Syllabus for Unit-I
Academic Session: (2025-2026)

Class: XI (Sci)

SUBJECT : ENGLISH LANGUAGE			
Textbook Name : Total English **Publisher : Morning Star**			
MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
May 25	1. Proposal writing 2. Phrasal verbs, Transformation of Sentences, Verbs/Tenses	3	Class Test
June 25	1. Newspaper Report 2. Phrasal verbs, Transformation of Sentences, Verbs/Tenses 3. Comprehension	2	
July 25	1. Statement of Purpose 2. Phrasal verbs, Transformation of Sentences, Verbs/Tense 3. Essay (Types) 4. Article Writing	7	Class Test
August 25	1. Phrasal verbs, Transformation of Sentences, Verbs/Tense 2. Book Review	4	
Project	Aural and Oral		4th 5th 6th August 2025
The above mentioned no. of periods may vary.			

SUBJECT : ENGLISH LANGUAGE

Textbook Name   :Total English for class 11

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'24	1.Proposal writing	2	
	Class Test	1	
	2. Film Review	1	Worksheet will be provided
	Class Test	1	
	3. Test papers 2 and	3	
May'24	1.Report writing	2	
	Class Test	1	
	2. Test papers 4 and 5	3	Worksheet will be provided
	Class Test	1	
June'24	1.Book Review	2	
	Class Test	1	
	2. Test papers 6 and 7	3	Worksheet will be provided
	Class Test	1	
		3	
July'24	1. Speech writing 2. Test papers 8 and 9 Class test	2 2	Worksheet
August24	1. Article writing 2. Test on Oral and Aural	2 4	Worksheet

SUBJECT : ENGLISH LITERATURE

Textbook Name : Prism, Rhapsody and Macbeth
Publisher   : Evergreen Publication and Oxford

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'24			
	1. Macbeth Act 1 Scenes 1 and 2	6	Worksheet will be provided
	2. Abhisara	4	
May'24	**1.** Mcbeth Act 1 scene 3	4	
	2. A Living God	5	
		3	Worksheet will be provided
June'24	1. Macbeth Act 1 Scenes 4 and 5	6	
	2. Why I Like the Hospital	4	Worksheet will be provided
July'24		5	
	1. Act 1 Scene 6	4	Worksheet will be provided
	2. Advice to Youth	4	
August24	1. Macbeth Act 1 scene 7	4	
	2. Sonnet 116	4	Worksheet will be provided
			Submission date: 2nd July 2024

Note: No of periods mentioned above may vary

SUBJECT : Hindi 2nd language			
Textbook Name : 1. गद्य संकलन 2. काव्य मंजरी 3. सारा आकाश (उपन्यास) 4. व्याकरण मंजूषा **Author** : ISC **Publisher** : evergreen publications 4. Inter university press			
MONTH	**TOPIC**	**NO. OF PERIODS**	**WORKSHEETS/ACTIVITY**
April'25	1. पुत्र प्रेम	5	LPQ will be Provided
	Class Test	1	
	4. मुहावरे Class Test	1 1	Worksheet will be provided
May'25	1. साखी (दोहे)	5	
	Class Test	1	
June'25	1. सारा आकाश 1 to 4 भाग	5	LPQ will be Provided
	Class Test	1	
	2. वाक्य शुद्धीकरण Class Test	2 1	Worksheet will be provided
	3. अपठित गद्यांश Class Test	1 1	LPQ will be Provided
July'25	1. गौरी Class Test	5 1	LPQ will be Provided
	2. बाल लीला Class Test	5 1	LPQ will be Provided
	3. सारा आकाश 5 to 8 Class Test	5 1	LPQ will be Provided
	4. निबंध Class Test	2 1	
August'25	1. शरणागत Class Test	5 1	LPQ will be Provided
	2. एक फूल की चाह Class Test	5 1	LPQ will be Provided
	3. सारा आकाश भाग - 9 to 10 Class Test	4 1	LPQ will be Provided
	4. अपठित गद्यांश	1	
	5. अशुद्ध शब्दों को शुद्ध करें Class Test	2 1	Worksheet will be provided
	6. मुहावरे Class Test Revision	2 1	Worksheet will be provided

SUBJECT : BENGALI

Textbook Name : i) I.S.C প্রবন্ধ ও গল্প সংকলন, ii) I.S.C কবিতা সংকলন
Author :
Publisher : i) Power Publishers i) Cambridge India

