Guru Gobind Singh Public School
Bokaro /Chas/Dhanbad

Syllabus
2025 – 26

Class: XII

GURU GOBIND SINGH PUBLIC SCHOOL

SPLIT UP OF SYLLABUS [SESSION 2025 – 26]

Class: XII **Subject: English – Core**

Prescribed Books :

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

Flamingo:

Prose:	**Flamingo:**
1. The Last Lesson 2. Lost Spring 3. Deep Water 4. The Rattrap 5. Indigo 6. Poets and Pancakes 7. The Interview 8. Going Places	1. My Mother at Sixty Six 2. Keeping Quiet 3. A Thing of Beauty 4. A Roadside Stand 5. Aunt Jennifer's Tigers

Vistas:

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

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

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

Syllabus (2025-26)

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	Project/ Assignment	Periodic Test Portion
April	17	गद्य पाठ --1.भक्तिन पद्य पाठ --आत्म परिचय, एक गीत (दिन जल्दी जल्दी ढलता है) वितान --पाठ 1 . सिल्वर वेडिंग जनसंचार माध्यम, अपठित पद्यांश ,आलेख लेखन	परियोजना कार्य	PT--1 1.गद्य पाठ -- भक्तिन 2.पद्य पाठ- दिन जल्दी-जल्दी ढलता है 3. जनसंचार माध्यम 4.अपठित पद्यांश
May	07	गद्य पाठ --2. बाजार दर्शन पद्य पाठ-- पतंग		
June	12	पद्य पाठ-- कविता के बहाने,बात सीधी थी पर रचनात्मक लेखन, कहानी लेखन		
July	24	गद्य पाठ—3.काले मेघा पानी दे पद्य पाठ-- कैमरे में बंद अपाहिज, उषा वितान --पाठ 2 - जूझ समाचार लेखन,(उल्टा पिरामिड शैली) आलेख, अपठित गद्यांश, नाटक लेखन, रेडियो नाटक		PT-2 1.पद्य पाठ- कविता के बहाने 2.गद्य पाठ- बाजार दर्शन 3.वितान - सिल्वर वैडिंग 4.कहानी के तत्व
August	21	गद्य पाठ--4 पहलवान की ढोलक पद्य पाठ-- बादल राग, कवितावली प्रिंट माध्यम संपादकीय, अपठित पद्यांश, रचनात्मक लेखन		PT-3 1. पद्य पाठ- कैमरे में बंद अपाहिज 2.पहलवान की ढोलक 3. वितान-- जूझ 4.नाटक, रेडियो

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

नोट:-सीबीएसई के द्वारा नवीन पाठ्यक्रम मिलने के उपरांत इस पाठ्यक्रम में फेरबदल संभव है।

संस्कृत पाठ्यक्रम 2025–2026
कक्षा–द्वादशी

निर्धारित पुस्तकानि :– पाठ्यपुस्तकानि

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

पाठ्यक्रम का मासिक विभाजन–

अप्रैल (18) – पाठ्यपुस्तकात्–पाठः 1. 'अनुशासनम्' (सरलार्थम् पाठाभ्यास कार्यम्)।
पाठ – 3 'मातुराज्ञा गरीयसी' (सरलार्थम्, पाठाभ्यास – कार्यम्)।
व्याकरणात् – सन्धि प्रकरणात् (स्वर, व्यञजन, विसर्ग) – भेदाः उदाहरणानि च। उपपद विभक्ति प्रयोगः। अनुच्छेदलेखनम् अभ्यास कार्य्। संस्कतभाषायां अनुवादः।
प्रथम समसामयिकी परीक्षा – पाठात् – पाठ 1 'अनुशासनम्', पठित गद्यांश
पाठ – 3 'मातुराज्ञा गरीयसी'
व्याकरणात् – संवादलेखनम्, उपपदविभक्ति, लघुकथा, सन्धि, संस्कृत अनुवाद।

