



# VISHAL INTERNATIONAL SCHOOL

## YEARLY SYLLABUS -(2024- 2025)

Class - 11

Subject - English

April & May	Snapshot : Chapter 1, 2 Hornbill – Chapter 1, 2 Poetry – A Photograph Grammar – Tenses, Reordering, Editing Writing Skills – Letters, Notice , Advertisement.
PT 1	Snapshot - Ch 1,2 Hornbill - Ch 1 Poems -1 Photograph Grammar Tenses, Reordering, Editing etc writing skills - Advertisement, Letters Notice .
July & August	Snapshot : Chapter -5 Hornbill – Chapter -3, 4 Poetry – The Laburnum Top Grammar – Tenses, Error Correction, Gap filling Writing Skills – Advertisement, Poster, Letter, Notice,Note Making, Speech
Half Yearly Exams	Snapshot : Chapter -1,2, 5 Hornbill – Chapter -1,2, 3 Poetry – The Laburnum Top, Photograph Grammar – Tenses, Error Correction, Gap filling Writing Skills – Speech, Advertisement, Poster, Letters, Notice.
September & October	Snapshot : Chapter -5, 7 Hornbill – Chapter -8 Poetry – The Voice of the Rain Grammar – Editing, Tenses, Writing Skills – Article, Speech, Debate, Letters
P.T. - 2	Snapshot : Chapter- 7 Hornbill – Chapter- 8 Poetry – The Voice of the Rain Grammar – Tenses, Editing Task Writing Skills – Unseen Passages, Debate
November & December	Snapshot : Chapter 8 Hornbill : Chapter 8 Poetry – Childhood, Father to son. Grammar – Revision Writing Skills – Debate
Annual exam	<b>Snapshot</b> Chapter- The Summer of beautiful --- The Address , Mothers Day, Birth , The Tale of Melon ----- <b>Hornbill</b> Chapter - The Portrait of a Lady, We are not Afraid , Discovering tut,The Ailing Planet,Silk Road, Poems- A photograph, The Labornum top, Childhood, Father to son, <b>Grammar</b> - Tense - Editing , Gap filling , Direct indirect, Clauses Note making Reordering. Writing - Notice , Advertisement , Letters , Speech , Articles & Debate.

## Subject - Hindi

अंतरा भाग - 1		अंतराल भाग - 1	अभिव्यक्ति और माध्यम
गद्य खंड	काव्य - खंड		
अप्रैल - मई पाठ- 1 ईदगाह पाठ- 2 दोपहर का भोजन	पाठ - 1 कबीर पाठ - 2 सूरदास		पाठ-1 जनसंचार माध्यम पाठ-2 पत्रकारिता के विविध आयाम
जुलाई - अगस्त पाठ-3 टार्च बेचने वाला पाठ- 4 गूँगे पाठ-5 ज्योतिवा फूले।	पाठ-3 हँसी की चोट,सपना दरबार पाठ- 5 संध्या के बाद।	पाठ- 2 हुसैन की कहानी अपनी जबानी।	पाठ- 3 डायरी लेखन पत्र - औपचारिक पत्र
सितम्बर	पुनरावृत्ति	अर्द्धवार्षिक परीक्षा - 1	
अक्टूबर-नवम्बर पाठ- 6 खानाबदोश पाठ- 7 उसकी माँ	पाठ- 8 बादल को घिरते देखा है।		पाठ-4 कथा - पटकथा पाठ- 5 कार्यालयी लेखन
दिसम्बर -जनवरी पाठ-8 भारतवर्ष की उन्नति कैसे हो सकती है?	पाठ-9 हस्तक्षेप पाठ-10 घर मे वापसी	पाठ- 3 आवारा- मसीहा	पाठ- 6 स्ववृत लेखन और रोजगार आवेदन पत्र पाठ-7 शब्दकोश
फरवरी	पुनरावृत्ति	वार्षिक परीक्षा	
P.T. - 1	गद्य खंड - पाठ - 1 , 2 काव्य खंड - पाठ - 1	अंतराल पाठ - 2	
P.T. - 2	गद्य खंड - पाठ - 6, 7 काव्य खंड - पाठ - 8, 9	अंतराल - पाठ - 3	

