

Syllabus  
2021-2022  
CLASS XI-E

HUMANITIES

ENGLISH CORE

Month	Name of the Topics	Activity	Learning Outcome
July	<p><b>Hornbill:</b></p> <p><b>Prose</b></p> <ul style="list-style-type: none"> <li>• The Portrait of a Lady</li> <li>• We're Not Afraid to Die...if We Can All Be Together</li> </ul> <p><b>Poetry</b></p> <ul style="list-style-type: none"> <li>• A Photograph</li> </ul> <p><b>Snapshots:</b></p> <ul style="list-style-type: none"> <li>• The Summer of the Beautiful White Horse</li> </ul> <p>Notice writing Grammar :Determiner</p>		<ul style="list-style-type: none"> <li>• Identifying the main ideas in the text and making inferences based on information</li> <li>• Reading and comprehending extended texts</li> <li>• Describing distinct literary characteristics of poetic forms</li> <li>• Analysing and extrapolating the ideas</li> </ul>
August	<p><b>Hornbill:</b></p> <p><b>Prose</b></p> <ul style="list-style-type: none"> <li>• Discovering Tut: the Saga Continues</li> </ul> <p><b>Poetry</b></p> <ul style="list-style-type: none"> <li>• The Laburnum Top</li> </ul> <p><b>Snapshots:</b></p> <ul style="list-style-type: none"> <li>• The Address</li> <li>• Ranga's Marriage</li> </ul> <p>Letter of Complaint, Letter of Enquiry Grammar :Tenses</p>		<ul style="list-style-type: none"> <li>• Ability to obtain, analyse and communicate information</li> <li>• Expressing ideas in an organized manner using appropriate language and format</li> </ul>

<b>September</b>	<b>Hornbill:</b> <b>Prose</b> <ul style="list-style-type: none"> <li>Landscape of the Soul</li> </ul> Letter for Placing Order ,Speech Grammar :Re ordering of Sentences <b>Reading Comprehension</b>	<b>Speech</b>	<ul style="list-style-type: none"> <li>Ability to write coherently and respond imaginatively</li> <li>Participating in critical conversations and preparing, organizing and delivering ideas</li> </ul>
<b>October</b>	<b>Hornbill:</b> <b>Prose</b> <ul style="list-style-type: none"> <li>The Ailing Planet: The Green Movement's Role</li> <li>The Browning Version</li> </ul> <b>Poetry</b> <ul style="list-style-type: none"> <li>The Voice of the Rain</li> </ul> <b>Snapshots:</b> <ul style="list-style-type: none"> <li>Albert Einstein at School</li> </ul> Letter to the School/College Authorities, Debate Grammar : (Determiners, Tenses, Re-ordering of Sentences)	<b>Poster</b>	<ul style="list-style-type: none"> <li>Identifying the social issues raised</li> <li>Learning to select correct interpretations and solutions to conceptual problems</li> </ul>
<b>November</b>	<b>Hornbill:</b> <b>Poetry</b> <ul style="list-style-type: none"> <li>Childhood</li> </ul> <b>Snapshots:</b> <ul style="list-style-type: none"> <li>Mother's Day</li> </ul> Posters		<ul style="list-style-type: none"> <li>Reading, comparing, contrasting, thinking critically and relating ideas to life</li> <li>Analysing plays for their structure and meaning, using correct terminology</li> </ul>
<b>December</b>	<b>Hornbill:</b> <b>Prose</b> <ul style="list-style-type: none"> <li>Silk Road</li> </ul> <b>Snapshots:</b> <ul style="list-style-type: none"> <li>Birth</li> </ul> Reading Comprehension		<ul style="list-style-type: none"> <li>Developing greater confidence and proficiency in the use of language skills</li> </ul>

<b>SECTION</b>	<b>TERM I</b>	<b>WEIGHT AGE (IN MARKS)</b>	<b>TERM II</b>	<b>WEIGHTAGE (IN MARKS)</b>
<b>A</b>	<b>Reading Comprehension:</b> <ul style="list-style-type: none"> <li>Unseen passage (factual, descriptive or</li> </ul>	<b>8 +</b>	<b>Reading Comprehension:</b> <ul style="list-style-type: none"> <li>Unseen passage (factual, descriptive</li> </ul>	<b>8 +</b>

