

# **Guru Gobind Singh Public School**

## **Sector V/B, B.S.City**



# **SYLLABUS**

## **Session 2024-25**

# GURU GOBIND SINGH PUBLIC SCHOOL

SPLIT UP OF SYLLABUS [SESSION 2024-2025]

**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:**

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| <p><b><u>Prose:</u></b></p> <ol style="list-style-type: none"> <li>1. The Last Lesson</li> <li>2. Lost Spring</li> <li>3. Deep Water</li> <li>4. The Rattrap</li> <li>5. Indigo</li> <li>6. Poets and Pancakes</li> <li>7. The Interview</li> <li>8. Going Places</li> </ol> | <p><b><u>Poetry:</u></b></p> <ol style="list-style-type: none"> <li>1. My Mother at Sixty Six</li> <li>2. Keeping Quiet</li> <li>3. A Thing of Beauty</li> <li>4. A Roadside Stand</li> <li>5. Aunt Jennifer's Tigers</li> </ol> |
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**Vistas:**

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| <ol style="list-style-type: none"> <li>1. The Third Level</li> <li>2. The Tiger King</li> <li>3. Journey to the End of the Earth</li> <li>4. The Enemy</li> <li>5. On the Face of It</li> <li>6. Memories of Childhood (Zitkala —Sa &amp; Bama)             <ol style="list-style-type: none"> <li>I. The Cutting of My Long Hair</li> <li>II. We Too are Human Beings</li> </ol> </li> </ol> |
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| Month     | No. of Working Days | Chapters to be covered  | Activity/ Projects | Test/ Sem. | Prescribed Book                                       | Publication |
|-----------|---------------------|---|--------------------|------------|---|-------------|
| April     | 18                  | <b>Flamingo</b> – The Last Lesson,<br><b>Poetry</b> - My Mother at Sixty six<br><b>Writing</b> – Notice, Article<br><b>Reading</b> – Unseen Passage                       |                    |            | Main Reader: Flamingo<br>Supplementary Reader: Vistas | NCERT       |
| May       | 08                  | <b>Vistas</b> – The Third Level<br><b>Vistas</b> – The Tiger King   |                    |            |   |             |
| June      | 09                  | <b>Flamingo</b> – Lost Spring<br><b>Vistas</b> – Journey to the End of the Earth<br><b>Writing</b> – Invitations & Replies  |                    |            |   |             |
| July      | 22                  | <b>Flamingo</b> – Deep water , The Rattrap<br><b>Poetry</b> - Keeping Quiet<br><b>Vistas</b> – The Enemy<br><b>Writing</b> – Letter to the Editor, Job Application Letter |                    |            |   |             |
| August    | 19                  | <b>Flamingo</b> – Indigo & Poets & Pancakes<br><b>Poetry</b> - A Thing of Beauty & A Roadside stand<br><b>Writing</b> – Article Writing and Report writing                |                    |            |   |             |
| September | 08                  | <b>Vistas</b> – On the face of it.<br><b>Reading</b> – Revision & Practice  |                    | H.Y. Exam  |   |             |
| October   | 15                  | <b>Flamingo</b> – The Interview & Going Places<br><b>Poetry</b> – Aunt Jennifer's Tigers  |                    |            |   |             |
| November  | 12                  | <b>Vistas</b> – Memories of Childhood (Zitkala -Sa & Bama)<br><b>Reading</b> – Revision & Practice  |                    |            |   |             |
| December  | 19                  | <b>REVISION &amp; Pre-Board Examination</b>   |                    |            |   |             |

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**Syllabus (2024-25)**

Class –XII

Subject - HINDI CORE (302)

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  |
|----------------------------|---------------------|--|
| April                      | 18                  | गद्य पाठ --1.भक्तितन<br>पद्य पाठ --आत्म परिचय, एक दिन (दिन जल्दी जल्दी ढलता है)<br>वितान --पाठ 1 . सिल्वर वेडिंग<br>जनसंचार माध्यम, अपठित पद्यांश ,आलेख लेखन                         |
| May                        | 08                  | गद्य पाठ --2. बाजार दर्शन<br>पद्य पाठ-- पतंग, कविता के बहाने   |
| June                       | 09                  | पद्य पाठ-- बात सीधी थी पर<br>रचनात्मक लेखन, कहानी लेखन   |
| July                       | 22                  | गद्य पाठ—3.काले मेघा पानी दे<br>पद्य पाठ-- कैमरे में बंद अपाहिज, उषा<br>वितान --पाठ 2 - जूझ<br>समाचार लेखन,(उल्टा पिरामिड शैली) आलेख, अपठित गद्यांश, नाटक लेखन                       |
| August                     | 19                  | गद्य पाठ--5 पहलवान की ढोलक<br>पद्य पाठ-- बादल राग, कवितावली<br>प्रिंट माध्यम संपादकीय, अपठित पद्यांश ,रचनात्मक लेखन  |
| September                  | 08                  | गद्य और पद्य ---- पुनरावृत्ति कार्य<br>रचनात्मक लेखन ,फीचर लेखन, आलेख लेखन,  |
| <b>अर्धवार्षिक परीक्षा</b> |                     |  |
| October                    | 15                  | गद्य पाठ-- शिरीष के फूल<br>पद्य पाठ-- लक्ष्मण मूर्छा और राम का विलाप<br>वितान-- पाठ 3. अतीत में दबे पांव<br>रचनात्मक लेखन ,रचनात्मक लेखन, फीचर लेखन                                  |
| November                   | 12                  | गद्य पाठ-- श्रम विभाजन और जाति प्रथा, मेरी कल्पना का आदर्श समाज<br>पद्य पाठ-- छोटा मेरा खेत, बगुलो के पंख<br>वितान पाठ--- 3. अतीत में दबे पांव<br>नाटक लेखन, फीचर लेखन,रचनात्मक लेखन |
| December                   | 19                  | गद्य, पद्य और वितान--- पुनरावृत्ति कार्य<br>अपठित गद्यांश और पद्यांश,  |
| January                    | 17                  | प्राक् बोर्ड परीक्षा<br>नोट-- पूरे वर्ष का पाठ्यक्रम वार्षिक परीक्षा में सम्मिलित है।  |
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## पाठ्यक्रम 2024-2025

### संस्कृत

### निर्धारित पुस्तकानि

### कक्षा—द्वादश

- 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)।  
व्याकरणात् – सन्धि प्रकरणात् (स्वर, व्यञ्जन, विसर्ग)– भेदाः उदाहरणानि च। उपपद विभक्ति प्रयोगः। अनुच्छेदलेखनम् अभ्यास कार्यम्। संस्कृतभाषायां अनुवादः।
- मई (08) – पाठ्यपुस्तकात् – पाठः – 3 'मातुराज्ञा गरीयसी' (सरलार्थम्, पाठाभ्यास– कार्यम्)  
व्याकरणात् – पत्रलेखनम्, संस्कृत अनुवादम्, अपठितं गद्यांशं, संवादे एकपक्षपूरणम्।
- जून (09) – व्याकरणात् – प्रत्यय प्रकरणात् – क्त, क्तवत्, शतृ, शानच्, तव्यत्, अनीयर, कित्न्, मतुप्, इन्, ठक्, त्व, तल् प्रत्ययानां नियमाः उदाहरणानि वाक्य प्रयोगाः चः पत्रलेखननभ्यास कार्यम्, अनुच्छेद लेखनाभ्यासम्। लघुकथां सम्पूरयत अभ्यास कार्यम्। स्त्री प्रत्ययात्—टाप्, डीप् प्रत्ययः।
- जुलाई (22) – पाठ्यपुस्तकात्—पाठः – 4 "प्रजानुरञ्जको नृपः", पाठः 5 'द्वौवारिकस्य निष्ठा' (पाठयोः सरलार्थम् पाठाभ्यासकार्यम्)। व्याकरणात्—'समासः' (अव्ययीभाव, द्विगु, द्वन्दः, 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। नाट्यतत्वानाम् मुख्यविशेषतानां परिचयः।
- अगस्त (19) – पाठ्यपुस्तकात् – पाठः 6 – 'सूक्ति सौरभम्' पाठः 7 'नैकनापि समंगता वसुमती' (पाठयोः सरलार्थम् अभ्यास–कार्यम्)। व्याकरणात् – कर्ता – क्रियान्वितिः अभ्यास–कार्यम्। वाक्येषु विभक्तिनां प्रयोगः। पठितपाठान्तर्गते गद्यांशं, श्लोकांशं, नाट्यांशं पठित्वा प्रश्नान् उत्तरत, श्लोकानां अन्वये रिक्तस्थानानि पूरयत, उचित भावार्थचयनम्, पदानांमेलनम्।
- सितम्बर (08) – पाठाधारितम् सन्धिः, प्रत्ययः, समासविग्रहः, उपपदविभक्तिनां प्रयोगः, कर्ताक्रियान्वितिः 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
- नवम्बर (12) – 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।
- दिसम्बर (19) – पाठ्यपुस्तकात्— 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**

| <b>Months/W.D.</b> | <b>Topic to be taught</b>   | <b>Activity/Value</b> |
|--------------------|---|-----------------------|
| April (18)         | <p><b>Unit I: Relations and Functions</b></p> <p>1. Relations and Functions Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.</p> <p>2. Inverse Trigonometric Functions Definition, range, domain, principal value branch.</p> <p><b>Unit II: Algebra</b></p> <p>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).</p>  |                       |
| MAY (08)           | <p>2. Determinants Determinant of a square matrix (up to <math>3 \times 3</math> 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.</p>   |                       |
| JUNE (09)          | <p>1. Continuity and Differentiability Continuity and differentiability, derivative of composite functions, chain rule.</p>   |                       |
| JULY (22)          | <p>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.</p> <p><b>Unit III: Calculus</b></p> <p>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).</p> <p><b>Unit V: Linear Programming</b></p> <p>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).</p> |                       |



