

**BHARATIYA VIDYA BHAVAN VIDYASHRAM, K.M. MUNSHI
MARG, JAIPUR**

SYLLABUS - 2022-2023

Class: XI

Subject: English Core

Prescribed Books - 1. Hornbill (NCERT)
2. Snapshots (NCERT)

Month	Name of the Topic	Learning Outcome By the end of the topic, students will be able to-
July	Hornbill: <ul style="list-style-type: none">• The Portrait of a Lady• A Photograph• We're Not Afraid to Die...if We Can All Be Together Snapshots: <ul style="list-style-type: none">• The Summer of the Beautiful White Horse Classified Advertisements: <ul style="list-style-type: none">• To-Let/Accommodation Wanted, Sale/Purchase, Situation Vacant/Wanted etc. Grammar: <ul style="list-style-type: none">• Tenses• Re-ordering of Sentences	<ul style="list-style-type: none">• Summarize the story in their own words.• Know more about Khushwant Singh, his writing style and major works.• Reconnect events in the story with real life incidents.• Recall the important points of the story through short answer type questions.• Write the character sketch of the grandmother.• Justify the title by writing a short note on it.• Infer the meaning of metaphorical statements in the story by explaining them in the notebook. Describe distinct literary characteristics of poetic forms• Analyse and extrapolate the ideas.• Identify the figures of speech used in the poem.• Understand the theme and flow of the text.• Learn about the different parts of the ship mentioned in the story.• Write the character sketch of the narrator.• Know more about important geopolitical locations.

		<ul style="list-style-type: none"> Recall the important points of the story through a questionnaire or a mind map. Write the character sketch of Uncle Khosrove and Mourad. Obtain, analyse and communicate information. Express ideas in an organized manner using appropriate language and format.
August	<p>Hornbill:</p> <ul style="list-style-type: none"> Discovering Tut: the Saga Continues The Laburnum Top <p>Snapshots:</p> <ul style="list-style-type: none"> The Address <p>Reading Comprehension:</p> <ul style="list-style-type: none"> Note Making <p>Writing Skill:</p> <ul style="list-style-type: none"> Debate Speech <p>Grammar:</p> <ul style="list-style-type: none"> Clauses Transformation of Sentences 	<ul style="list-style-type: none"> Explain Egyptian beliefs and traditions about the afterlife. Describe and retell the story of King Tut. Discuss how archaeologists work. Develop greater confidence and proficiency in the use of language skills necessary for social and academic purposes. Promote advanced language skills with an aim to develop the skills of reasoning, drawing inferences, etc. Inculcate values like courage, empathy, sensitivity, critical thinking and maintaining relations. Understand to forget the past and move ahead in life. Appreciate family members and family bonding and value all that we are blessed with. Realize the value of time and not to be upset with old memories. Develop the comprehension skill, analytical skill, language skill and thinking skill. Write coherently and respond imaginatively. Participate in critical conversations and prepare, organize and deliver ideas.
September	<p>Reading Comprehension:</p> <ul style="list-style-type: none"> Factual, descriptive and literary passage Case-based passage <p>Revision</p>	<ul style="list-style-type: none"> Enhance writing skill. Realise importance of reasoning, Learn to assess and analyse situations. Exchange ideas.
October	<p>Hornbill:</p> <ul style="list-style-type: none"> The Voice of the Rain Childhood The Adventure 	<ul style="list-style-type: none"> Understand the critical appreciation of the poem based on rhyme, content and theme. Identify the figures of speech used in the poem. Identify the social issues raised.

		<ul style="list-style-type: none"> • Learn to select correct interpretations and solutions to conceptual problems. • Enhance vocabulary. • Know how to take role play. • Learn how to display mannerism and attitude towards others.
November	Hornbill: <ul style="list-style-type: none"> • Silk Road Snapshots: <ul style="list-style-type: none"> • Mother's Day Creative Writing Skill: <ul style="list-style-type: none"> • Poster 	<ul style="list-style-type: none"> • Develop a sense of duty. • Not to indulge in criticism. • Inculcate values like care and concern to save environment. • Develop imaginative and analytical skills. • Realise the importance of saving natural resources. • Express effectively (both verbal and written form). • Know that mothers have equal rights to enjoy their lives and deserve acknowledgement and appreciation. • Strengthen the family bonding with sharing and solving problems. • Develop analytical skills, thinking skills, decision making, management skills, logical skills etc. • Identify and understand the central/main point and supporting details along with the phrases used in the lesson. • Imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance.
December	Hornbill: <ul style="list-style-type: none"> • Father to Son Snapshots: <ul style="list-style-type: none"> • Birth • The Tale of Melon City 	<ul style="list-style-type: none"> • Comprehend and appreciate poetry. • Learn new words. • Enhance understanding of literary devices. • Read with proper intonation and stress. • Read, compare, contrast, think critically and relate ideas to life. • Analyse using plays for their structure and meaning, correct terminology. • Understand the sense of duty. • Appreciate and accept the selfless service to mankind. • Realise and create a balance