Class - XI			
Subject: Chemistry			
S.No.	Month	Name of Chapter	No. of Periods
1	April	Some Basic Concepts of Chemistry	15
		Some Basic Concepts of Organic Chemistry	15
2	May	Classification of Elements and Periodicity in Properties	15
3	July	Chemical Bonding and Molecular Structure	18
4	August	Redox Reactions	14
<b>HALF YEARLY EXAM</b>			
5	September	Equilibrium	15
6	October	Thermodynamics	14
7	November	Structure of Atom	15
8	December	Hydrocarbons	14
9	January	Revision	
<b>FINAL EXAM</b>			
<b>Revision+Practical</b>			

Class - 11	
Subject - Maths	
MONTH	CONTENT
APRIL & MAY P.T. - 1	
JULY	<ul style="list-style-type: none"> <li>➤ Sets</li> <li>➤ Relations &amp; Functions</li> <li>➤ Complex Numbers and Quadratic Equations</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>➤ Trigonometric Functions</li> <li>➤ Sequence and Series</li> <li>➤ Permutations and Combinations</li> </ul>
SEPTEMBER	<b>Revision + Half Yearly Exams</b>
OCTOBER	<ul style="list-style-type: none"> <li>➤ Linear Inequalities</li> <li>➤ Straight Lines</li> </ul>
NOVEMBER	<ul style="list-style-type: none"> <li>➤ Conic Sections</li> <li>➤ Introduction to Three-Dimensional Geometry</li> </ul>
P.T. - 2	Sequence and Series, Conic Sections, Straight lines, Permutation and combination.
DECEMBER	<ul style="list-style-type: none"> <li>➤ Limits and Derivatives</li> <li>➤ Statistics</li> </ul>
JANUARY	<ul style="list-style-type: none"> <li>➤ Probability</li> </ul>
FEBRUARY	Whole Syllabus Revision

<b>Subject - Biology</b>		
<b>Months</b>	<b>S.No</b>	<b>Chapter's Name</b>
April & May	1.	Diversity in the living World
	2.	Biological Classification
	3.	Plant Kingdom
	4.	Animal Kingdom
<b>PT - 1</b>		
July & August	5.	Morphology of Flowering plants
	6.	Anatomy in Flowering Plants
	7.	Structural organisation in Animals
	8.	Cell :- Units of Life
	9.	Biomolecules
<b>Half Yearly Exam</b>		
September & October	10.	Cell cycle and Cell Division
	11.	Photosynthesis in Higher plants
	12.	Respiration in Plants
	13.	Plant Growth and Development
<b>PT-2</b>		
November & December	14.	Breathing and Exchange of Gases
	15.	Body fluids and Circulation
	16.	Excretory products & their elimination.
January	17.	Locomotion and Movement
	18.	Neural control and Coordination
	19.	Chemical Coordination and Intergration.
<b>Annual Exam</b>		

## Subject - Accountancy

July & August	<ul style="list-style-type: none"><li>● Introduction to Accounting</li><li>● Basic Accounting Terms</li><li>● Theory Base of Accounting</li><li>● Voucher</li><li>● Accounting Equation</li><li>● Rules of Debit and Credit</li></ul>
	<ul style="list-style-type: none"><li>● Recording Journal</li><li>● Ledger</li><li>● Cash Book</li><li>● Special Purpose Books – Others</li><li>● Bank Reconciliation Statement</li></ul>
P.T.- 1	<ul style="list-style-type: none"><li>● Introduction to Accounting</li><li>● Basic Accounting Terms</li><li>● Theory Base of Accounting</li><li>● Voucher</li><li>● Accounting Equation</li><li>● Rules of Debit and Credit</li></ul>
<b>September</b>	<b>Depreciation Revision + Half Yearly Exams</b> <ul style="list-style-type: none"><li>● Introduction to Accounting</li><li>● Basic Accounting Terms</li><li>● Theory Base of Accounting</li><li>● Voucher</li><li>● Accounting Equation</li><li>● Rules of Debit and Credit</li><li>● Recording Journal</li><li>● Ledger</li><li>● Cash Book</li><li>● Special Purpose Books – Others</li><li>● Depreciation</li><li>● Bank Reconciliation Statement</li></ul>
P.T.- 2	
October & November	<ul style="list-style-type: none"><li>● Provision &amp; Reserve</li><li>● Trial Balance</li><li>● Rectification of Errors</li></ul>
December & January	<ul style="list-style-type: none"><li>● Financial Statement (With Adjustment)</li><li>● Accounts from incomplete Records Single Entry System</li></ul>
<b>Annual Exams</b>	Entire Syllabus