	literary/ discursive or persuasive) <ul style="list-style-type: none"> <li>Case Based Unseen(Factual) Passage</li> </ul>	5 = 13	or literary /discursive or persuasive) <ul style="list-style-type: none"> <li>Unseen passage for Note Making and Summarizing</li> </ul>	5 = 13
<b>B</b>	<b>Creative Writing Skills and Grammar:</b>  <u>Short Writing Tasks</u> <ul style="list-style-type: none"> <li>Notice Writing</li> </ul> <u>Long Writing Tasks</u> <ul style="list-style-type: none"> <li>Business or Official Letters (Making enquiries, registering complaints, asking for or giving information, placing orders and sending replies)</li> <li>Speech</li> </ul> <u>Grammar</u> <ul style="list-style-type: none"> <li>Determiners</li> <li>Tenses</li> <li>Re-ordering of Sentences</li> </ul> <b>{MCQs on Gap filling/ Transformation of Sentences}</b>	3 + 5 + 4 = 12	<b>Creative Writing Skills and Grammar:</b>  <u>Short Writing Tasks</u> <input type="checkbox"/> Posters  <u>Long Writing Tasks</u> <ul style="list-style-type: none"> <li>Official Letters: e.g., to school/college authorities (regarding admissions, school issues, requirements / suitability of courses)</li> <li>Debate</li> </ul> <u>Grammar</u> <input type="checkbox"/> Determiners <input type="checkbox"/> Tenses <input type="checkbox"/> Re-ordering of Sentences  <b>{MCQs on Gap filling/ Transformation of Sentences}</b>	3 + 5 + 4 = 12
<b>C</b>	<b>Literature:</b> Literary-prose/poetry extracts (seen- texts) comprehension and appreciation. <b>(Two Extracts)</b> <b>Questions Based on Texts to assess</b> comprehension and appreciation, analysis, inference, extrapolation <u>Book-Hornbill:</u> <ul style="list-style-type: none"> <li>The Portrait of a Lady (<i>Prose</i>)</li> <li>A Photograph (<i>Poem</i>)</li> <li>"We're Not Afraid to Die... if We Can All Be Together" (<i>Prose</i>)</li> <li>Discovering Tut: The Saga Continues</li> <li>The Laburnum</li> </ul>	<b>9 Marks for Hornbill +6</b>  <b>Marks for Snapshots = 15 Marks</b>	<b>Literature:</b> Questions based on extracts/texts to assess comprehension and appreciation, analysis, inference, extrapolation  <u>Book-Hornbill:</u> <ul style="list-style-type: none"> <li>The Voice of the Rain (<i>Poem</i>)</li> <li>The Ailing Planet: The Green Movement's Role (<i>Prose</i>)</li> <li>The Browning Version (<i>Play</i>)</li> <li>Childhood (<i>Poem</i>)</li> </ul>	<b>9 Marks for Hornbill +6</b>  <b>Marks for Snapshots = 15 Marks</b>

	<ul style="list-style-type: none"> <li>Top(<i>Poem</i>)</li> <li>Landscape of the Soul(<i>Prose</i>)</li> </ul> <p><b><u>Book-Snapshots:</u></b></p> <ul style="list-style-type: none"> <li>The Summer of the Beautiful White Horse (<i>Prose</i>)</li> <li>The Address(<i>Prose</i>)</li> <li>Ranga's Marriage(<i>Prose</i>)</li> </ul>		<ul style="list-style-type: none"> <li>Silk Road(<i>Prose</i>)</li> </ul> <p><b><u>Book-Snapshots:</u></b></p> <ul style="list-style-type: none"> <li>Albert Einstein at School(<i>Prose</i>)</li> <li>Mother's Day(<i>Play</i>)</li> <li>Birth (<i>Prose</i>)</li> </ul>	
	<b>TOTAL</b>	<b>40</b>	<b>TOTAL</b>	<b>40</b>
	<b>ASL</b>	<b>10</b>	<b>ASL</b>	<b>10</b>
	<b>GRAND TOTAL</b>	<b>40 + 10 = 50 MARKS</b>	<b>GRAND TOTAL</b>	<b>40 + 10 = 50 MARKS</b>

### **SYLLABUS FOR PERIODIC TEST 2**

#### **Hornbill**

##### **Prose**

- Discovering Tut: The Saga Continues

##### **Poetry**

- The Laburnum Top

##### **Snapshots**

- The Address

### **WRITING SKILLS**

Letter of Complaint, Letter of Enquiry

### **GRAMMAR**

Determiners Tenses ,Re ordering of Sentences

### **READING COMPREHENSION**

### **SYLLABUS FOR PERIODIC TEST 3**

#### **Hornbill:**

##### **Prose**

- The Ailing Planet: The Green Movement's Role

## **Poetry**

- The Voice of the Rain

## **Snapshots:**

- Albert Einstein at School

**WRITING SKILLS:** Letter to the School/College Authorities, Debate

**GRAMMAR:** Determiners, Tenses, Re ordering of sentences

**READING COMPREHENSION**

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**ECONOMICS**

<b>MONTH</b>	<b>MICRO-ECO</b>	<b>Learning Outcome/Activities</b>
<b>May / June</b>	Section B: Unit 1: Introduction Ch-1. Economics and economy Ch-2. Central Problems of an Economy	MCQ's- Simple Complex Case study
<b>July</b>	Section A: Unit 1: Introduction Ch-1. Statistics in economics Unit 2: Collection, Organisation & Presentation of data Ch-2. Collection of data	MCQ's- Simple Complex Case study
<b>August</b>	Section B: Unit 2: Consumer's equilibrium & demand Ch-3, 4 Consumer Equilibrium (utility analysis & Indifference Curve Analysis)  August: Section A: Unit 2: Ch-3. Census & Sample method Ch-4. Organisation of data  September Sec A: Unit 2: Ch-5. Tabular presentation   Project ( part-1)	MCQ's- Simple Complex Case study

<b>September</b>	<p>Section -B</p> <p>Unit 5:</p> <p>Ch-5 Theory of Demand</p> <p>Ch-6 Price Elasticity of Demand</p>	<p>MCQ's-</p> <p>Simple</p> <p>Complex</p> <p>Case study</p>
	<p>Unit 6: Production Function &amp; Returns to a factor</p> <p>Ch-7 Production Function &amp; Returns to a factor (To be continued)</p> <p>Section A:</p> <p>Unit 2:</p> <p>Ch-6. Bar &amp; Pie diagrams</p> <p>Unit 2:</p> <p>Ch-7. Histogram, Polygon, Ogive</p> <p>Ch-8. Line &amp; Time series graphs</p> <p>Unit 3: Statistical tools and interpretation</p> <p>Ch- 9 : Mean &amp; Median</p> <p>Ch-10: Mode</p>	
<b>OCTOBER</b>	<p>Section B:</p> <p>Unit 6:</p> <p>CH-7-Continues</p>	<p>Focus on Practical examples, formulae &amp; equations from the point of view of objective type questions.</p> <p>Subjective</p> <p>Detailed Long question answers shall be undertaken.</p>