		<p>between the knowledge gained and practical approach.</p> <ul style="list-style-type: none"> • Interpret that the story hinges on the theme - never say die attitude and the precious gift of life. • Become aware of different situations and dealing them well. • Realise that peace and liberty are the two strong factors for a state to flourish. • Able to understand that the rulers of the state should be judicious and sensitive to the needs of the people. • Understand that the ruler of the state must understand the problems and needs of the people. • Understand that the simplest way to maintain peace and liberty in a state is by following the principles of laissez-faire.
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SYLLABUS FOR PERIODIC TEST - 1

Literature:

- The Portrait of a Lady
- A Photograph
- The Summer of the Beautiful White Horse

Grammar:

- Tenses
- Re-ordering of Sentences

Creative Writing Skill:

- Classified Advertisement

SYLLABUS FOR TERM 1 / PERIODIC TEST – 2

Reading Comprehension:

- Factual, descriptive and literary passage
- Case-based passage
- Note Making

Literature:

- The Portrait of a Lady
- A Photograph
- We're Not Afraid to die...if we can All Be Together
- Discovering Tut: the Saga Continues
- The Laburnum Top
- The Summer of the Beautiful White Horse
- The Address

<p>Creative Writing Skills:</p> <ul style="list-style-type: none"> • Classified Advertisement • Speech • Debate <p>Grammar:</p> <ul style="list-style-type: none"> • Questions on Gap Filling (Tenses, Clauses) • Questions on re-ordering/ transformation of sentences
<p>SYLLABUS FOR PERIODIC TEST 3</p> <p>Reading Comprehension:</p> <ul style="list-style-type: none"> • Factual, descriptive or literary passage <p>Literature:</p> <ul style="list-style-type: none"> • The Voice of the Rain • The Adventure • Mother's Day <p>Creative Writing Skill:</p> <ul style="list-style-type: none"> • Poster <p>Grammar:</p> <ul style="list-style-type: none"> • Tenses • Clauses • Re-ordering / transformation of sentences
<p>Syllabus for Annual Examination Entire Syllabus</p>

Mathematics

Month	Chapter No. & Name	Learning outcomes
July 2022	9. Sequences and series 3. Trigonometric	<ul style="list-style-type: none"> • Students will be able to determine nth term / sum of n term of AP & GP • able to find the values of trigonometric ratios in all quadrants
August 2022	5. Complex numbers 6. Linear inequalities 7. Permutation & Combination	<ul style="list-style-type: none"> • Learn the concept of an imaginary number and will be able to find unreal roots of a quadratic equation. • able to solve algebraically and graphically • Learn the fundamental principle of counting and its applications
September 2022	7. Permutation & combination Continued. 8. Binomial Theorem	<ul style="list-style-type: none"> • Learn the expansion of BT using Pascal's triangle

October 2022	10. Straight lines 11. Conic Sections	<ul style="list-style-type: none"> Learn the concept of slope of a line and various forms of equations of line Know the Conic Section and their standard equations / applications
November 2022	11. Conic Sections continued 12. 3 D Geometry 13. Limits & Derivatives	<ul style="list-style-type: none"> Learn the concept of 3D Geometry distance and section formula in 3D Understand derivatives as rate of change of a quantity wrt. other quantity
December 2022	15. Statistics 1. Sets 2. Relation & Function	<ul style="list-style-type: none"> Learn to calculate mean and standard deviations Learn the representation of sets and concept of Relations & Function
January 2023	16. Probability	<ul style="list-style-type: none"> Learn to find the probability of various events.
February 2023	Revision ANNUAL EXAMINATION	

PT-1	:	Chapter 3 and 9
Half yearly Exam	:	Chapters 3, 5, 6, 7, 8 and 9
PT-2	:	Chapters 10, 11, 12, 13
ANNUAL EXAM	:	Complete syllabus

POLITICAL SCIENCE

MONTH	BOOK	CHAPTER NAME/ Content	LEARNING OUTCOME
JULY	Book-1	Ch-1- Constitution Why and How	-what a constitution means; what a constitution does to the society; how constitutions govern the allocation of power in society; and what was the way in which the Constitution of India was made.
	Book-2	Ch-1- Political Theory- An introduction	- Political theory examines questions of this kind and systematically thinks about the values that inform political life — values such as freedom, equality and justice. It explains the meaning and significance of these and other related concepts. It clarifies the existing definitions of these concepts by focusing on some major political thinkers of the past and present
AUGUST	Book-1	Ch-2- Elections and Representation	- different methods of election; the characteristics of the system of election adopted in our country; the importance of the provisions for free and fair elections; and the debate on electoral reforms.
		Ch-3- The Legislature	- the importance of the legislature; the functions and powers of the Parliament of India; the law making procedure; how the Parliament controls the executive; and how the Parliament regulates itself