मई (08) – पाठ्यपुस्तकात् – 3 'मातुराज्ञा गरीयसी' (सरलार्थम्, पाठाभ्यास – कार्यम्)।
व्याकरणात् – पत्रलेखनम्, संस्कृत अनुवादम्, अपठितं गद्यांशं, संवादे एकपक्षपूरणम्।
प्रथम समसामयिकी परीक्षा – पाठात् – पाठ 1 'अनुशासनम्', पठित गद्यांश
पाठ 3 'मातुराज्ञा गरीयसी'

जून (09) – पाठ्यपुस्तकात्–पाठः – 4 ''प्रजानुरञ्जको नृपः''
व्याकरणात् – प्रत्यय प्रकरणात् – क्त, क्तवतु, शतृ, शानच्, तव्यत्, अनीयर, क्तिन्, मतुप्, इन्, ठक्, त्व, तल् प्रत्ययानां नियमाः उदाहरणानि वाक्य प्रयोगाः चः पत्रलेखननभ्यास कार्यम्, अनुच्छेद लेखनाभ्यासम्। लघुकथां सम्पूरयत अभ्यास कार्यम्। स्त्री प्रत्ययात्–टाप् ङीप् प्रत्ययः।

जुलाई (22) – पाठ्यपुस्तकात्–पाठः 5 'द्वौवारिकस्य निष्ठा' (पाठयोः सरलार्थम् पाठाभ्यासकार्यम्)।
पाठः 6 – 'सूक्ति सौरभम्'
व्याकरणात्–'समासः' (अव्ययीभाव, द्विगु, द्वन्दः, तत्पुरूष, 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।
द्वितीय समसामयिकी परीक्षा – पाठात् – पाठ 4 ''प्रजानुरञ्जको नृपः''
व्याकरणात् – प्रत्यय (क्त, क्तवतु, शतृ), अव्यय, समास, संस्कृत साहित्य परिचय (रिक्त स्थानानि पूरयत)

अगस्त (19) – पाठ्यपुस्तकात् – पाठः 7 'नैकेनापि समंगता वसुमती' (पाठस्यः सरलार्थम् पाठाभ्यास–कार्यम्)।
व्याकरणात्–कर्त्ता–क्रियान्वितिः अभ्यास–कार्यम्। वाक्येषु विभक्तिनां प्रयोगः।

पठितपाठान्तर्गते गद्यांश, श्लोकांशं, नाट्यांशं पठित्वा प्रश्नान् उत्तरत, श्लोकानां अन्वये रिक्तस्थानानि पूरयत, उचित भावार्थचयनम्, पदानांमेलनम्।
द्वितीय समसामयिकी परीक्षा – पाठात् – पाठ 4 ''प्रजानुरञ्जको नृपः''
व्याकरणात् – प्रत्यय (क्त, क्तवतु, शतृ), अव्यय, समास, संस्कृत साहित्य परिचय (रिक्त स्थानानि पूरयत)।

सितम्बर (08) – पाठाधारितम् सन्धिः, प्रत्ययः, समासविग्रहः, उपपदविभक्तिनां प्रयोगः, कर्त्ताक्रियान्वितिः प्रयोगः, पदानांमेलनम्, प्रसंगानुसारं शुद्धं अर्थचयनम्। संस्कृत साहित्य परिचयात् पुनरावृति–कार्यम्' (अर्द्धवार्षिकी परीक्षायाः शुभारम्भः)