<p><b>NOVEMBER</b></p>	<p>Section B:</p> <p>Unit 6:</p> <p>Ch-8 Cost concepts</p> <p>Ch-9 Revenue concepts</p> <p>Ch-10 Theory of Supply</p> <p>Unit 7: Forms of market &amp; Price determination under Perfect competition</p> <p>Ch-11 Forms of Market</p> <p>Section A:</p> <p>Unit 3:</p> <p>Chapter 11: Measures of dispersion—To be continued</p> <p>Project- part-2</p>	<p>Focus on Practical examples, formulae &amp; equations from the point of view of objective type questions.</p> <p>Subjective</p> <p>Detailed Long question answers shall be undertaken.</p>
<p><b>DECEMBER</b></p>	<p>Section B:</p> <p>Unit -7</p> <p>Ch-11 Forms of Market(contd...)</p> <p>CH-12 Market Equilibrium of Perfect Competition..(To be continued)</p> <p>Section A:</p> <p>Unit 3:</p> <p>Ch-11. Measures of dispersion —Continues...</p> <p>Ch-12. Correlation</p>	<p>Focus on Practical examples, formulae &amp; equations from the point of view of objective type questions.</p> <p>Subjective</p> <p>Detailed Long question answers shall be undertaken.</p>



<b>JANUARY</b>	Unit -7 Ch-12 Continues...  Section A: Unit 3: Ch-13. Index Numbers(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.
<b>February</b>	Ch.-13 continues..Revision of full syllabus	

### TERM-1

Periodic test-1

#### Statistics (Section A) -

Unit 1: Introduction: Chapter 1- Concept of Economics & Significance of Statistics in Economics  
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

Section A:

Unit 2- Collection, Organisation & Presentation of data

•chapter-4: Organisation of data

Section B:

Unit 5: Consumer's Equilibrium & Demand

•Chapter-3: Consumer's Equilibrium-Utility analysis

•Chapter-4: Consumer's Equilibrium- Indifference curve analysis

Half yearly-

Section A:

Unit-1; Unit-2 & Unit-3( ch-9&10)

Section B:

Unit-4 & Unit -5

### TERM-2

Periodic test-3

Section A:

Unit 3: Statistical Tools & Interpretation

•Chapter-11: Measures of dispersion

Section B:

Unit 6: Production behaviour & Supply

•Chapter-7: Production function

Final-

Section-A:

Unit 3-Measures of dispersion, Correlation and Index numbers

Section B:

Unit-6 & Unit-7

**ECONOMICS (Code No. 030)  
(2021-22)**

**CLASS XI - TERM-WISE CURRICULUM**

<b>Units</b>	<b>TERM 1 - MCQ BASED QUESTION PAPER</b> <b>Theory: 40 Marks</b> <b>Time: 90 Minutes</b>	<b>Marks</b>
<b>Part A</b>	<b>Statistics for Economics</b>	
Unit 1	Introduction	4
Unit 2	Collection, Organisation and Presentation of Data	9
Unit 3	Statistical Tools and Interpretation – Arithmetic Mean, Median and Mode	10
	<b>Sub Total</b>	<b>23</b>
<b>Part B</b>	<b>Introductory Microeconomics</b>	
Unit 4	Introduction	4
Unit 5	Consumer's Equilibrium and Demand	13
	<b>Sub Total</b>	<b>17</b>
	<b>Total</b>	<b>40 marks</b>
<b>Part C</b>	<b>Project Work (Part 1): 10 Marks</b>	

**TERM-I PROJECT WORK (Part 1): 10Marks**

Action plan:

<b>Month</b>	<b>Periodic Work</b>	<b>Assessment Rubrics</b>	<b>Marks</b>
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1-3 July- September	Instructions about Project Guidelines, Background reading Discussions on Theme and Selection of the Final Topic, Initiation/ Synopsis	Introduction, Statement of Purpose/Need and Objective of the Study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Key Words, Methodology, Questionnaire, Data Collection.	5
4-5 October- November	Planning and organisation: forming an action plan, feasibility or baseline study, Updating/modifying the action plan, Data Collection	Significance and relevance of the topic; challenges encountered while conducting the research.	5
October- November	<b>Mid-term Assessment by internal examiner</b>		<b>10</b>

<b>Units</b>	<b>TERM2- SUBJECTIVE QUESTION PAPER</b> <b>Theory: 40 Marks</b> <b>Time: 2 Hours</b>	<b>Marks</b>
<b>Part A</b>	<b>Statistics for Economics</b>	
Unit 3	Statistical Tools and Interpretation – Measures of Dispersion, Correlation, Index Number	17
	<b>Sub</b>	<b>17</b>
	<b>Total</b>	
<b>Part B</b>	<b>Introductory Microeconomics</b>	
Unit 6	Producer Behaviour and Supply	13
Unit 7	Forms of Market and Price Determination under perfect competition with simple applications	10
	<b>Sub Total</b>	<b>23</b>
	<b>Total</b>	<b>40 marks</b>
<b>Part C</b>	<b>Project Work (Part 2): 10 Marks</b>	

**TERM- II - PROJECT WORK (Part 2): 10 Marks**

Action plan:

<b>Month</b>	<b>Periodic Work</b>	<b>Assessment Rubrics</b>	<b>Marks</b>
6-7 December- January	Content/data analysis and interpretation.  Conclusion, Limitations, Suggestions, Bibliography, Annexures and Overall Presentation of the project.	Content analysis and its relevance in the current scenario.  Conclusion, Limitations, Bibliography, Annexures and Overall Presentation.	5
8 January/ February	<b>Final Assessment and VIVA</b>	External/ Internal Viva based on the project	5
		TOTAL	10

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## HISTORY

### MONTHWISE SPLIT

Month	Chapters	Learning Outcome
May	Ch -2 Writing and City Life	Familiarize the learner with the nature of early urban centres.
July	Ch -3 An Empire across three Continents	Familiarize the learner with the history of a major world Empire.
August	Ch -4 The Central Islamic Lands	Understand what the Crusades meant in these regions and its effects.
September	Ch -6 The Three Orders	Familiarize the learner with the nature of the economy and society of this period and the changes within them.
October	Ch -7 Changing cultural traditions REVISION	Explore the intellectual trends in the period.
November	Ch -9 The Industrial Revolution	Initiate students to the debate on the idea of industrial revolution.
December	Ch -10 Displacing indigenous peoples	Sensitise students to the processes of displacements that accompanied the developments of America and Australia .
January	Ch -11 Path to Modernisation	Make students aware that transformation in the modern world takes many different forms.
February	REVISION	
March	REVISION	

### Syllabus

P1 – Ch 2 and 3

P2 – Ch 4 and 6

Term 1 – Ch 2, 3,4and 6

P3 – Ch 7 and 9

Term 2 – Ch 7, 9, 10 and 11

**Code No. 027**  
**Class XI (2021-22)**  
**THEMES IN WORLD HISTORY**

**TERM I**

<b>S.NO</b>	<b>THEMES</b>	<b>WEIGHTAGE (IN MARKS)</b>
1.	Theme 2 -Writing And City Life	10
2.	Theme 3 - An Empire Across Three Continents	10
3.	Theme 4 - Central Islamic lands	10
4.	Theme 6 -The Three Orders	10
	<b>Total</b>	<b>40</b>

**TERM-II**

<b>S.NO</b>	<b>THEMES</b>	<b>WEIGHTAGE (IN MARKS)</b>
5.	Theme 7 - Changing Cultural Traditions	10
6.	Theme 9 - The Industrial Revolution	10
7.	Theme 10 - Displacing Indigenous People	10
8.	Theme 11 - Paths To Modernization	10
	<b>Total</b>	<b>40</b>

**\* Map work included in both the terms**

**Project Work\* = 20 Marks (10+10)**

**\*See the guidelines given with the document.**

Grand Total =	Term I	=	40 Marks
	Term II	=	40 Marks
	Project Work	=	20 Marks
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		=	<b>100 Marks</b>
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**1. Term-Wise Assessment of Project Work:**

- Project Work has broadly the following phases: Synopsis/ Initiation, Data Collection, Data Analysis and Interpretation, Conclusion.
- The aspects of the project work to be covered by students can be assessed during the two terms.
- 20 marks assigned for Project Work can be divided in to two terms in the following manner:

**TERM-I PROJECT WORK: 10 Marks**

The teacher will assess the progress of the project work in the term I in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
1-3 July- September	Instructions about Project Guidelines, Background reading Discussions on Theme and Selection of the Final Topic, Initiation/ Synopsis	Introduction, Statement of Purpose/Need and objectives of the study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Methodology, Questionnaire, Data Collection.	5
4-5 October November	Planning and organisation: forming an action plan, feasibility or baseline study, Updating/modifying the action plan, Data Collection	Significance and relevance of the topic; challenges encountered while conducting the research.	5
October- November	<b>Midterm Assessment by internal examiner</b>	<b>Total</b>	<b>10</b>

## **TERM- II - PROJECT WORK: 10 Marks**

The teacher will assess the progress of the project work in the term II in the following manner:

<b>Month</b>	<b>Periodic Work</b>	<b>Assessment Rubrics</b>	<b>Marks</b>
6-7 December -January	Content/data analysis and interpretation.  Conclusion, Limitations, Suggestions, Bibliography, Annexures and overall presentation of the project.	Content analysis and its relevance in the current scenario.  Conclusion, Limitations, Bibliography, Annexures and Overall Presentation.	5
8 January/ February	<b>Final Assessment and VIVA by both Internal and External Examiners</b>	External/ Internal Viva based on the project	5
		<b>TOTAL</b>	<b>10</b>

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## **POLITICAL SCIENCE**

<b>MONTH</b>	<b>BOOK</b>	<b>CHAPTER NAME/ Content</b>	<b>LEARNING OUTCOME</b>
MAY	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.
JULY	Book-1	Ch-2- Elections and Representation	- different methods of election; the characteristics of the system of election adopted



	Book-2	Ch-1- Political Theory- An introduction	<p>in our country; the importance of the provisions for free and fair elections; and the debate on electoral reforms.</p> <p>- 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</p>
AUGUST	Book-1	Ch – 8- 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
SEPTEMBER	Book -2	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
OCTOBER	Book-2	Ch-10- Development	- explain the meaning of the term development. Discuss the achievements and problems of existing models of development. Discuss some of the alternative models of development which have been put forward.
		<b>REVISION</b>	
NOVEMBER	Book-1	Ch-4- 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
DECEMBER	Book-1 Book-1	Ch-3- The Executive	- 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.
		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

JANUARY	Book-1	Ch- 2- Liberty/Freedom  Ch-3- Equality	- 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' - 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?
FEBRUARY	Book-1	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 that a fair and just society would be in the interest of all members and could be defended on rational grounds.

