds). 2. Pollen germination on stigma through a permanent slide or scanning electron micrograph |

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|--------|----|---|--|---|--|
| June | 12 | 1. Sexual Reproduction in Flowering Plants | pollination - types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization; Post fertilization 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. | | B.3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). |
| July | 24 | 2. Human Reproduction. 3. Reproductive Health. 6. Evolution | Human Reproduction: Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea). Reproductive Health: Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness) Evolution: Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution. | PT- :2 CH-6 Molecular Basis of Inheritance - DNA replication; Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting CH-2 Sexual Reproduction in Flowering Plants - Flower structure; development of male and female gametophytes pollination - types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization | A.1. Prepare a temporary mount to observe pollen germination A.4. Prepare a temporary mount of onion root tip to study mitosis. A.5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc. B. 4. Meiosis in onion bud cell or grasshopper testis through permanent slides. 5. T.S. of blastula through permanent slides (Mammalian). |
| August | 21 | 7. Human Health and Diseases | Human Health and Diseases: Pathogens; parasites causing human diseases (malaria, dengue, chickengunya, filariasis, ascariasis, typhoid, pneumonia, common cold, | PT-3 CH-3 - Human Reproduction (Full chapter) | B. 6. Mendelian inheritance using seeds of different colour/sizes of any |

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|-----------|----|--|---|---|---|
| | | <p>8. Microbes in Human Welfare.</p> <p>9. Biotechnology: Principles & Process</p> | <p>amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.</p> <p><u>Microbes in Human Welfare:</u> Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.</p> <p><u>Biotechnology - Principles and processes:</u> Genetic Engineering (Recombinant DNA Technology).</p> | <p>CH-4 - Reproductive Health(full chapter)</p> <p>CH-7 - Evolution (full chapter)</p> | <p>plant.</p> <p>7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.</p> <p>8. Controlled pollination - emasculation, tagging and bagging</p> |
| September | 07 | 10. Biotechnology and its application. | <p><u>Biotechnology and its Application:</u> Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, bio piracy and patents.</p> <p>HALF YEARLY EXAMINATION</p> | | <p>B.9. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause</p> |
| October | 13 | <p>11. Organisms and Populations</p> <p>12. Ecosystem</p> | <p><u>Organisms and Populations:</u> Population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution.</p> <p><u>Ecosystem:</u> Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy</p> | <p>PT-4 CH-11 - Biotechnology: Principles & Process (Full chapter)</p> <p>CH-12 - Biotechnology and its application (Full chapter)</p> | <p>B.10. Models specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens.</p> <p>11. Flash cards models showing examples of homologous and analogous organs.</p> |
| November | 17 | 13. Biodiversity and its Conservation | <p><u>Biodiversity and Conservation:</u> Biodiversity- Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, national parks, sanctuaries and Ramsar sites.</p> <p>REVISION & PRE BOARD</p> | | |
| December | 19 | | | | |
| January | 17 | | | | |
| February | 10 | | | | |

SYLLABUS
SUBJECT: ACCOUNTANCY (CODE NO. 055)
SESSION 2025-26

CLASS : XII

| Units | Topics | Marks |
|-------|---|-----------|
| | Part A: Accounting For Partnership Firms and Companies | |
| 1. | Accounting for Partnership Firms | 36 |
| 2. | Accounting of Companies | 24 |
| | Total | 60 |
| | Part B: Financial Statement Analysis | |
| 3. | Analysis of Financial Statement | 12 |
| 4. | Cash Flow Statement (As-3 Revised) Only indirect Method | 8 |
| | Total | 20 |
| | Part C: Project Work | |
| | Project File | 12 |
| | Viva-Voce | 8 |
| | Total | 20 |

| Month | No. of Days | Topics in Detail |
|--------------|-------------|---|
| April 2025 | 17 | Unit I: Accounting for Partnership Firms 1. Fundamentals of Partnership. 2. Nature and Valuation of goodwill. |
| May | 07 | 3. Change in Profit sharing Ratio among Existing partners. 4. Admission of a new partner |
| June | 12 | 1. Admission of a New Partner Cont.. |
| July | 24 | 1. Retirement of a partner. 2. Death of a partner 3. Dissolution of Partnership firm |
| August | 21 | Unit II: Accounting for Companies 1. Accounting for Share capital 2. Accounting for Debentures. Unit III: Analysis of Financial Statements 2. Financial statements of a Company 3. Tools for analysis of financial statement |
| September | 07 | Revision and Half Yearly Examination 2025-26 |
| October | 13 | Unit III: Analysis of Financial Statements 1 Accounting Ratio. Unit IV Cash flow statement As-3 (Revised) 2. Cash Flow statement |
| November | 17 | Revision and Pre - Board 2025-26 |
| December | 19 | Revision |
| January-2026 | 14 | Revision |
| February | 05 | CBSE Practical Examination/CBSE Board Examination 2026 |

SYLLABUS

SUBJECT: BUSINESS STUDIES (CODE NO. 054)

SESSION 2025-26

CLASS: XII

| Units | Topics | Marks |
|-------|---|-----------|
| | Part A: Principles and functions of Management | |
| 1. | Nature and Significance of Management | 16 |
| 2. | Principles of Management | |
| 3. | Business Environment | |
| 4. | Planning | 14 |
| 5. | Organising | |
| 6. | Staffing | 20 |
| 7. | Directing | |
| 8. | Controlling | |
| | Total | 50 |
| | Part B: Business Finance and Marketing | |
| 9 | Financial Management | 15 |
| 10 | Financial Markets | |
| 11 | Marketing Management | 15 |
| 12 | Consumer Protection | |
| | Total | 30 |
| | Part C: Project Work | |
| | Project File | 12 |
| | Viva-Voce | 08 |
| | Total | 20 |

| Month | No. of Days | Topics in Detail |
|--------------|-------------|---|
| April ,2025 | 17 | Unit 1: Nature and Significance of Management Unit 2: Principles of Management |
| May | 07 | Unit 3: Business Environment |
| June | 12 | Unit 4: Planning |
| July | 24 | Unit 5: Organising Unit 6: Staffing Unit 7: Directing Unit 8: Controlling |
| August | 21 | Unit 9: Financial management Unit 10: Financial market Assignment of Project work |
| September | 07 | Revision and Half Yearly Examination 2025-26 |
| October | 13 | Unit 11: Marketing managment Unit 12: Consumer protection |
| November | 17 | Revision and Pre - Board 2025-26 |
| December | 19 | Revision |
| January-2026 | 14 | Revision |
| February | 05 | CBSE Practical Examination/CBSE Board Examination 2026 |

ECONOMICS
CLASS - XII (2025-26)

