NOPANY HIGH

(I.C.S.E. & I.S.C Affiliated)

2-C, Nando Mullick Lane, Kolkata – 700006

Syllabus

Academic Session: (2024-2025)

Class: XI (Sci) (Unit –I)

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 (Science and Humanities)/

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

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'24	1. Abhisara	5	
	2. Class Test	1	**Worksheet will be provided**
	3. Sonnet 116	2	
May'24	**1. Sonnet 116**	**3**	
	2. Class Test	1	
	3. A Living God	3	Worksheet will be provided
June'24	1. A Living God	4	
	2. Class Test	1	
	3. A Paper Menagerie	2	Worksheet will be provided
July'24	**1. A Paper Menagerie**	**5**	
	2. Class test	1	**Worksheet will be provided**
	3. Thank you Ma'am	7	
	4. Class Test	1	
August24	1. Macbeth (Act 1)	10	
	2. Class test	1	**Worksheet will be provided**
	3. Revision	2	
Project	Write a short story based on a poem		**Submission date: 2nd July 2024**

Note: No of periods mentioned above may vary

SUBJECT : Mathematics

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

MONTH	TOPIC	NO.OF PERIODS	WORKSHEETS /ACTIVITY

April'24	**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).* ➢ *Introduction of Types: one to one, many to one, into, onto.* ➢ *Domain and range of a function.* ➢ *Sketches of graphs of exponential function, logarithmic function, modulus function, step function and rational function.*	5	Worksheet will be provided
	Class Test	1	
May'24	**3. Trigonometry** • ***Angles and Arc lengths*** ➢ *Angles: Convention of sign of angles.* ➢ *Magnitude of an angle: Measures of Angles; Circular measure.* ➢ *The relation $S = r\theta$ where θ is in radians. Relation between radians and degree.* ➢ *Definition of trigonometric functions with the help of unit circle.* ➢ *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*** ➢ *Relationship between trigonometric functions.* ➢ *Proving simple identities.* ➢ *Signs of trigonometric functions.* ➢ *Domain and range of the trigonometric functions.* ➢ *Trigonometric functions of all angles.* ➢ *Periods of trigonometric functions.*	17	Worksheet will be provided

	➢ *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***
	    ➢ *Addition and subtraction formula: sin(A ± B); cos(A± B); tan(A± B); tan(A + B + C) etc., Double angle, triple angle, half angle and one third angle formula as special cases.*
	    ➢ *Sum and differences as products .*
	    ➢ ***Trigonometric Equations***		

	Class Test	1	
June'24	**Principle of Mathematical Induction**	4	Worksheet will be provided
	Class Test	1	
	Complex Numbers	10	Worksheet will be provided
	Class Test	1	
July'24	**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'24	**Statistics** • *Mean deviation about mean and median.*	5	Worksheet will be provided

MONTH			
	• *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.*		
	Class Test	1	
August'24	**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'24	**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 :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'24	**Chapter 4:** Introduction to Java Language	5	
	Chapter 5: Concept of Data types	4	**Lab Activity**
May'24	**Chapter 5:** Concept of Data types(Cont.)	2	
	Class Test(Based on Java Concepts)	1	
	Chapter 6 : Operators and Expressions	5	**Lab Activity**

MONTH		NO.	WORKSHEETS/ACTIVITY
	Class Test(Practical)	1	
June'24	**Chapter 7:** Conditional and Looping Statements	8	**Lab Activity**
	Class Test(Practical)	1	
July'24	**Chapter 1:** Numbers (Numbers in different bases and their arithmetical operations)	12	**Worksheet**
	Chapter 2: Encoding	10	**Lab Activity**
	Class Test (Theory)	1	
Aug'24	**Chapter 3:** Propositional Logic, Hardware Implementation, Arithmetical Operations	15	**Worksheet**
	Revision (Java)	7	**Lab Activity**
Sept'24	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 : 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
April'24	❖ <u>PHYSICAL WORLD AND MEASUREMENT</u> 1. Units and Measurements : Error analysis and Significant Figures 2.Dimensional Analysis ❖ <u>KINEMATICS</u> 3.Motion in a straight line	3 2 5	Worksheet will be provided
	Class Test	1	
May'24	4. Motion in a plane ❖ <u>LAWS OF MOTION</u> 5. Newton's Laws of Motion	6	Worksheet will be provided

