

# Preface

This booklet contains the proposed syllabus for different subjects in respective classes. It may be noted that in actual classroom teaching, there may be minor changes in the same. In case of a major deviation from the proposed plan, the concerned teacher shall communicate in writing to students in advance.

The project evaluation rubric mentioning the parameters and their corresponding weightages will be given to the students along with the project statement.

**Subject: ELECTIVE ENGLISH****Books:- To Kill a Mocking Bird, A Doll's House, Death of a Salesman**

Month	Ch No and Name	Activities	W/S,Assign/ Project
MAR	TO KILL A MOCKING BIRD: Part-I Ch-1,2,3	Short Introduction of Harper Lee, main characters in the novel, discussion of main incidents	Long answer questions
APR	TO KILL A MOCKING BIRD: Part-I Ch- 4,5,6	Chapterwise summary, Discussion of the main incidents	and Long answer questions
MAY	TO KILL A MOCKING BIRD: Part-I Ch-7	Discussion of the main incidents; paraphrasing of the poems and Critical analysis	Long answer question based on novel
JUN	TO KILL A MOCKING BIRD: Part-I Ch- 8,9,10,11	Discussion of the main incidents & summary of the chapters	Long answer question
JULY	TO KILL A MOCKING BIRD: Part-II Ch- 12,13,14,15,16,17,18	Discussion of the main incidents & summary of the chapters	Long answer questions
AUG	TO KILL A MOCKING BIRD: Part-II Ch- 19,20,21,22,23,24, 25	Discussion of the main incidents & summary of the chapters	Long Answers
SEP	A DOLL'S HOUSE: ACT-I	Summary of Act-I and discussion of main incidents	Summary and Long answer questions
OCT	A DOLL'S HOUSE: ACT- I, III	Summary of Act-II& III and discussion of main incidents	Characters analysis and long answers
NOV	DEATH OF A SALESMAN ACT-I	Introduction to Arthur Miller and Characters in Drama, Summary of Act-I and discussion of main incidents	Long answer questions
DEC	DEATH OF A SALESMAN ACT-II& III	Summary of Act-II& III and discussion of main incidents	Long answer questions
JAN	REVISION		
FEB	REVISION		

**Subject:English Language Paper I****Book:- Total English**

<b>Month</b>	<b>Ch No and Name</b>	<b>Activities</b>	<b>W/S,Assign/ Project</b>
MAR	Tenses and their Use-I,II; Preposioinons	Grammar Practice	Total English- Test Paper 1
APR	Argumentative Composition, Speech Writing, Uses of Tenses III, IV	Guidelines on argumentative composition and speech writing	Total English- Test Paper 2
MAY	Prepositions, Personal Profile	Preposition Assignments, Sample Personal Profile to be discussed	Total English- Test Paper 3
JUN	Proposal Writing,Statement of Purpose, Narrative Composition, Transformation of Sentences I&II	Format and guidelines of Statement of Purpose and Practice of Proposal writing; Prepositions	Total English- Test Paper 4
JUL	Short Story, Characterisation in Short Stories	Guidelines on Characterisation	Total English- Test Paper 5, Revision for UT 1
AUG	Reported Speech, Characterisation, Prepositions, Transformation-I&II	Revision of Tenses and Preposition	Total English- Test Paper 6
SEP	Directed Writing (Article Writing, Book and Film review)	Exampals of Book Reviews from newspapers and magazines	Total English- Test Paper 7
OCT	Comparison of Adjectives, Reflective Composition, Transformation-III & IV	Practice of Reflective Composition, assigments on degree of comparision	Total English- Test Paper 8
NOV	Conditional Sentences, Free Choice Composition, Directed Writing (Report Writing, Travel Brochure, Personal Profile)	Sample Brochure, Grammar Practice	Revision for Pre Board I
DEC	Revision	Grammar Practice	