Theory: 80 Marks

3Hours

Project: 20 Marks

| Units | TOPICS | Marks |
|---------------|--|-----------|
| Part A | Introductory Macroeconomics | |
| | National Income and Related Aggregates | 10 |
| | Money and Banking | 06 |
| | Determination of Income and Employment | 12 |
| | Government Budget and the Economy | 06 |
| | Balance of Payments | 06 |
| | | 40 |
| Part B | Indian Economic Development | |
| | Development Experience (1947-90) and Economic Reforms since 1991 | 12 |
| | Current Challenges facing Indian Economy. | 20 |
| | Development Experience of India – A Comparison with Neighbours. | 08 |
| | Theory Paper (40+40 = 80 Marks) | 40 |
| | | |
| Part C | Project Work. 20 | 20 |

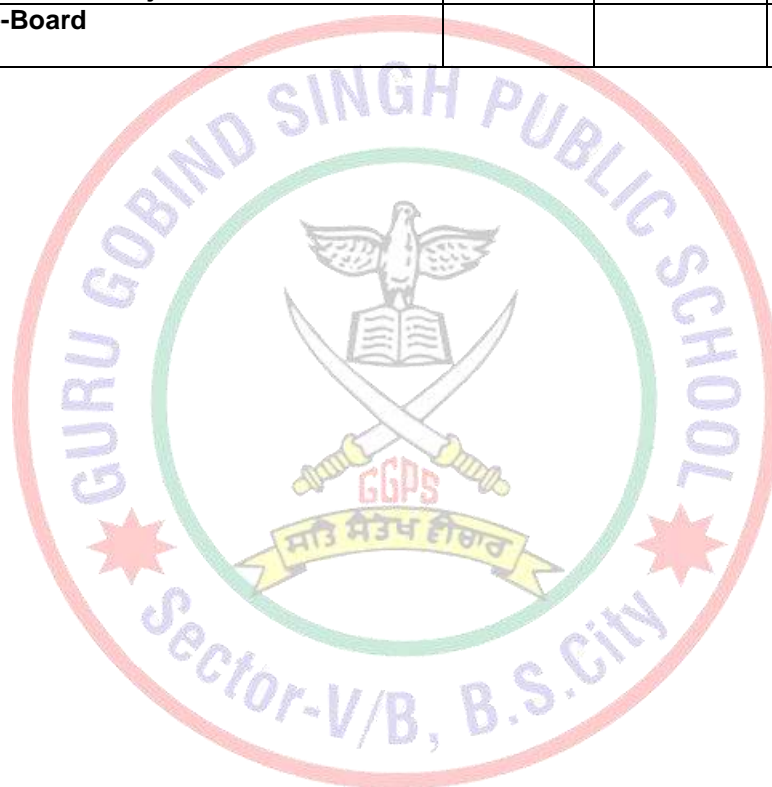
MONTH WISE BREAKUP OF SYLLABUS

| Month | No. W.D | Chapter to be covered | Activity /Project | Test/Sem . | Prescribed Book | Publication |
|-------|---------|---|-------------------|---|---------------------------------------|-------------|
| April | 17 | <p>Macro-Unit 1:</p> <p>Ch. Some Basic concepts of Macroeconomics What is Macroeconomics? Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.</p> <p>Ch. National Income & Related Aggregate Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP) - at market price, at factor cost; Real and Nominal GDP. GDP deflator, GDP and Welfare.</p> <p>Ch. Methods of calculating national Income (Circular flow of income (two sector model); Methods of calculating National Income – Value Added or Product method, Expenditure method, Income method.)</p> | | <p>PT1</p> <p>28-4-25</p> <p>Unit- 1 National income and related aggregates</p> | NCERT Text Book Part-A & Part-B (XII) | NCERT |
| May. | 07 | Ch. Methods of calculating national Income | | | | |

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|--------|----|--|--|---|--|--|
| June | 12 | Unit 6: Development Experience (1947-90) and Economic Reforms since 1991 Ch. Indian Economy on the Eve of Independence. A brief introduction of the state of Indian economy on the eve of independence. Ch. Indian Economy 1950-1990 Indian economic system and common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI – role & importance) and foreign trade. | | | Note: Latest Edition of Text Book should be use. | |
| July. | 24 | Macro Unit – 2 Ch. Money & Supply of Money Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks. Ch. Banking, Commercial Bank and Central Bank. Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement. Macro Unit – 3 Ch. Aggregate Demand and Its Components. Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). Ch. Short Run Equilibrium Output. Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment. | | PT -2 08-07-25 Ch. Indian economy on the eve of Independence. Ch- Indian economy 1950- 1990 Ch. Money and supply of money | | |
| August | 21 | Ch. Problem of Deficient Demand & Excess Demand Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply. | | PT 3 11-08-25 Ch - Banking, commercial bank and Central Bank. | | |

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| | | <p>Ch. Economic Reforms Since 1991 Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST.</p> <p>Unit 7: Current Challenges facing the Indian Economy Ch. Human Capital formation How people become resource, Role of human capital in economic development. Growth of education sector in India..</p> | | <p>Ch- Aggregate demand and its components.</p> <p>Ch.- short run equilibrium output</p> | | |
| September | 07 | <p>Ch. Rural Development: Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming.</p> <p>Revision for Half Yearly Examination.</p> | | Half yearly Examination | | |
| October. | 13 | <p>Unit – 4 Govt. Budget and the Economy Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure. Balanced, surplus and deficit budget Measures of government deficit.</p> <p>Unit – 7 Ch. Employment Growth and changes in work force participation rate in formal and informal sectors; problems and policies</p> <p>Macro Unit – 5 Ch. Balance of Payment. Balance of payments account - meaning and components; balance of payments surplus and deficit.</p> <p>Ch. 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.</p> | | <p>PT 4 13-10-25</p> <p>Ch- Human capital formation</p> <p>Ch. Rural development</p> <p>Ch. Government budget and their economy.</p> | | |

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| November | 17 | Unit – 7 Ch. Sustainable Economic Development Meaning, Effects of Economic Development on Resources and Environment, including global warming. Unit-8.Development Experiences of India A comparison with neighbours India and Pakistan India and China Issues: economic growth, population, sectoral development and other Human Development Indicators. | | | | |
| December. | 19 | Revision & Project Work | | | | |
| January | 14 | Pre-Board | | | | |