	Book-2	Ch- 2- Liberty/Freedom	- Understand the importance of freedom for individuals and societies, will learn the difference between the negative and positive dimensions of freedom, what is meant by the term 'harm principle'
SEPTEMBER	Book -2	Ch-3- Equality	- What is equality? Why should we be concerned about this moral and political ideal? Does the pursuit of equality involve treating everyone the same way in every condition?
	Book -1	Ch-4- The Executive (REVISION)	- make a distinction between the parliamentary and the presidential executive; understand the constitutional position of the President of India; know the composition and functioning of the Council of Ministers and the importance of the Prime Minister; and understand the importance and functioning of the administrative machinery. that a fair and just society would be in the interest of all members and could be defended on rational grounds.
OCTOBER	Book-2	Ch-4- Justice	- Identify some of the principles of justice which have been put forward in different societies and at different periods of time. Explain what is meant by distributive justice. Discuss John Rawls' argument
		Ch-5 Rights	- What do we mean when we speak of rights? What is the basis on which rights are claimed? What purpose do rights serve and, why are they so important
NOVEMBER	Book-1	Ch-5- Judiciary	- the meaning of independence of judiciary; the role of Indian Judiciary in protecting our rights; the role of the Judiciary in interpreting the Constitution; and the relationship between the Judiciary and the Parliament of India
	Book -2	Ch-6 Federalism	-what is Federalism; - the federal provisions in the Indian Constitution; - the issues involved in the relations between the centre and the States; and - the special provisions for certain States having a distinct composition and historical features
DECEMBER	Book-2	Ch -6 Citizenship	-Will apprise about the meaning of citizenship, - will discuss some of the areas in which the meaning is being expanded or challenged today.
JANUARY	Book-1	Ch – 7 Local Governments	- the importance of local government bodies; the provisions made by the 73rd and 74th amendments; and functions and responsibilities of the local government bodies
	Book-2	Ch -7 Nationalism	-understand the concepts of nation and nationalism. - acknowledge the strengths and limitations of

			nationalism. - appreciate the need for ensuring a link between democracy and nationalism.
FEBRUARY	Book-2	Ch-8 Secularism	-What is the meaning of secularism? - Is secularism a western implant on Indian soil? - Is it suitable for societies where religion continues to exercise a strong influence on individual lives? - Does secularism show partiality? Does it 'pamper' minorities? - Is secularism anti-religious?

Syllabus for PT-1

Book -1	Ch-1 Constitution Why and How
Book -2	Ch – 1 Political Theory – An Introduction

Half – yearly/ Term -1 – Whole Term-1 syllabus / P2

Book -1	Ch-1 Constitution Why and How Ch – 2 Election and Representation Ch- 3 Legislature Ch-4 Executive
Book -2	Ch -1- Political Theory An Introduction Ch- 2 Liberty Ch – 3 Equality

Syllabus for PT -3

Book -2	Ch-4 Justice Ch-5 Rights
Book -1	Ch – 5 Judiciary Ch – 6 Federalism

Annual Examination- Whole Term-II syllabus

Book -1	Full Course
Book-2	Full Course

Economics

MONTH	MICRO-ECO	Learning Outcome/Activities
July	Section A: Unit 1: Introduction Ch-1. Statistics in economics Unit 2: Collection, Organisation & Presentation of data Ch-2. Collection of data Ch.-3 Census & Sample	MCQ's- Simple Complex Case study Practical examples from daily life
	Section B: Unit 4: Introduction Ch-1. Economics and economy Ch-2. Central Problems of an Economy Unit-5. Consumer's Equilibrium & Demand Ch.-3 Consumer's Equilibrium (Utility analysis)	MCQ's- Simple Complex Case study Flow charts
August	Section A: Unit 2: Ch-4. Organisation of data Unit.-3-Statistical Tools & Interpretation Ch.-9-Mean & Median Section B: Unit 2: Consumer's equilibrium & demand Ch.- 4 Consumer Equilibrium: To be continued Ch.-5 Theory of Demand Ch.-6 Elasticity of Demand	MCQ's- Simple Complex Case study Tabular, Graphical presentation Formulae for numericals