MONTH	TOPIC		NO. OF PERIODS	WORKSHEETS/ACTIVITY
			4	
	Class Test		1	
June'24	6. Friction		3	
	7. Uniform Circular Motion		2	
	8.Work,Energy and Power		6	Worksheet will be provided
	Class Test		1	
July'24	❖ MOTION OF SYSTEM OF PARTICLES AND RIGID BODY			Worksheet will be provided
	9.Centre Of Mass.		3	
	10.Rotational Motion of a rigid body: Moment of Inertia.		8	
	11.Gravitation:Plannets and Satellites		8	
	Class Test		1	
August'24	❖ PROPERTIES OF MATTER			Worksheet will be provided
	12. Elasticity		4	
	13.Fluid Pressure		2	
	14.Flow of Liquid		3	
	15.Surface Tension		3	
	Revision		8	
	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 :ISC Chemistry
Author   : K.L Chugh
Publisher   : KaltanKalyani
Practical Book : Nova ISC Chemistry Lab Manual (classXI)
Publisher : Nova Publications

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'24	Ch-2: Structure of Atom	8	
May'24	Ch-3: Classification of elements and periodicity in properties	4	
	Class Test	1	Worksheet will be provided
June'24	Ch-4: Chemical Bonding	10	
	Class Test	1	
July'24	Ch-12: Organic chemistry - some basic principles and techniques	8	

	Class Test	1	Worksheet will be provided
	Ch-13: Hydrocarbons		
	A. Alkanes	5	
	B.Alkenes	5	
August 24	Ch-13,C: Alkynes	5	
	Revision & pending Work		Worksheet will be provided

- **Project will be discussed in class.**

SUBJECT :BIOLOGY

Text Book : ISC Srijan Biology XI
Publisher : Srijan Publishers Private Limited
Author : Veer Bala Rastogi

MONTH	TOPIC	NO.OF PERIODS	WORKSHEETS/ACTIVITY
April'24	**UNIT 1: Diversity in Living Organisms** Chapter 1**:** The Living World Chapter 2: Biological Classification	 2 6	Worksheets will be provided
	Class Test	1	
	UNIT 3: Cell Structure And Function Chapter 8: Cell:The Unit of Life Chapter 10: Cell cycle and cell division.	 3 3	Worksheets will be provided
	Class Test	1	
May'24	**UNIT 1: Diversity in Living Organisms** Chapter 3: Plant Kingdom	 5	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	5	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.	5	Worksheets will be provided
	Class test	1	
August'24	Revisions	15	Worksheets will be provided
Practical	Will be conducted as per ISC guidelines		
*The no of periods mentioned here are approximate.			

SUBJECT : ENVIRONMENTAL SCIENCE

Textbook Name : ISCENVIRONMENTAL SCIENCE
Author   : AMITA GANGULY
Publisher   : MARINA

MONTH	TOPIC	NO.OF PERIODS	WORKSHEETS/ACTIVITY
April'24	1.MODES OF EXISTENCE AND RESOURCE USE	2	Worksheet will be provided
	Class Test	1	
	2. ECOLOGY	4	Worksheet will be provided
	Class Test	1	
May'24	3. POLLUTION	6	
	Class Test	1	
	REVISION		Worksheet will be provided
June'24	4. POLLUTION	8	Worksheet will be provided
	Class Test	1	
	REVISION		Worksheet will be provided

July'24	5.LEGAL REGIMES OF SUSTAINABLE DEVELOPMENT	6	Worksheet will be provided
	Class test	1	
	REVISION		Worksheet will be provided
August24	6. LEGAL REGIMES OF SUSTAINABLE DEVELOPMENT	8	Worksheet will be provided
	REVISION		Worksheet will be provided