CLASS:- XII

SUBJECT :- HISTORY

PREScribed BOOKS

Themes in Indian History Part-I(Units 1 – 4) NCERT

Themes in Indian History Part-II(Units 5 – 8) NCERT

Themes in Indian History Part-III(Units 9 – 12) NCERT

| Month | No. of Working Days | Chapters to be covered | Contents | Activity/Project |
|--|---------------------|--|---|---|
| April | 17 | Part 1 Ch1.Bricks,Beads and Bones Ch2. Kings, Farmers and Towns | *Early Urban Centres – Harappa and Mohenjodaro as economic and Social Institutions *Archaeological Report on a major site *Seals, script, weights *Ancient authority *The earliest States *The sixteen Mahajanpadas *Finding out about the Mauryas *New notions of Kingship *A changing Countryside *Towns and Trade *Historical evidence from inscriptions | *Develop a project of the domestic architecture of Mohenjodaro. *On the given political map of India locate and label the following Harappan sites. i. Harappa ii. Lothal iii. Mohenjodaro iv. Nageshwar v. Banwali vi. Rakhigarhi vii. Kalibangan viii. Kot Diji *On the given political outline map of India locate and label the sixteen Mahajanpadas. *Exchanges were facilitated by the introduction of coinage. Develop a project on contemporary world. |
| May | 7 | Ch 3: Kingship, Caste and Class | *The critical edition of the Mahabharata *Kingship and Marriage *Social differences within and beyond the framework of caste *Language and content | *Discuss the different stages through which Mahabharata was compiled in the 20 th century. |
| June Portion for Periodic Test 1 - 17.06.2025 Ch.1 Bricks, Beads and Bones Ch.2 Kings, Farmers and Towns | 12 | Ch 4. Thinkers, Beliefs and Buildings | *A glimpse of Sanchi *The Backgrounds- Sacrifices and debates *Beyond Worldly pleasures – *The message of Mahavira *The teachings of Buddha *Discovering Stupas- The fate of Amravati and Sanchi | Map Skill- On an outline world map, mark the areas to which Buddhism spread. |

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| <p>July</p> <p>Portion for Periodic Test 2 21.07.2025</p> <p>Ch. 4 Thinkers, Beliefs and Buildings</p> <p>Ch. 5 Through the Eyes of Travellers</p> | 24 | <p>Part – II</p> <p>Ch 5. Through the Eyes of Travellers</p> <p>Ch 6. Bhakti-Sufi Traditions</p> <p>Ch 7. An Imperial Capital : Vijayanagara</p> | <p>*Al-Biruni and The Kitab-ul-Hind</p> <p>*Ibn Batuta's Rihla</p> <p>*Francois Bernier: A Doctor with a difference</p> <p>*Making sense of an Alien World</p> <p>*Women-Slaves, Sati and Labourers</p> <p>*A mosaic of Religious Beliefs and practices</p> <p>*Poems and Prayer: Early traditions of Bhakti</p> <p>*The virashaiva Tradition in Karnataka</p> <p>*Religious ferment in North India</p> <p>*New strands in the Fabric Islamic traditions</p> <p>*The growth of Sufism</p> <p>*New devotional paths in Northern India</p> <p>*The discovery of Hampi</p> <p>*Rayas, Nayakas and Sultans</p> <p>*Vijayanagara-The Capital and its Environs</p> <p>*The Royal Centre</p> <p>*The sacred centre</p> <p>*Plotting Palaces, Temples and Bazaars</p> | <p>*Find any one of the travellers mentioned in the chapter, find out more about his life and writings. For any one of the travellers, noting in particular how he described society, and comparing these descriptions with the excerpts included in the chapter.</p> <p>*Choose any two of the religious teachers/thinkers/saints mentioned in this chapter and find out more about their lives and teachings.</p> <p>*On an outline map of India, plot three major Sufi shrines and three places associated with temples (one each of a form of Vishnu, Shiva and the goddess).</p> <p>*On the map of India, mark and locate the 16th-17th century cities of Southern India.</p> |
| <p>Aug</p> <p>Portion for Periodic Test 3 25.08.2025</p> <p>Ch. 6 Bhakti, Sufi Traditions</p> <p>Ch. 7 An Imperial Capital -Vijayanagar.</p> | 21 | <p>Ch 8. Peasants, Zamindars And the State</p> <p>Part – III</p> <p>Ch 9.Colonialism and the Countryside : Exploring Official Archives</p> <p>Ch.10 Rebels and the Raj</p> | <p>*Peasants and agricultural Production</p> <p>*The village community</p> <p>*Women in agrarian society</p> <p>*Forest and tribes</p> <p>*The Zamindars</p> <p>*Land revenue system</p> <p>*The Mughals and their Empire.</p> <p>*Bengal and the Zamindars</p> <p>*The Hoe and the Plough</p> <p>*A Revolt in the Countryside the Bombay Deccan</p> <p>*The Deccan Riots Commission</p> <p>*Pattern of the Rebellion</p> | <p>*Explain the various sources to know about the rural society during the Mughal Period.</p> <p>On an outline map of the subcontinent mark out the areas described in this chapter. Find out whether there were other areas where the Permanent Settlement and the Ryotwari System.</p> <p>*On an outline political map of</p> |

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|---|----|---|---|---|
| | | | <ul style="list-style-type: none"> *Awadh in Revolt *What the Rebels wanted? *Repression *Images of the Revolt | India – *Mark the extent of British Empire in 1856-57 *The centres of Revolt of 1857. |
| Sep | 08 | Revision & Half Yearly Examination | | |
| Oct | 13 | Ch.11 Mahatma Gandhi and the Nationalist Movement Ch.12 Framing the Constitution | <ul style="list-style-type: none"> *A leader announces himself *The making and unmaking of Non-cooperation *The Salt Satyagraha-A Case Study *Quit India *The last Heroic days *Knowing Gandhi *A tumultuous time *The making of the Constituent Assembly. *The vision of the Constitution *Defining Rights *The powers of the State. *The language of the Nation *A plea for Hindi *The fear of domination | On an outline political map of India- *Mark and label the sessions of the Indian National Congress *Important centres of the National Movement(1885-1947). * Compare the Constitutions of America, France or South Africa with the Indian Constitution, focusing on any two of themes: Secularism, Minority Rights, Relation with the Centre and the States. |
| Nov Portion for Periodic Test 4 Ch. 10 Rebels and the Raj Ch.11 Mahatma Gandhi and the Nationalist Movement | 17 | Revision& Pre – Board Examination | | |
| Dec | 19 | | | |
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CLASS:- XII

SUBJECT :- POLITICAL SCIENCE

SESSION -2025-26

PRESCRIBED BOOKS:

PART-A : CONTEMPORARY WORLD POLITICS(NCERT)