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'25	1. জোড়াসাঁকোর ধারে	5	LPQ, Explanation
	2. Class Test	1	copy
	3. শুদ্ধ বানান	1	Board,copy
	4. বোধপরীক্ষণ	2	worksheet
May'25	1. বনলতা সেন	4	Explanation, copy
	2. class test	1	copy
	3. Project explanation	1	—
	4. বাক্য পরিবর্তন	2	worksheet
	5. শুদ্ধ বানান	1	Board,copy
	6. শ্রেণি	2	explanation
June'25	1. তাসের ঘর	7	LPQ, copy, explanation
	2.class test	1	copy
July'25	1. বাগধারা	2	Board, copy
	2. এরা কাজ করে	5	Explanation, copy
	3. Class Test	1	copy
	4. রচনা	2	group discussion, copy
	5. শ্রেণি	2	explanation
August,25	1. ঠাকুরদা	6	Explanation, copy
	2. class test	1	copy
	3. বাচ্য পরিবর্তন	2	Board work, worksheet
	4. পুব - পশ্চিম	4	Explanation, copy
	5. শ্রেণি	2	explanation

SUBJECT :BIOLOGY

Text Book : ISC Nootan Biology XI
Publisher Nageen Prakashan
Author : V. Singh, D.K Jain, Ajay Kumar Bhattacharya.

MONTH	TOPIC	NO.OF PERIODS	WORKSHEETS/ACTIVITY
April'24	UNIT 1: Diversity in Living Organisms Chapter 1: The Living World Chapter 2: Biological Classification Chapter 3: Plant Kingdom	2 3 3	Worksheets will be provided

	Class Test	1	
May'24	UNIT 3: Cell Structure And Function Chapter 8: Cell:The Unit of Life Chapter 10: Cell cycle and cell division.	4 3	Worksheets will be provided
	Class Test	1	
Project	Topics will be given from ISC class XI syllabus and will be discussed in class.	1	
June'24	UNIT 3: Plant Physiology Chapter 14: Respiration in plants UNIT 4: Human Physiology Chapter 17: Breathing and exchange of gases	5 3	Worksheets will be provided
	Class Test	1	
	UNIT 4: Human Physiology Chapter 19: Excretory products and elimination	3	Worksheets will be provided.
	Class Test	1	
July'24	UNIT 4: Human Physiology Chapter 18: Body fluids and Circulation. Chapter 20: Locomotion and movement	6 6	Worksheets will be provided
	Class Test	1	
	UNIT 2: Structural Organisation of Animals and Plants. Chapter 6: Anatomy of flowering plants.	4	Worksheets will be provided
	Class test	1	
August'24	Revision	15	Worksheets will be provided
Practical	Will be conducted as per ISC guidelines		

Please note that the no. of periods mentioned here are approximate.

SUBJECT : PHYSICS

Text Book : Nootan ISC Physics for Class-XI
Publisher : Nageen Prakashan
Text Book for Physics Practical: ISC Practical Physics (Vol-I) for Class XI

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'25	✞ BASICS 1.Introductory session for Integration and Differentiation	2	Worksheet will be provided
	Class Test	1	
May'25	✞ PHYSICAL WORLD AND MEASUREMENT 2. Units and Measurements: Error analysis and Significant Figures 3.Dimensional Analysis ✞ KINEMATICS 4.Motion in a straight line	2 2 5	Worksheet will be provided
	Class Test	1	
June'25	5.Motion in a plane ✞ LAWS OF MOTION 6. Newton's Laws of Motion 7. Friction 8. Uniform Circular Motion 9.Work, Energy and Power	5 4 2 2 4	Worksheet will be provided
	Class Test	1	
July'25	✞ MOTION OF SYSTEM OF PARTICLES AND RIGID BODY 10.Centre Of Mass. 11.Rotational Motion of a rigid body: Moment of Inertia. 12.Gravitation: Planets and Satellites	 3 8 8	Worksheet will be provided
	Class Test	1	
August'25	✞ PROPERTIES OF MATTER 13.Elasticity 14.Fluid Pressure 15.Flow of Liquid 16.Surface Tension Revision	 3 2 3 3 8	Worksheet will be provided
	Class Test	1	
✞ Practicals	As per ISC guidelines (Will be discussed in class)		
Project	Friction/ Gravitation (Will be discussed in class)		
(The above mentioned periods are approximate)			