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| AUGUST (19)    | <p>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.</p> <p>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).</p> |  |
| SEPTEMBER (08) | <p>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: <math>dy/dx + py = q</math>, where p and q are functions of x or constants.</p> <p style="text-align: center;"><b>Revision for Half Yearly Examination.<br/>Half Yearly Examination.<br/>Discussion of Half Yearly question papers</b></p>                                     |  |

**TERM-II**

| Months/W.D    | Topic to be taught  | Maths Lab Activities |
|---------------|---|----------------------|
| OCTOBER (15)  | <p><b>Unit IV: Vectors and Three – Dimensional Geometry</b></p> <p>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.</p> <p>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</p> |                      |
| NOVEMBER (12) | <p><b>Unit VI: Probability</b></p> <p>1. Probability Conditional probability, multiplication theorem on probability, independent events, total probability, Baye's theorem, Random variable and its probability distribution, <b>Revision for Pre-Board Examination. Revision for Pre-Board Examination.</b></p>  |                      |
| DECEMBER (19) | <p><b>Revision for Pre-Board Examination.<br/>Pre-Board Examination 2024 – 25.<br/>Discussion of Pre – Board Question – Papers Discussion of CBSE Sample Papers</b></p>   |                      |
| JANUARY (17)  | <p><b>Comprehensive Revision for Board Examination2024</b></p>  |                      |

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**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**

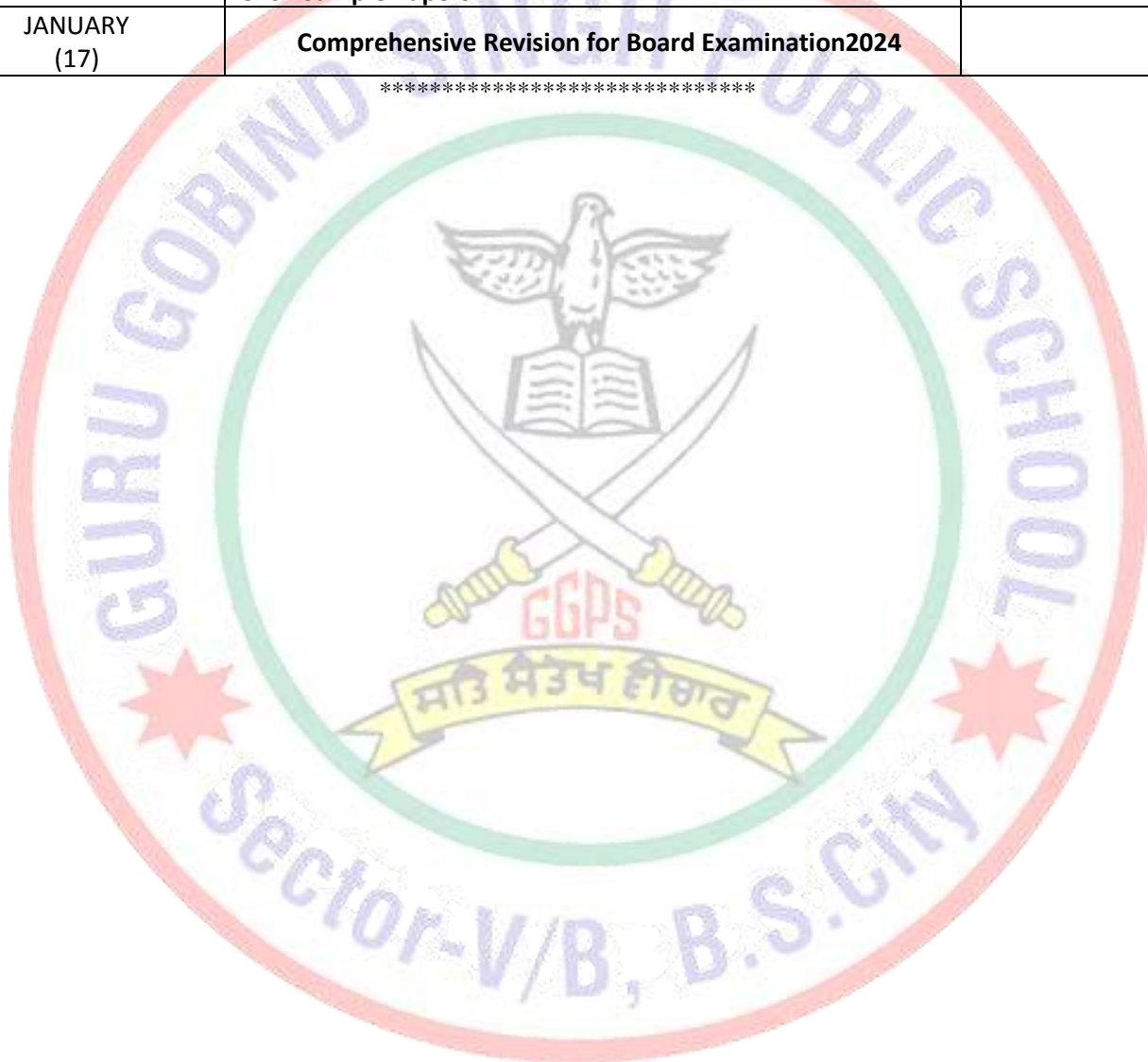
| <b>Months/W.D.</b> | <b>Topic to be taught</b>  | <b>Activity/Value</b> |
|--------------------|--|-----------------------|
| April<br>(18)      | <b>UNIT-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS</b><br>Modulo Arithmetic ,Congruence Modulo<br><b>UNIT-2 ALGEBRA</b><br>Matrices and types 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<br>(08)        | <b>UNIT-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS</b><br>Alligation and Mixture, Numerical Problems, Boats and Streams (upstream and downstream), Pipes and Cisterns, Races and Games, Numerical Inequalities   |                       |
| JUNE<br>(09)       | <b>UNIT- 3 CALCULUS</b><br>Higher Order Derivatives<br>Application of Derivatives  |                       |
| JULY<br>(22)       | <b>UNIT- 3 CALCULUS</b><br>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<br>(19)     | <b>Differential Equations and Modeling</b><br>Differential Equations ,Formulating and Solving Differential Equations ,Application of Differential Equations<br><b>Probability Distributions</b><br>Probability Distribution ,Mathematical Expectation ,Variance Binomial Distribution ,Poison Distribution ,Normal Distribution  |                       |
| SEPTEMBER<br>(08)  | <b>INFERENCE STATISTICS</b><br>Population and Sample ,Parameter and Statistics and Statistical Interferences ,t-Test (one sample t-test and two independent groups t-test)<br><br>Revision for Half Yearly Examination.<br>Half Yearly Examination.<br>Discussion of Half Yearly question papers   |                       |

**TERM-II**

| <b>Months/W.D</b> | <b>Topic to be taught</b>  | <b>Maths Lab Activities</b> |
|-------------------|--|-----------------------------|
| OCTOBER<br>(15)   | <b>UNIT – 6 INDEX NUMBERS AND TIME BASED DATA</b><br>Time Series ,Components of Time Series ,Time Series analysis for univariate data ,Secular Trend ,Methods of Measuring trend<br><b>UNIT - 7 FINANCIAL MATHEMATICS</b><br>Perpetuity, Sinking Funds ,Calculation of EMI ,Calculation of Returns, Nominal Rate of Return ,Compound Annual Growth Rate ,Linear method of Depreciation . |                             |

|                  |  |  |
|------------------|--|--|
| NOVEMBER<br>(12) | <b>UNIT - 7 FINANCIAL MATHEMATICS (Cont.....)</b><br><b>UNIT - 8 LINEAR PROGRAMMING</b><br>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.<br><b>Revision for Pre-Board Examination. Revision for Pre-Board Examination.</b> |  |
| DECEMBER<br>(19) | <b>Revision for Pre-Board Examination.</b><br><b>Pre-Board Examination 2024 – 25.</b><br><b>Discussion of Pre – Board Question – Papers Discussion of CBSE Sample Papers</b>   |  |
| JANUARY<br>(17)  | <b>Comprehensive Revision for Board Examination2024</b>  |  |