SUBJECT: PHYSICAL AND HEALTH EDUCATION			
MONTH	**TOPIC**	**NO. OF PERIODS**	**ACTIVITY**
April'24	1. FITNESSGRAM	3	• FREE HAND EXERCISES
	Class Test	1	
	2. CRICKET	3	• RULES RAGULATIONS • TECHNIQUES AND SKILLS
	Class Test	1	
May'24	1. FITNESSGRAM	3	• FREE HAND EXERCISES
	Class Test	1	
	2. BADNINTON	3	• RULES RAGULATIONS • TECHNIQUES AND SKILLS
	Class Test	1	
June'24	1. MASS DRILL & FITNESSGRAM	3	• CALLISTHENICS, AEROBICS & YOGA.
	Class Test	1	
	2. BASKET BALL	3	• RULES RAGULATIONS • TECHNIQUES AND SKILLS
	Class Test	1	
July'24	1. MASS DRILL & FITNESSGRAM	3	• CALLISTHENICS, AEROBICS & YOGA.
	Class Test	1	
	2. FOOTBALL	3	• RULES RAGULATIONS • TECHNIQUES AND SKILLS
	Class Test	1	
August'24	1. MASS DRILL & FITNESSGRAM	3	• CALLISTHENICS, AEROBICS & YOGA.
	Class Test	1	
	2. TABLE TENNIS, CHESS & CARROM	3	• RULES RAGULATIONS • TECHNIQUES AND SKILLS
	Class Test	1	

SUBJECT : HINDI

Textbook Name 1 : व्याकरण मंजूषा
Publisher : एवरग्रीन पब्लिकेशन
Text book Name 2 : गद्य संकलन
Publisher : एवरग्रीन पब्लिकेशन
Text book Name 3 : काव्य मंजरी
Publsher : एवरग्रीन पब्लिकेशन
Text book Name 4 : सारा आकाश (उपन्यास)
Author : राजेंद्र यादव

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'24	1. पुत्र प्रेम (कहानी)	3	LPQ Worksheet will be provided
	–		
	–		
	–		
	–		
May'24	1. साखी (कविता)	5	LPQ Worksheet will be provided
	Class Test	1	
	2. अशुद्ध वाक्यों को शुद्ध करना	3	Worksheet will be provided
	3. मुहावरे और लोकोक्तियां	3	
	4. हिंदी परियोजना कार्य (Hindi Project)	2	प्रेमचंद्रजी का जीवन परिचय और रचनाओं का उल्लेख करते हुए, पुत्रप्रेम कहानी का सारांश और उद्देश्य लिखिए	
June'24	1. गौरी (कहानी)	5	LPQ worksheet will be provided
	Class Test	1	
	2. अपठित गद्यांश	2	Worksheet will be provided
	3. निबंध लेखन	2	
	4. सारा आकाश	3	Worksheet will be provided
July'24	1. शरणागत (कहानी)	5	LPQ worksheet will be provided
	. Class test	1	
	2.बाललीला (कविता)	5	LPQ worksheet will be provided
	Class test	1	
	सारा आकाश	4	
August24	एक फूल की चाह (कविता	5	LPQ worksheet will be provided
	Class test	1	
	2. निबंध लेखन	2	
	3. अपठित गद्यांश	2	Worksheet will be provided
	4. सारा आकाश	4	
	Revision		

SUBJECT : BENGALI

Textbook Name : ISC প্রবন্ধ ও গদ্য সংকলন, ISC কবিতা সংকলন, কোনি (মতি নন্দী)

Publisher : power publishers

MONTH	TOPIC	NO. OF PERIODS	WORKSHEETS/ACTIVITY
April'24	1. ঠাকুরদা	4	Lpq will be provided
May'24	2. ওরা কাজ করে	2	Worksheet will be provided
	3. জোড়াসাঁকোর ধারে	2	Lpq will be provided
	4. পুব-পশ্চিম	3	LPQ will be provided
	Project explanation	1	
June'24	5. তাসের ঘর	4	Worksheet will be provided
	Class test	1	
	6. বনলতা সেন	2	LPQ will be provided
	Class test	1	
July'24	7. কোনি	7	LPQ will be provided
	Class test	1	
	8. বোধ পরীক্ষণ	2	Worksheet will be provided
	9. প্রবন্ধ	2	Activity
	10. বাগধারা	2	Activity
	11. শুদ্ধ বানান	2	Worksheet will be provided
August'24	Class test	1	
	12. বাক্য পরিবর্তন	2	Activity
	13. বিভিন্ন প্রকার শব্দ	2	Worksheet will be provided
	Class test	1	
	14. উক্তি পরিবর্তন	2	Worksheet will be provided
	15. বাচ্য পরিবর্তন	2	Worksheet will be provided
	Class test	1	
	• Revision	4	

SUBJECT : SUPW

Textbook Name : No Book

MONTH	SUPW	NO.OF PERIODS	WORKSHEETS/ACTIVITY
April' 24 to July ' 24	Project 1	6	Making Flower vase (with discarded materials)