SUBJECT : CHEMISTRY			
Textbook Name : K.L.CHUGH *Publisher* : KALYANI PUBLICATION			
MONTH	*TOPIC*	*NO. OF PERIODS*	*WORKSHEETS/ACTIVITY*
April'25	ATOMIC STRUCTURE		

	1) DISCOVERY OF SUBATOMIC PARTICLES	2	
			WORKSHEET WILL BE PROVIDED
May'25	ATOMIC STRUCTURE		
	2) RUTHERFORD AND BOHR'S ATOMIC MODEL	2	WORK SHEET WILL BE PROVIDED
	3) HYDROGEN SPECTRUM	1	
	4) PLANKS QUANTUM THEORY AND HEISENBERGS UNCERTAINITY PRINCIPLE	1	
	5)DUAL BEHAVIOUR OF MOVING OBJECT	1	
	THERODYNAMICS		
	1)DIFFERENT TERMINOLOGIES	1	WORKSHEET WILL BE PROVIDED
	2)TYPES OF SYSTEM , PROCESS AND PROPERTIES	2	
	HEAT AND WORK	1	
JUNE'25	ATOMIC STRUCTURE		
	1) SOMMERFIELD ATOMIC MODEL AND SUBSHELLS	1	
	2)SCHRODINGER WAVE EQUATION AND QUANTUM NUMBER	2	WORKSHEET WILL BE PROVIDED
	3)PAULI'S EXCLUSION PRINCIPLE , HUNDS RULE AND AUFBAU PRINCIPLE	2	
	3)PHOTOELECTRIC EFFECT	1	
	THERMODYNAMIC		
	1)CONCEPT OF INTERNAL ENERGY AND FIRST LAW OF THERMODYNAMICS	1	WORKSHEET WILL BE PROVIDED
	2)CONCEPT OF ENTHALPY AND ENTROPY, CONCEPT OF SPONTANEITY	2	
	2) GIBBS FREE ENERGY , 2ND , 3RD AND 0TH LAW OF THERMODYNAMIC	2	
	3) CONCEPT OF HEAT AND MOLAR HEAT CAPACITY	2	
	4) HESS'S LAW AND LAPLACE LAW	2	
JULY,25	SOME BASIC CONCEPTS OF CHEMISTRY		
	1)SIGNIFICANT FIGURES	1	
	2) LAWS OF COMBINATION	2	WOKSHEET WILL BE PROVIDED
	3)ATOMIC MASS, MOLAR MASS , VAPOUR DENSITY	1	
	5) CALCULATION OF PERCENTAGE COMPOSITION	1	

	6)DIFFERENT CONCENTRAION TERMS	1	
	7)MOLE CONCEPT AND STOICHIOMETRIC CALCULATIONS	1	
	PERIODIC TABLE AND PERIODIC PROPERTIES		
	1)HISTORY OF PERIODIC TABLE	1	
	2)MENDELEEV'S AND MODERN PERIODIC TABLE	2	WORKSHEET WILL BE PROVIDED
	3)PERIODIC PROPERTIES (DETAIL)	6	
	5) IUPAC NOMENCLATURE OF ELEMENTS, PREDICTION OF POSITIONSIN POSITION	2	
AUG'25	CHEMICAL EQUILIBRIUM		
	1)INTRODUCTION	1	
	2) law of mass action	1	
	3) K_P , K_C, K_X And THEIR INTERRELATION	2	
	4)CHARACTERISTICS OF CHEMICAL EQUILIBRIUM AND EQUILIBRIUM CONSTANT	2	
	6) Le- CHATELIER'S PRINCIPLE AND APPLICATION	2	
	CHEMICAL BONDING		
	1) INTRODUCTION	1	
	2) TYPES OF CHEMICAL BONDING LEWIS DOT STRUCTURE AND NATURE OF COVALENT AND IONIC COMPOUNDS, BORN HABER CYCLE	2	WORKSHEET WILL BE PROVIDED
	3) COVALENT NATURE IN IONIC COMPOUND AND IONIC NATURE IN COVALENT COMPOUND	2	
	4) VBT	1	
	5) VSEPR THEORY	3	
	6) HYBRIDISATION THEORY	1	
	7) HYDROGEN BONDING	2	
	8) MOT	3	