## Subject - Economics

April & May	<ul style="list-style-type: none"><li>● Introduction to Micro Economics</li><li>● Consumer Equilibrium</li><li>● Demand</li></ul>
P.T. -1	<ul style="list-style-type: none"><li>● Introduce to Micro Economics</li><li>● Consumer Equilibrium</li><li>● Demand</li></ul>
July & August	<ul style="list-style-type: none"><li>● Introduce to Statistics</li><li>● Collection and Organization of Data</li><li>● Presentation of Data</li></ul>
September	<ul style="list-style-type: none"><li>● Cost Function</li><li>● Revenue</li></ul> Revision + Half Yearly Exams
Half Yearly Exams	<ul style="list-style-type: none"><li>● Introduction to Statistics</li><li>● Collection and Organization of Data</li><li>● Presentation of Data</li><li>● Introduction to Microeconomics</li><li>● Consumer Equilibrium &amp; Demand</li><li>● Measures of Central Tendency Production Function</li><li>● Cost Function</li><li>● Revenue</li></ul>
October & November	<ul style="list-style-type: none"><li>● Producer's Equilibrium &amp; Supply</li><li>● Measures of Dispersion</li></ul>
P.T. -2	<ul style="list-style-type: none"><li>● Producer's Equilibrium &amp; Supply</li><li>● Measures of Dispersion</li></ul>
December & January	<ul style="list-style-type: none"><li>● Correlation</li><li>● Index Number</li><li>● Forms of Market &amp; Price determination under Perfect Competition</li></ul>
Annual Exam	Entire Syllabus

## SUBJECT – BUSINESS STUDIES

<b>April &amp; May</b>	<ul style="list-style-type: none"> <li>● Nature and Purpose of business</li> <li>● Form of Business Organization</li> </ul>
<b>P.T. -1</b>	Chapter 1 & 2
<b>July &amp; August</b>	<ul style="list-style-type: none"> <li>● Public, Private and Global Enterprises</li> <li>● Business Science</li> </ul>
<b>September &amp; October</b>	<ul style="list-style-type: none"> <li>● Emerging Mode of Business</li> <li>● Social Responsibility of Business</li> </ul>
<b>Half Yearly Exams</b>	Chapter 1 to 4
<b>November &amp; December</b>	<ul style="list-style-type: none"> <li>● Source of Business Finance</li> <li>● Small Business</li> <li>● Internal Trade</li> </ul>
<b>P.T. - 2</b>	Chapter 5 & 6
<b>January &amp; February</b>	<ul style="list-style-type: none"> <li>● International Business</li> </ul>
<b>Annual Exams</b>	Chapter 2, 3, 5, 6, 7, 9, 10

## History

<b>July</b>	Chapter 1 – Writing and City Life Chapter 3 – An Empire across three Continents
<b>P.T. -1</b>	Chapter 1 & 3
<b>August &amp; September</b>	Chapter 5 – Nomadic Empires Chapter 6 – Three orders
<b>September</b>	Revision + Half Yearly Exams
<b>Half Yearly Exams</b>	Chapter – 1, 3, 5 & 6. <b>Map Work</b> – Chapter – 1, 3, 5 & 6. <b>Project Work</b> – <ul style="list-style-type: none"> <li>● From the Beginning of Time OR</li> <li>● Three Orders</li> </ul>
<b>October &amp; November</b>	Chapter 7 – Changing Cultural Traditions Chapter 10 – Displacing Indigenous People
<b>P.T. - 2</b>	Chapter – 7 & 10
<b>December</b>	Chapter 11 – Paths to Modernization
<b>Annual Exams</b>	Chapter – 1, 3, 5, 6, 7, 10 & 11 Map Work – 1, 3, 5, 6, 7, 10 & 11 <b>Project Work</b> – <ul style="list-style-type: none"> <li>● Paths to Modernization</li> </ul>