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## Syllabus (2024-25)

Class XII

Subject: Physics (042)

Theory (70)

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

## Month Wise Breakup of Syllabus

| Month              | Unit No.             | Chapter No. | Chapter Details  |
|--------------------|----------------------|-------------|--|
| April 2024<br>(18) | Unit 1               | Chapter 1   | <p>Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.</p> <p>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.</p> <p>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).</p>   |
|                    |                      | Chapter 2   | <p>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.</p> <p>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.</p>   |
| May 2024<br>(08)   | Unit 1<br>(continue) | Chapter 2   | <p>Electric polarisation, capacitors and capacitance, combination of capacitors in series and in the plates, energy stored in a capacitor.</p>   |
|                    | Unit 2               | Chapter 3   | <p>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, Carbon resistors &amp; Colour coding.</p>   |
| June 2024<br>(09)  | Unit 2<br>(Continue) | Chapter 3   | <p>Series and parallel combinations of resistors; temperature dependence of resistance.</p> <p>Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, Metre bridge.</p> <p>Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell.</p>   |
| July 2024<br>(22)  | Unit 3               | Chapter 4   | <p>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, Cyclotron.</p> <p>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.</p> |
|                    |                      | Chapter 5   | <p>Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, 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; bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements.</p> <p>Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths, permanent magnets.</p>  |

|                          |                      |            |  |
|--------------------------|----------------------|------------|--|
| July2024                 | Unit 4               | Chapter 6  | Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.  |
| August 2024<br>(19)      | Unit 4<br>(continue) | Chapter 7  | Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, 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).<br>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 its applications, 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.  |
| September2024<br>(08)    | Unit 6<br>(continue) | Chapter 9  | Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise and sunset.<br>Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.<br>Revision & Half yearly Examination   |
| October2024<br>(15)      | Unit 6<br>(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, coherent sources and sustained interference of light, diffraction due to a single slit, width of central maximum, resolving power of microscope and astronomical telescope, polarisation, plane polarised light, Brewster's law, uses of plane polarised light and Polaroids. |
|                          | Unit 7               | Chapter 11 | Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Matter waves-wave nature of particles, de-Broglie relation, Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained).   |
| November<br>2024<br>(12) | Unit 8               | Chapter 12 | Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.  |
|                          | Unit 8               | Chapter 13 | Composition and size of nucleus, Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law.<br>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; Special purpose p-n junction diodes: LED, photodiode, solar cell and Zener diode and their characteristics, Zener diode as a voltage regulator.  |
| December2024<br>(19)     | _____                | _____      | Revision & Pre-Board 1   |
| January2025              | _____                | _____      | Pre-Board 2<br>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



**Subject: Chemistry (12<sup>th</sup>)**  
**Syllabus (2024-2025)**  
**Monthly Syllabus Break-up (2024-2025)**

| Months | Month No. of Working Days | Chapters to be Covered  | Contents in detail  | Experiment / Project / Activity |
|--------|---------------------------|---|---|---------------------------------|
| April  | 18                        | <p><b>Unit 1: Solutions</b></p> <p><b>Unit 2: Electrochemistry</b></p>                                | <p><b>Types of solutions</b>, Expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular mass.</p> <p><b>Redox reactions</b>, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell - electrolytic cells and Galvanic cells, lead accumulator, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, fuel cells.</p>   |                                 |
| May    | 08                        | <b>Unit 3: Chemical Kinetics</b>  | <b>Rate of a reaction</b> (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 equation and half life (only for zero and first order reactions), collision theory (elementary idea, no mathematical treatment).   |                                 |
| June   | 09                        |   | Continue chemical kinetics  |                                 |
| July   | 22                        | <p><b>Unit 6: Haloalkanes and Haloarenes</b></p> <p><b>Unit 7: Alcohols, phenols &amp; Ethers</b></p> | <p><b>Haloalkanes:</b> Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions.</p> <p><b>Haloarenes:</b> Nature of C-X bond, substitution reactions (Directive influence of halogen in mono-substituted compounds only) Uses and environmental effects of - trichloromethane, tetrachloromethane, iodoform, <b>Alcohols, phenols &amp; Ethers.:</b></p> <p><b>Alcohols:</b> 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.</p> <p><b>Phenols:</b> Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.</p> <p><b>Ethers:</b> Nomenclature, methods of preparation, physical and chemical properties, uses.</p> |                                 |

|                  |           |  |  |  |
|------------------|-----------|--|--|--|
| <b>August</b>    | <b>19</b> | <p><b>Unit 8:<br/>Aldehydes,<br/>Ketons and<br/>Carboxylic Acids</b></p> <p><b>Unit 9: Organic<br/>Compounds<br/>containing<br/>Nitrogen</b></p> | <p><b>Aldehydes, Ketons and Carboxylic Acids:</b><br/>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.</p> <p><b>Amines:</b> Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Cyanides and Isocyanides - will be mentioned at relevant places in context. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.</p>   |  |
| <b>September</b> | <b>08</b> |  | Continue Amines  |  |
| <b>October</b>   | <b>15</b> | <p><b>Unit 3:<br/>D -and F -Block<br/>Elements</b></p>   | <p><b>General introduction,</b> 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, preparation and properties of <math>K_2Cr_2O_7</math> and <math>KMnO_4</math>. Lanthanoids - Electronic configuration, oxidation states and lanthanoid contraction. Actinoids - Electronic configuration, oxidation states.</p>   |  |
| <b>November</b>  | <b>12</b> | <p><b>Unit 4:<br/>Coordination<br/>Compounds</b></p> <p><b>Unit 10:<br/>Biomolecules</b></p>   | <p><b>Coordination compounds</b> - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, isomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).</p> <p><b>Carbohydrates</b> - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), oligosaccharides (sucrose, lactose, maltose), importance.</p> <p>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. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.</p> |  |
| <b>December</b>  | <b>19</b> | <b>REVISION</b>  |  |  |

**CLASS - XII****Subject : Biology****Syllabus for the whole year (SESSION-2024-2025)****Unit 1 Reproduction****(16 marks)**

Chapter-

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

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

Chapter-

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

**Unit 3 Biology in Human welfare (12 marks)**

Chapter-

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

**Unit 4 Biotechnology****(12 marks)**

Chapter-

- 11) Biotechnology: Principles & Process
- 12) Biotechnology and its application.

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

Chapter-

- 13) Organism and population
- 14) Ecosystem
- 15) Biodiversity and conservation

| Month | Working Days | Chapter/Topic  | Content   | Activity/Projects  |
|-------|--------------|--|---|--|
| April | 18           | 5.Principles of Inheritance and Variation.<br>6.Molecular Basis of Inheritance     | <p><b><u>Principles of Inheritance and Variation</u></b> :<br/>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.</p> <p><b><u>Molecular Basis of Inheritance:</u></b><br/>Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting.</p> | <p><b>A list of expement – Sl.No 1 to 3</b><br/><b>Study pollen germination on a slide.</b><br/><b>Study of pH , texture , moisture and water holding capacity of soil.</b><br/><b>Study of pH , clarity and living organisms in different water sample.</b></p> |
| May   | 08           | 6.Molecular Basis of Inheritance<br><br>2. Sexual Reproduction in Flowering Plants | <p>Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting.</p> <p><b><u>Sexual Reproduction in Flowering Plants:</u></b><br/>Flower structure; development of male and female gametophytes;</p>  | <p><b>A list of expement – Sl.No 7</b><br/><b>Temporary mount of onion root tip to study mitosis.</b></p>  |

|        |    |   |  |  |
|--------|----|---|--|--|
|        |    |   |  | A list of experiment –<br>Sl.No 8 Study action of salivary amylase on a starch, effect of three different temperature on the activity of salivary amylase on starch.   |
| June   | 09 | 2. 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 modesapomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.   |  |
| July   | 22 | 3. Human Reproduction.<br>4. Reproductive Health.<br>7. Evolution | <b>Human Reproduction:</b><br>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).<br><b>Reproductive Health:</b><br>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)<br><b>Evolution:</b> 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. | <b>B Study/ observation (Spotting)</b><br>Sl.No 1 to 5<br>Study adaptation of flowers adapted to pollination by different agencies.<br>Study of pollen germination on stigma through permanent slide.<br>Study of T.S. of testis and T.S. of ovary of mammals through permanent slide.<br>Study of T.S. of blastula of frog through permanent slide. |
| August | 19 | 8. Human Health and Diseases                                      | <b>Human Health and Diseases:</b> Pathogens; parasites causing human diseases (malaria, dengue, chickengunia, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.  | <b>B Study/ observation (Spotting)</b><br>Sl.No 6 to 9<br>Study of Mendelian inheritance using seeds of different colours/size of any plants , law of  |