SUBJECT: ENVIRONMENTAL SCIENCE

Textbook Name :ISC ENVIRONMENTAL SCIENCE Author : AMITA GANGULY
Publisher   :MARINA

MONTH	TOPIC	NO.OF PERIODS	WORKSHEETS/ACTIVITY
April	1.Modes of Existence	7	Worksheet will be provided
	Class Test	1	
May	2. Ecology	6	Worksheet will be provided
	Class Test	1	
	Project discussion in Class		
June	3. Pollution	8	Worksheet will be provided
	Class Test	1	
	Activity		
July	4. Legal Regimes for Sustainable Development	8	Worksheet will be provided
	Class test	1	
August	Revision		

Note: All mentioned periods are approximate.

SUBJECT :COMPUTER SCIENCE

Textbook Name   : Understanding ISC Computer Science (Java with BlueJ) Class XI
Publisher   : Arya Publishing Company
Author Name   : Vijay Kumar Pandey and   Dilip Kumar Dey

MONTH	TOPIC	NO.OF PERIODS	WORKSHEETS/ACTIVITY
April'25	**Chapter 4:** Introduction to Java Language	2	
	Chapter 5: Concept of Data types	4	**Lab Activity**
May'25	**Chapter 5:** Concept of Data types(Cont.)	2	
	Class Test(Based on Java Concepts)	1	
	Chapter 6 : Operators and Expressions	5	**Lab Activity**
	Class Test(Practical)	1	
June'25	**Chapter 7:**	8	**Lab Activity**

	Conditional and Looping Statements		
	Class Test(Practical)	1	
July'25	**Chapter 1:** Numbers (Numbers in different bases and their arithmetical operations)	12	**Worksheet**
	Chapter 2: Encoding	10	**Lab Activity**
	Class Test (Theory)	1	
Aug'25	**Chapter 3:** Propositional Logic, Hardware Implementation, Arithmetical Operations	15	**Worksheet**
	Revision (Java)	7	**Lab Activity**
Sept'25	Revision (Propositional Logic)	5	
Project			**10 Programs on Conditional Statemens, Switch Case, Loops and Nested Loops** **List of programs will be provided later.**
* Note: No. of Periods mentioned may vary			

SUBJECT: PHYSICAL TRAINING (P.T.) & GAMES.

MONTH	TOPIC	NO. OF PERIODS	ACTIVITY
April'24	1. FITNESSGRAM	3	• FREE HAND EXERCISES
	Class Test	1	
	2. CRICKET	3	• RULES RAGULATIONS
	Class Test	1	• TECHNIQUES AND SKILLS
May'24	1. FITNESSGRAM	3	• FREE HAND EXERCISES
	Class Test	1	
	2. BADNINTON	3	• RULES RAGULATIONS
	Class Test	1	• TECHNIQUES AND SKILLS
June'24	1. MASS DRILL & FITNESSGRAM	3	• CALLISTHENICS, AEROBICS & YOGA.
	Class Test	1	
	2. BASKET BALL	3	• RULES RAGULATIONS
	Class Test	1	• TECHNIQUES AND SKILLS
July'24	1. MASS DRILL & FITNESSGRAM	3	• CALLISTHENICS, AEROBICS & YOGA.

	Class Test	1	
	2. FOOTBALL	3	• RULES RAGULATIONS
	Class Test	1	• TECHNIQUES AND SKILLS
August'24	1. MASS DRILL & FITNESSGRAM	3	• CALLISTHENICS, AEROBICS & YOGA.
	Class Test	1	
	2. TABLE TENNIS, CHESS & CARROM	3	• RULES RAGULATIONS
	Class Test	1	• TECHNIQUES AND SKILLS

	SUBJECT : MATHEMATICS		

Textbook Name : *ISC Mathematics (XI) (Volume I & II)*
Author : *M L AGGARWAL*
Publisher : *Avichal Publishing Company*