अक्टूबर (15) – पाठ्यपुस्तकात् – पाठः 9 'मदालसा' (सरलार्थम् पाठाभ्यासकार्यम्) सामान्य संस्कृत साहित्य परिचयात् अभ्यास कार्यम्, अपठितं गद्यांशं।
पाठ्यपुस्तकात् – पाठः 11 'कार्याकार्य' – व्यवस्थितिः' (पाठस्य सरलार्थम् पाठाभ्यासम्)
संस्कृत–साहित्य परिचयः–संस्कृत महाकाव्यस्य, खण्डकाव्यस्य, संस्कृत–नाट्यस्य, साहित्य, गद्यकाव्यस्य, चम्पूकाव्यस्य, विशेषताः संस्कृते लिखत। रामायणम्, महाभारतम्:, पुराणानि आधारिता प्रश्नाः। मंजूषा पदसहायताया रिक्तस्थानानि पूरयत अभ्यास कार्यम्।
तृतीय समसामयिक परीक्षा – पाठात् – पाठ 9 'मदालसा', पाठ 11 'कार्याकार्य' – व्यवस्थितिः' (गद्यांशम्/पद्यांशम्)

नवम्बर (12) – पुनरावृति कार्यम् – व्याकरणात्–'समासः' (अव्ययीभाव, द्विगु, द्वन्दः, तत्पुरूष, 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।
तृतीय समसामयिक परीक्षा – पाठात् – पाठ 9 'मदालसा', पाठ 11 'कार्याकार्य' – व्यवस्थितिः' (गद्यांशम्/पद्यांशम्)
व्याकरणात् – प्रसंगानुसार शुद्ध अर्थ चयनम्, उपपदविभक्ति, सन्धि, समास, प्रत्यय, संस्कृत साहित्य परिचय। पाठस्य सन्दर्भग्रन्थः तेषां लेखाकानाम् परिचयः
प्राक्बोर्ड परीक्षायाः शुभारम्भ।

दिसम्बर (19) – पुनरावृति कार्यम् – अधोलिखितेषु टिप्पणयः लिखत–सूत्रधारः, नान्दी, विदूषकः, नायकः, नायिका, नेपथ्यम् इत्यादयः। (प्रारम्भिक जाँच परीक्षायाः शुभारम्भः)।

जनवरी (17) – द्रूतगत्या 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) REFRENCE BOOKS :

1. Exemplar (Maths) Problems Class XII(NCERT)
2. Mathematics Part I and II, Class XII R.D. Sharma, by Dhanpat Rai

LABORATORY MANUAL : Laboratory Manual Mathematics CBSE Class XII, Arihant Publication.

TERM-I

Months/W.D.	Topic to be taught	Activity/Value
April (17)	**Unit I: Relations and Functions** 1. Relations and Functions Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. 2. Inverse Trigonometric Functions Definition, range, domain, principal value branch. **Unit II: Algebra** 1. Matrices Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non commutativety of multiplication of matrices and Invertible matrices (Here all matrices will have real entries).	
MAY (07)	2. Determinants Determinant of a square matrix (up to 3 x 3 matrices), Minors, co-factors and Applications of determinants in finding the area of a triangle. Determinants contd: Adjoint and inverse of a square matrix. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	
JUNE (12)	1.Continuity and Differentiability Continuity and differentiability, derivative of composite functions, chain rule.	
JULY (24)	derivatives of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives. **Unit III: Calculus** 2. Applications of Derivatives Applications of derivatives: increasing/decreasing functions, tangents and normals, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations). **Unit V: Linear Programming** 1.Linear Programming Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, + graphical method of solution for problems in two variables, feasible and infeasible regions (bounded and unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).	

AUGUST (21)	**Unit IV: Vectors and Three – Dimensional Geometry** 1. Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors) Position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors. 2. Three - dimensional Geometry Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Distance of a point from a plane	
SEPTEMBER (07)	**Unit VI: Probability** 1. Probability Conditional probability, multiplication theorem on probability, independent events, total probability, Baye's theorem, Random variable and its probability distribution, **Revision for Half Yearly Examination.** **Half Yearly Examination.** **Discussion of Half Yearly question papers**	