|           |    |  |  |   |
|-----------|----|--|--|---|
|           |    | <p>10. Microbes in Human Welfare.</p> <p>11. Biotechnology: Principles &amp; Process</p> <p>12. Biotechnology and its application.</p> | <p><b><u>Microbes in Human Welfare:</u></b><br/>In household food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.</p> <p><b><u>Biotechnology - Principles and processes:</u></b><br/>Genetic Engineering (Recombinant DNA Technology).</p> <p><b><u>Biotechnology and its Application:</u></b><br/>Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology,</p>   | <p>independent assortment.<br/>Study of pedigree charts of genetic traits.<br/>To perform emasculation , bagging and tagging for controlled pollination.<br/>To identify common human pathogen – Ascaris, Entamoeba ,Plasmodium, Ringworm through permanent slide /specimens.</p> |
| September | 08 | 12. Biotechnology and its application.   | <p><b><u>Biotechnology and its Application:</u></b><br/>gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, bio piracy and patents.</p>   | <p>B Study/ observation (Spotting)<br/>Sl.No 10 to 11<br/>Study of plant and animals found in xeric condition. Study of plant and animals found in aquatic conditions.</p>  |
| October   | 15 | <p>13.Organisms and Populations</p> <p>14. Ecosystem</p>   | <p><b><u>Organisms and Populations:</u></b> Organisms and environment: Habitat and niche, population and ecological adaptations; population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution.</p> <p><b><u>Ecosystem:</u></b> Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; nutrient cycles (carbon and phosphorous); ecological succession; ecological services - carbon fixation, pollination, seed dispersal, oxygen release (in brief).</p> | <p>A list of experiment –<br/>Sl.No4 to 6<br/>Study the presence of SPM in air, study the plant population density , plant population frequency by quadrat method.</p>  |
| November  | 12 | <p>15. Biodiversity and its Conservation</p> <p>REVISION &amp; PRE BOARD</p>   | <p><b><u>Biodiversity and Conservation:</u></b> 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>A List of experiment<br/>S.No. 9 Isolate DNA from available plant material such as spinach , green [pea seeds , papaya , etc.</p>  |
| December  | 19 |  | <b>Pre – Board</b>   |   |
| January   | 17 |  |  |   |
| February  | 10 |  |  |   |

**SYLLABUS**  
**SUBJECT: ACCOUNTANCY (CODE NO. 055)**  
**SESSION 2024-25**

Class : XII

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

| Month               | No. of Days | Topics in Detail   |
|---------------------|-------------|--|
| <b>April 2024</b>   | <b>18</b>   | <b>Unit – I Accounting for Partnership Firms</b><br>1. Fundamentals of Partnership .<br>2. Nature and Valuation of goodwill  |
| <b>May</b>          | <b>08</b>   | 3. Change in profit sharing Ratio among Existing partners.<br>4. Admission of a New partner.   |
| <b>June</b>         | <b>09</b>   | Admission of a New partner Cont..  |
| <b>July</b>         | <b>22</b>   | <b>Unit II Accounting for Companies.</b><br>1. Accounting for Share capital<br><b>Unit III Analysis of Financial Statements</b><br>1. Financial statements of a Company. |
| <b>August</b>       | <b>19</b>   | 2. Analysis of financial statements<br>(i) Tools for analysis of financial assessment<br>Comparative statements, common size statements<br>Assignment of Project Work    |
| <b>September</b>    | <b>08</b>   | <b>Revision and Half Yearly Examination 2024 – 25</b>  |
| <b>October</b>      | <b>15</b>   | 1. Accounting for Debentures.<br>2. Accounting for partnership firms:<br>(i) Retirement of a partner   |
| <b>November</b>     | <b>12</b>   | (i) Death of a partner<br>(ii) Accounting Ratios.<br><b>Unit IV Cash flow Statement AS – 3 (Revised)</b><br>Cash Flow statement  |
| <b>December</b>     | <b>19</b>   | (i) Dissolution of Partnership firm.<br><b>Revision and Pre – Board 2024 – 25</b>  |
| <b>January-2025</b> | <b>17</b>   | <b>Evaluation and Completion of Project Work and Revision</b>  |
| <b>February</b>     | <b>10</b>   | <b>CBSE Practical Examination/CBSE Board Examination 2025</b>  |

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## SYLLABUS

CLASS: XII

**SUBJECT: BUSINESS STUDIES (CODE NO.054)**  
(SESSION 2024-25)

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

| Month               | No. of Days | Topics in Detail   |
|---------------------|-------------|--|
| <b>April 2024</b>   | <b>18</b>   | Unit: 1 Nature and Significance of Management  |
| <b>May</b>          | <b>8</b>    | Unit:2 Principles of Management  |
| <b>June</b>         | <b>09</b>   | Unit:3 Business Environment  |
| <b>July</b>         | <b>22</b>   | Unit: 4 Planning<br>Unit: 5 Organising   |
| <b>August</b>       | <b>19</b>   | Unit: 9 Financial Management<br>Unit: 10 Financial Markets<br>Assignment of Project Work |
| <b>September</b>    | <b>08</b>   | <b>Revision and Half Yearly Examination 2024 – 25</b>                                    |
| <b>October</b>      | <b>15</b>   | Unit:11 Marketing Management<br>Unit: 6 Staffing   |
| <b>November</b>     | <b>12</b>   | Unit: 6 Staffing (Cont...)<br>Unit: 7 Directing<br>Unit:8 Controlling                    |
| <b>December</b>     | <b>19</b>   | Unit: 12 Consumer Protection<br><b>Revision and Pre – Board 2024– 25</b>                 |
| <b>January 2025</b> | <b>17</b>   | <b>Evaluation &amp; Completion of Project Work and Revision</b>                          |
| <b>February</b>     | <b>10</b>   | <b>CBSE Practical Examination / CBSE Board Examination 2025</b>                          |

**ECONOMICS**  
**CLASS - XII (2024-25)**

**Theory: 80 Marks**

**3Hours**

**Project: 20 Marks**

| Units         | TOPICS   | Marks     |
|---------------|--|-----------|
| <b>Part A</b> | <b>Introductory Macroeconomics</b>                               |           |
|               | 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        |
|               |  | <b>40</b> |
| <b>Part B</b> | <b>Indian Economic Development</b>                               |           |
|               | 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        |
|               | <b>Theory Paper (40+40 = 80 Marks)</b>                           | <b>40</b> |
|               |  |           |
| <b>Part C</b> | <b>Project Work. 20</b>  | <b>20</b> |

**MONTH WISE BREAKUP OF SYLLABUS**

| Month | No. W.D | Chapter to be covered   | Activity /Project | Test/ Sem. | Prescribed Book                       | Publication |
|-------|---------|---|-------------------|------------|---------------------------------------|-------------|
| April | 18      | <p>Macro-Unit 1:</p> <p><b>Ch. Some Basic concepts of Macroeconomics</b><br/>What is Macroeconomics? Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.</p> <p><b>Ch. National Income &amp; Related Aggregate</b><br/>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><b>Ch. Methods of calculating national Income</b><br/>(Circular flow of income (two sector model); Methods of calculating National Income – Value Added or Product method, Expenditure method, Income method.)</p> |                   |            | NCERT Text Book Part-A & Part-B (XII) | NCERT       |
| May.  | 08      | <b>Ch. Methods of calculating national Income</b>   |                   |            |                                       |             |



|        |    |   |  |  |  |  |
|--------|----|---|--|--|--|--|
| June   | 09 | <p><b>Unit 6: Development Experience (1947-90) and Economic Reforms since 1991</b></p> <p><b>Ch. Indian Economy on the Eve of Independence.</b> A brief introduction of the state of Indian economy on the eve of independence.</p> <p><b>Ch. Indian Economy 1950-1990</b> 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 &amp; importance) and foreign trade.</p>   |  |  | Note: Latest Edition of Text Book should be use. |  |
| July.  | 22 | <p><b>Macro Unit – 2</b></p> <p><b>Ch. Money &amp; Supply of Money</b><br/>Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks.</p> <p><b>Ch. Banking, Commercial Bank and Central Bank.</b> 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.</p> <p><b>Macro Unit – 3</b></p> <p><b>Ch. Aggregate Demand and Its Components.</b> Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal).</p> <p><b>Ch. Short Run Equilibrium Output.</b> Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment.</p> |  |  |  |  |
| August | 19 | <p><b>Ch. Problem of Deficient Demand &amp; Excess Demand</b><br/>Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply.</p>  |  |  |  |  |