<p>September</p>	<p>Section A: Unit 3:Statistical tools and interpretation Ch.-10-Mode Section -B Unit 6:Production Function & Returns to a factor Ch-7 Production Function & Returns to a factor</p>	<p>MCQ's- Simple Complex Case study Diagrams</p>
<p>OCTOBER</p>	<p>Section A: Unit 3: Ch- 11- Measures of Correlation Section B: Unit 6: CH-8-Cost Ch- 9 –Revenue Ch- 10 –Producer's Equilibrium Ch- 11 -Supply</p>	<p>Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.</p>
<p>NOVEMBER</p>	<p>Section A: Unit 3: Chapter 11:—Correlation(To be continued) Project- part-2 Section B: Unit 7: Forms of market & Price determination under Perfect competition Ch-12 Forms of Market Ch-13 Market Equilibrium</p>	<p>Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.</p>
<p>DECEMBER</p>	<p>Section A: Unit 3: Ch-11.—Correlation (Continues)... Ch-12. Index-numbers Section B: Unit -7 CH.-13- Market Equilibrium .(To be continued)</p>	<p>Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.</p>

JANUARY	Section A: Unit 3: Ch-13. Index Numbers(To be continued..) Unit-2 Presentation of data Section B: Unit -7 Ch-13(To be continued)	Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.
February	Revision of full syllabus	

Periodic test-1

Statistics (Section A) - Unit 1: Introduction

Economics Chapter 1- Concept of Economics & Significance of Statistics in

Unit-2 Collection, Organisation and Presentation of data
 Chapter 2- Collection of Data

Micro Economics (Section B)- Unit 4: Introduction

Chapter 1- Economics & Economy
 Chapter 2- Central Problems of an Economy

Periodic test-2/ Half Yearly

Section A- Unit 1, Unit 2: Collection, Organisation & Presentation of data

Chapter-2, Chapter: 3 : Census & Sampling methods, Chapter-4: Organisation of data

Unit 3: Statistical Tools & Interpretation
 Ch.-9,10 (Mean & Median)

Section B- Unit 5: Consumer's Equilibrium & Demand

Chapter-3: Consumer's Equilibrium-Utility analysis
 Chapter-4: Consumer's Equilibrium- Indifference curve analysis

Periodic test-3

Section A: Unit 3: Statistical Tools & Interpretation

Chapter-11: Measures Of Correlation

Section B: Unit 6: Production behaviour & Supply

Chapter-11-Theory of Supply

Final- Complete Syllabus

History

Month	Chapter	Activity	Learning Outcome
July	Chapter-2 Writing and City Life Chapter-3 An Empire across three continents	<ul style="list-style-type: none"> On the map of West Asia mark and locate any five centers related to Mesopotamian Civilization. On the map of Europe and North Africa mark and locate important towns of Roman civilization 	<ul style="list-style-type: none"> Discuss the nature of early urban centers and whether writing is significant. Familiarise with the history of a major world Empire.
August	Chapter-5 Nomadic Empires	<ul style="list-style-type: none"> Map on the Mongol Empire (Byzantine Empire, Merv, Bukhara , Nishapur & Samarkand) 	<ul style="list-style-type: none"> Discuss the varieties of Nomadic societies and their institutions.
September	Chapter-6 The Three Orders	<ul style="list-style-type: none"> Map of Europe (regions in which feudalism emerged) 	<ul style="list-style-type: none"> Familiarize with the nature of the economy and society of this period and the changes within them
October	Chapter-7 Changing Cultural Traditions	<ul style="list-style-type: none"> Map of Europe (Renaissance in Italian cities) 	<ul style="list-style-type: none"> Explore the intellectual trends in the period and introduce the debate around the idea of Renaissance.
November	Chapter-7 Changing Cultural Traditions (To be continued) Chapter-10 Displacing Indigenous Peoples	<ul style="list-style-type: none"> On the map of Australia mark and locate the following: Canberra, Perth, Adelaide, Sydney, Melbourne, Indian ocean, Pacific Ocean, Southern Ocean 	<ul style="list-style-type: none"> Sensitize students to the process of displacement that accompanied the development of America and Australia and understand its implications for the displaced populations.
December	Chapter-11 Paths to Modernisation	<ul style="list-style-type: none"> Map of East Asia (Japanese territories) (Manchuria, North Korea, South Korea, Kyoto & Shanghai) 	<ul style="list-style-type: none"> Make students aware that transformation in the modern world takes many different forms. Show how notions like modernization need to be critically assessed.
January	Chapter-11 Paths to Modernisation (To be continued)		
February	REVISION		

Syllabus for periodic test 1 - Chapter-2 & 3

Syllabus for periodic test 2/ Term 1 Examination - Chapter-2, 3, 5 & 6

Syllabus for periodic test 3 - Chapter-7 & 10

Syllabus for Annual Examination - Complete syllabus

Optional Subject

Artificial Intelligence

Text Book :