TERM-II

Months/W.D	Topic to be taught	Maths Lab Activities
OCTOBER (13)	3. Integrals Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them, Integrals contd. : Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals. 4. Applications of the Integrals Applications in finding the area under simple curves, especially lines, circles/ parabolas /ellipses (in standard form only), (the region should be clearly identifiable).	
NOVEMBER (14)	5. Differential Equations Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. **Revision for Pre-Board Examination.**	
DECEMBER (18)	**Revision for Pre-Board Examination.** **Pre-Board Examination 2025 – 26.** **Discussion of Pre – Board Question – Papers Discussion of CBSE Sample Papers**	
JANUARY	**Comprehensive Revision for Board Examination 2025**	

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Class -XII

Subject : Applied Mathematics (241)

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

1. Exemplar (Maths) Problems Class XII(NCERT)
2. Mathematics Part I and II, Class XII R.D. Sharma, by Dhanpat Rai

LABORATORY MANUAL : Laboratory Manual Mathematics CBSE Class XII, Arihant Publication.

TERM-I

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

TERM-II

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

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

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GURU GOVIND SINGH PUBLIC SCHOOL

SECTOR- V/B, BOKARO STEEL CITY

Syllabus (2025-26)

Class XII **Subject: Physics (042)** **Theory (70)**

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

Month Wise Breakup of Syllabus

Month	Unit No.	Chapter No.	Chapter Details
April 2025 (17)	Unit 1	Chapter1	Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's law and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).
		Chapter2	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel.
May 2025 (7)	Unit 1 (continue)	Chapter 2	Capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formula only)
	Unit 2	Chapter 3	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity.
June 2025 (12)	Unit 2 (Continue)	Chapter 3	Series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws, Wheatstone bridge.
July2025 (24)	Unit 3	Chapter 4	Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.
		Chapter 5	Current loop as a magnetic dipole and its magnetic dipole moment, magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; magnetic field lines; magnetic properties of materials Para-, dia- and ferro - magnetic substances, with examples. magnetization of materials, effect of temperature onmagnetic properties.

July2025	Unit 4	Chapter 6	Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.
August 2025 (21)	Unit 4 (continue)	Chapter 7	Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit, (phasors only) resonance; power in AC circuits, power factor, wattless current. AC generator and Transformer.
	Unit 5	Chapter 8	Basic idea of displacement current, Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.
	Unit 6	Chapter 9	**Ray Optics:** Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction and dispersion of light through a prism.
September2025 (7)	Unit 6 (continue)	Chapter 9	Optical Instruments : Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. **Revision & Half yearly Examination**
October2025 (13)	Unit 6 (Continue)	Chapter 10	Wave optics: Wave front and Huygens's principle, reflection and refraction of plane wave at a plane surface using wave fronts Proof of laws of reflection and refraction using Huygens's principle. Interference, Young's double slit experiment and expression for fringe width (no derivation final expression only) coherent sources and sustained interference of light, diffraction due to a single slit, width of central maximum. (Qualitative treatment only)
	Unit 7	Chapter 11	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect. Matter waves-wave nature of particles, de-Broglie relation.
November 2025 (17)	Unit 8	Chapter 12	Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line Spectra (qualitative treatment only).
	Unit 8	Chapter 13	Composition and size of nucleus, nuclear force . Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.
	Unit 9	Chapter 14	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier
December2025 (19)	_____	_____	Revision & Pre-Board 1
January2026 (14)	_____	_____	Pre-Board 2 Board Practical Examination

Experiment-(30)

SECTION–A

1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.
2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
3. To verify the laws of combination (series) of resistances using a metre bridge.
4. To verify the laws of combination (parallel) of resistances using a metre bridge.
5. To determine resistance of a galvanometer by half-deflection method and to find its figure ofmerit.
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 and1/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 glassslab.
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

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SUBJECT: CHEMISTRY (12th)

SYLLABUS (2025-2026)

Monthly Syllabus Break-up (2025-2026)

Class-12 Chemistry Theory

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

Chemistry Theory & Practical SESSION 2025 – 26

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

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

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

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

CLASS - XII **Subject : Biology**

Syllabus for the whole year (SESSION-2025-2026)