|           |    |   |  |                         |  |  |
|-----------|----|---|--|-------------------------|--|--|
|           |    | <p><b>Ch. Economic Reforms Since 1991</b> Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST.</p> <p><b>Unit 7: Current Challenges facing the Indian Economy</b><br/>Ch. Human Capital formation<br/>How people become resource, Role of human capital in economic development. Growth of education sector in India..</p>  |  |                         |  |  |
| September | 08 | <p><b>Ch. Rural Development:</b> Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming.</p> <p><b>Revision for Half Yearly Examination.</b></p>   |  | Half yearly Examination |  |  |
| October.  | 15 | <p><b>Unit – 4 Govt. Budget and the Economy</b> 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><b>Unit – 7 Ch. Employment</b> Growth and changes in work force participation rate in formal and informal sectors; problems and policies</p> <p><b>Macro Unit – 5</b><br/><b>Ch. Balance of Payment.</b> Balance of payments account - meaning and components; balance of payments surplus and deficit.</p> <p><b>Ch. Foreign Exchange Rate</b> 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> |  |                         |  |  |

|                  |           |  |  |  |  |  |
|------------------|-----------|--|--|--|--|--|
| <b>November</b>  | <b>12</b> | <b>Unit – 7</b><br><b>Ch. Sustainable Economic Development</b> Meaning, Effects of Economic Development on Resources and Environment, including global warming.<br><b>Unit–8.Development Experiences of India</b> A comparison with neighbours<br>India and Pakistan<br>India and China Issues: economic growth, population,sectoral development and other Human Development Indicators. |  |  |  |  |
| <b>December.</b> | <b>19</b> | <b>Revision &amp; Project Work</b>   |  |  |  |  |
| <b>January</b>   | <b>17</b> | <b>Pre-Board</b>   |  |  |  |  |

## SYLLABUS

CLASS: XII

### ENTREPRENEURSHIP (CODE NO.066) (SESSION 2024-25)

| Units | Topics                                   | Marks     |
|-------|--|-----------|
| 1     | Entrepreneurial Opportunity              | 30        |
| 2     | Entrepreneurial Planning                 |           |
| 3     | Enterprise Marketing                     | 20        |
| 4     | Enterprise Growth Strategies             |           |
| 5     | Business Arithmetic                      | 20        |
| 6     | Resource Mobilization                    |           |
|       | <b>Total</b>                             | <b>70</b> |
|       | <b>Project Work</b>                      |           |
|       | Project File (02 Projects 10 Marks Each) | 20        |
|       | Numerical Assessment                     | 05        |
|       | Viva - voce                              | 05        |
|       | <b>Total</b>                             | <b>30</b> |

| Month               | No. of Days | Topics in Detail   |
|---------------------|-------------|--|
| <b>April 2024</b>   | <b>18</b>   | Unit: 1 Entrepreneurial Opportunity  |
| <b>May</b>          | <b>08</b>   | Unit:2 Entrepreneurial Planning  |
| <b>June</b>         | <b>09</b>   | Entrepreneurial Planning (Cont...)   |
| <b>July</b>         | <b>22</b>   | Unit: 3 Enterprise Marketing   |
| <b>August</b>       | <b>19</b>   | Unit: 4 Enterprise Growth Strategies<br>Assignment of Project Work           |
| <b>September</b>    | <b>08</b>   | <b>Revision and Half Yearly Examination 2024 – 25</b>                        |
| <b>October</b>      | <b>15</b>   | Unit:5 Business Arithmetic   |
| <b>November</b>     | <b>12</b>   | Unit: 6 Resource Mobilization  |
| <b>December</b>     | <b>19</b>   | Resource Mobilization (Cont ...)<br><b>Revision and Pre – Board 2024– 25</b> |
| <b>January 2025</b> | <b>17</b>   | <b>Evaluation &amp; Completion of Project Work and Revision</b>              |
| <b>February</b>     | <b>10</b>   | <b>CBSE Practical Examination / CBSE Board Examination 2025</b>              |



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 | 18                  | <b>Part 1</b><br><b>Ch1.Bricks,Beads and Bones</b><br><br><b>Ch2. Kings, Farmers and Towns</b> | *Early Urban Centres – Harappa and Mohenjodaro as economic and Social Institutions<br>*Archaeological Report on a major site<br>*Seals, script, weights<br>*Ancient authority<br><br>*The earliest States<br>*The sixteen Mahajanpadas<br>*Finding out about the Mauryas<br>*New notions of Kingship<br>*A changing Countryside<br>*Towns and Trade<br>*Historical evidence from inscriptions | *Develop a project of the domestic architecture of Mohenjodaro.<br><br>*On the given political map of India locate and label the following Harappan sites.<br>i. Harappa<br>ii. Lothal<br>iii. Mohenjodaro<br>iv. Nageshwar<br>v. Banwali<br>vi. Rakhigarhi<br>vii. Kalibangan<br>viii. Kot Diji<br>*On the given political outline map of India locate and label the sixteen Mahajanpadas.<br>*Exchanges were facilitated by the introduction of coinage. Develop a project on contemporary world. |
| May   | 8                   | <b>Ch 3: Kingship, Caste and Class</b>   | *The critical edition of the Mahabharata<br>*Kingship and Marriage<br>*Social differences within and beyond the framework of caste<br>*Language and content   | *Discuss the different stages through which Mahabharata was compiled in the 20 <sup>th</sup> century.   |
| June  | 09                  | <b>Ch 4. Thinkers, Beliefs and Buildings</b>   | *A glimpse of Sanchi<br>*The Backgrounds- Sacrifices and debates<br>*Beyond Worldly pleasures –<br>*The message of Mahavira   | <b>Map Skill-</b> On an outline world map, mark the areas to which Buddhism spread.   |



|     |    |   |   |   |
|-----|----|---|---|---|
|     |    | <p><b>Part – III</b><br/> <b>Ch 9.Colonialism and the Countryside : Exploring Official Archives</b></p> | <p>*The Mughals and their Empire.<br/>         *Bengal and the Zamindars<br/>         *The Hoe and the Plough<br/>         *A Revolt in the Countryside the Bombay Deccan<br/>         *The Deccan Riots Commission</p>   | <p>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>   |
| Sep | 08 | <b>Revision &amp; Half Yearly Examination</b>   |   |   |
| Oct | 15 | <p><b>Ch.10 Rebels and the Raj</b></p> <p><b>Ch.11 Mahatma Gandhi and the Nationalist Movement</b></p>  | <p>*Pattern of the Rebellion<br/>         *Awadh in Revolt<br/>         *What the Rebels wanted?<br/>         *Repression<br/>         *Images of the Revolt</p> <p>*A leader announces himself<br/>         *The making and unmaking of Non-cooperation<br/>         *The Salt Satyagraha-A Case Study<br/>         *Quit India<br/>         *The last Heroic days<br/>         *Knowing Gandhi<br/>         *A tumultuous time<br/>         *The making of the Constituent Assembly</p> | <p>.<br/>         *On an outline political map of India –<br/>         *Mark the extent of British Empire in 1856-57<br/>         *The centres of Revolt of 1857.</p> <p>On an outline political map of India-<br/>         *Mark and label the sessions of the Indian National Congress<br/>         *Important centres of the National Movement(1885-1947).</p> |
| Nov | 12 | <p><b>Ch.12 Framing the Constitution</b></p> <p><b>Revision&amp; Pre – Board Examination</b></p>        | <p>*The vision of the Constitution<br/>         *Defining Rights<br/>         *The powers of the State.<br/>         *The language of the Nation<br/>         *A plea for Hindi<br/>         *The fear of domination</p>  | <p>* 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.</p>  |
| Dec | 19 |   |   |   |
|     |    |   |   |   |

