

SYLLABUS BOOK

CLASS – XI^{Sc}.

2021-22

Subject : English

MONTHS	SECTIONS	LESSONS/TOPICS	ACTIVITY
APRIL	READING WRITING GRAMMAR HORNBI	FACTUAL DESCRIPTION - UNSEEN PASSAGES ADVERTISEMENTS, ARTICLES DETERMINERS L-1 THE PORTRAIT OF A LADY POETRY-A PHOTOGRAPH	EXTEMPORE
MAY	READING WRITING GRAMMAR HORNBI SNAPSHOTS	UNSEEN PASSAGE NOTICES, SPEECH TENSES WE'RE NOT AFFRAID TO DIE... THE SUMMER OF THE BEAUTIFUL WHITE HORSE	POSTER MAKING
JUNE		SUMMER BREAK	
JULY	READING WRITING GRAMMAR HORNBI SNAPSHOTS	UNSEEN PASSAGES AND NOTE MAKING POSTERS, LETTER WRITING CLAUSES DISCOVERING TUT: THE SAGA CONTINUES THE ADDRESS	ARTICLE WRITING
AUGUST	WRITING GRAMMAR NOVEL HORNBI SNAPSHOTS	ARTICLE, REPORT WRITING MODALS CH- 3,4 LANDSCAPE OF THE SOUL RANGA'S MARRIAGE ALBERT EINSTEIN AT SCHOOL	SPEECH WRITING
SEPTEMBER	MED TERM EXAM		
OCTOBER	WRITING GRAMMAR HORNBI SNAPSHOTS	SPEECH , NARRATIVES ACTIVE & PASSIVE VOICE THE BROWNING VERSION POETRY - CHILDHOOD MOTHER'S DAY BIRTH	POWERPOINT PRESENTATIO N ON TENSES
NOVEMBER	WRITING GRAMMAR HORNBI SNAPSHOTS	REVISION OF LETTER WRITING REVISION OF EDITING THE AILING PLANET BROWNING VERSION SILK ROAD P- THE VOICE OF THE RAIN	
DECEMBER		REVISION OF FULL SYLLABUS	

Subject - Physics

Month	Lesson Name	Activity
April-	Chapter-1: Physical World Chapter-2: Units and Measurements Chapter-3: Motion in a straight line	1. Measurement of diameter of spherical / cylindrical body using vernieu calipere.
May	Chapter-3: Motion in a straight line (Cont.) Chapter-4: Motion in a plane	2. Measuring diameter of a given wire and thickness using screw gange.
June	Chapter-5: Newton's Laws of motion Chapter-6: Work energy and power	3. To determine Radices of uvrature of a given spherical surface by a spherometer.
July	Chapter-6: Work energy and power (Cont.) Chapter-7: System of particles and rotational Motion	4. To determine the mass of two different objects using a Beam balance.
August	Chapter-7: System of particles and rotational Motion (Cont.)	5. To find the weight of a given body using parallelgram law of vector.
September	MID TERM EXAMINATION	
October	Chapter-8: Gravitation Chapter-9: Mechanical Properties of Solids	6. Simple pendulum, Plot its LT^2 graph and use it to find the effective length of second's pendulum
November	Chapter-10: Mechanical Properties of Liquids Chapter-11: Thermal Properties of Matter	7. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizonatal surface
December	Chapter-12: Thermodynamics Chapter-13: Kinetic theory	8. To determine young's modeling of elasticity of a material of a given wire. 9. To study variation in volume with pressure for a sample of air at constant temperature.
January	Chapter-14: Oscillations Chapter-15: Waves	10. To determine specific heat capacity of a given solid by methods of mixtures
February	Revision & Annual Exams	

Subject – Chemistry

MONTH	LESSION NAME
APRIL	<ul style="list-style-type: none"> • Mole Concept
MAY & June	<ul style="list-style-type: none"> • Structure of atom
JULY	<ul style="list-style-type: none"> • Structure of atom • Classification of elements
AUGUST	<ul style="list-style-type: none"> • Redox and chemical bonding
SEPTEMBER	MIDTERM EXAMINATION
OCTOBER	Hydrogen and organic chemistry
NOVEMBER	State of matter and thermodynamics
DECEMBER	S,P Block and Equilibrium
JANUARY	Revision & FINAL EXAM

Subject – Science (Biology)