### **Syllabus for PT-1**

Book -1	Ch-1 Constitution Why and How Ch – 2 Election and Representation
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### **Syllabus for PT- 2**

Book-1	Ch- 8- Local Governments
Book - 2	Ch -1- Political Theory An Introduction Ch- 5- Rights

### **Half – yearly/ Term -1 – Whole Term-1 syllabus**

Book -1	Ch-1 Constitution Why and How Ch – 2 Election and Representation Ch- 8- Local Governments
Book -2	Ch -1- Political Theory An Introduction Ch- 5- Rights Ch -10 – Development

### **Syllabus for PT -3**

Book -2	Ch-3 – Executive
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Ch – 4- Legislature
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**Annual Examination- Whole Term-II syllabus**

Book -1	Ch-3-Executive Ch-4- Legislature Ch-5- Judiciary
Book-2	Ch-2- Liberty/Freedom Ch-3- Equality Ch-4- Justice

**POLITICALSCIENCE(CodeNo. 028)**

**ClassXI(2021-22)**

**TERMWISESYLLABUS**

**TERM-1**

**40Marks**

Units	Contents	WEIGHTAGE(INMARKS)
<b>PartA:IndianConstitutionatWork</b>		
1	Constitution	12
2	ElectionandRepresentation	05
3	LocalGovernment	03
<b>PartB:PoliticalTheory</b>		
4	PoliticalTheory: AnIntroduction	07
5	Rights	07
6	Development	06
<b>Total</b>		<b>40</b>

**TERM-2**

**40Marks**

Units	Contents	WEIGHTAGE(INMARKS)
<b>PartA:IndianConstitutionatWork</b>		

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7	Legislature	07
8	Executive	07
9	Judiciary	06
<b>PartB:PoliticalTheory</b>		
10	Liberty	07
11	Equality	07
12	Justice	06
	<b>Total</b>	<b>40</b>





### **TERM-IPROJECTWORK: 10Marks**

The teacher will assess the progress of the project work in the term in the following manner:

<b>Month</b>	<b>Periodic Work</b>	<b>Assessment Rubrics</b>	<b>Marks</b>
1-3 July- September	Instructions about Project Guidelines, Background reading, Discussion on Theme and Selection of the Final Topic, Initiation/Synopsis	Introduction, Statement of Purpose/Need and objectives of the study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Methodology, Questionnaire, Data Collection.	5
4-5 October- November	Planning and organisation: forming an action plan, feasibility or baseline study, Updating/modifying the action plan, Data Collection	Significance and relevance of the topic; challenges encountered while conducting the research.	5
October- November	<b>Midterm Assessment by internal examiner</b>	<b>TOTAL</b>	<b>10</b>

### **TERM- II-PROJECTWORK: 10Marks**

The teacher will assess the progress of the project work in the term II in the following manner:

<b>Month</b>	<b>Periodic Work</b>	<b>Assessment Rubrics</b>	<b>Marks</b>
6-7 December -January	Content/data analysis and interpretation.  Conclusion, Limitations, Suggestions, Bibliography, Annexures and overall presentation of the project.	Content analysis and its relevance in the current scenario.  Conclusion, Limitations, Bibliography, Annexures and Overall Presentation.	5
8 January/ February	<b>Final Assessment and VIVA by both Internal and External Examiners</b>	External/ Internal Viva based on the project	5
		<b>TOTAL</b>	<b>10</b>

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### **OPTIONAL**

#### **A. PSYCHOLOGY**

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<b>Month</b>	<b>Name of the Topic</b>	<b>Activity</b>	<b>Learning Outcome</b>
May/ July	Ch – 1. Introduction to Psychology	Activity of Misconceptions of Psychology	Ch-1. Interest in the new subject is generated and the basic content of the discipline is known



August	Ch-2 Methods in Psychology  <u>Practical Project work</u> to be given	Activity on Survey Method	Ch-2. The challenging subject content requires various types of methods to study it. These methods will become familiar
September	Ch – 3. Biological and Cultural Basis of Behaviour  <u>Experiment No. 1 Span of attention:</u> (If situation is still grim then Psychometric test 1 can be done):	Activity on acculturation	Ch-3. Psychology being a hybrid science , is influenced by biological as well as socio cultural influences. A brief introduction to Physical and social Psychology will be obtained  Students will learn how perception goes beyond sensation. Various factors influencing sensation perception and illusion will be clear.
October	Ch4. Human Development .	Activity on Different developmental stages of life	Ch-4. Human development follows a definite pattern. Each stage of life has special developmental tasks as well as challenges. Each stage right from prenatal to old age will be understood.
November	Ch – 5. Sensory and Perceptual	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.
December	Ch – 6. Learning	Activity on reinforcements used in daily life	Ch-6. The concept of learning , various fundamental theories influencing it will be understood.

	<u>Experiment No.2 transfer of training</u> i.e. experiment 2 for practicals	Activity on creativity	Various determinants of learning will be grasped. Students will be able to conduct, interpret and report the two experiments
January	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
February	Psychometric Test/Experiments : Other deleted but relevant topics to be discussed.  <b>Revision for exams</b>	Conduction and Interpretation of test  Situational case studies to understand emotion management	Students will get a first hand experience of how a Psychometric test functions along with important topics from thinking and emotions chapters.

