

ST. JOHN'S SCHOOL, RANCHI (ENGLISH MEDIUM)
 SYLLABUS FOR 2026-2027
 CLASS XII (PCM)

SUBJECT - ENGLISH LANGUAGE AND LITERATURE

SUBJECT CODE: 301

BOOK -1. FLAMINGO (LITERATURE TEXTBOOK)

2. VISTAS (SUPPLEMENTARY READING TEXT)

TERMS	MONTHS	CHAPTERS/TOPICS	UNIT TESTS / TERMINAL EXAMINATIONS
1st Term + Mock Test + Pre-board	APRIL	<ul style="list-style-type: none"> ● The Last Lesson (Flamingo) ● My Mother at Sixty-Six (poetry) ● The Third Level Creative Writing Skills 1. FORMAL LETTER a. Job Application with Bio-data b. Letter to the Editor 2. Notice Writing	1st UNIT TEST 1. The Last Lesson 2. My Mother at Sixty-Six 3. The Third Level 4. Formal Letter, 5. Notice Writing
	MAY	<ul style="list-style-type: none"> ● Lost Spring (Flamingo) ● The Third Level (Vistas) 	
	JUNE	<ul style="list-style-type: none"> ● Deep Water (Flamingo) ● Keeping Quiet (poetry) ● A Thing of Beauty (poetry) ● The Tiger King (Vistas) ● Creative Writing Skills Formal / Informal Invitation & Reply	
	JULY	<ul style="list-style-type: none"> ● The Rattrap (Flamingo) ● Indigo (Flamingo) ● Journey to the end of the Earth (Vistas) ● Creative Writing Skills Article / Report Writing	2nd UNIT TEST 1. Lost Spring 2. Keeping Quiet 3. Deep Water 4. A Thing of Beauty 5. The Tiger King 6. Formal/Informal Invitation & Reply
	AUGUST	<ul style="list-style-type: none"> ● Poets and Pancakes (Flamingo) ● The Enemy (Vistas) ● Creative Writing Skills Article / Report Writing 	
Mock Test + Pre-board	SEPTEMBER	<ul style="list-style-type: none"> ● The Interview (Flamingo) ● On the Face of It (Vistas) ● A Roadside Stand (poetry) ● Aunt Jennifer's Tiger (poetry) 	
	OCTOBER	<ul style="list-style-type: none"> ● Going Places (Flamingo) ● Memories of Childhood (Vistas) 	3rd UNIT TEST 1. The Interview 2. On the Face of It 3. A Roadside Stand 4. Aunt Jennifer's Tiger 5. Article/ Report Writing
	NOVEMBER	COMPLETION OF SYLLABUS & REVISION	

STD-XII (Science)

SUBJECT – MATHEMATICS

SUBJECT CODE: 041

BOOK – NCERT AND R.S. AGGARWAL

TERMS	MONTHS	CHAPTERS/ TOPICS	UNIT TEST + TERMINAL EXAM
FIRST TERM	April	Chapter – 3 Matrices Chapter – 4 Determinants Chapter – 2 Inverse Trigonometric function	1 st Unit Test, First Term, Pre Boards & Mock Examination
	May	Chapter – 5 Continuity and Differentiability Chapter – 6 Application of Derivatives	1. Matrices 2. Determinants First Term & Pre Boards & Mock Examination : - Inverse Trigonometric function Application of Derivatives
	June	Chapter – 6 Application of Derivatives Chapter – 7 Integrals	2 nd Unit Test, First Term, Pre Boards & Mock Examination
	July	Chapter – 7 Integrals Chapter – 8 Application of Integrals	1. Continuity and Differentiability 2. Application of Derivatives 3. Integrals
	August	Chapter – 9 Differential Equation Chapter – 10 Vectors	First Term Examination, Pre Boards & Mock Examination
	September	Chapter – 11 Three- dimensional Geometry	
Pre Boards & Mock Examination	October	Chapter – 12 Linear Programming Chapter – 13 Probability	3 rd Unit Test, Pre Boards & Mock Examination 1. Three-Dimensional Geometry 2. Linear Programming 3. Probability
	November	Chapter – 1 Relation and Function	Pre Boards & Mock Examination
	December	Pre Board / Revision	

