

P.S.SENIOR SECONDARY SCHOOL
SYLLABUS FOR HALF YEARLY 2025(SCIENCE GROUP)

SUBJECT	CLASS XI	CLASS XII
ENGLISH	1. The Portrait of a Lady 2. A Photograph 3. We're Not Afraid to Die.. 4. The Voice of the Rain 5. Childhood 6. The Adventure 7. Mother's Day 8. Birth Writing * Poster making , * Classified (All Categories) * Debate Writing , * Speech Writing * General Grammar,Note Making	1. Indigo 2. Poets and Pancakes 3. The Interview 4. Going Places 5. A Roadside Stand 6. Aunt Jennifer's Tigers 7. The Tiger King 8. On the face of it 9. Memories of Childhood Writing *Notice Writing , *Invitation *Job Application Letter , *Report Writing
MATHS	Sequence and series; complex numbers; Trigonometry; Three Dimensional geometry; Linear inequalities; Permutation and combinations; Binomial Thm; sets; Straight lines; Conics; Relations and functions ; Probability	Indefinite integral, Definite integral, Differential equation, Area; Probability, LPP, Relation n function; Inverse Trigonometric functions; Matrices and Determinants
PHYSICS	Units and dimensions 2.Motion in straight line 3.Motion in plane. 4. Laws of motion 5.Work energy and power. 6. System of particles and Rotational motion 7. Gravitation 8.Mechanical properties of Solids 9. Mechanical properties of Fluids 10.Thermal properties 11. Thermodynamics 12. Kinetic theory of gases	1.Electromagnetic induction 2. Alternating current 3. Ray optics 4. Wave optics 5.Dual nature of radiation 6.Atoms 7. Nuclei 8. Semiconductor devices

CHEMISTRY	basic concepts , atomic structure , chemical bonding , periodic classification , thermodynamics, redox reactions , fundamental concepts of organic chemistry, hydrocarbons	electrochemistry, chemical kinetics, d and f block elements, coordination compounds, aldehydes, ketones and carboxylic acid, amines , biomolecules
COMPUTER SCIENCE	<ol style="list-style-type: none"> 1. String 2. List 3. Tuple 4. Dictionary 5. Number System - Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems, Encoding schemes 6. Boolean Algebra - Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth tables and De Morgan's laws, Logic circuits 	Functions, Exception Handling: ,File Handling-Text files,Binary files and CSV files,Data Base Management,Computer Networks
BIOLOGY	<ol style="list-style-type: none"> 1. Biological classification - only Fungi 2. Cell cycle 3. Excretory Products & their elimination 4.Locomotion & Movement 5.Neural Control & coordination 6.Photosynthesis 7.Plant Growth & Development, 8. Animal Kingdom. 	<ol style="list-style-type: none"> 1.Reproductive Health 2.Principles of Inheritance 3.Evolution 4.Human Health & Disease 5.Biotechnology - Applications 6. Biodiversity & Conservation.

INFORMATICS PRACTICES	Introduction to Computer System ,Basics of Python programming, if-else, if-elif-else, while loop, for loop,LISTS,DICTIONARIES Database Concepts, Introduction to MySQL,Datatypes, Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER Data Manipulation: INSERT Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators,distinct clause,alias name	1. Pandas Series 2. Pandas DataFrame 3. Societal Impacts 4. SQL - Single row functions, Aggregate functions, Group by, Having , Join
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