**Subject:English Language Paper I**

JAN	Revision	Doubt Solving	Revision for Pre Board II
FEB	Revision	Doubt Solving	

**Subject: English Literature Paper II****Books:- The Tempest, Echoes , Reverie**

<b>Month</b>	<b>Ch No and Name</b>	<b>Activities</b>	<b>W/S,Assign/ Project</b>
MAR	Poem: Birches, Short Story: The Story of an Hour, Drama: The Tempest Act IV	Constructive discussion on the theme of Imagination versus the real world	Essay type long answers
APR	Poem: The Darkling Thrush, Drama: Cont. of The Tempest Act IV	Role play based on Drama	Extract based Questions Ans of Drama
MAY	Short Story: B. Wordsworth	Critical analysis on the theme of failure and disillusionment in B. Wordsworth	Essay type long answers
JUN	Poem: We are the Music Makers	Analysis of the theme- Transformative power of Art	Board style long answers practice
JUL	Short Story: To Build a Fire, Drama: The Tempest Act V	Detailed explanation of Act V	Revision for UT 1

**Subject:English Literature Paper II**

AUG	Poem: Crossing the Bar, Drama: Cont. of The Tempest Act V	Analysis of major characters in the Drama	Writing of Essay type answers for The Tempest
SEP	Short Story: The Sound Machine	Discussion on the theme of Appearance versus reality	Revision for Mid-Term
OCT	Poem: Dover Beach, Short Story: The Singing Lesson	Explaining the style of Dramatic Monologue	Writing of Essay type answers for The Tempest
NOV	Revision	Discussion and understanding of the themes of The Tempest	Revision for Pre Board I
DEC	Revision	Doubt Solving	
JAN	Revision	Doubt Solving	Revision for Pre Board II
FEB	Revision	Doubt Solving	

**Subject: Mathematics****Book:- S. Chand (ISC Mathematics)**

<b>Month</b>	<b>Ch No and Name</b>	<b>W/S. Assign / Project</b>
<b>March</b>	L-5 Determinants L-6 Matrices L-1 Relations	W/S
<b>April</b>	L-2 Functions L-3 Binary Operations L-4 Inverse Trigonometric Functions	W/S
<b>May</b>	L-8 Differentiation	W/S
<b>June</b>	L-8 Differentiation (Cont) L-9 Indeterminate Forms of Limits L-10 Mean Value Theorems	W/S
<b>July</b>	L-11 Application of Derivatives L-12 Maxima and Minima L-7 Continuity and differentiability of functions	W/S
<b>August</b>	L-13,14,15 Indefinite Integration L-16 Definite Integration L-27 Linear Regression	W/S
<b>September</b>	L-16 Definite Integration (Cont) L-17 Differential Equations L-18 Probability L-28 Linear Programming	W/S
<b>October</b>	L-19 Bayes' Theorem L-20 Theoretical Probability Distribution L-21 Vectors L-26 Application of Calculus in Commerce and Economics	W/S
<b>November</b>	L-22 Vectors L-23 3D Geometry L-24 The Plane L-25 Application Of Integration	W/S
<b>December</b>	Doubt Solving	
<b>January</b>	Doubt Solving	

**Subject: Physics**

Book : - ISC Physics by Kumar &amp; Mittal Nageen Prakashan

Month	Ch No and Name	Activities	Worksheets
MAR	<b>Unit 1 Electrostatics</b> Ch1 Electric Charges and Fields Ch2 Gauss' Theorem Ch3 Electric Potential & Potential Energy Ch4 Capacitors and Dielectrics	Practical: Exp 9 Ohm's law Practical: Exp 8 Slide Wire Bridge Assignment of Project topics	
APR	Ch4 Capacitors and Dielectrics (Contd) <b>Unit 2 Current Electricity</b> Ch5 Electric Resistance & Ohm's law Ch6 DC circuits and Measurements <b>Unit 3 Magnetism</b> Ch7 Moving Charges and Magnetism Ch8 Torque on a current carrying loop Ch9 Magnetic field and Earth's Magnetism	Practical: Laws of Resistances in Series and Parallel Practical: Potential Gradient Practical: Comparison of emf of two cells	WS-1 Unit 1 & 2
MAY	Ch10 Magnetic Classification of Substances (Contd) <b>Unit 4 EMI &amp; AC</b> Ch11 Electromagnetic Induction	Practical: Internal resistance of a cell	WS-2 Unit 3
JUN	<b>Unit 4 EMI &amp; AC</b> Ch11 Electromagnetic Induction (Contd) Ch12 Alternating Current <b>Unit 5 EM Waves</b> Ch13 Electromagnetic waves	Practical: Focal length of a lens using u-v method Practical: Focal length of a lens using displacement method Practical: Focal length of concave mirror by using two pins (by u-v method)	WS-3 Unit 4