Subject: ECONOMICS
 SUBJECT CODE:030

Book I: Introductory Macroeconomics- Class XII (V.K Publication)			
TERMS	MONTHS	CHAPTERS/ TOPIC	UNIT TESTS + TERMINAL EXAMINATION
1st Terminal Examination + Mock & Pre Boards	JUNE	1. Introduction	2 nd Unit Test, 1st Terminal Examination + Mock & Pre Boards
		2. Some Basic Concepts of Macroeconomics	
	JULY	3. National Income & Related Aggregates	
		4. Method of Calculating National Income	
JULY- AUGUST	5. Money	1st Terminal Examination + Mock & Pre Boards	
Mock & Pre Boards	AUGUST- SEPTEMBER	6. Banking	3rd Unit Test, Mock & Pre Boards
	SEPTEMBER	7. Aggregate Demand. Aggregate Supply & Related Concepts	
	SEPTEMBER	8. Short Run Equilibrium Output	
	OCTOBER	9. Problem of Deficit Demand & Excess Demand	Mock & Pre Boards
	OCTOBER	10. Government Budget & the Economy	
	NOVEMBER	11. Foreign Exchange Rate	
	NOVEMBER	12. Balance of Payment	
Book II: Indian Economic Development- Class XII (V.K Publication)			
1st Terminal Examination + Mock & Pre Boards	APRIL	1. Indian Economy on the Eve of Independence	1 st Unit Test, 1 st Terminal Examination + Mock & Pre Boards
	APRIL	2. Economic System & Common Goals of Five Year Plans	
	APRIL	3. Indian Economy (1950-1990)	
	MAY	4. Economic Reforms Since 1991- New Economic Policy	
	MAY	5. Human Capital Formation in India	
	MAY	6. Rural Development	
Mock & Pre Boards	SEPTEMBER	7. Employment	3rd Unit Test, Mock & Pre Board
	OCTOBER	8. Environment & Sustainable Development	Mock & Pre Board

	NOVEMBER	9. Comparative Development Experiences of India & its Neighbours	Mock & Pre Board
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Subject: PHYSICAL EDUCATION

SUBJECT CODE: 048

Prescribed book – Health and Physical Education class- XII by Dr. V. K. Sharma

TERMS	MONTHS	CHAPTERS/ TOPIC	UNIT TESTS + TERMINAL EXAMINATION
1st Terminal Examination + Mock & Pre Boards	March	1. Management of sporting event	1 ST Unit Test
	April	2. Children and Women in Sports	
	May	3. Yoga as preventive measure for Lifestyle disease	2nd Unit Test
	June	4. Physical Education and Sports for CWSN (Children with special need – Divyang)	
	July	5. Sports and Nutrition	
	August	Revision	
Mock & Pre Boards	August	6. Test and Measurement in Sports	3 RD Unit Test
	September	7. Physiology and Injuries in Sports	
	September + October	8. Biomechanics and Sports	
	October + November	9. Psychology And Sport	
	November	10. Training in Sports	
	December	Revision	

STD-XII (SCIENCE)

SUBJECT -INFORMATICS PRACTICES

SUBJECT CODE: 065

BOOK- Informatics Practices XII by Sumita Arora

TERMS	MONTHS	CHAPTER/TOPICS	UNIT TESTS+ TERMINAL EXAMINATIONS
TERM-1	April	Ch 9. Introduction to Computer Network Ch 10. Introduction to Internet and Web	
	May	Ch 1. Python Pandas-1	FIRST UNIT TEST Ch 9. Introduction to Computer Network Ch 10. Introduction to Internet and Web
	June	Ch 2. Python Pandas-2	
	June	Ch 11. Societal Impact	
	June	Ch 12. Data Protection	
	July	Ch 5. MySQL SQL Revision Tour Ch 6. MySQL Function Ch 7. Querying Using SQL Ch 8. Joins and Set Operations	SECOND UNIT TEST Ch 1. Python Pandas-1 Ch 2. Python Pandas-2
	August	Ch 3. Plotting with PyPlot	TERM-1 Ch 1. Python Pandas-1 Ch 2. Python Pandas-2 Ch 5. MySQL SQL Revision Tour Ch 6. MySQL Function Ch 7. Querying Using SQL Ch 8. Joins and Set Operations Ch 9. Introduction to Computer Network Ch 10. Introduction to Internet and Web Ch 11. Societal Impact Ch 12. Data Protection

FINAL TERM	September	Ch 4. Importing/Exporting Data between CSV Files/MySQL and Pandas	
	October	Revision	THIRD UNIT TEST Ch 3. Plotting with PyPlot
	November	Revision	MOCK TEST All Chapters
	December	Revision	
	January		PRE BOARD All Chapters

SUBJECT- CHEMISTRY

SUBJECT CODE: 043

BOOK- NCERT SCIENCE TEXTBOOK VOL -1 & 2

Chemistry Practical Book: COMPREHENSIVE (Laxmi Publication)

TERMS	MONTHS	CHAPTERS	UNIT TESTS + TERMINAL EXAMINATIONS
1 st TERM	APRIL	Chapter-1 Solutions <ul style="list-style-type: none"> Types of Solutions Expressing Concentration of Solutions Solubility Vapour Pressure of Liquid Solutions Ideal and Non-Ideal Solutions Colligative Properties and Determination of Molar Mass Abnormal Molar Masses 	First Unit Test, First Term Exam, Mock+ Pre-boards Chapter-1 Solutions
	MAY	Chapter-6 Haloalkanes and Haloarenes <ul style="list-style-type: none"> Classification & Nomenclature Nature of C-X Bond Methods of Preparation of Haloalkanes Preparation of Haloarenes Physical and Chemical Properties Polyhalogen Compounds 	
	JUNE	Chapter-7 Alcohols, Phenols and Ethers <ul style="list-style-type: none"> Classification & Nomenclature Structure of Functional Groups Alcohols and Phenols Some Commercially Important Alcohols, Phenols & Ethers 	

