

**P.S.SENIOR SECONDARY SCHOOL**

**SYLLABUS FOR HALF YEARLY EXAM ( SCIENCE GROUP )**

<b>SUBJECT</b>	<b>CLASS XI</b>
<b>ENGLISH</b>	Prose : The Portrait of a Lady, We're not afraid..., Discovering Tut..., The Adventure Poem : A Photograph, The Laburnum Top The Voice of the Rain, Childhood Supplementary Reader : The Summer... , The Address, Mother's Day, Birth Note-Making , General grammar Writing : Classifieds - Rental - residential, commercial Real Estate - buying & selling, Situation Vacant & Wanted Missing person & pets , Lost & Found , Speech writing Debate Writing, Poster making - Announcement, awareness
<b>MATHS</b>	sequence and series, Complex numbers, Trigonometry, Straight lines, Conics, sets, probability, Three Dimensional geometry, Linear inequalities, Binomial theorem, Relations and functions, permutations and combinations
<b>PHYSICS</b>	Units and dimensions Motion in straight line Motion in a plane Newton"s laws of motion Gravitation Work power Energy Rotational motion Properties of solids Properties of fluids Thermal properties Thermo dynamics Kinetic theory of matter

<b>CHEMISTRY</b>	<b>1.Basic Concepts of chemistry 2.Structure of atom 3.Classification of Elements and Periodicity in Properties 4.Chemical Bonding and Molecular Structure 5.Redox Reactions 6.Organic Chemistry - Some Basic Principles and Technique 7.Hydrocarbons</b>
<b>BIOLOGY</b>	<b>(Portions for Half yearly exam 2024: Class 11:- 1.AnimalKingdom 2. Cell Cycle 3.Plant growth &amp; development 4.Photosynthesis 5.Excretory Products &amp; their elimination 6.Locomotion &amp; Movement 7.Neural Control &amp; Coordination.</b>

**COMPUTER SCIENCE**

**Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software**

- **Operating System(OS): functions of the operating system, OS user interface**

**Introduction to Problem-solving: Steps for Problem-solving algorithms using flowchart and pseudocode**

- **Python character set, Python tokens( keyword, identifier, literal, operator, punctuator), variables, comments**
- **Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)**
- **Expressions, statement, type conversion, and input/output: p**
- **Errors- syntax errors, logical errors, and run-time errors**
- **Conditional statements: if, if-else, if-elif-else, f**
- **Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops**
- **Strings:**
- **Lists • Tuples: • Dictionary:**

**INFORMATICS PRACTICES**

**Unit 1: Introduction to Computer System**  
Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices.  
Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.  
Software: purpose and types – system and application software, generic and specific purpose software.

**Unit 2: Introduction to Python**  
Basics of Python programming, execution modes: - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators, data types, mutable and immutable data types, statements, expression evaluation. comments, input and output statements, data type conversion, debugging.  
Control Statements: if-else, if-elif-else, while loop, for loop  
Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()  
Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del, clear()

**Unit 3: Database concepts and the Structured Query Language ,Database Concepts: Introduction to database concepts and its need, Database Management System.**  
Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key  
Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types  
Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER  
Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL.  
Data Manipulation: INSERT single tuple, multiple tuples. INSERT values into selected attributes in a tuple

<b>P.S.SENIOR SECONDARY SCHOOL</b>	
<b>SYLLABUS FOR HALF YEARLY EXAM ( COMMERCE GROUP )</b>	
<b>SUBJECT</b>	<b>CLASS XI</b>
<b>ENGLISH</b>	<p><b>Prose : The Portrait of a Lady, We're not ....., Discovering Tut, The Adventure. Poem : A Photograph, Laburnum Top</b></p> <p><b>The voice of the rain, Childhood S.Reader : The summer...</b></p> <p><b>The Address, Mother's Day, Birth. Note-making, General grammar</b></p> <p><b>Writing : Classifieds : Rental residential &amp; commercial, Real estate</b></p> <p><b>Buying &amp; Selling, Situation Vacant &amp; Wanted, Missing Person &amp; pet,</b></p> <p><b>Lost &amp; Found. Speech Writing , Debate Writing, Poster making - announcement , awareness</b></p>
<b>MATHS / APPLIED MATHS</b>	<p><b>Numbers, Indices &amp; Log, Quantitative Apt, Mensuration, Sets &amp; Relations, Sequence &amp; Series, Permutations &amp; Combinations, Logical Reasoning, Probability, Comp Int &amp; Annuity, Taxation, Utility Bills, Straight Lines, Circle &amp; Parabolas</b></p>

<b>BUSINESS STUDIES</b>	<ol style="list-style-type: none"><li>1. Forms of Business Organisation</li><li>2. Public, Private and Global Enterprises</li><li>3. Formation of a company</li><li>4. Sources of Business Finance</li><li>5. Small Business and Entrepreneurship</li><li>6. Internal Trade</li><li>7. International Trade</li></ol>
<b>ACCOUNTANCY</b>	<ol style="list-style-type: none"><li>1. Basic Terms of Accounting</li><li>2. Bases of Accounting</li><li>3. Accounting Equation</li><li>4. Journal</li><li>5. Ledger</li><li>6. Trial Balance</li><li>7. Cash Book</li><li>8. Bank Reconciliation Statement</li><li>9. Rectification of Errors</li><li>10. Depreciation</li><li>11. Provisions &amp; Reserves</li><li>12. Financial Statements of Sole Proprietorship</li></ol>

<p><b>ECONOMICS</b></p>	<p><b>Statistics for Economics - Chapter 1 - Introduction to Economics; Chapter 2- Collection of Data; Chapter 3- Tabulation of data; Chapter 4- Presentation of data; Chapter 5- Measures of central tendencies- Mean, Median Mode; Chapter 6- Correlation</b>  <b>Micro Economics - Chapter 1 - Center Problems of Economy and Production Possibility Curve; Chapter 2- Consumers Equilibrium and demand; Chapter 3 - Production function; Chapter 4 - Cost; Chapter 5- Revenue; Chapter 6- Producers equilibrium; Chapter 7 - Supply</b></p>
<p><b>LEGAL STUDIES</b></p>	<p><b>Unit 1: Introduction to political Institutions</b>  <b>Unit 2: Basic features of the constitution</b>  <b>Unit 3: Jurisprudence, Nature and sources of Law</b>  <b>Unit 4: Judiciary: Constitutional, civil and criminal courts and processes</b></p>
<p><b>ENTREPRENEURSHIP</b></p>	<p><b>Unit 1 -Entrepreneurship: concept and function</b>  <b>Unit2 -An Entrepreneur</b>  <b>Unit 3 -Entrepreneurial journey</b>  <b>Unit 4 -Entrepreneurship as Innovation and Problem solving</b>  <b>Unit5- Concept of Market</b>  <b>Unit6 Business Finance and Arithmetic( except Cash Flow Projections)</b></p>