**Subject: Physics**

JUL	Revision Ch12 Alternating Current (Contd) <b>Unit 6 Optics</b> Ch14 Spherical Mirrors Ch15 Refraction of light at a plane interface	Practical: To determine the refractive index of a liquid by using a convex lens and a plane mirror	
AUG	Ch15 Refraction of light at a plane interface (Contd) Ch16 Refraction of light at spherical surfaces (lenses) Ch17 Refraction and Dispersion of light through Prism Ch18 Optical Instruments	Practical: To determine the focal length of a concave lens, using an auxiliary convex lens, not in contact  Practical: To determine the focal length of a convex mirror using convex lens	WS-4 Unit 6
SEP	Ch18 Optical Instruments (Contd) Ch19 Wave nature of light Ch20 Interference of Light		
OCT	Ch20 Interference of Light (Contd) Ch21 Diffraction of light Ch22 Polarisation <b>Unit 7 Dual Nature of Radiation &amp; Matter</b> Ch23 Photoelectric Effect Ch24 Matter Waves Ch34 Logic Gates		

**Subject: Physics**

NOV	<b>Unit 8 Atoms &amp; Nuclei</b> Ch26 Atom Ch27 Nuclear Structure Ch28 Radioactivity Ch29 Mass-Energy Equivalence Ch30 Nuclear Fission and Fusion <b>Unit 9 Electronic            Devices</b> Ch31 Semiconductor Electronics		WS-5 Unit 8 WS-6 Unit 9
DEC	Ch32 Junction Diodes Ch33 Junction Transistors	Revision	

**Subject: Chemistry****Book:- S. NOOTAN ISC CHEMISTRY (Dr. H.C.Srvastava)**

<b>MONTH</b>	<b>Chapter No. and Name</b>	<b>Activity/ Project</b>	<b>Assignment/ Worksheet</b>
<b>MARCH</b>	<b>Chap 10. Haloalkanes and Haloarenes</b> Preparation ,Properties and Uses, Halo form reaction, Iodoform, Freons, DDT . <b>Chap11. Alcohols ,Phenols and Ethers</b> Preparation ,Properties and Uses , Diols and Triols ,Ethers Preparation ,Properties and Uses	<b>Practical Practice</b>	<b>Assignment Chapter wise</b>
<b>APRIL</b>	<b>Chap 9 Coordination Compounds</b> Complex compounds, IUPAC	<b>Practical Practice</b>	<b>Assignment Chapter wise</b>
<b>MAY</b>	nomenclature, Isomerism, VBT and CFT.  <b>Chap 1 Solid state</b> Unit cell, Crystal lattice, Crystal systems (CCP, HCP, FCC), Density of unit cell, Packing fractions, Imperfections in solids , Electrical and magnetic properties		
<b>JUNE</b>	<b>Chap 2 Solutions.</b> Concentration terms, Henry's law, Raoult's law, Colligative properties, Van't Hoff factor <b>Chap 1</b> <b>Chap 6 General Principles and Processes Of Isolations Of Elements</b> Metallurgy, ores, Occurrence and Principles Of Al, Cu, Zn, Fe and Ag	<b>Practical practice</b>	<b>Assignment Chapter wise</b>
<b>JULY</b>	<b>Chap 3 Electrochemistry</b> Galvanic cell, EMF , EMF series, Nernst equation (numerical based on it), Faradays law of electricity, Electrolytic conductance, Corrosion, Batteries <b>Chap 12 Aldehyde and Ketones and Carboxylic acids</b> Preparation, Properties, Tests and uses	<b>Practical practice</b>	<b>Assignment Chapter wise</b>
<b>AUGUST</b>	<b>Chap 4 Chemical Kinetics</b> Rate of reaction, Order of reaction, Molecularity, Integrated law , Collision theory, Arrhenius equation and Catalysis <b>Chap 13. Organic Compounds containing Nitrogen</b> Preparation, Properties, Tests and uses	<b>Practical practice</b>	<b>Assignment Chapter wise</b>
<b>September</b>	<b>Chap 5 Surface Chemistry</b> Adsorption, Catalysis, Colloidal state	<b>Practical practice</b>	