JUNE+JULY	<p>Chapter-2 Electrochemistry</p> <ul style="list-style-type: none"> • Electrochemical Cells • Galvanic Cells • Nernst Equation • Conductance of Electrolytic Solutions • Electrolytic Cells and Electrolysis • Batteries • Fuel Cells • Corrosion 	
JULY	<p>Chapter-3 Chemical Kinetics</p> <ul style="list-style-type: none"> • Rate of Chemical Reaction • Factors Influencing Rate of a Reaction • Integrated Rate Equations • Temperature Dependence of the Rate of a Reaction • Collision Theory of Chemical Reactions 	<p>Chapter-6 Haloalkanes and Haloarenes</p> <p>Chapter-7 Alcohols, Phenols and Ethers</p>
AUGUST+SEPTEMBER	<p>Chapter-5 Coordination Compounds</p> <ul style="list-style-type: none"> • Werner's Theory of Coordination Compounds • Definitions of Some Important Terms Pertaining to Coordination Compounds • Nomenclature of Coordination Compounds • Isomerism & Bonding in Coordination Compounds • Bonding in Metal Carbonyls • Importance and Applications of Coordination Compounds 	
AUGUST	REVISION	FIRST TERM EXAM All the topics taught in the First Term.

SEPTEMBER+OCTOBER	<p>Chapter-4 The d- and f-Block Elements</p> <ul style="list-style-type: none"> • Position in the Periodic Table • Electronic Configurations of the d-Block Elements • General Properties of the Transition Elements (d block) • Some Important Compounds of Transition Elements • The Lanthanoids and The Actinoids • Some Applications of d-and f-block Elements <p>Chapter-8 Aldehydes, Ketones & Carboxylic Acids</p> <ul style="list-style-type: none"> • Nomenclature & Structure of Carbonyl Group • Preparation of Aldehydes, Ketones & Carboxylic acid • Physical & Chemical Properties of Aldehydes, Ketones & Carboxylic acids • Uses of Aldehydes, Ketones & Carboxylic acids 	
OCTOBER	<p>Chapter-9 Amines</p> <ul style="list-style-type: none"> • Structure, Classification & Nomenclature of Amines • Preparation of Amines • Physical & Chemical Properties • Method of Preparation of Diazonium Salts • Physical & Chemical Properties • Importance of Diazonium Salts in Synthesis of Aromatic Compounds 	<p>Third Unit Test, Mock+ Pre-boards</p> <p>Chapter-2 Electrochemistry</p> <p>Chapter-3 Chemical Kinetics</p>

NOVEMBER	Chapter-10 Biomolecules <ul style="list-style-type: none"> • Carbohydrates & Proteins • Enzymes & Hormones • Vitamins • Nucleic Acids REVISION	MOCK + PRE-BOARDS All the topics taught.
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SUBJECT- PHYSICS
 SUBJECT CODE: 042
 BOOK-

- NCERT Textbook (Part 1 & Part 2)
- New Simplified PHYSICS - S.L. ARORA (Ref Book)
- NCERT Exemplar
- Physics Practical Book – Laxmi Publication

TERM	MONTHS	CHAPTERS	UNIT TESTS + TERMINAL EXAMINATIONS
1 st Terminal Examination + Mock & Pre Boards	April	Unit -1 Chapter 1: Electric Charges and Fields Chapter 2: Electrostatic Potential and Capacitance	1 st Unit Test, 1 st Terminal Examination + Mock & Pre Boards
	May	Unit -2 Chapter 3: Current Electricity Unit - 3 Chapter 4: Moving Charges and Magnetism	2 nd Unit Test, 1 st Terminal Examination + Mock & Pre Boards
	June	Unit – 3 Chapter 4: Moving Charges and Magnetism (Contd.) Chapter 5: Magnetism And Matter Unit - 5 Chapter 6: Electromagnetic Induction	
	July	Unit - 4 Chapter 7: Alternating Current Chapter 8: Electromagnetic Waves Unit - 6 Chapter 9: Ray Optics and Optical Instruments	

	August	Unit - 6 Chapter 9: Ray Optics and Optical Instruments (Contd.)	1 st Terminal Examination + Mock & Pre Boards
Mock & Pre Boards Mock & Pre Boards		Chapter 10: Wave Optics	3rd Unit Test, 1 st Terminal Examination + Mock & Pre Boards
	September	Wave Optics (Contd.)	
	October	Unit - 6 Chapter 10: Wave Optics (Contd.) Unit - 7 Chapter 11: Dual Nature Of Radiation and Matter Unit- 8 Chapter12: Atoms Chapter13 Nuclei	
	November	Unit – 9 Chapter 14: Semiconductor, Electronics: Materials, Devices and simple circuits Revision+ mock test	Mock & Pre Boards