Unit 1 Reproduction (16 marks)

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

Unit 2 Genetics & Evolution (20 marks)

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

Unit 3 Biology in Human welfare (12 marks)

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

Unit 4 Biotechnology and its Applications (12 marks)

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

Unit 5 Ecology and Environment (10 marks)

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

Month	Working Days	Chapter/Topic	Content	Periodic Test	Activity/Projects
April	**17**	4.Principles of Inheritance and Variation. 5.Molecular Basis of Inheritance	**Principles of Inheritance and Variation** : 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. **Molecular Basis of Inheritance:** Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging;	**PT-1 :** **CH-5** Principles of Inheritance and Variation. **CH-6** Molecular Basis of Inheritance - Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging	**A.2. Study the plant population density by quadrat method.** **3. Study the plant population frequency by quadrat method.**
May	**07**	5.Molecular Basis of Inheritance 1. Sexual Reproduction in Flowering Plants	DNA replication; Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting. **Sexual Reproduction in Flowering Plants**: Flower structure; development of male and female gametophytes;		**B.1. Flowers adapted to pollination by different agencies (wind, insects, birds).** **2. Pollen germination on stigma through a permanent slide or scanning electron micrograph**

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

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

SYLLABUS

SUBJECT: ACCOUNTANCY (CODE NO. 055)

SESSION 2025-26

CLASS : XII

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

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

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SYLLABUS

SUBJECT: BUSINESS STUDIES (CODE NO. 054)

SESSION 2025-26

CLASS: XII

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

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

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ECONOMICS
CLASS - XII (2025-26)

Theory: 80 Marks **3Hours**
Project: 20 Marks

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

MONTH WISE BREAKUP OF SYLLABUS

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

June	**12**	**Unit 6: Development Experience (1947-90) and Economic Reforms since 1991** **Ch. Indian Economy on the Eve of Independence.** A brief introduction of the state of Indian economy on the eve of independence. **Ch. Indian Economy 1950-1990** Indian economic system and common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI – role & importance) and foreign trade.			Note: Latest Edition of Text Book should be use.	
July.	**24**	**Macro Unit – 2** **Ch. Money & Supply of Money** Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks. **Ch. Banking, Commercial Bank and Central Bank.** Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement. **Macro Unit – 3** **Ch. Aggregate Demand and Its Components.** Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). **Ch. Short Run Equillibrium Output.** Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment.		PT -2 08-07-25 Ch. Indian economy on the eve of Independence. Ch- Indian economy 195O- 1990 Ch. Money and supply of money		
August	**21**	**Ch. Problem of Deficient Demand & Excess Demand** Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply.		PT 3 11-08-25 Ch - Banking, commercial bank and Central Bank.		

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

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

CLASS:- XII **SUBJECT :- HISTORY**

PRESCRIBED BOOKS

Themes in Indian History Part-I(Units 1 – 4) NCERT
Themes in Indian History Part-II(Units 5 – 8) NCERT
Themes in Indian History Part-III(Units 9 – 12) NCERT

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

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

			*Awadh in Revolt *What the Rebels wanted? *Repression *Images of the Revolt	India – *Mark the extent of British Empire in 1856-57 *The centres of Revolt of 1857.
Sep	08	**Revision & Half Yearly Examination**		
Oct	13	**Ch.11 Mahatma Gandhi and the Nationalist Movement** **Ch.12 Framing the Constitution**	*A leader announces himself *The making and unmaking of Non-cooperation *The Salt Satyagraha-A Case Study *Quit India *The last Heroic days *Knowing Gandhi *A tumultuous time *The making of the Constituent Assembly. *The vision of the Constitution *Defining Rights *The powers of the State. *The language of the Nation *A plea for Hindi *The fear of domination	On an outline political map of India- *Mark and label the sessions of the Indian National Congress *Important centres of the National Movement(1885-1947). * Compare the Constitutions of America, France or South Africa with the Indian Constitution, focusing on any two of themes: Secularism, Minority Rights, Relation with the Centre and the States.
Nov **Portion for Periodic Test 4** Ch. 10 Rebels and the Raj Ch.11 Mahatma Gandhi and the Nationalist Movement	17	**Revision& Pre – Board Examination**		
Dec	19			