**Subject: Chemistry**

	Application and Uses.		
<b>October</b>	<b>Chap 7 p-block elements</b> Preparation, Properties and uses <b>Chap.8 d- and f- block elements</b> Preparation, Properties and uses Study of $\text{KMnO}_4$ and $\text{K}_2\text{Cr}_2\text{O}_7$ <b>Chap 15. Polymers</b> Classification of polymers, Polymerization (Addition and Condensation), Monomers and uses of polymers.	<b>Practical practice</b>	<b>Assignment Chapter wise Assignment Chapter wise</b>
<b>November</b>	<b>Chap 14. Biomolecules</b> Carbohydrates, Proteins, Vitamin, Enzyme, Nucleic acid <b>Chap 16. Chemistry in Everyday Life</b>	<b>Practical practice (Revision)</b>	<b>Assignment Chapter wise</b>
<b>December</b>	<b>Revision</b>	<b>Practical practice (Revision)</b>	
<b>January</b>	<b>Revision</b>	<b>Practical practice (Revision)</b>	

**Subject: Biology****Book:- T/B- ISC Biology, Srijan**

Month	Lesson	Activities	W/S/ Assign/ Project
MAR	Ch-1 Reproduction in Organisms	-Study of floral characters of plant families	Assign
	Ch-2 Sexual Reproduction in Flowering Plants		
APR	Ch-3 Human Reproduction	-Study of flowers adapted for pollination	
	Ch-4 Reproductive Health		
	Ch-5 Principles of Inheritance and Variation (Half)	-Germination of pollen grain	
MAY	Ch-5 Principles of Inheritance and Variation (Half)	-T.S. of Ovary	Assign.
JUN	Ch-6 Molecular basis of Inheritance	-L.S. of Monocot and Dicot Seed	Class Test
JUL	Ch- 8 Human Health and Diseases	-Study of specimen through permanent slides	Assign.
	Ch-9 Strategies for Enhancement in Food Production	-Study of Soil Samples	
	Ch-10 Microbes in Human Welfare		
AUG	Ch-7 Evolution	-Study of arrangement and distribution of stomata	Class Test
	Ch-11 Biotechnology: Principles and Processes	-Isolation of DNA from plant material	
	Ch-12 Biotechnology and its Applications		
SEP	Ch-13 Organisms and Populations	-Study of effect of Amylase Enzyme	Assign.
OCT	Ch-14 Ecosystems	-T.S. of Hydrophyte Stem	Project
	Ch-15 Biodiversity and its Conservation	-T.S. of Xerophytic Leaf  -Study of Ecological Adaptations	
NOV	Ch-16 Environmental Issues	Revision	Revision
DEC	Revision	Revision	Revision
JAN	Revision	Revision	Revision

**Subject: Computer Science**  
**Book:- Computer Science with Java**

Month	Ch No and Name	Activity	W/S Assign / Project
MAR	Ch-1 Boolean Algebra		Class Test
APR	Ch-2 Computer Hardware Ch-9 Compiling and running Java programs Ch-10 Java Classes : An OOP perspective Ch-4 Java Revision Tour	Practical	Class Test
MAY	Ch-5 Primitive values, Wrapper classes, Types and casting Ch-6 Statements, Control Structures and Scope	Practical	Class Test
JUN	Ch-7 Functions/ Methods Ch-8 Arrays and Strings	Practical	Class Test
JUL	Ch-11 Recursion	Practical	Class Test
AUG	Ch-12 Concept of Inheritance	Practical	Class Test
SEP	Ch-13 Simple Data Structure	Practical	Class Test
OCT	Ch-13 Simple Data Structure (cont.) Ch-14 Recursive Data Structures	Practical	Class Test
NOV	Ch-14 Recursive Data Structures (cont.) Ch-15 Computational Complexity	Practical	Class Test
DEC- FEB	Preboard 1 and 2		