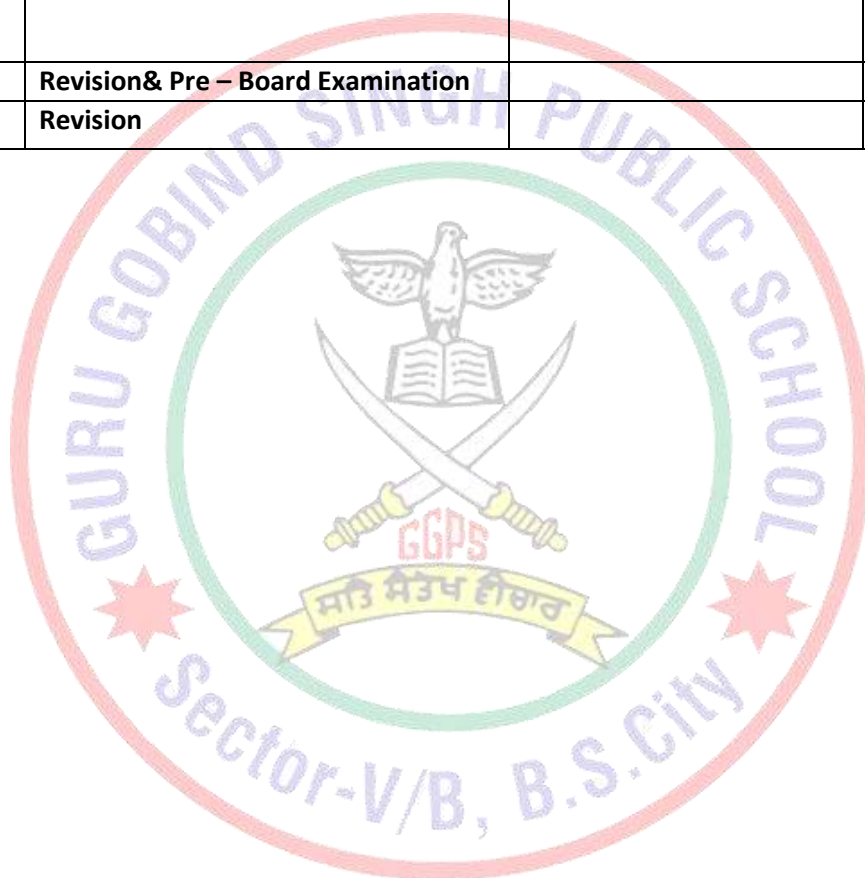
PART-B : POLITICS IN INDIA SINCE INDEPENDENCE (NCERT)

| Month | No. of Working Days | Chapters to be covered | Contents | Activity/Project /Periodic test |
|-------|---------------------|--|---|--|
| April | 17 | <u>Part –A CONTEMPORARY WORLD POLITICS</u> Ch1. The end of Bipolarity Ch 2. Contemporary Centres of Power | <ul style="list-style-type: none">*The Soviet System*Gorbachev and Disintegration*Consequences of the Disintegration*Shock Therapy in Post-Communist Regimes*Consequences of Shock Therapy*Tensions and Conflicts*India and Post-Communist Countries*European Union(EU)*Association of South East Asian Nation (ASEAN)*The Rise of Chinese Economy*India China Relation | <p>*Write an essay for or against the following proposition. “With the disintegration of the Second World , India should change its foreign policy and focus more on friendship with the US rather than with traditional friends like Russia”</p> <p>*Assess the role of ASEAN as an Economic Association</p> <p>PERIODIC TEST -I 28.04.2025 1.The end of Bipolarity 2.Contemporary Centres of power</p> |
| May | 7 | Ch 3. Contemporary South Asia | <p>Bangladesh</p> <ul style="list-style-type: none">*Monarchy & Democracy in Nepal*India-Pakistan Conflicts*India and its other neighbours*Peace and cooperation | <p>*Prepare a timeline on Pakistan – 20 years of Turmoil</p> |
| June | 12 | Ch 4. International Organisations | <ul style="list-style-type: none">*Why International Organisation?*Evolution of the UN*Reform of the UN after the Cold War*Reform of Structures and | <ul style="list-style-type: none">*Prepare a list of UN’s significant Agencies.*Prepare a Time-Line on UN Secretaries General |

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|------|----|--|---|---|
| | | Ch 5. Security in the Contemporary World | Processes *Jurisdiction of the UN *India and the UN Reforms *UN's significant Agencies *What is Security? *Traditional Notions: External& Internal *Traditional Security and Cooperation *Non-Traditional Notions *New sources of threats *Cooperative Security *India's Security strategy | *Present a comparative analysis of Indian expenditure on Traditional and Non-Traditional Security. |
| July | 24 | Ch 6. Environment and the Natural Resources Ch 7. Globalisation | *Environmental Concerns in Global Politics *The Protection of Global Commons *Common but differentiated Responsibilities *Common Property Resources *India's Stand on Environmental Issues *Environmental Movements : One or many? *Resource Geopolitics *The Indigenous peoples and their Rights *The concept of Globalisation *Causes of Globalisation *Political, Economic and cultural consequences *India and Globalisation *Resistance to Globalisation | *Prepare a report on major environmental concerns in global politics and India's stand on environmental issues discussed at the International level *Prepare a project showing Advantages and Disadvantages of Globalisation PERIODIC TEST -II 8.07.2025 1.Contemporary South Asia 2.International Organizations 3.Security in the Contemporary World |

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|-----|----|--|---|--|
| Aug | 21 | Part – B Politics in India Since Independence Ch 1.Challenges of Nation Building Ch 2. Era of One Party Dominance Ch.3 Politics of Planned Development Ch 4. India's External Relations | *Challenges for the New Nations *Partition: Displacement and Rehabilitation *Integration of Princely States *Reorganisation of States *Ideas of Development *The Early Initiatives *People vs Private Sector *The Green Revolution *Later Developments *International context *The policy of Non-Alignment *Peace and conflict with China *Wars and peace with Pakistan *Bangladesh war, 1971 *India's Nuclear Policy | *Prepare a chart on creation of New States in India with Time-Line *Evaluate the benefits of Green Revolution *Why did India declare the policy of Non-Alignment? Describe the policy the principles and policy of Non-Alignment PERIODIC TEST-III 11.08.2025 1.Environment and Natural Resources 2.Globalisation 3.Challenges of Nation Building |
| Sep | 07 | Revision & Half Yearly Examination | | |
| Oct | 13 | Ch 5. Challenges to the Restoration of the Congress system Ch 6 The Crisis of Democratic Order Ch.7 Regional Aspirations | *Challenge of Political Succession after Nehru *Split in Congress and Opposition Party *New Congress led by Indira Gandhi *Restoration of the Congress System *Background to Emergency *Declaration of Emergency *Controversies regarding Emergency *Politics after Emergency *Region and the Nation *Jammu and Kashmir *Punjab *The North-East *Accommodation and National Integration | *Use of Timeline *Map activity *Interpretation of Cartoons *Examine the consequences of Emergency imposed in 1995 and prepare a report about the withdrawal of rights during Emergency * On an outline map of India, mark seven states referred to as 'Seven Sisters' |