<b>Syllabus for P1</b>	Chapter No. 1,2
<b>Syllabus for Half yearly Examination</b>	Chapter Nos. 1 , 2 , 3 + one project for practical
<b>Syllabus for P2</b>	Chapter Nos. 2 , 3
<b>Syllabus for P3</b>	Chapter Nos 4,5
<b>Syllabus for Annual Examination</b>	Complete Syllabus (,4,5,6,7)+ One experiment for practical

**(TERM WISE CURRICULUM)**

**COURSE STRUCTURE  
(TERM WISE)  
CLASS XI (2021-2022)**

Units	Topics	No. of periods	Marks
<b>TERM 1</b>			
I	What is Psychology?	18	10
II	Methods of Enquiry in Psychology	20	13
III	The Bases of Human Behavior	22	12
	<b>Total</b>	<b>60</b>	<b>35</b>
<b>TERM 2</b>			
IV	Human Development	16	9
V	Sensory, Attentional and Perceptual Processes	12	8
VI	Learning	17	10
VII	Human Memory	15	8
	Total	60	35
	<b>Total</b>	<b>120</b>	<b>70</b>

**PRACTICAL – TERM 1**

<b>PRACTICAL (PROJECT)</b>	<b>15 MARKS</b>
The students shall be required to undertake <b>one project</b> . The project would involve the use of different methods of enquiry and related skills.	
<ul style="list-style-type: none"> <li>• Project file: 06 Marks</li> <li>• Presentation of Project : 06 Marks</li> <li>• Viva Voce (Project): .. 03 Marks</li> </ul>	

**PRACTICAL –TERM 2**

<b>Practical (Experiment)</b>	<b>15 marks</b>
The students shall be required to <b>conduct one experiment</b> related to the topics covered in the course (e.g. Human development, Learning, Memory, Perception and Attention).	
<b>Practical Examination</b>	
<ul style="list-style-type: none"> <li>● Practical (Experiment) file 05 Marks</li> <li>● Viva Voce (Experiment) 03 Marks</li> <li>● Conduct of one experiment and report writing 07 Marks*</li> </ul>	
*(03 Marks for conduct of experiment and 04 Marks for report writing)	

## **B. INFORMATICS PRACTICES**

### **Class XI – Month Wise Syllabus (Term I & II)**

Month	Name of the Topics	Activity	Learning Outcome
<b>May</b>	<p><b>Unit 1</b> : Introduction to Computer System : Hardware Components, : Software - purpose and types</p> <p><b>Unit 5:</b> Introduction to the Emerging Trends 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>Presentation to identify hardware and software components of a computer system.</p> <p>A movie to be prepared discussing various Emerging trends in the fields of Information Technology and their applications.</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 identify the Emerging trends in the fields of Information Technology and their applications.</p>
<b>July</b>	<p><b>Unit 2:</b> Introduction to Python 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, control statements: if-else, for loop.</p>	<p>Demonstration of Python IDLE interface and simple usage.</p> <p>Python applications to do simple calculations like perimeter, area, interest, etc.</p> <p>Python applications to do conditional and iterative problems.</p>	<p>Ability to develop application using simple python.</p> <p>Ability to develop application using conditional statement.</p> <p>Ability to use, develop &amp; debug programs independently.</p>
<b>August</b>	<p><b>Periodic Test 1</b></p> <p><b>Unit 2:</b> 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>Python applications to do use lists and dictionary.</p>	<p>Ability to use, develop &amp; debug programs independently.</p>

<b>September</b>	Periodic Test 2	Revision	Recall topics done. apply knowledge & understanding to solve given questions.
<b>October</b>	<b>Unit 4</b> : 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.	Given a table, identify its various components. Creation of students' database.	Ability to identify various components of a DBMS. Ability to create database, store data using MySQL.
<b>November</b>	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.	Application of various SQL commands on students' database.	Ability to manipulate data stored in databases.
<b>December</b>	EXTRA PORTION : Data Handling using NumPy  Project development.	Python applications to create and manipulate arrays.	Ability to represent and use data using arrays.
<b>January</b>	<b>Periodic Test 3</b>  Project development.  Annual Examination (Practical & Theory)	Development of Python modules and integration to develop a small project based on Python.	Ability to develop a project.

<b>Syllabus for P1</b>	Chapter 1
<b>Syllabus for P2</b>	Chapter 3
<b>Syllabus for Term 1</b>	Chapter 1,3,4
<b>Syllabus for P3</b>	Chapter 2, 7
<b>Syllabus for Annual Exam</b>	Chapter 2, 7, 8

### C. PHYSICAL EDUCATION

#### Class : XI – Month Wise Syllabus (Term I & II)

Month	Name of the Topics	Activity	Learning Outcome
<b>TERM-I</b>			
<b>MAY</b>	<b>Unit 1:</b> Changing Trends & Career in Physical Education • Meaning & definition of Physical Education • Aims & Objectives of Physical Education • Career Options in Physical Education. • Khelo-India Program	Explore careers in sports and Phy.Edu.  Khelo India Program	Knowledge of careers Awareness about Physical Education
<b>JULY</b>	<b>Unit 2:</b> Olympic Value Education • Olympics • Olympic Symbols, Ideals, Objectives & Values of Olympism • International Olympic Committee • Indian Olympic Association  <b>Unit3:</b> Physical Fitness, Wellness & Lifestyle • Meaning & Importance of Physical Fitness, Wellness & Lifestyle • Components of physical fitness and Wellness • Components of Health related fitness	Explore about Olympics  Implement Physical fitness and wellness in one's own life	Knowledge about Olympics Physical Fitness and wellness components
<b>AUGUST</b>	<b>Unit7:</b> Test, Measurement & Evaluation • Define Test, Measurement & Evaluation • Importance of Test, Measurement & Evaluation In Sports • Calculation of BMI & Waist - Hip Ratio. • Measurement of health related fitness. <b>PERIODIC TEST-I</b>	Calculation of BMI, Hip Ratio of family members	Knowledge about different evaluation tests to know about one's fitness
<b>SEPTEMBER</b>	<b>Unit8:</b> Fundamentals of Anatomy, Physiology & Kinesiology in Sports • Definition and Importance of Anatomy, Physiology & Kinesiology <b>Periodic TEST-2</b>	Application of centre of gravity in sports	Knowledge about different organ systems in human body Gravity in sports