CLASS:- XII **SUBJECT :- POLITICAL SCIENCE**

SESSION -2025-26

PRESCRIBED BOOKS:

PART-A : CONTEMPORARY WORLD POLITICS(NCERT)

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

Month	No. of Working Days	Chapters to be covered	Contents	Activity/Project /Periodic test
April	17	***Part –A CONTEMPORARY WORLD POLITICS*** **Ch1. The end of Bipolarity** **Ch 2. Contemporary Centres of Power**	*The Soviet System *Gorbachev and Disintegration *Consequences of the Disintegration *Shock Therapy in Post-Communist Regimes *Consequences of Shock Therapy *Tensions and Conflicts *India and Post-Communist Countries *European Union(EU) *Association of South East Asian Nation (ASEAN) *The Rise of Chinese Economy *India China Relation	*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" *Assess the role of ASEAN as an Economic Association PERIODIC TEST -I 28.04.2025 1.The end of Bipolarity 2.Contemporary Centres of power
May	7	**Ch 3. Contemporary South Asia**	Bangladesh *Monarchy & Democracy in Nepal *India-Pakistan Conflicts *India and its other neighbours *Peace and cooperation	*Prepare a timeline on Pakistan – 20 years of Turmoil
June	12	**Ch 4. International Organisations**	*Why International Organisation? *Evolution of the UN *Reform of the UN after the Cold War *Reform of Structures and	*Prepare a list of UN's significant Agencies. *Prepare a Time-Line on UN Secretaries General

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

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

		Ch.8 Recent Developments in Indian Politics	*Context of the 1990s *Era of Coalitions *Political Rise of Other Backward Classes(OBCs) *Communalism, Secularism, Democracy *Emergence of a New Consensus *Coalition Government	*On an outline map of India mark the States where NDA is in rule and the States where UPA is in rule. PERIODIC TEST –IV 13.10.2025 1.Era of one party dominance 2.Politics of Planned development 3.India's external relations
Nov	17	**Revision& Pre – Board Examination**		
Dec	19	**Revision**		

SUBJECT: GEOGRAPHY (029)

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

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

Subject : Computer Science (Code : 083)

Class : XII Session : (2025-26)

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

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

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

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

Subject: Informatics Practices (Code: 065)

SESSION :2025-26

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

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

Oct	13	**Introduction to Computer Networks**	Introduction to networks, **Types of network:** LAN, MAN, WAN Network Devices: modem, hub, switch, repeater, router, gateway, Network **Topologies:** Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP. **Website:** Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. **Web Browsers:** Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Project work:	**PT 4: SQL , Networking and Societal Impacts**
Nov	17	**Societal Impacts**	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. **E-waste:** hazards and management. Awareness about health concerns related to the usage of technology. **Revision & Project**		
Dec	19				
Jan					
Feb					

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GURU GOBIND SINGH PUBLIC SCHOOL
GGPS
Sector-V/B, B.S.City

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

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

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

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

PRACTICAL(Max. Marks - 30)

Physical Fitness Test : SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)*
Proficiency in Games and Sports (Skill of any one IOA recognized Sport/Game of Choice)**
Yogic Practices
Record File ***
Viva Voce (Health/ Games & Sports/ Yoga)

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

***Record File shall include:**

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

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

Practical – 3: 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

CLASS – XII **SUBJECT : PAINTING**

MONTHLY SYLLABUS BREAK-UP FOR 2025-26

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

CLASS – XII **SUBJECT- KATHAK DANCE**

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

SUBJECT- BHARATNATYAM DANCE

Class:12

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