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| | | Ch.8 Recent Developments in Indian Politics | <ul style="list-style-type: none"> *Context of the 1990s *Era of Coalitions *Political Rise of Other Backward Classes(OBCs) *Communalism, Secularism, Democracy *Emergence of a New Consensus *Coalition Government | <p>*On an outline map of India mark the States where NDA is in rule and the States where UPA is in rule.</p> <p>PERIODIC TEST –IV 13.10.2025</p> <ol style="list-style-type: none"> 1.Era of one party dominance 2.Politics of Planned development 3.India's external relations |
| Nov | 17 | Revision& Pre – Board Examination | | |
| Dec | 19 | Revision | | |



SUBJECT: GEOGRAPHY (029)

PRESCRIBED BOOK- 1-FUNDAMENTALS OF HUMAN GEOGRAPHY [NCERT]
 2-INDIA-PEOPLE AND ECONOMY [NCERT]
 3-PRACTICAL WORK IN GEOGRAPHY [PART 2]

| MONTH | No. of Working days | BOOK -1 | BOOK -2 | ACTIVITY |
|-----------|---------------------|---|---|--|
| APRIL | 17 | UNIT-1 | UNIT-1 | |
| | | CH-1 HUMAN GEOGRAPHY- NATURE AND SCOPE UNIT- 2 PEOPLE CH-2 THE WORLD POPULATION- DISTRIBUTION ,DENSITY AND GROWTH PERIODIC TEST - 1 (21.04.25) Chapter 1 and 2 (BOOK 1) | CH-1 POPULATION: DISTRIBUTION, DENSITY AND GROWTH,AND COMPOSITION CH-2 MIGRATION: TYPES, CAUSES, AND CONSEQUENCES | Map work on identification of features based on 1-5 units on the outline physical map of the world |
| MAY | 7 | UNIT- 2 CH-3 POPULATION COMPOSITION CH-4 HUMAN DEVELOPMENT | UNIT-1 CH-3 HUMAN DEVELOPMENT UNIT-2 CH-4 -HUMAN SETTLEMENTS | Practical work- processing of data |
| JUNE | 12 | CH- 4 HUMAN DEVELOPMENT (CONT.) PERIODIC TEST -2 (17.06.25) Chapter 1 and 2 (BOOK 2) Chapter 3 (BOOK 1) | CH- 4 HUMAN SETTLEMENT(CONT.) | Map work on identification of features based on units on the outline physical map of the India |
| JULY | 24 | UNIT- 3 PEOPLE CH-5 PRIMARY ACTIVITIES CH-6 SECONDARY ACTIVITIES PERIODIC TEST 3 (21.07.25) Chapter 5 (BOOK 1) Chapter 5 (BOOK 2) | UNIT-3 CH-5 LAND RESOURCES AND AGRICULTURE CH-6 WATER RESOURCES CH-7 MINERALS AND ENERGY RESOURCES | Practical work- thematic map |
| AUGUST | 21 | UNIT- 3 CH-7 TERTIARY AND QUARTERNARY ACTIVITIES | UNIT-3 CH-8 MANUFACTURING INDUSTRIES CH-9 PLANNING AND SUSTAINBLE DEVELOPMENT IN INDIAN CONTEXT | Practical work- spatial info. Tech. |
| SEPTEMBER | 7 | REVISION & Half Yearly Examination | REVISION & Half Yearly Examination | |
| OCTOBER | 13 | UNIT- 3 CH-8 TRANSPORT AND COMMUNICATION | UNIT-4 CH10 TRANSPORTAND, COMMUNICATION CH-11 INTERNATIONAL TRADE | Practical work- spatial info. Tech. |
| | | PERIODIC TEST 4 (13.10.25) Chapter 8 (BOOK 1) Chapter 10, 11(BOOK 2) | | |
| NOVEMBER | 17 | CH-9 INTERNATIONAL TRADE UNIT- 4 CH-10 HUMAN SETTLEMENTS | UNIT-5 CH-12 -GEOGRAPHICAL PERSPECTIVE ON SELECTED ISSUES AND PROBLEMS | |
| DECEMBER | 19 | REVISION | REVISION | |
| JANUARY | 14 | REVISION | REVISION | |
| FEBRUARY | 5 | | | |

Subject : Computer Science (Code : 083)

Class : XII Session : (2025-26)

Book Prescribed : Computer Science with Python (NCERT)
Computer Science with Python By Preeti Arora (Publication : Sultan Chand)

| Month | No. of Working Days | Chapters/Topic to be covered | Activity/Practical | Periodic Test Portion |
|-------|---------------------|--|--|------------------------|
| Apr | 17 | Revision of Python topics covered in class XI i)Functions: Types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) Exception Handling: Introduction, Handling exceptions using try-except-finally blocks | Program related to function, Passing string, list, dictionary to function. Program to find factorial using recursion Program to illustrate handling of type exception in Python | PT1 : Functions |
| May | 07 | Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) Structured Query Language (SQL): introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete | To create table with primary key constraints. SQL query using create, select , update, where, like, order by, group by commands. | |

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| | | command, aggregate functions (max, min, avg, sum, count), group by, having clause | | |
| Jun | 12 | joins: Cartesian product on two tables, equi-join and natural join | Various SQL Queries using two tables. | |
| July | 24 | <p>Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications</p> <p>Data File Handling : Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths</p> <p>Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file</p> | <p>Program to connect MySQL with datafile</p> <p>Write a program to Create Text file, Appending a data to Text file, updating data into Text file, Accessing data from Text file</p> | PT2 : Database concept, My SQL |
| Aug | 21 | <p>Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file</p> <p>CSV file: import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader()</p> <p>Python libraries: creating python libraries</p> | <p>Write a program to Create Binary file, Appending a data to Binary file, updating data into Binary file, Accessing data from Binary file</p> <p>Program to Importing data from csv file</p> | PT3 : Interface of Python with MySQL Database, Data File Handling (Text File) |
| Sep | 07 | <p>Idea of efficiency: number of comparisons in Best, Worst and Average case for linear search.</p> <p>Data Structure: Stack, operations on stack (push & pop),</p> | Program to perform push and pop operation on stack. | |

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| | | implementation of stack using list. | | |
| Oct | 13 | Computer Network Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP, wireless/mobile communication protocol such as GSM, GPRS and WLL Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting | | PT4 : Data File Handling (Binary File , CSV File), Data Structure, Networking |
| Nov | 17 | Revision, Project Work and Pre Board Examinations | Project work | |
| Dec | | | | |
| Jan | | | | |
| Feb | | | | |