MONTH	TOPIC	NO.OF PERIODS	WORKSHEETS /ACTIVITY
April'25	SECTION - A 1. Sets ➤ Sets and their representations. ➤ Empty set. Finite and Infinite sets. ➤ Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. ➤ Venn diagrams. Union and Intersection of sets. Practical problems on union and intersection of two and three sets. ➤ Difference of sets. Complement of a set. ➤ Properties of Complement of Sets.	5	Worksheet will be provided
	Class Test	1	
	2. Relations & Functions • *Basic concepts of Relations and Functions* ➤ *Ordered pairs, sets of ordered pairs.* ➤ *Cartesian Product (Cross) of two sets, cardinal number of a cross product.* *Relations as:* ➤ *an association between two sets.* ➤ *a subset of a Cross Product.* ➤ *Domain, Range and Co-domain of a Relation.* ➤ *Functions:* ➤ *As special relations, concept of writing "y is a function of x" as y = f(x).*	5	Worksheet will be provided

	$\triangleright$ *Introduction of Types: one to one, many to one, into, onto.* $\triangleright$ *Domain and range of a function.* $\triangleright$ *Sketches of graphs of exponential function, logarithmic function, modulus function, step function and rational function.*		
	Class Test	1	
May'25	3. Trigonometry • *Angles and Arc lengths* $\triangleright$ *Angles: Convention of sign of angles.* $\triangleright$ *Magnitude of an angle: Measures of Angles; Circular measure.* $\triangleright$ *The relation $S = r\theta$ where θ is in radians. Relation between radians and degree.* $\triangleright$ *Definition of trigonometric functions with the help of unit circle.* $\triangleright$ *Truth of the identity $sin^2x+cos^2x=1$* *NOTE: Questions on the area of a sector of a circle are required to be covered.* • *Trigonometric Functions* $\triangleright$ *Relationship between trigonometric functions.* $\triangleright$ *Proving simple identities.* $\triangleright$ *Signs of trigonometric functions.* $\triangleright$ *Domain and range of the trigonometric functions.* $\triangleright$ *Trigonometric functions of all angles.* $\triangleright$ *Periods of trigonometric functions.* $\triangleright$ *Graphs of simple trigonometric functions (only sketches).* *NOTE: Graphs of sin x, cos x, tan x, sec x, cosec x and cot x are to be included.* • *Compound and multiple angles* $\triangleright$ *Addition and subtraction formula: sin(A ± B); cos(A± B); tan(A± B); tan(A + B + C) etc., Double angle, triple angle, half*	17	Worksheet will be provided

	angle and one third angle formula as special cases. ➢ *Sum and differences as products .*		
	Class Test	1	
June'25			
	Class Test	1	
	Complex Numbers	10	Worksheet will be provided
	Class Test	1	
July'25	Quadratic Equations	4	Worksheet will be provided
	Class Test	1	
	Inequalities		Worksheet will be provided
	Class Test	1	
	Straight Lines • *Basic concepts of Points and their coordinates.* • *The straight line - Slope or gradient of a line.* ➢ *Angle between two lines.* ➢ *Condition of perpendicularity and parallelism.* ➢ *Various forms of equation of lines.* ➢ *Slope intercept form.* ➢ *Two-point slope form.* ➢ *Intercept form.* ➢ *Perpendicular /normal form.* ➢ *General equation of a line.* ➢ *Distance of a point from a line.* ➢ *Distance between parallel lines.* ➢ *Equation of lines bisecting the angle between two lines. - Equation of family of lines - Definition of a locus.* ➢ *Equation of a locus.*	10	Worksheet will be provided

		Class Test	1	
August'25		Statistics • *Mean deviation about mean and median.* • *Standard deviation - by direct method, short cut method and step deviation method.* *NOTE: Mean, Median and Mode of grouped and ungrouped data are required to be covered.*	5	Worksheet will be provided
		Class Test	1	
August'25		SECTION B Conic Section Sections of a cone, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. • Standard equations and simple properties of parabola, ellipse and hyperbola.	10	Worksheet will be provided
		Class Test	1	
August'25		SECTION C **Statistics** • *Combined mean and standard deviation.* - *If the period is even, then the centered* • *The Median, Quartiles, Deciles, Percentiles moving average is to be found out and and Mode of grouped and ungrouped data.*	5	Worksheet will be provided
		Class Test	1	

SUBJECT : SUPW

Textbook Name : No Book

MONTH	SUPW	NO.OF PERIODS	WORKSHEETS/ACTIVITY
April' 25 to July ' 25	Project 1	6	Cleanliness Drive