Month/Book	Lesson Name	Activity
April-May	Chapter 1... Living World. Chapter 2.... Biological classification	Practical
June	Chapter 3....Plant Kingdom.. Chapter 4.. Animal Kingdom	Practical
July	Chapter 5...Morphology of Flowering plants Chapter 7...Structural organisation in animals	Practical
August	Chapter 8..Cell:The unit of Life. Chapter 9.. Biomolecules.	Practical
September	MID TERM EXAMINATION	
October	Chapter 10...Cell cycle and cell division. Chapter13...Photosynthesis in higher plants Chapter 14...Respiration in plants. Chapter 15...Plant growth and development.	Practical
November	Chapter 17...Breathing and Respiration Chapter 18....Body fluids and circulation. Chapter 19...Excretory products and their elimination. Chapter 20...Locomotion and movement Chapter 21 ...Neural control and coordination. Chapter 22... Chemical control and coordination.	Practical
December & January	REVISION & Annual Exams	

Subject – Maths

Month/Book	Lesson Name
April-May	CH 1 SETS CH 2 RELATIONS AND FUNCTIONS CH 3 TRIGONOMETRIC FUNCTIONS
June	CH 3 TRIGONOMETRIC FUNCTIONS CONTINUED CH 5 COMPLEX NUMBERS AND QUADRATIC EQUATIONS
July	CH 6 LINEAR INEQUALITIES CH 7 PERMUTATIONS AND COMBINATIONS
August	CH 9 SEQUENCE AND SERIES CH 10 STRAIGHT LINES
September	REVISION CH 13 LIMITS AND DERIVATIVES
October	CH 11 CONIC SECTIONS CH 12 INTRODUCTION TO 3 D
November	CH 14 STATISTICS CH 15 PROBABILITY
December	REVISION

Subject – Physical Education

Month	Chapters
APRIL	Changing Trends & Career In Physical Education
MAY	Olympic Value Education
JUNE	Physical Fitness, Wellness & Lifestyle
JULY	Test, Measurement & Evaluation
AUGUST	FUNDAMENTALS OF ANATOMY AND PHYSIOLOGY IN SPORTS
SEPTEMBER	MID TERM ASSESSMENT
OCTOBER	Revision Ch-1,2,3
NOVEMBER	Revision Ch-7,8
TERM-2	
DECEMBER	Physical Education & Sports for CWSN , Yoga
JANUARY	Physical Activity & Leadership Training Psychology & Sports Training & Doping In Sports

Subject – Fine Arts

MONTH	Lesson Name	Activity
APRIL	History of Indian Painting Unit - 1	
MAY	An Introduction of Art Unit- 2	Modern Art
JUNE	Still Life Composition	<ul style="list-style-type: none"> • One sheet Object study.
JULY	Pre History Rock Painting Art of Indu Valley Civilazation. (2500 B.C. to 1500 B.C.)	<ul style="list-style-type: none"> • Three sheets Composition Art
AUGUST	Composition and object Study	<ul style="list-style-type: none"> • 5 Art work of your choice.
SEPTEMBER	Revision & Mid Term Examination	
OCTOBER	Unit- 3 Buddhist , Jain and Hindu Art (3rd Century B.C. to 8th Century)	One sheet of Folk Art
NOVEMBER	Ajanta Painting	File A3- 5 work anything of your choice.
December	Unit -4 Temple Sculpture Ironze and Artistic Aspect of Indu Islamic Architecture	
JANUARY	Revision	<ul style="list-style-type: none"> • One sheet of Landscape • 3 Sheet object study
FEBRUARY	Annual Exams	

SUBJECT - Computer Science(083)

TERM- 1

MONTH	LESSON NAME	ACTIVITY
APRIL	Basic Computer Organisation: Introduction to computer system, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB)	Make a PPT on Computer System Architecture
MAY	Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software • Operating system (OS): functions of operating system, OS user interface	Make a PPT on Different types of software
JUNE	Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. • Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32)	Count the Dots—Binary Numbers
JULY	Introduction to problem solving, Familiarization with the basics of Python programming, Knowledge of data types, Operators, Expressions, statement, type conversion & input/output, Errors: syntax errors, logical errors, runtime errors	Lightest and Heaviest—Sorting Algorithms
AUGUST	Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits. Flow of control, Conditional statements, Iterative statements, Strings	Python programs to generate different series
SEPTEMBER	MID TERM ASSESSMENT	
OCTOBER	Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists.	Finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list
NOVEMBER	IST PRE BOARD MID TERM EXAMS (CBSE BOARD) Syllabus completed till October	
<u>TERM-2</u>		
DECEMBER	Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple Introduction to Python modules: Importing module using 'import' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode)	Finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple
JANUARY	Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del(), clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy()	Count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them