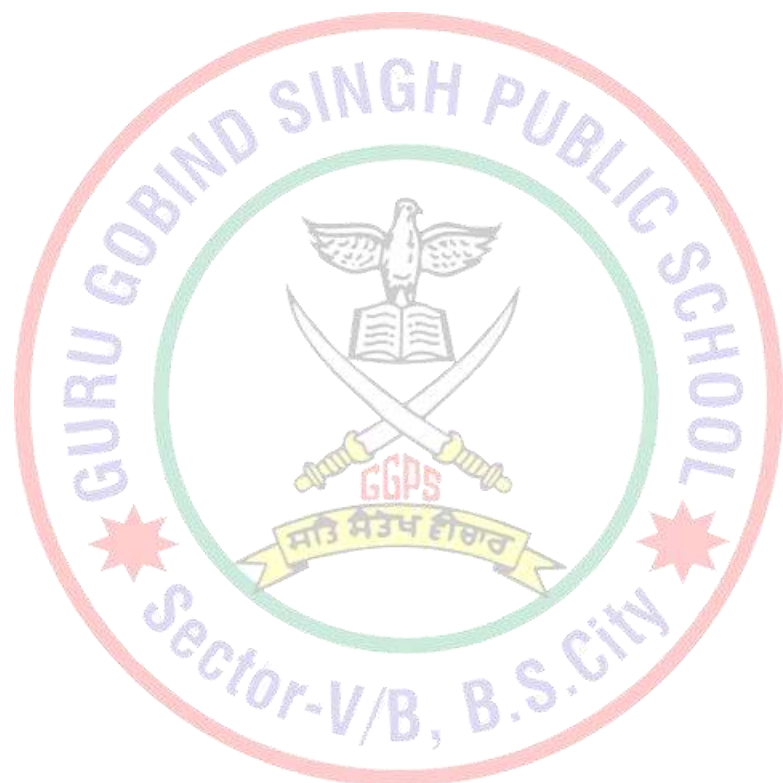
Subject: Informatics Practices (Code: 065)

SESSION :2025-26

| Month | No. of Working days | Chapter Name | Chapter/ Topic to be covered | Experiment/ Project/ Activity | Test/ Sem |
|-------|---------------------|-----------------------------------|--|---|---|
| Apr | 17 | Data Handling using Pandas | Introduction to Python libraries- Pandas, Matplotlib Data structures in Pandas - Series and data frames Series: Creation of series from ndarray, dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing. Data Frames: creation of data frames from dictionary of series, list of dictionaries. | Write a python code to create a series using float numbers. Write a python code to create a series using dictionary and ndarray. Write a python code to create a DataFrame using list and dictionary. | PT1: Series |
| May | 07 | Data Handling using Pandas | Data Frames: creation of data frames from text/CSV files, display and iteration. Operations on rows and columns: add (insert /append), select, delete (drop column and row). Rename, Head and Tail functions, indexing using labels, Boolean indexing of data frames. | Write a python code to locate 3 largest value in a DataFrame. Write a python code to use head() and tail() function in different ways. | |
| Jun | 12 | Data Handling using Pandas | Importing/Exporting Data between CSV files and Data Frames. | Write a python code to import and export data between pandas and .csv file. | |
| July | 24 | Data Visualization | Purpose of plotting, drawing and saving of plots using Matplotlib (line plot, bar graph). Histogram | Write python code to plot various types of chart using matplotlib. | PT: DataFrame Importing / exporting data between CSV files |

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|-----|----|---------------------------------|--|---|--------------------------|
| | | | Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots. | | |
| Aug | 21 | Database Query using SQL | <p>Revision of database concepts and SQL commands covered in class XI</p> <p>Math functions: POWER (), ROUND (), MOD ().</p> <p>Text functions: UCASE ()/UPPER (), LCASE ()/ LOWER (), MID()/SUBSTRING () /SUBSTR (), LENGTH (),LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM().</p> <p>Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().</p> | <p>Write SQL queries using mathematical, date, text, and aggregate functions.</p> <p>SQL Query using group by, having and Order by.</p> <p>Various SQL queries of relations, union, intersections, minus, joining between two tables.</p> | PT3: Pyplot (Matplotlib) |
| Sep | 07 | | <p>Aggregate Functions: MAX (), MIN(), AVG(), SUM(), COUNT ();</p> <p>using COUNT (*).Querying and manipulating data using Group by, Having, Order by.</p> <p>Working with two tables using equi-join</p> <p>Revision of Half Yearly portion</p> | | Half yearly Exam |

| | | | | | |
|-----|----|--|---|---------------|--|
| Oct | 13 | Introduction to Computer Networks | <p>Introduction to networks, Types of network: LAN, MAN, WAN</p> <p>Network Devices: modem, hub, switch, repeater, router, gateway, Network</p> <p>Topologies: Star, Bus, Tree, Mesh.</p> <p>Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website.</p> <p>Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.</p> | | |
| Nov | 17 | Societal Impacts | <p>Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act.</p> <p>E-waste: hazards and management. Awareness about health concerns related to the usage of technology.</p> <p>Revision & Project</p> | Project work: | PT 4: SQL , Networking and Societal Impacts |
| Dec | 19 | | | | |
| Jan | | | | | |
| Feb | | | | | |