<b>Political Science</b>	
<b>April &amp; May</b>	Part – I Chapter 1 – Constitution Chapter 2 – Election and Representation Part - II Chapter 8 – Political Theory Chapter 9 – Liberty Chapter 10 - Equality
<b>P.T. -1</b>	Part – I : Chapter 1, 2 Part – II : Chapter 8, 9, 10
<b>July &amp; August</b>	Part – I Chapter 3 – The Legislature Chapter 4 – The Executive Chapter 5 – The Judiciary Part – II Chapter 11 – Justice Chapter 12 – Rights Chapter 13 - Citizenship
<b>September</b>	Revision + Half Yearly Exams
<b>Half Yearly Exams</b>	Part – I : Chapter 1, 2, 3, 4, 5 Part – II : Chapter 8, 9, 10, 11, 12, 13 Map Work – Chapter 5, 11 Project Work – <ul style="list-style-type: none"> <li>• The Judiciary</li> </ul> Or <ul style="list-style-type: none"> <li>• Rights</li> </ul>
<b>October &amp; November</b>	Part – I Chapter 6 – Federalisation Chapter 7 – Local Government Part – II Chapter 14 – Nationalism Chapter 15 - Secularism
<b>P.T. - 2</b>	Part – I : Chapter 6, 7 Part – II : Chapter 14, 15.
<b>Annual Exams</b>	Part – I : Chapter 1 to 7 Part – II : Chapter 8 to 15 Map Work – Complete Syllabus Project Work – <ul style="list-style-type: none"> <li>• Local Government</li> </ul> OR <ul style="list-style-type: none"> <li>• Secularism</li> </ul>



**Subject - Physics**

<b>S. No.</b>	<b>Duration</b>	<b>Evaluation</b>	<b>Syllabus covered</b>
<b>1.</b>	<b>APRIL</b>		<b>2. Units &amp; Measurements</b> <b>3. Motion in a Straight Line</b> <b>Practical – 1(a)</b> To determine diameter of a small spherical/cylindrical body by using vernier callipers. <b>(b)</b> To measure internal diameter and depth of a given beaker using vernier calipers and hence find its volume.
<b>2.</b>	<b>MAY</b>		<b>4. Motion in a plane</b> <b>5. Force &amp; Laws of Motion</b> <b>6. Work, Energy &amp; Power</b> <b>Practical-2:</b> To measure diameter of a given wire and thickness of a given sheet using a screw gauge. <b>Activity1:</b> To make a paper scale of given least count , e.g., 0.2cm, 0.5cm.
<b>3.</b>	<b>JUNE</b>	<b>Holidays Home Work</b>	<b>Investigatory project report based on some Working model.</b>
<b>4.</b>	<b>JULY</b>	<b>Unit Test I (Syllabus Chapter 2,3,4)</b>	<b>6. Work, Energy &amp; Power (continued)</b> <b>7. Systems of particles and Rotational Motion</b> <b>Practical-3:</b> To determine volume of an irregular lamina using a screw gauge. <b>Practical-4:</b> To find the radius of curvature of a spherical object using a spherometer. <b>Activity 2:</b> To determine the mass of a given body using a meter scale by principle of moments.
<b>5.</b>	<b>AUGUST</b>	<b>Practical Examination</b>	<b>8. Gravitation</b> <b>9.Mechanical Properties of Solids</b> <b>Practical-5:</b> To determine the young's modulus of elasticity of the material of a given wire. <b>Activity 3:</b> To plot a graph for a given set of data, with the proper choice of scales and error bar.
<b>6.</b>	<b>SEPTEMBER</b>	<b>Half Yearly Exam (Syllabus Chapter</b>	<b>10.Mechanical Properties of Fluids</b> <b>Practical-6:</b> To find the force constant of a helical spring by plotting a graph between load and