<b>OCTOBER</b>	<ul style="list-style-type: none"> <li>• Function of Skeleton System, Classification of Bones &amp; Types of Joints</li> <li>• Function &amp; Structure of Respiratory System and Circulatory System</li> <li>• Equilibrium – Dynamic &amp; Static And Centre of Gravity and its application in sports</li> </ul>	Application of centre of gravity in sports	Knowledge about different organ systems in human body Gravity in sports
	<b>Term-II</b>		
<b>NOV.</b>	<p><b>Unit 4:</b> Physical Education &amp; Sports for CWSN (Children With Special Needs- Divyang)</p> <ul style="list-style-type: none"> <li>• Aims &amp; objectives of Adaptive Physical Education</li> <li>• Organization promoting Adaptive Sports (Special Olympics Bharat; Paralympics; Deaflympics)</li> <li>• Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist &amp; special Educator)</li> </ul>	Organisation of activities for CSWN	Knowledge about CSWN and the therapies needed for them to make them part of society. Sports events associated with CSWN Counselling of Divyangs
<b>DECEMBER</b>	<p><b>Unit 5:</b>Yoga • Meaning &amp; Importance of Yoga • Elements of Yoga • Introduction - Asanas, Pranayam, Meditation &amp; Yogic Kriyas • Yoga for concentration &amp; related Asanas (Sukhasana; Tadasana; Padmasana&amp;Shashankasana, Naukasana, Vrikshasana (Tree pose), Garudasana (Eagle pose)</p> <p><b>Project Discussion</b> <b>Practical Exam*</b></p>	Project File based on sport/game of choice  Questionnaire	Knowledge about one specific game/sport  Recall.

<b>JANUARY</b>	<p><b>Unit6:</b>Physical Activity &amp; Leadership Training • Leadership Qualities &amp; Role of a Leader • Meaning, objectives &amp; types of Adventure Sports (Rock Climbing, Tracking, River Rafting, Mountaineering, Surfing and Paragliding) • Safety measures to prevent sports injuries</p>	<p>Use of various yogasnas for fitness and well-being</p> <p>Motivated the students to do Rock climbing and mountaineering</p>	<p>Knowledge of importance of yoga and asanas in today's scenario.</p> <p>Knowledge about the role of leader, adventure sports and the safety measures to be taken to prevent sports injury.</p>
<b>Feb.</b>	<p><b>Unit9:</b> Psychology &amp; Sports • Definition &amp; Importance of Psychology in Phy. Edu. &amp; Sports • Define &amp; Differentiate Between Growth &amp; Development. • Adolescent Problems &amp; Their Management</p> <p><b>Unit10:</b> Training and Doping in Sports • Meaning &amp; Concept of Sports Training • Principles of Sports Training • Concept &amp; classification of doping • Prohibited Substances &amp; their side effects</p> <p>Project Discussion for term -2</p> <p><b>PERIODIC TEST-3</b></p>	<p>Discussion on general problems faced by teenagers</p> <p>Project File Based on physical fitness activity/yoga</p>	<p>Knowledge of Psychology in sports. Adolescent problems</p> <p>Knowledge about Training in sports.</p> <p>Knowledge about doping and its side effects</p> <p>Learnt about physical activity/yoga for fitness</p>
	<p><b>Revision Term-II Syllabus</b></p> <p><b>Practical Exam*</b></p>	<p>Questionnaires</p>	<p>Recall</p>
<b>March/April*</b>	<p><b>Term-II Examination</b></p>		

(\*)

<b>Syllabus for PT1</b>	<b>CHAPTER 1,2,3</b>
<b>Syllabus for PT2</b>	<b>CHAPTER 7</b>



Syllabus for Term 1	CHAPTERS – 1,2,3,7,8
Syllabus for PT3	Chapter 4,5,6
Syllabus for Term-II	CHAPTERS –4,5,6,9,10

#### D. PAINTING

Subject: FINE ARTS-PAINTING (THEORY) Class 11<sup>th</sup>

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 <sup>rd</sup> Century B.C to 8 <sup>th</sup> 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 <sup>th</sup> , 8 <sup>th</sup> and 9 <sup>th</sup> Century A.D)	Identify the Picture of Different Art Styles	
January	Study of Temple Sculpture (10 <sup>th</sup> -13 <sup>th</sup> 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**

<b>Syllabus for P1:</b>	An introduction to Art Pre-Historic Rock Paintings And Art of Indus Valley (2500 B.C to 1500 B.C)
<b>Syllabus for P2:</b>	Buddhist, Jain and Hindu Art ( 3 <sup>rd</sup> Century B.C to 8 <sup>th</sup> Century A.D) Introduction to Ajanta, Study of Paintings and Sculptures of Ajanta Caves
<b>Syllabus for Half Yearly:</b>	Pre-Historic Rock Paintings and Art of Indus Valley (2500 B.C to 1500 A.D) Buddhist, Jain, Hindu Art (3 <sup>rd</sup> Century B.C to 8 <sup>th</sup> Century A.D) Introduction to Ajanta, Study of Paintings and Sculptures of Ajanta Caves, Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture
<b>Syllabus for P3:</b>	Study of Temple Sculpture (7 <sup>th</sup> to 10 <sup>th</sup> -13 <sup>th</sup> Century A.D)
<b>Syllabus for Annual Exam</b>	Complete Syllabus