1. Employability Skill Recommended by NCERT
2. AI Material by CBSE

Month	Name of the Topics	Learning Outcome
July	Unit 1: Introduction (knowledge)	Knowledge – Define AI and ML Comprehension – What are the AI products/ applications in society and how are they different from non-AI products/ applications? Evaluation – What kind of jobs may appear in the future?
	Unit 6: Critical and Creative thinking (Skills)	Skill – Understanding the problem and being able to express the same Creativity – To be able to develop/innovate from design a solution
	Unit 1: Communication Skills-III	Skill- enhance the communication skill
August	Unit 2: AI Applications and Methodologies (Introduction) (Knowledge)	Knowledge – Where can AI be applied (like in the field of Computer vision, Speech, Text, etc.), What is deep learning? Comprehension – How AI will impact our society Analysis – How should we get ready for the AI age (future)
	Unit 3: Maths for AI (Recap) (Knowledge)	Comprehension – Linear Algebra, Statistics, Basics of Graphs and Set theory Application – Application of Math in AI Synthesis – Representing data in term of mathematical formula
	Unit 2: Self-management Skills-III	Skill- enhance the management skill
September	Unit 2: AI Applications and Methodologies (Introduction) (Knowledge)	Knowledge – Where can AI be applied (like in the field of Computer vision, Speech, Text, etc.), What is deep learning? Comprehension – How AI will impact our society Analysis – How should we get ready for the AI age (future)
	Unit 2: Self-management Skills-III	Skill- enhance the management skill
	Revision	
October	Unit 4: AI Values (Ethical decision making) (Values)	Knowledge – Ethics, Bias, Impacts of bias on society Application – Spot issue in data, Make arguments, Apply rules
	Unit 7: Data Analysis (Computational thinking) (Skills)	Knowledge – Types of structured data, statistical principals – frequency tables, mean, median, mode, range, etc. Application – Representing data in terms of graphs, statistical models Synthesis – To be able to represent a simple problem in terms of numbers
	Unit 3: Information and Communication Technology Skills-III	Skill- enhance the Information and Communication Technology skill
November	Unit 5: Introduction to story telling (Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application- Helping in creating blogs, videos, and other content.
	Unit 7: Data Analysis	Knowledge – Types of structured data, statistical principals –

	(Computational thinking) (Skills)	frequency tables, mean, median, mode, range, etc. Application – Representing data in terms of graphs, statistical models Synthesis – To be able to represent a simple problem in terms of numbers
	Unit 3: Information and Communication Technology Skills-III	Skill- enhance the Information and Communication Technology skill
December	Unit 5: Introduction to story telling (Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application- Helping in creating blogs, videos, and other content.
	Unit 8: Regression (Knowledge)	Knowledge – Correlations, Regression, and other related terms Applications – Being able to relate data with regression and correlation. Everyday applications of these mathematical concepts.
	4. Unit 4: Entrepreneurial Skills-III	Skill- enhance the Entrepreneurial skill
January	Unit 5: Introduction to story telling (Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application- Helping in creating blogs, videos, and other content.
	Unit 9: Classification & Clustering (Knowledge)	Knowledge – What is classification and its types, what kind of problems may be placed under the category of a classification problem Applications – Where to apply classification principals Analysis – Impact of the application of incorrect algorithms on society
	Unit 8: Regression (Knowledge)	Knowledge – Correlations, Regression, and other related terms Applications – Being able to relate data with regression and correlation. Everyday applications of these mathematical concepts.
	4. Unit 4: Entrepreneurial Skills-III	Skill- enhance the Entrepreneurial skill
Feburary	Unit 9: Classification & Clustering (Knowledge)	Knowledge – What is classification and its types, what kind of problems may be placed under the category of a classification problem Applications – Where to apply classification principals Analysis – Impact of the application of incorrect algorithms on society
	Unit 10: AI Values (Bias awareness) (Values) Evaluation – Biases in data, how	Knowledge – What is ethics, Impact of ethics on society, the impact of bias on AI functioning (Values) Evaluation – Biases in data, how to de-bias or neutralize the biased data Application – Finding bias in acquired dataset
	Unit 5: Green Skills-III	Skill- enhance the Green skill

Periodic Test 1 :

Part A:

Unit 1 : Communication Skills-III

Part B:

Unit 1: Introduction To AI

Half Yearly Theory Examination

Part A:

Unit 1 : Communication Skills-III

Unit 2 : Self-Management Skills-III

Part B:

Unit 1: Introduction To AI

Unit 2: AI Applications & Methodologies

Half Yearly Practical Examination

Unit 3: Maths For AI

Unit 6: Critical & Creative Thinking

Periodic Test 3 :

Part A:

Unit 3 : ICT Skills-III

Part B:

Unit 4: AI Values (Ethical Decision Making)

Annual Exam (Theory)

Part A:

Unit 1 : Communication Skills-III

Unit 2 : Self-Management Skills-III

Unit 3 : ICT Skills-III

Unit 4 : Entrepreneurial Skills-III

Unit 5 : Green Skills-III

Part B:

Unit 1: Introduction To AI

Unit 2: AI Applications & Methodologies

Unit 4: AI Values (Ethical Decision Making)