**Subject: Economics**  
**Book:- Frank ISC Economics**

<b>Month</b>	<b>Ch. No. and Name</b>	<b>Activity/ Projects</b>	<b>Class Test</b>
<b>March</b>	L-2 Demand and law of demand, L-3 Theory of consumer behaviour	Guidence regarding project	Class Test
<b>April</b>	L-4 Elasticity of Demand, L-5 Supply-Law and Price elastcity,L-6 Market Mechanism	Project work to be started by students	Class Test
<b>May</b>	L-7 Law of returns	Project work to be continued	Class Test
<b>June</b>	L-7 Law of returns continuation. L-8 Cost & Revenue analysis, L-9 Forms of market	Project work to be continued, Visit	Class Test
<b>July</b>	L-10 Producers equilibrium, L-11 Perfect competition	Project work to be continued	Class Test
<b>August</b>	L-12 Theory of income and employment, L-13 & L -14 Money and Banking	Project work to be Completed, Visit	Class Test
<b>September</b>	L-15 Balance of payments and exchange rate, L-16 Public finance	Submission of final projects after corrections, Visit	Class Test
<b>October</b>	L-17 Government Budget, L- 18 National income aggregates		
<b>November</b>	L-19,20 Methods of measuring national income		
<b>December</b>	Doubt solving session, Paper writing		
<b>January</b>	Doubt solving session, Paper writing		

**Subject: P.E.**

**Book:- ISC Physical Education - Kalyani**

Month	Chapter No & Name	Activities
MAR	<b>1. Sociological Aspects of Physical Education</b> (i) Games and sports as man's cultural Heritage. (ii) Development of the individual through Games and sports. (iii) Role of Physical Education in promoting National integration.  (iv) Physical Education and personality Development.	Practical's of volley ball rules and techniques and push ups
APR	<b>2. Training Methods</b> (a) Meaning and importance of Sports Training. (b) Methods of training. (c) Warming up, conditioning and Cooling/limbering exercises. (d) Isometric and Isotonic exercises. (e) Circuit Training. (f) Weight Training.	Practical's of football
JUN	<b>3. Career Aspects in Physical Education</b> (i) Career options in Physical Education (ii) Important institutions of Physical Education in India.	Practical of badminton rules & techniques & 50 meter race
JUL	<b>4. Competitions and Tournaments</b> (i) Tournaments and types of tournaments (ii) Difference between	Practical of basket ball techniques



**Subject: P.E.**

	Professional and Amateur Players.	
AUG	<b>5. Health Education &amp; Health Problems</b> (a) Meaning and definition of 'Health' and 'Health Education'. (b) Principles and importance of Health Education. Health problems and role of Health Education in solving them. (c) Disability and Rehabilitation (d) Posture. (e) Personal hygiene and sleep requirements (f) Substance Abuse.	Practical's of cricket & broad jump
SEP	<b>6. Sports Injuries and First Aid</b> (i) Sports related injuries. (ii) Role of individual in prevention of sports Related accidents. (iii) First Aid.	Practical of 1 km running
OCT	REVISION OF CH- 1,2 & 3	Practical of shuttle running
NOV	REVISION OF CH- 4,5 & 6	Practical of sit ups
DEC	FINAL PRACTICE OF ALL PRACTICAL	
JAN		

**Subject: Accountancy**  
**Book:- APC ISC ACCOUNTANCY**

Month	Ch No and Name	Activity/ Projects	Class Test
MAR	L-1 Partnership Account-Fundamentals	Guidance regarding project	Class Test
APR	L-2 Partnership Accounts (Goodwill)	Project work to be started by students	Class Test
MAY	L-3 Admission of a Partner (Half)	Project work to be continued	Class Test
JUN	L-3 Admission of a Partner (Half)	Project work to be continued	Class Test
JUL	L-4 Retirement or death of a Partner, L-5 Dissolution of Partnership Firm, L-9 Financial Statements of Companies	Project work to be continued	Class Test
AUG	L-6 Joint stock company accounts (Issue of Shares)	Project work to be Completed	Class Test
SEP	L-7,8 Joint stock company accounts ( Issue of debentures and redemption of debentures)	Submission of final projects after corrections	Class Test
OCT	L-10,11 Financial statement analysis (Comparitives and common size statements) L-12 Cash flow statements.		Class Test
NOV	L-13 Ratio Analysis		Class Test
DEC	Doubt solving session, Paper writing		
JAN	Doubt solving session, Paper writing		