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  |
|-------|---------------------|---|--|---|
| April | 18                  | <p><b><u>Part –A CONTEMPORARY WORLD POLITICS</u></b></p> <p><b>Ch1.The Cold War Era<br/>(Chapter omitted)</b></p> <p><b>Ch2. The end of Bipolarity</b></p> <p><b>Ch 3. US Hegemony in the World Politics (Chapter omitted)</b></p> <p><b>Ch 4. Alternative Centres of Power</b></p> | <p>*The Soviet System</p> <p>*Gorbachev and Disintegration</p> <p>*Consequences of the Disintegration</p> <p>*Shock Therapy in Post-Communist Regimes</p> <p>*Consequences of Shock Therapy</p> <p>*Tensions and Conflicts</p> <p>*India and Post-Communist Countries</p> <p>*European Union(EU)</p> <p>*Association of South East Asian Nation (ASEAN)</p> <p>*The Rise of Chinese Economy</p> <p>*India China Relation</p> | <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> |
| May   | 8                   | <b>Ch 5. Contemporary South Asia</b>  | <p>Bangladesh</p> <p>*Monarchy &amp; Democracy in Nepal</p> <p>*India-Pakistan Conflicts</p> <p>*India and its other neighbours</p> <p>*Peace and cooperation</p>  | *Prepare a timeline on Pakistan – 20 years of Turmoil   |
| June  | 9                   | <b>Ch 6. International Organisations</b>  | <p>*Why International Organisation?</p> <p>*Evolution of the UN</p> <p>*Reform of the UN after the Cold War</p> <p>*Reform of Structures and Processes</p> <p>*Jurisdiction of the UN</p> <p>*India and the UN Reforms</p> <p>*UN’s significant Agencies</p> <p>*What is Security?</p> <p>*Traditional</p>   | <p>*Prepare a list of UN’s significant Agencies.</p> <p>*Prepare a Time-Line on UN Secretaries General</p>  |







## SUBJECT: GEOGRAPHY

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   |
|-----------|---------------------|---|---|
| APRIL     | 18                  | <b>UNIT-1</b><br><b>CH-1</b> HUMAN GEOGRAPHY- NATURE AND SCOPE<br><b>UNIT- 2</b> PEOPLE<br><b>CH-2</b> THE WORLD POPULATION- DISTRIBUTION ,DENSITY AND GROWTH | <b>UNIT-1</b><br><b>CH-1</b> POPULATION: DISTRIBUTION, DENSITY AND GROWTH,AND COMPOSITION<br><b>CH-2</b> MIGRATION: TYPES, CAUSES, AND CONSEQUENCES |
| MAY       | 8                   | <b>UNIT- 2</b><br><b>CH-3</b> POPULATION COMPOSITION<br><b>CH-4</b> HUMAN DEVELOPMENT   | <b>UNIT-1</b><br><b>CH-3</b> HUMAN DEVELOPMENT<br><b>UNIT-2</b><br><b>CH-4</b> -HUMAN SETTLEMENTS   |
| JUNE      | 9                   | <b>CH- 4</b> HUMAN DEVELOPMENT (CONT.)  | <b>CH- 4</b> HUMAN SETTLEMENT( CONT.)   |
| JULY      | 22                  | <b>UNIT- 3</b> PEOPLE<br><b>CH-5</b> PRIMARY ACTIVITIES<br><b>CH-6</b> SECONDARY ACTIVITIES   | <b>UNIT-3</b><br><b>CH-5</b> LAND RESOURCES AND AGRICULTURE<br><b>CH-6</b> WATER RESOURCES<br><b>CH-7</b> MINERALS AND ENERGY RESOURCES             |
| AUGUST    | 19                  | <b>UNIT- 3</b><br><b>CH-7</b> TERTIARY AND QUARTERNARYACTIVITIES  | <b>UNIT-3</b><br><b>CH-8</b> MANUFACTURING INDUSTRIES<br><b>CH-9</b> PLANNING AND SUSTAINBLE DEVELOPMENT IN INDIAN CONTEXT                          |
| SEPTEMBER | 8                   | <b>REVISION &amp; Half Yearly Examination</b>   | <b>REVISION &amp; Half Yearly Examination</b>   |
| OCTOBER   | 15                  | <b>UNIT- 3</b><br><b>CH-8</b> TRANSPORT AND COMMUNICATION   | <b>UNIT-4</b><br><b>CH10</b> TRANSPORTAND, COMMUNICATION<br><b>CH-11</b> INTERNATIONAL TRADE  |
| NOVEMBER  | 12                  | <b>CH-9</b> INTERNATIONL TRADE<br><b>UNIT- 4</b>  | <b>UNIT-5</b><br><b>CH-12</b> -GEOGRAPHICAL PERSPECTIVE<br>ONSELECTED ISSUES AND PROBLEMS   |
| DECEMBER  | 19                  | <b>CH-10</b> HUMAN SETTLEMENTS  | <b>REVISION</b>   |
| JANUARY   | 17                  | <b>REVISION &amp; PRE- BOARD</b>  | <b>REVISION &amp; PRE- BOARD</b>  |
| FEBRUARY  | 10                  |   |   |

| Month | Working Days | Chapter/Unit   | Contents /Sub Topic In Details  | Experiment / Project  |
|-------|--------------|--|---|---|
| April | 18           | <b>Unit-1: Management of Sporting Event</b>  | 1.1. Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling)<br>1.2. Various Committees & its Responsibilities (Pre, During & post)<br>1.3. Fixtures and their Procedure – Knock-Out (Bye & Seeding) & League (Staircase, Cyclic and Tabular Method) and Combination Tournaments<br>1.4. Intramural & Extramural – Meaning, Objectives & It's Significance<br>1.5. Community Sports Program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)   | <b>Practical - 1:</b> Fitness tests administration (SAI Khelo India Test)   |
|       |              | <b>Unit-2 : Children &amp; women in Sports</b>   | 2.1. Exercise Guidelines of WHO for different age groups<br>2.2. Common Postural Deformities and their respective Corrective Measures – Spinal curvature (Kyphosis ,Lordosis & Scoliosis) Knock Knees, Bow Legs, Flat Foot, Round Shoulders   |   |
| May   | 08           | <b>Unit-2 : Children &amp; women in Sports</b>   | 2.3. Women's participation in Sports – Physical, Psychological and Social benefits<br>2.4. Special consideration (Menarche & Menstrual Dysfunction)<br>2.5. Female Athletes Triad (Osteoporosis, Amenorrhoea, Eating Disorders)   |   |
| June  | 09           | <b>Unit-3 : Yoga as Preventive measures for Lifestyle Diseases</b>                               | 3.1. <b>Obesity:</b> Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pawanmuktasana, Matsayasana, Halasana, Paschimottasana, Dhanurasana, Ushtrasana, Suryabedhan Pranayama<br>3.2. <b>Diabetes:</b> Procedure, Benefits & contraindications for Katichakrasana, Pawanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-Vajrasana, Paschimottasana, Ardh-Matsyendrasana, Mandukasana, Yogmudra, Ushtrasana, Kapalabhati , Gomukasana,<br>3.3. <b>Asthma:</b> Procedure, Benefits & contraindications for Tadasana, Urdhwahastottasana, Uttan Mandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana, Matsyasana, Anulom-Vilom<br>3.4. <b>Hypertension:</b> Procedure, Benefits & contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardh Halasana, Sarla Matyasana, Gomukhasana, Uttan Mandukasana, Vakrasana, Bhujangasana, Makrasana, Shavasana, Nadi-Shodhanapranayama, Sitilipranayama<br>3.5. <b>Back Pain and Arthritis:</b> Procedure, Benefits & contraindications for Tadasana, Urdhwahastottasana, Ardh-Chakrasana, Ushtrasana, Vakrasana, Bhujangasana, Sarala Matsyendrasana, Gomukhasana, Bhadrasana, Makrasana, Nadi-Shodhanapranayama | <b>Practical : 2</b> Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease. |
| July  | 22           | <b>Unit : 4 Physical Education &amp; Sports for CWSN (Children With Special Needs – Divyang)</b> | 4.1. Organizations promoting Disability Sports (Special Olympics. Paralympics, Deaflympics).<br>4.2. Concept of classification and Divisioning in sports<br>4.3. Concept of inclusion in sports, it's need and implementation.<br>4.4. Advantage of Physical Activities for children with special needs<br>4.5. Strategies to make Physical Activities assessable for children with special need  |   |