Unit 5: Introduction To Storytelling

Unit 9: Classification & Clustering

Annual Exam (Practical)

Unit 3: Maths For AI

Unit 6: Critical & Creative Thinking

Unit 7: Data Analysis (Computational Thinking)

Unit 8: Regression

Unit 10: AI Values (Bias Awareness)

Informatics Practices

Month	Name of the Topics	Learning Outcome
July	<p>Unit 1: Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices.</p> <p>Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.</p> <p>Software: purpose and types – system and application software, generic and specific purpose software.</p> <p>Unit 2: Introduction to Python</p> <p>Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion, debugging,</p>	<p>Ability to identify the functionality of various hardware components of Computer System and category of various software available and their usage.</p> <p>Ability to develop & debug application using simple python.</p>
August	<p>Unit 2: control statements: if-else, for loop. Introduction to Python Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions. Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()</p> <p>Periodic Test 1</p>	<p>Ability to develop application using conditional statement, Lists and Dictionaries.</p> <p>Recall topics done.</p>
Sept.	<p>Half Yearly Exam</p> <p>Theory and Practical</p>	<p>Recall topics done.</p>
October	<p>Unit 4 : Database concepts and the Structured Query Language: (Database concepts and Relational data model: Concept of a database, relations, attributes and tuples, keys) Introduction to SQL, data types in MySQL.</p>	<p>Ability to identify various components of a DBMS.</p> <p>Ability to create database, store data using MySQL.</p>
November	<p>Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute). Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical, relational operators and NULL values in queries, Distinct clause Data Manipulation Commands: INSERT, UPDATE, DELETE.</p>	<p>Ability to manipulate data stored in databases.</p>
December	<p>Unit 5: Introduction to the Emerging Trends</p> <p>Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.</p>	<p>Ability to identify the Emerging trends in the fields of Information Technology and their applications.</p>
Jan .	<p>Periodic Test 2</p> <p>Revision</p>	<p>Recall topics done.</p>
Feb.	<p>Annual Examination (Practical & Theory)</p>	<p>Recall topics done.</p>

Syllabus for P1	Chapter 1
Syllabus for Half Yearly Exam	Chapter 1, 3, 4
Syllabus for P3	Chapter 7
Syllabus for Annual Exam	Chapter 1,2, 3,4,7, 8

FINE ARTS-PAINTING (THEORY)

Month	Name of the Topic	Activity	Learning Outcome
May, June and July	An introduction to Art Fundamentals of Art	Identify the Colours Make the Colour Wheel	A Theory (History of Indian Art) The objective of including the History of Indian Art for the students is to familiarize them with the various styles and modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life. The students will also have an opportunity to observe and study the evolution of its mutations and synthesis with other style and the rise of an altogether new style. The students should be made aware of art as a human experience. The teachers should be able to expose them to the wide range of artistic impressions, the media and the tools used. The history of Indian art is a long one. Hence the students would be acquainted with brief glimpses of the development of Indian visual art as are required for concept formation. Examples included in the course of study are selected because of their aesthetic qualities and are intended purely as guidelines.
August	Pre-Historic Rock Paintings and Art of Indus Valley (2500 B.C TO 1500B.C)	Identify the Picture of different Art Styles	
September	Buddhist, Jain, and Hindu Art (3 rd Century B.C to 8 th Century A.D)	Develop PPT	
October	Introduction to Ajanta Study of Paintings and Sculptures of Ajanta Caves	To document difference between Painting & Sculpture	
November	Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture)	Develop Charts	
December	Study of Temple Sculpture (7 th , 8 th and 9 th Century A.D)	Identify the Picture of Different Art Styles	
January	Study of Temple Sculpture (10 th -13 th Century A.D) Indian Bronzes	Develop PPT	
February	Artistic Aspects of Indo-Islamic Architecture	Identify the Picture of different Art Styles	

Term Wise Syllabus Painting Class 11

Syllabus for P1:	An introduction to Art Pre-Historic Rock Paintings And Art of Indus Valley (2500 B.C to 1500 B.C)
Syllabus for P2/ Term 1 Exam	Buddhist, Jain and Hindu Art (3 rd Century B.C to 8 th Century A.D) Introduction to Ajanta, Study of Paintings and Sculptures of Ajanta Caves
Syllabus for P3:	Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture(6 th to 13 th Century A.D)
Syllabus for Annual Exam	Complete Syllabus

Subject: FINE ARTS-PAINTING (Practical) Class 11th

Month	Name of the Topic
July	Nature and Object Study
August	Nature and Object Study
September	Nature and Object Study
October	Painting-Composition
November	Painting-Composition

December	Painting-Composition
January	Portfolio Assessment
February	Portfolio Assessment