CLASS-12
SYLLABUS (PHYSICAL EDUCATION) – 2025-26

| Month | PT Portion | Working Days | Chapter/Unit | Contents /Sub Topic In Details | Experiment / Project |
|-------|---|--------------|--|---|---|
| April | PT-1 : 28/04/2025 Portion : 1.1 to 2.2 | 17 | Unit - 1 : Management of Sporting Event Unit - 2 : Children & women in Sports | 1.1. Functions of Sports Events Management (Planning, Oarganising, Staffing, Directing & Controlling) 1.2. Various Committees & its Responsibilities (Pre, During & post) 1.3. Fixtures and their Procedure – Knock-Out (Bye & Seeding) & League (Staircase, Cyclic and Tabular Method) and Combination Tournaments 1.4. Intramural & Extramural – Meaning, Objectives & It's Significance 1.5. Community Sports Program (Sports Day,Health Run, Run for Fun, Run for Specific Cause & Run for Unity) 2.1. Exercise Guidelines of WHO for different age groups 2.2. Common Postural Deformities and their respective Corrective Measures – Spinal curvature (Kyphosis ,Lordosis & Scoliosis) Knock Knees, Bow Legs, Flat Foot, Round Shoulders 2.3. Women's participation in Sports – Physical, Psychological and Social benefits 2.4. Special consideration (Menarche & Menstrual Dysfunction) 2.5. Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders) | Practical - 1 : Fitness tests administration (SAI Kheilo India Test) |
| May | PT-1 : 05/05/2025 Portion : 1.1 to 2.2 | 07 | Unit - 3 : Yoga as Preventive measures for Lifestyle Diseases | 3.1. Obesity: Procedure,Benefits & Contraindications for Tadasana, Katichakrasana, Pawanmuktasana, Matsayasana, Halasana, Paschimottasana, Dhanurasana, Ushtrasana, Suryabedhan Pranayama 3.2. Diabetes: Procedure, Benefits & contraindications for Katichakrasana, Pawanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-Vajrasana, Paschimottasana, Ardh-Matsyendrasana, Mandukasana, Yogmudra, Ushtrasana, Kapalabhati , Gomukasana, 3.3. Asthma: Procedure, Benefits & contraindications for Tadasana, Urdhwahastottasana, Uttan Mandukasana, Bhujangasana, Dhanurasana, Ushtrasana,Vakrasana, Kapalabhati, Gomukhasana, Matsyasana, Anulom-Vilom 3.4. Hypertension: Procedure, Benefits & contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardh Halasana, Sarla Matyasana, Gomukhasana, Uttan Mandukasana, Vakrasana, Bhujangasana, Makrasana, Shavasana, Nadi-Shodhanapranayama, Sitilipranayama 3.5. Back Pain and Arthritis: Procedure, Benefits & contraindications for Tadasana, Urdhwahastottasana, Ardh-Chakrasana, Ushtrasana, Vakrasana, Bhujangasana, Sarala Matsyendrasana, Gomukhasana, Bhadrasana, Makrasana, Nadi-Shodhanapranayama | Practical - 2 : Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease. |
| June | | 12 | Unit – 4 : Physical Education & Sports for CWSN (Children With Special Needs – Divyang) | 4.1. Organizations promoting Disabililty Sports (Special Olympics. Paralympics, Deaflympics). 4.2. Concept of classification and Divisioning in sports 4.3. Concept of inclusion in sports, it's need and implementation. 4.4. Advantage of Physical Activities for children with special needs 4.5. Strategies to make Physical Activities assessable for children with special need | |

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|-----------|--|---|--|---|---|
| July | PT-2 : 08/07/2025 & 14/07/2025 Portion : 2.3 to 4.5 | 24 | Unit – 5 : Sports & Nutrition | 5.1. Concept of balance diet and nutrition 5.2. Macro and Micro Nutrients: Food Sources & functions 5.3. Nutritive & Non-Nutritive Components of Diet 5.4. Eating For Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance and Food Myths 5.5. Importance of Diet in Sports-Pre, During and Post competition requirements | Practical – 3 : Anyone one IOA recognized Sport/ Game of choice. Labelled diagram of Field/Court & Equipment. Also, mention its Rules, Terminologies & Skills. |
| | | | Unit – 6 : Test & Measurement in Sports | 6.1. Fitness Test – SAI Khelo India Fitness Test in School : Age group 5-8 yrs. / class 1-3 : BMI, Flamingo Balance Test, Plate Tapping Test ,Age group 9-18yrs. / class 4-12 : BMI, 50 mt. Speed Test, 600 mt. Run/Walk, Sit & Reach Flexibility Test, Strength Test (Abdominal Partial Cur- Up, Push- Ups for Boys, Modified Push - Ups for Girls) 6.2. Measurement of Cardio-Vascular Fitness-Harvard Step Test - Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min. after Exercise 6.3. Computing Basal Metabolic Rate (BMR) 6.4. Rikli & Jones - Senior Citizen Fitness Test 1. Chair Stand Test for lower body strength 2. Arm Curl Test for upper body strength 3. Chair Sit & Reach Test for lower body flexibility 4. Back Scratch Test for upper body flexibility 5. Eight Foot Up & Go Test for agility 6. Six Minute Walk Test for Aerobic Endurance 6.5. Johnsen - Methney Test of Motor Educability (Front Roll, Roll, Jumping, Half-Turn, Jumping Full-Turn) | |
| August | PT-3 : 11/08/2025 & 18/08/2025 Portion : 5.1 to 7.5 | 21 | Unit – 7 : Physiology & Injury in Sports | 7.1. Physiological factor determining component of Physical Fitness 7.2. Effect of exercise on Muscular System 7.3. Effect of exercise on Cardio Respiratory System 7.4. Physiological changes due to aging 7.5. Sports injuries: Classification (Soft Tissue Injuries: Abrasion, Contusion, Laceration, Incision, Sprain & Strain ; Bone & Joint Injuries : Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted.) | |
| | | | Unit – 8 : Biomechanics & Sports | 8.1. Newton's Law of Motion & its application in sports 8.2. Type of Lever and their application in sports 8.3. Equilibrium- Dynamic & Static and Centre of Gravity and its application in sports 8.4. Friction & Sports 8.5. Projectile in Sports | |
| | | | Unit – 9 : Psychology & Sports | 9.1. Personality; its definition & types (Jung Classification & Big Five Theory) 9.2. Motivation, its type & techniques 9.3. Exercise Adherence : Reasons, Benefits & Strategies for Enhancing it 9.4. Meaning, Concept & Types of Aggressions in Sports 9.5. Psychological Attributes in Sports – Self Esteem, Mental Imagery, Self Talk, Goal Setting | |
| September | 07 | Revision & Half Yearly Examination | | | Portion : 1.1 to 6.5 |

| | | | | | |
|----------|---|----|--|--|--|
| October | PT-4 : 13/10/2025 Portion : 8.1 to 9.5 | 13 | Unit – 10 : Training in Sports | 10.1. Concept of Talent Identification and Talent Development in Sports 10.2. Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle 10.3. Types & Method to Develop- Strength, Endurance and Speed 10.4. Types & Method to Develop – Flexibility and Coordinative Ability 10.5. Circuit Training - Introduction & its importance | |
| November | PT-4 : 04/11/2025 Portion : 8.1 to 9.5 | 17 | Revision & Pre – Board Portion : 1.1 to 10.5 | | |
| December | | 19 | REVISION | | |
| January | | 14 | REVISION | | |

PRACTICAL(Max. Marks - 30)

Physical Fitness Test : SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)*

Proficiency in Games and Sports (Skill of any one IOA recognized Sport/Game of Choice)**

Yogic Practices

Record File ***

Viva Voce (Health/ Games & Sports/ Yoga)

- *Test for CWSN (any 4 items out of 27 items. One item from each component : Aerobic Function, Body Composition, Muscular strength & Endurance, Range of Motion or Flexibility)
- **CWSN (Children With Special Needs - Divyang): Bocce/Boccia , Sitting Volleyball, Wheel Chair, Basketball, Unified Badminton, Unified Basketball, Unified Football, Blind Cricket, Wheel Chair, Races and Throws, or any other, Sport/Game of choice.
- **Children with Special Needs can also opt any one Sport/Game from the list as alternative to Yogic Practices. However, the Sport/Game must be different from Test- 'Proficiency in Games and Sports'.