|                                |    |  |   |   |
|--------------------------------|----|--|---|---|
| July                           | 22 | Unit : 5<br>Sports & Nutrition           | <ul style="list-style-type: none"> <li>5.1. Concept of balance diet and nutrition</li> <li>5.2. Macro and Micro Nutrients: Food Sources &amp; functions</li> <li>5.3. Nutritive &amp; Non-Nutritive Components of Diet</li> <li>5.4. Eating For Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance and Food Myths</li> <li>5.5. Importance of Diet in Sports-Pre, During and Post competition requirements</li> </ul>   |   |
| August                         | 19 | Unit: 6 Test & Measurement in Sports     | <ul style="list-style-type: none"> <li>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 &amp; Reach Flexibility Test, Strength Test (Abdominal Partial Cur- Up, Push- Ups for Boys, Modified Push - Ups for Girls)</li> <li>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</li> <li>6.3. Computing Basal Metabolic Rate (BMR)</li> <li>6.4. Rikli &amp; Jones - Senior Citizen Fitness Test               <ul style="list-style-type: none"> <li>1. Chair Stand Test for lower body strength</li> <li>2. Arm Curl Test for upper body strength</li> <li>3. Chair Sit &amp; Reach Test for lower body flexibility</li> <li>4. Back Scratch Test for upper body flexibility</li> <li>5. Eight Foot Up &amp; Go Test for agility</li> <li>6. Six Minute Walk Test for Aerobic Endurance</li> </ul> </li> <li>6.5. Johnsen - Methney Test of Motor Educability (Front Roll, Roll, Jumping, Half-Turn, Jumping Full-Turn)</li> </ul> |   |
| September                      | 08 | Unit: 7<br>Physiology & Injury in Sports | <ul style="list-style-type: none"> <li>7.1. Physiological factor determining component of Physical Fitness</li> <li>7.2. Effect of exercise on Muscular System</li> <li>7.3. Effect of exercise on Cardio Respiratory System</li> <li>7.4. Physiological changes due to aging</li> <li>7.5. Sports injuries: Classification (Soft Tissue Injuries: Abrasion, Contusion, Laceration, Incision, Sprain &amp; Strain ; Bone &amp; Joint Injuries : Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique &amp; Impacted.)</li> </ul>  |   |
| <b>HALF YEARLY EXAMINATION</b> |    |  |   |   |
| October                        | 15 | Unit : 8<br>Biomechanics & Sports        | <ul style="list-style-type: none"> <li>8.1. Newton's Law of Motion &amp; its application in sports</li> <li>8.2. Type of Lever and their application in sports</li> <li>8.3. Equilibrium- Dynamic &amp; Static and Centre of Gravity and its application in sports</li> <li>8.4. Friction &amp; Sports.</li> <li>8.5. Projectile in Sports.</li> </ul>  | <b>Practical : 3</b> Anyone one IOA recognized Sport/ Game of choice. Labelled diagram of Field/Court & Equipment. Also, mention its Rules, Terminologies & Skills. |
|                                |    | Unit: 9<br>Psychology & Sports           | <ul style="list-style-type: none"> <li>9.1. Personality; its definition &amp; types (Jung Classification &amp; Big Five Theory)</li> <li>9.2. Motivation, its type &amp; techniques</li> <li>9.3. Exercise Adherence : Reasons, Benefits &amp; Strategies for Enhancing it</li> </ul>   |   |
| November                       | 12 | Unit: 9<br>Psychology & Sports           | <ul style="list-style-type: none"> <li>9.4. Meaning, Concept &amp; Types of Aggressions in Sports</li> <li>9.5. Psychological Attributes in Sports – Self Esteem, Mental Imagery, Self Talk, Goal Setting</li> </ul>  |   |
|                                |    | Unit: 10<br>Training in Sports           | <ul style="list-style-type: none"> <li>10.1. Concept of Talent Identification and Talent Development in Sports</li> <li>10.2. Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle</li> <li>10.3. Types &amp; Method to Develop- Strength, Endurance and Speed</li> <li>10.4. Types &amp; Method to Develop – Flexibility and Coordinative Ability</li> <li>10.5. Circuit Training - Introduction &amp; its importance</li> </ul>   |   |
| December                       | 19 | <b>Revision &amp; Pre - Board</b>        |   |   |
| January                        | 17 | <b>REVISION</b>                          |   |   |

### **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)

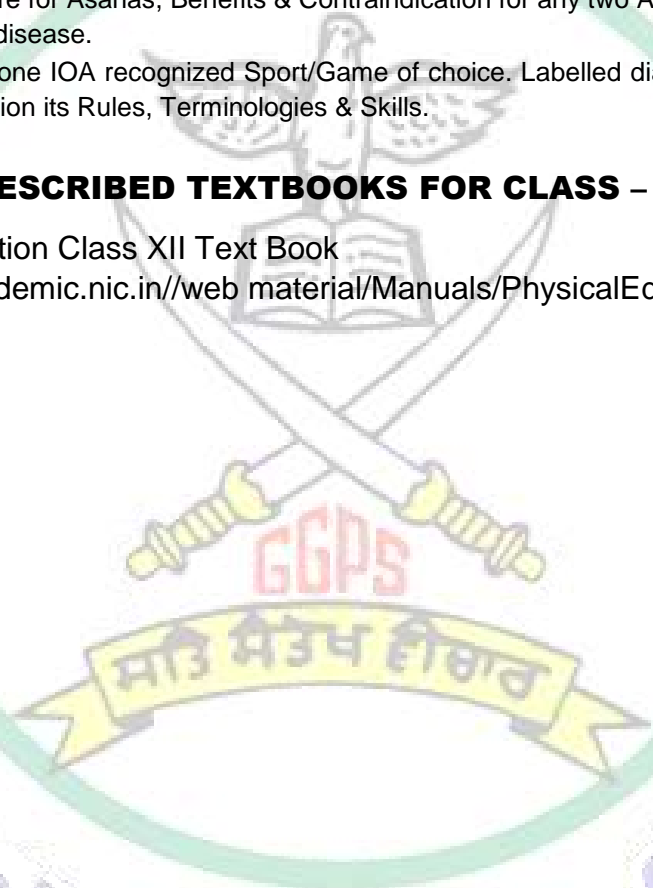
**Practical – 2 :** Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.

**Practical – 3:** Anyone 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>



## Subject : Computer Science (Code : 083)

### Class : XII Session : (2024-25)

| Month | No. of Working Days | Chapters/Topic to be covered   | Activity/Practical   |
|-------|---------------------|--|--|
| Apr   | 18                  | <b>Revision of Python topics covered in class XI</b><br><b>i)Functions:</b> 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)<br><b>Exception Handling:</b> Introduction, Handling exceptions using try-except-finally blocks  | Program related to function, Passing string, list, dictionary to function. Program to find factorial using recursion<br><br>Program to illustrate handling of type exception in Python   |
| May   | 08                  | <b>Database concepts:</b> introduction to database concepts and its need<br><b>Relational data model:</b> relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)<br><b>Structured Query Language (SQL):</b> 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 command, aggregate functions (max, min, avg, sum, count), group by, having clause | To create table with primary key constraints.<br><br>SQL query using create, select , update, where, like, order by, group by commands.  |
| Jun   | 09                  | joins: Cartesian product on two tables, equi-join and natural join   | Various SQL Queries using two tables.  |
| July  | 22                  | <b>Interface of python with an SQL database:</b> connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications<br><b>Data File Handling :</b> Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths<br><b>Text file:</b> 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   | Program to connect MySQL with datafile<br><br>Write a program to Create Text file, Appending a data to Text file, updating data into Text file, Accessing data from Text file<br><br>Write a program to Create Binary file, Appending a data to Binary file, updating data into Binary file, Accessing data from Binary file |

|     |    |   |  |
|-----|----|---|--|
| Aug | 19 | <p><b>Binary file:</b> 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><b>CSV file:</b> 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><b>Python libraries: creating python libraries</b></p>  | Program to Importing data from csv file          |
| Sep | 08 | Idea of efficiency: number of comparisons in Best, Worst and Average case for linear search   |  |
| Oct | 15 | Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.  | Program to perform operations on stack and queue |
| Nov | 12 | <p><b>Computer Network</b></p> <p><b>Evolution of networking:</b> introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)</p> <p><b>Data communication terminologies:</b> 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)</p> <p><b>Transmission media:</b> Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)</p> <p><b>Network devices</b> (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</p> <p><b>Network topologies</b> and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)</p> <p><b>Network protocol:</b> HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP, wireless/mobile communication protocol such as GSM, GPRS and WLL</p> <p><b>Introduction to web services:</b> WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting</p> | Project work                                     |
| Dec | 19 | <b>Revision &amp; Project Work (Contd...)</b>   |  |
| Jan |    |   |  |
| Feb |    |   |  |