Physical Education

MONTH	NAME OF THE TOPIC
JULY	Unit I Changing Trends & Career in Physical Education Unit II Olympism
AUGUST	Unit III Yoga
SEPTEMBER	Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang)
OCTOBER	Unit V Physical Fitness, Health and Wellness
NOVEMBER	Unit VI Test, Measurement & Evaluation
DECEMBER	Unit VII Fundamentals of Anatomy, Physiology in Sports
JANUARY	Unit VIII Fundamentals of Kinesiology and Biomechanics in Sports Unit IX Psychology & Sports
FEBRUARY	Unit X Training and Doping in Sports

Syllabus for P1:

Unit I Changing Trends & Career in Physical Education
Unit II Olympism

Syllabus for P2 / Term-1:

Unit I Changing Trends & Career in Physical Education
Unit II Olympism
Unit III Yoga

Syllabus for P3:

Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang)
Unit V Physical Fitness, Health and Wellness

Syllabus for Annual Exam:

complete syllabus

PSYCHOLOGY

Month	Chapter	Activity	Learning Outcome
July	Ch – 1. Introduction to Psychology Ch – 2. Methods in Psychology	Activity of Misconceptions of Psychology Activity on Survey Method	Ch-1. Interest in the new subject is generated and the basic content of the discipline is known Ch-2. The challenging subject content requires various types of methods to study it. These methods will become familiar
August	Ch – 4. Human Development . <u>Practical Project work to be given in the festive break</u>	Activity on Different stages of life	Ch-4. Human development follows a definite pattern. Each stage of life has special developmental task as well as challenges. Each stage right from prenatal to old age will be understood.
September	Ch – 5. Sensory and Perceptual <u>Experiment No. 1:Mirror Drawing</u>	PTI on Visual Illusions, Attention Span	Ch-5. Students will learn how perception goes beyond sensation. Various factors influencing sensation perception and illusion will be clear.
October	Ch – 6. Learning <u>Experiment No. 2:(Span of attention)</u>	Activity on reinforcements used in daily life Activity on transfer of training	Ch-6. The concept of learning , various fundamental theories influencing it will be understood
November	Ch – 7. Memory	Memory Reconstruction activity, Anxiety Test	Ch-7. Students will learn about the various factors that influence our memory processes as well as forgetting
December	Ch – 8.Thinking	Activity on creativity	Various types of thinking will be grasped and the cognitive processes behind them will be understood.
January	Ch – 9. Motivation and Emotion	Role play on the various theories of motivation and emotion	Students will learn to enhance their positive emotions and manage their negative emotions in the real life

February	Revision		
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Syllabus for P1	Chapter No. 1 ,2
Syllabus for Half yearly Examination	Chapter Nos. 1 , 2 , 4
Syllabus for P3	Chapter Nos. 1 , 2 , 3 , 4 , 5 , 6,7
Syllabus for Annual Examination	Complete Syllabus (1,2,3,4,5,6,7 ,8,9)

HOME SCIENCE

Month	Name of the Topic	Activity	Learning outcome
July	1) Introduction – HEFS: evolution to the discipline and its Relevance to Quality of Life 2) UNIT-1 Understanding oneself Adolescence Chapter-2	Understanding oneself with reference to peers	<ul style="list-style-type: none"> They will know about the career opportunities of Home Science. The way to have healthy relationship within the family members and peer groups
August	Chapter -4,5 Chapter-4: Management of Resources Chapter-5: Fabrics Around us	Evaluation of adequacy of nutrition	<ul style="list-style-type: none"> The meaning and need for management To explain the concept of yarn and fabric making.
September	Revision		
October	Chapter-3,6,8 Chapter-3: Food , Nutrition , Health and Fitness Chapter-6: Media and Communication Technology Chapter-8: Living and Working in a Global Society	List and discuss 5 messages from print which have influenced own self	<ul style="list-style-type: none"> Understand the functions of food, nutrition, food preservation and health. Develop high values and ethics.
November	Unit-2 Understanding Family, Community and Society Chapter-10,11 Chapter-10: Concern and needs in diverse context Chapter-11: Survival Growth and Development	Observation of any 2 children of different families in the neighborhood	<ul style="list-style-type: none"> Equipped to face the challenges of the real life situations

December	Unit-3 Childhood Chapter-12,14,15 Chapter-12: Nutrition, Health and Well Being Chapter-15: health and wellness Chapter-14: Our Apparel	Documentation of a traditional textile art	<ul style="list-style-type: none"> Students will be able to describe the steps to promote good health and wellness. Students will learn about the importance of Textile Finishing.
January	Chapter-16,17 Chapter-16: Financial Management and Planning Chapter-17 : Care and Maintenance of Fabric	Study of labels on Food Fabric and apparels	<ul style="list-style-type: none"> They will understand the importance of saving and investment. They will learn the care of different fabric

Syllabus for P-1	Introduction Unit-1 - Chapter 2 and 4
Syllabus for P-2	Chapter-2,3,4,5

Applied Mathematics

Month		Chapter Name	Learning Outcomes: Students will be able to	Activity
July 2022		SEQUENCE AND SERIES Arithmetic Progression Geometric Progression Factorial Fundamental Principle of Counting PERMUTATION AND COMBINATION	Differentiate between sequence and series Determine general term of series in AP, Calculate sum of n terms of series. Determine general term of series in GP, Calculate sum of n terms. Solve problems based on relation between AM and GM. Define factorial of a number Calculate factorial of a number Apply the concept of permutation, circular permutation and combination with repetitions to solve problems.	Determine general term of series in GP, Calculate sum of n terms.