		2,3,4,5,6,7,8)	extension.
7.	OCTOBER		<b>11. Thermal properties of matter</b> <b>12. Thermodynamics</b> <b>Practical-7:</b> To study the relationship between the length of a given wire and tension for constant frequency using sonometer. <b>Activity 4:</b> To note the change in level of liquid in a container on heating and interpret the observations.
8.	NOVEMBER		<b>13. Kinetic Theory of Gases</b> <b>Practical-8:</b> To find the speed of sound in air at room temperature using a resonant tube by two resonance positions. <b>Activity 5:</b> To study the effect of load on depression of a suitably clamped metre scale loaded at (i) its end (ii) in the middle.
9.	DECEMBER	<b>Unit Test II</b> <b>(Syllabus Chapter 9,10,11)</b>	<b>14. Oscillations</b> <b>15. Waves</b> <b>Activity 6:</b> To observe the decrease in pressure with the increase in velocity of a fluid.
10.	JANUARY		<b>Revision for final exam (Full portion-chapter 2 to 15)</b>
11.	FEBRUARY	<b>Annual Practical Examination</b>	<b>Revision</b>
12.	MARCH	<b>Annual Examination</b> <b>(Syllabus Chapter 2,3,4,5,6,7,8, 9,10,11,12,13, 14,15)</b>	

**Computer Science (2024-25)**  
**CLASS- XI Code No. 083**

**1. Learning Outcomes**

Students should be able to:

- a) Develop basic computational thinking
- b) Explain and use data types
- c) Appreciate the notion of algorithms
- d) Develop a basic understanding of computer systems- architecture and operating

system

- e) Explain cyber ethics, cyber safety, and cybercrime
- f) Understand the value of technology in societies along with consideration of gender and disability issues.

## 2. Distribution of Marks

Unit No.	Unit Name	Marks	Periods	
			Theory	Practical
1	Computer Systems and Organisation	10	10	10
2	Computational Thinking and Programming -1	45	80	60
3	Society, Law, and Ethics	15	20	—
	<b>Total</b>	<b>70</b>	<b>110</b>	<b>70</b>

## 3. Unit wise Syllabus:-

### Unit 1: Computer Systems and Organisation

- 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)
- 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
- Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits
- Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems
- Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32)

### Unit 2: Computational Thinking and Programming - I

- Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition
- Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens( keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments
- Knowledge of data types: Number(integer, floating point, complex), boolean, sequence(string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.
- 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: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output.
- Errors- syntax errors, logical errors, and run-time errors
- Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow
- Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value,

sort 3 numbers and divisibility of a number.

- Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc.
- Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods—len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split()
- Lists: introduction, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/methods—len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: 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.
  - Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built-in functions/methods — len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple; suggested programs: 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.
- Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built-in functions/methods — len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted(); Suggested programs: 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.
- Introduction to Python modules: Importing module using ‘import <module>’ 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()).

### Unit 3: Society, Law and Ethics

- Digital Footprints
- Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes
- Data Protection: Intellectual property rights (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)
- Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying
- Cyber safety: safely browsing the web, identity protection, confidentiality
- Malware: viruses, trojans, adware
- E-waste management: proper disposal of used electronic gadgets.
- Information Technology Act (IT Act)
- Technology and society: Gender and disability issues while teaching and using computers

### 4. Practical

S.No.	Unit Name	Marks (Total=30)
1.	<b>Lab Test (12 marks)</b>	
	Python program (60% logic + 20% documentation + 20% code quality)	<b>12</b>
2.	<b>Report File + Viva (10 Marks)</b>	
	Report file: Minimum 20 Python programs	<b>7</b>
	Viva voce	<b>3</b>
3.	Project (that uses most of the concepts that have been learnt)	<b>8</b>

## 5. Suggested Practical List Python

### Programming

- Input a welcome message and display it.
- Input two numbers and display the larger / smaller number.
- Input three numbers and display the largest / smallest number.
- Generate the following patterns using nested loops:

Pattern-1	Pattern-2	Pattern-3
*	12345	A
**	1234	AB
***	123	ABC
****	12	ABCD
*****	1	ABCDE

- Write a program to input the value of x and n and print the sum of the following series:
  - $1 + x + x^2 + x^3 + x^4 + \dots + x^n$
  - $1 - x + x^2 - x^3 + x^4 - \dots + x^n$
  - $x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} + \dots + \frac{x^n}{n}$  —
  - $x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \dots + \frac{x^n}{n!}$  —
- Determine whether a number is a perfect number, an Armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.
- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.
- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list/tuple of elements, search for a given element in the list/tuple.
- Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75.

### 6. Suggested Reading Material

- NCERT Textbook for Computer Science (Class XI)
- Support Material on CBSE website