*****Record File shall include:**

Practical – 1 : Fitness tests administration. (SAI Khelo India Test)

Practical – 2 : Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.

Practical – 3: Any one IOA recognized Sport/Game of choice. Labelled diagram of Field/Court & Equipment. Also, mention its Rules, Terminologies & Skills.

PRESCRIBED TEXTBOOKS FOR CLASS – XII

CBSE Physical Education Class XII Text Book

<https://cbseacademic.nic.in/web material/Manuals/PhysicalEducation12 2022.pdf>

CLASS – XII

SUBJECT : PAINTING

MONTHLY SYLLABUS BREAK-UP FOR 2025-26

| MONTH | W.D. | CHAPTER/TOPIC | CONTENT/SUB TOPIC IN DETAIL | EXPERIMENT/ PRACTICAL |
|---------------------------|---------------|--|--|---|
| APRIL | 17 | INTRODUCTION TO INDIAN MINATURE PAINTING | PAL, JAIN AND CENTRAL INDIAN PAINTINGS. DEVELOPMENT OF INDIAN ART | STILL LIFE |
| MAY + JUNE | 07 + 12 | RAJASTHANI AND PAHARI SCHOOLS OF MINATURE PAINTING | 1. ORIGIN AND DEVELOPMENT 2. MAIN FEATURES OF PAHARI SCHOOL 3. SUB-SCHOOLS-MEWAR, BUNDI, JODHPUR, BIKANER | STILL LIFE |
| JULY | 24 | MUGHAL AND DECCAN SCHOOLS OF MINATURE PAINTING | 1. BIRTH OF SALIM-RAMDAS 2. STUDY OF DIFFERENT MUGHAL PAINTINGS 3. KRISHNA LIFTING MOUNTAIN 4. BABUR CROSSING RIVER SONE OF AKBAR PERIOD | NATURE STUDY |
| AUGUST | 21 | ERA IN INDIAN ART | 1. EVOLUTION OF THE INDIAN 2. STUDY OF DIFFERENT PAINTINGS OF THE BENGAL SCHOOL | NATURE STUDY |
| SEPTEMBER | 07 | THE MODERN IN DIFFERENT CONTEMPORARY (MODERN) ART | 1. STUDY OF DIFFERENT CONTEMPORARY 2. HALDI GRINDERS-AMRITA SHERGILL | HUMAN SKETCHING |
| OCTOBER | 13 | STUDY OF DIFFERENT – CONTEMPORARY (MODERN) INDIAN SCULPTURES | 1. TRIUMPH OF LABOUR BY DEVI PRASAD ROY 2. SANTHAL FAMILY BY RAM KINKER BAIJ 3. CRIES UNHEARD BY AMARNATH SEHGAL 4. GANESHA BY P.V. JANAKIRAM 5. CHATURMUKHI BY AEKRA YADAGIRI RAO 6. VANSHI BY MRINALINI MUKHERJEE | USE OF WATER COLOUR AND ITS COMPOSITION |
| NOVEMBER + DECEMBER | 17 + 19 | REVISION OF THEORY | ----- | PROTFOLIO MAKING – PORTFOLIO ASSESSMENT & PRACTICAL FILE SUBMISSION |

| MONTH | W.D | TOPIC | CONTENTS IN DETAIL | PRACTICAL |
|---------------------------|---------------|--|--|---|
| APRIL | 17 | Tatkaar with defferent layas teentaal and jhaptaal, vandana, thaata, amad in teentaal. | History of other classical dfance style of india | Vandana, thaata, amad in teentaal |
| MAY + JUNE | 07 + 21 | Tukra, tora and tihai | Life scetch of few great exponent from past and present, intyroduction of natya shastra and abhinaya darpan | Tukra, tora tihai teentaal |
| JULY | 24 | Gatnikas | Three gharanas of Kathak Dance, short notes of sangget, taal, laya, sthan, chari, gati, mandal. | Gatnikas teen taal.. |
| AUGUST | 21 | Gatbhava | Abhinay with four aspects, short notes of karan, anghar, bhramri, utplavan, lokdharmi, natyadharmi, ras and bhava. | Gatbhava in teen taal |
| SEPTEMBER | 07 H.Y | DANCE IN Jhap taal. | Definition of vandana, tihai, aamad, tora, tukra, paran, chakkardar tora, gatnikas and gatbhva. | Namaskar and salami jhap taal.. |
| OCTOBER | 13 | Dance in Dhamar taal. | Traditional costumes and make up of Kathak Dance. | Salami and aamad in Dhamar taal. |
| NOVEMBER + DECEMBER | 17 + 19 | Parhant and theka. Laykari | Tali, khali, sam, tihai, dadra, kaharwa and roopak. Revisions | Dance in teen taal, jhap taal, dhamar taal. |
| JANUARY | 14 | Parhant of boles | Revisions | Dance with hast kriya. |
| FEBRUARY | 05 | Revisions | | Revisions. |

SUBJECT- BHARATNATYAM DANCE

Class:12

| MONTH | W.D | TOPIC | CONTENTS IN DETAIL | PRACTICAL |
|---------------------------|---------------|------------------------------|--|---------------------------------|
| APRIL | 17 | Tatti natta adavu,tirmanam.. | History of other classica and folkl dfances of india | Tatti natta adavu and tirmanam. |
| MAY + JUNE | 07 + 12 | Sarikkal, mandi, kata adavu. | Nritta, natya, nritya, tandav, lasya,ang, pratyang, upang. | All adavus. |
| JULY | 24 | Alaripu | Sthan, chari, mandal, bhramri, utplavan, abhinay. | Alaripu. |
| AUGUST | 21 | Alaripu | Sangeet, taal, laya, ras. | Aiaripu |
| SEPTEMBER | 07 H.Y. | jathiswaram. | Sthayi and sanchari bhava.. | jathiswaram |
| OCTOBER | 13 | Jathiswaram | Definition of araimandi, mujhumandi, korvai, adavu, sollu, tirmanam jati, gati, avartana, talangam, nattuvangam. | Jathiswaram |
| NOVEMBER + DECEMBER | 17 + 19 | One folk dance | Revisions | Folk dancel. |
| JANUARY | 14 | Tillana | Revisions of mythology | Tillana |
| FEBRUARY | 05 ANNUAL | Revisions | Revisions | Revisions |