August 2022		<p>Binary Numbers Indices, Logarithm and Antilogarithm Laws and properties of logarithms Simple applications of logarithm and antilogarithm</p> <p>Averages Clock Calendar</p> <p>Time, Work and Distance Mensuration Seating arrangement</p> <p>Logical reasoning</p>	<p>Express decimal numbers in binary system Express binary numbers in decimal system Relate indices and logarithm /antilogarithm Find logarithm and antilogarithms of given number. Apply laws of logarithm. Use logarithm in different applications</p> <p>Determine average for a given data Evaluate the angular value of a minute</p> <ul style="list-style-type: none"> ● Calculate the angle formed between two hands of clock at given time ● Calculate the time for which hands of clock meet ● Determine Odd days in a month/ year/ century ● Decode the day for the given date. <p>Establish the relationship between work and time</p> <ul style="list-style-type: none"> ● Compare the work done by the individual / group w.r.t. time ● Calculate the time taken/ distance covered/ Work done from the given data ● Solve problems based on surface area and volume of 2D and 3D shapes ● Calculate the volume/ surface area for solid formed using two or more shapes <p>Create suitable seating plan/ draft as per given conditions (Linear/circular)</p> <ul style="list-style-type: none"> ● Locate the position of a person in a seating arrangement ● Solve logical problems involving odd man out, syllogism, blood relation and coding decoding 	
September 2022				

		<p>COORDINATE GEOMETRY</p> <p>STRAGHT LINE</p> <p>CIRCLES</p> <p>PARABOLA</p>	<p>Find Slope of line, Calculate angle between two lines. Use various forms of equation of line. Calculate distance between two parallel lines. Solve problems based on applications of circle. Use Application in parabolic reflector, beam supported by wires at the end of the support, girder of a railway bridge, etc.</p>	
OCTOBER 2021		<p>FUNCTION, LIMITS AND CONTINUITY</p> <p>DIFFERENTIATION</p>	<p>Define limit and continuity of a function. Solve problems based on the algebra of limits.</p> <p>Find the derivative of different types function.</p>	<p>Investigating Graphs of function for their properties.</p>
NOVEMBER 2021		<p>DESCRIPTIVE STATISTICS DATA ANAYLSIS</p> <p>DATA INTERPRETATION</p> <p>CORRELATION ANALYSIS</p>	<p>Collect and classify data on different scales of measurement.</p> <p>Calculate coefficient of Skewness and interpret. Percentile and Quartile rank of scores in a given data set.</p> <p>Emphasis on application, analysis and interpreting the result of coefficient of correlation using practical examples.</p>	<p>To analyze career graph of the cricketer (Batting / Bowling)</p>
DECEMBER 2021		<p>APPLICATION OF DESCRIPTIVE STATISTICS USING REAL TIME DATA</p> <p>FINANCIAL MATHEMATICS SIMPLE INTEREST</p> <p>COMPOUND INTEREST</p> <p>Annuity</p>	<p>Data Analysis using information through descriptive statistics.</p> <p>Interpret and Calculate simple interest and compound interest</p> <p>Apply the concepts of</p>	

			annuity in real life situations.	
JANUARY 2022		<p>TAXATION</p> <p>BILLS</p> <p>Probability Conditional Probability Total Probability Bayes' Theorem</p>	<p>Explain rules under State Goods and Service Tax (SGST) Central Goods and Service Tax (CGST) and Union Territory Goods and Service Tax (UTGST).</p> <p>To interpret and analyze electricity bills, water bills and other supply bills. Apply reasoning skills to solve problems based on conditional probability Solve problems based on application of total probability Solve practical problems based on Bayes' Theorem</p>	
FEBRUARY 2022		<p>Sets and Relations Venn diagrams</p> <p>Operations on sets</p>	<p>Solve problems using Venn diagram Perform operations on sets to solve practical problems Express relation as a subset of Cartesian product Find domain and range of a relation</p>	

Name of the Examination		Chapter Name
Periodic Test 1		SEQUENCE AND SERIES
Mid Term Exam		1.Sequence and Series 2.Pernutation and Combination 3. NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS. 4. Logical reasoning
Periodic Test III		1. Coordinate Geometry 2. Calculus