**Subject: Informatics Practices (Code: 065)**  
**2024-25**

| Month | No. of Working days | Chapter Name                      | Chapter/ Topic to be covered  | Experiment/ Project/ Activity  | Test/ Sem | Prescribed book   | publication                          |
|-------|---------------------|-----------------------------------|---|--|-----------|---|--------------------------------------|
| Apr   | 18                  | <b>Data Handling using Pandas</b> | Introduction to Python libraries- Pandas, Matplotlib<br>Data structures in Pandas - Series and data frames<br><br><b>Series:</b> Creation of series from ndarray, dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing.<br><b>Data Frames:</b> creation of data frames from dictionary of series, list of dictionaries. | Write a python code to create a series using float numbers.<br><br>Write a python code to create a series using dictionary and ndarray.<br><br>Write a python code to create a DataFrame using list and dictionary.<br><br>Write a python code to locate 3 largest value in a DataFrame. |           | i) Informatics Practices (A text book for class XII)<br><br>ii) Informatics Practices with Python by Sumita Arora | NCERT<br><br>Dhanpat Rai Publication |
| May   | 08                  | <b>Data Handling using Pandas</b> | <b>Data Frames:</b> 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).<br>Rename, Head and Tail functions, indexing using labels, Boolean indexing of data frames.   | Write a python code to use head() and tail() function in different ways.   |           |   |                                      |
| Jun   | 09                  | <b>Data Handling using Pandas</b> | Importing/Exporting Data between CSV files and Data Frames.   | Write a python code to import and export data between pandas and .csv file.  |           | iii) Informatics Practices with Python by Preeti Arora  | Sultan Chand & Sons (P)Ltd           |
| July  | 22                  | <b>Data Visualization</b>         | Purpose of plotting, drawing and saving of plots using Matplotlib (line plot, bar graph).<br>Histogram  | Write python code to plot various types of chart using matplotlib.   |           |   |                                      |

|     |    |                                 |  |   |  |                         |  |
|-----|----|---------------------------------|--|---|--|-------------------------|--|
|     |    |                                 | Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots.   |   |  |                         |  |
| Aug | 19 | <b>Database Query using SQL</b> | <p>Revision of database concepts and SQL commands covered in class XI</p> <p><b>Math functions:</b> POWER (), ROUND (), MOD ().</p> <p><b>Text functions:</b> UCASE ()/UPPER (), LCASE ()/ LOWER (), MID()/SUBSTRING () /SUBSTR (), LENGTH (),LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM().</p> <p><b>Date Functions:</b> 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> |  |                         |  |
| Sep | 08 |                                 | <p><b>Aggregate Functions:</b> MAX (), MIN(), AVG(), SUM(), COUNT ();<br/>using COUNT (*).Querying and manipulating data using Group by, Having, Order by.</p> <p>Working with two tables using equi-join</p> <p><b>Revision of Half Yearly portion</b></p>  |   |  | <b>Half yearly Exam</b> |  |

|     |    |  |   |               |                    |  |  |
|-----|----|--|---|---------------|--------------------|--|--|
| Oct | 15 | <b>Introduction to Computer Networks</b> | <p>Introduction to networks, <b>Types of network:</b><br/>LAN, MAN, WAN<br/>Network Devices: modem, hub, switch, repeater, router, gateway, Network</p> <p><b>Topologies:</b><br/>Star, Bus, Tree, Mesh.</p> <p>Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP.</p> <p><b>Website:</b> Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website.</p> <p><b>Web Browsers:</b> Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.</p> | Project work: |                    |  |  |
| Nov | 12 | <b>Societal Impacts</b>                  | <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><b>E-waste:</b> hazards and management. Awareness about health concerns related to the usage of technology.</p>   | Project work: |                    |  |  |
| Dec | 19 |  | Revision & Project  | Project work: | <b>Pre-Board 1</b> |  |  |
| Jan | 17 |  |   |               |                    |  |  |
| Feb | 10 |  |   |               |                    |  |  |

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# GURU GOBIND SINGH PUBLIC SCHOOL

SECTOR - 5, BOKARO STEEL CITY

CLASS – XII

PAINTING

MONTHLY SYLLABUS BREAK-UP FOR 2024-25

| MONTH                     | W.D           | CHAPTER/TOPIC  | CONTENT/SUB TOPIC IN DETAIL   | EXPERIMENT/<br>PRACTICAL  |
|---------------------------|---------------|--|---|---|
| APRIL                     | 18            | INTRODUCTION TO INDIAN MINATURE PAINTING                     | PAL, JAIN AND CENTRAL INDIAN PAINTINGS.<br>DEVELOPMENT OF INDIAN ART  | STILL LIFE  |
| MAY<br>+<br>JUNE          | 08<br>+<br>09 | RAJASTHANI AND PAHARI SCHOOLS OF MINATURE PAINTING           | 1. ORIGIN AND DEVELOPMENT<br>2. MAIN FEATURES OF PAHARI SCHOOL<br>3. SUB-SCHOOLS-MEWAR, BUNDI, JODHPUR, BIKANER.  | STILL LIFE  |
| JULY                      | 22            | MUGHAL AND DECCAN SCHOOLS OF MINATURE PAINTING               | 1. BIRTH OF SALIM - RAMDAS<br>2. STUDY OF DIFFERENT MUGHAL PAINTINGS<br>3. KRISHNA LIFTING MOUNTAIN<br>4. BABUR CROSSING RIVER SONE OF AKBAR PERIOD.  | NATURE STUDY  |
| AUGUST                    | 19            | ERA IN INDIAN ART  | 1. EVOLUTION OF THE INDIAN NATIONAL FLAG<br>2. STUDY OF DIFFERENT PAINTINGS OF THE BENGAL SCHOOL  | NATURE STUDY  |
| SEPTEMBER                 | 08            | THE MODERN IN DIFFERENT CONTEMPORARY (MODERN) ART            | 1. STUDY OF DIFFERENT CONTEMPORARY<br>2. HALDI GRINDERS - AMRITA SHERGILL   | HUMAN SKETCHING   |
| OCTOBER                   | 15            | STUDY OF DIFFERENT - CONTEMPORARY (MODERN) INDIAN SCULPTURES | 1. TRIUMPH OF LABOUR BY DEVI PRASAD ROY<br>2. SANTHAL FAMILY BY RAM KINKER BAIJ<br>3. CRIES UNHEARD BY AMARNATH SEHGAL<br>4. GANESHA BY P.V. JANAKIRAM<br>5. CHATURMUKHI BY AEKRA YADAGIRI RAO<br>6. VANSHI BY MRINALINI MUKHEJEE | USE OF WATER COLOUR AND ITS COMPOSITION                             |
| NOVEMBER<br>+<br>DECEMBER | 12<br>+<br>19 | REVISION OF THEORY   | -----   | PORTFOLIO MAKING - PORTFOLIO ASSESSMENT & PRACTICAL FILE SUBMISSION |

| MONTH                     | W.D           | TOPIC  | CONTENTS IN DETAIL  | PRACTICAL                                   |
|---------------------------|---------------|--|---|---|
| APRIL                     | 18            | 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<br>+<br>JUNE          | 08<br>+<br>09 | 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                      | 22            | Gatnikas   | Three gharanas of Kathak Dance, short notes of sangget, taal, laya, sthan, chari, gati, mandal.                 | Gatnikas teen taal..                        |
| AUGUST                    | 19            | Gatbhava   | Abhinay with four aspects,short notes of karan, anghar,bhramri, utplavan,lokdharmi, natyadharmi, ras and bhava. | Gatbhava in teen taal                       |
| SEPTEMBER                 | 08<br>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                   | 15            | Dance in Dhamar taal.  | Traditional costumes and make up of Kathak Dance.   | Salami and aamad in Dhamar taal.            |
| NOVEMBER<br>+<br>DECEMBER | 12<br>+<br>19 | Parhant and theka.<br><br>Laykari  | Tali, khali, sam, tihai, dadra, kaharwa and roopak.<br><br>Revisions  | Dance in teen taal, jhap taal, dhamar taal. |
| JANUARY                   | 17            | Parhant of boles   | Revisions   | Dance with hast kriya.                      |
| FEBRUARY                  | 10            | Revisions  | Revisions   | Revisions.                                  |

## SUBJECT- BHARATNATYAM DANCE

Class:12

| MONTH                     | W.D           | TOPIC                        | CONTENTS IN DETAIL   | PRACTICAL                       |
|---------------------------|---------------|------------------------------|--|---------------------------------|
| APRIL                     | 18            | Tatti natta adavu,tirmanam.. | History of other classica and folkl dfances of india   | Tatti natta adavu and tirmanam. |
| MAY<br>+<br>JUNE          | 08<br>+<br>09 | Sarikkal, mandi, kata adavu. | Nritta, natya, nritya, tandav, lasya,ang, pratyang, upang.   | All adavus.                     |
| JULY                      | 22            | Alaripu                      | Sthan, chari, mandal, bhramri, utplavan, abhinay.  | Alaripu.                        |
| AUGUST                    | 19            | Alaripu                      | Sangeet, taal, laya, ras.  | Aiaripu                         |
| SEPTEMBER                 | 08<br>H.Y.    | jathiswaram.                 | Sthayi and sanchari bhava..  | jathiswaram                     |
| OCTOBER                   | 15            | Jathiswaram                  | Definition of araimandi, mujhumandi, korvai, adavu, sollu, tirmanam jati, gati, avartana, talangam, nattuvangam. | Jathiswaram                     |
| NOVEMBER<br>+<br>DECEMBER | 12<br>+<br>19 | One folk dance               | Revisions  | Folk dancel.                    |
| JANUARY                   | 17            | Tillana                      | Revisions of mythology   | Tillana                         |
| FEBRUARY                  | 10<br>ANNUAL  | Revisions                    | Revisions  | Revisions                       |