**Subject: Commerce**  
**Book:- S.Chand's ISC Commerce**

<b>Month</b>	<b>Ch No and Name</b>	<b>Acivity/ Projects</b>	<b>Class Test / Worksheets</b>
<b>MAR</b>	Ch-1 Business environment, Ch-15 consumer protection, Ch -13 marketing concept,	All projects to be explained in detail	Class test, Worksheet
<b>APR</b>	Ch-14 marketing mix, Ch-4 Banking		Class test, Worksheet
<b>MAY</b>	Ch-4 Banking Continued...		Class test, Worksheet
<b>JUN</b>	Ch-2 Capital fixed & working, Ch-3 Sources of finance		Class test, Worksheet
<b>JUL</b>	Ch-3 Sources of finance cont., Ch-5 management,		Class test, Worksheet
<b>AUG</b>	Ch-6 Principles of Management, Ch-7 Functions of management, Ch-8 Planning		Class test, Worksheet
<b>SEP</b>	Ch-9 Organising	Submission of final projects	Class test, Worksheet
<b>OCT</b>	Ch-10 Staffing & Ch-11 Directing		
<b>NOV</b>	Ch-12 Controlling		
<b>DEC</b>	Revision and Doubt solving		
<b>JAN</b>	Revision and Doubt solving	Preparing for mock viva	

**Subject: Psychology****Book:-**

Month	Book:- Topic	Assignment
<b>MARCH</b>	<b>INTELLIGENCE AND ABILITY</b> (i) Intelligence: What is Intelligence, Theories of Intelligence, Measurement of Intelligence, Types of Intelligence tests, Concept of IQ, Levels of Intelligence (ii) Ability, Achievement and Interest: Meaning of Ability, Achievement and Interest and how they all can be measured.	All the chapters will be followed by an assignment
<b>APRIL</b>	<b>PERSONALITY</b> (i) Definition of Personality (ii) Theories of Personality (iii) Assessment of Personality <b>STRESS AND STRESS MANAGEMENT</b> (i) Meaning of stress (ii) Causes of Stress	
<b>MAY</b>	<b>STRESS AND STRESS MANAGEMENT (contd.)</b> (iii) Effects of Stress (iv) Stress Management	
<b>JUNE</b>	<b>SOCIAL THOUGHT AND SOCIAL BEHAVIOUR</b> (i) Social Perception (ii) Social Influence - Conformity, Obedience <b>ATTITUDES</b> (i) Meaning of Attitudes, types of Attitudes, Attitude formation (ii) Meaning of Prejudice, its causes and how to combat it	
<b>JULY</b>	<b>REVISION FOR UNIT TEST - I</b> <b>PSYCHOLOGICAL DISORDERS AND PSYCHOTHERAPY</b> (i) Meaning of Abnormal Behaviour, Classification of psychological disorders (ii) Characteristics of Anxiety, Mood and Personality Disorders	
<b>AUG</b>	<b>PSYCHOLOGICAL DISORDERS AND PSYCHOTHERAPY (contd.)</b> (iii) Schizophrenia - its types and characteristics (iv) Psychotherapy - Psychoanalysis, Client centred, Behavioral and Rehabilitation of mentally ill <b>LIFE SPAN DEVELOPMENT</b> (i) Meaning of Development, growth and maturation (ii) Infancy Developmental changes	

## **Subject: Psychology**

<b>SEPT</b>	<b>REVISION FOR MID TERM EXAMINATION</b>	All the chapters will be followed by an assignment
	<b>LIFE SPAN DEVELOPMENT (contd.)</b> (iii) Childhood Developmental changes (iv) Adolescence Developmental changes	
<b>OCT</b>	<b>APPLICATIONS OF PSYCHOLOGY</b> (i) Clinical and Counselling Psychology (ii) Educational Psychology (iii) Organisational Psychology (iv) Criminal Psychology	
<b>NOV</b>	<b>REVISION FOR PRE BOARD EXAMINATION</b>	

**Subject: Art**

Month	Topic
Mar	Still life: Still Life Drawing from Group of object/ Drawing for lino cut
April	Relief Printing: Black & White/ color lino printing
June	Nature : Any Fruit Or Plant
July	Nature : Any Fruit Or Plant
August	Still life: Still Life Drawing from Group of object
September	Still life: Still Life Drawing from Group of object
October	Nature : Any Fruit Or Plant
November	Still life: Still Life Drawing from Group of object
December	Nature : Any Fruit Or Plant
January	Revision

# NOTES

# NOTES