**Subject: FINE ARTS-PAINTING (Practical) Class 11<sup>th</sup>**

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

**Fine Arts (2021-22)****Class XI****Code No. 49****CLASS–XI (THEORY) (2021-22)****(Code No. 049)****Theory: Term-I 15 Marks, and Term-II 15 Marks****Total: 30 Marks****Unit wise Weightage**

Term	Units		Marks
	<b>History of Indian Art</b>		
<b>I</b>	1	Pre-Historic rock paintings and art of Indus Valley	8
	2	Buddhist, Jain and Hindu Art	7
	3	Temple Sculptures	8

<b>II</b>	4	Bronzes and Artistic aspects of Indo-Islamic architecture		7
				<b>30</b>

**(PRACTICAL)**

**Term I**

**35 Marks**

<b>Unit</b>	<b>Content</b>	<b>Marks</b>
	<b>Painting Composition</b>	<b>25 Marks</b>
	(i) Simple exercises of basic design in variation of geometric and rhythmic shapes in geometrical and decorative designs and colours to understand designs as organised visual arrangements.	10 Marks
	(ii) Sketches from life and nature	15 Marks
	<b>Portfolio Assessment</b>	<b>10 Marks</b>
	a) Record of the Term, performance from sketch to finished product	5 Marks
	b) One selected work of paintings composition done during the Term	3 Marks
	c) Two selected works of paintings done during the Term	2 Marks

**Term II**

<b>Unit</b>	<b>Nature and Object Study</b>	<b>35 Marks</b>
	Study of two or three natural and geometric forms in pencil with light and shade from a fixed point of view. Natural forms like plants, vegetables, fruits and flowers, etc., are to be used. Geometrical forms of objects like cubes, cones, prisms, cylinders and spheres should be used.	<b>25 Marks</b>
	<b>Portfolio Assessment</b>	<b>10 Marks</b>
	(a) Record of the Term, performance from sketch to finished product	5 Marks
	(b) Three selected nature and object study exercises in any media done during session including the minimum of two still life exercises.	5 Marks

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"> <li>• They will know about the career opportunities of Home Science.</li> <li>• The way to have healthy relationship within the family members and peer groups</li> </ul>
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"> <li>• The meaning and need for management</li> <li>• To explain the concept of yarn and fabric making.</li> </ul>
September	<b>Revision</b>		
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"> <li>• Understand the functions of food, nutrition, food preservation and health.</li> <li>• Develop high values and ethics.</li> </ul>
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"> <li>• Equipped to face the challenges of the real life situations</li> </ul>
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"> <li>• Students will be able to describe the steps to promote good health and wellness.</li> <li>• Students will learn about the importance of Textile Finishing.</li> </ul>
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"> <li>• They will understand the importance of saving and investment.</li> </ul>

			<ul style="list-style-type: none"> <li>They will learn the care of different fabric</li> </ul>
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### Term I (Course structure-Theory)

Unit No.	Units	Marks
1.	Introduction to Home Science	02
2.	Understanding Oneself-Adolescence	18
3.	Understanding Family, Community and Society	15
	<b>Total</b>	<b>35</b>

### Term II (Course Structure-Theory)

Unit No.	Units	Marks
4.	Childhood	17
5.	Adulthood	18
	<b>Total</b>	<b>35</b>

### Examination wise Syllabus division

S.No.	Examination	Syllabus
1.	P-1	1.Introduction to Home Science 2.Understanding oneself-Adolescence
2.	P-2	1. Food Nutrition Health and Fitness 2. Management of Resources
3.	Half Yearly(Term-I)	1.Introduction to Home Science 2.Understanding oneself-Adolescence 3. Understanding Family, Community and Society 4.Food Nutrition Health and Fitness 5.Management of resources
4.	P-3	1.Adulthood
5.	Term-II	1.Adulthood 2. Childhood

### Practicals

- (1) Prepare nutritious snacks for Adolescents,
- (2) To make presentation on Indian Traditional craft.
- (3) To prepare an article on Mandana.

**Art Integrated project (AIL) with paired state Assam.**

Power Point Presentation on

- F. Sericulture Technique and Institutes of Assam.
- G. Costume of Assam

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**F. MATHEMATICS**

**Month wise/Term wise Bifurcation of Syllabus 2021 – 2022 Mathematics Class 11 (Core Mathematics)**

MONTH	CHAPTER NAME	LEARNING OUTCOME: Students will be able to
AUGUST 2021	COMPLEX NUMBERS & QUADRATIC EQUATIONS  SETS  RELATIONS & FUNCTIONS	Learn the concept of an imaginary number and shall be able to solve the Quadratic equations having un real roots.  Learn the representation of Sets and algebra of sets.  Explain the Definition of relation, example pertaining to relations in the real number system.
SEPTEMBER 2021	RELATIONS & FUNCTIONS (cont.)  Straight Lines	Learn the pictorial representation of sets and domain, co-domain and range of function.  Recall two dimensional geometry slope of a line. They will also learn the various forms of equations of line.

OCTOBER 2021	STATISTICS  LIMITS	Learn to measure dispersions, mean deviation, variance and standard deviation of ungrouped/grouped data.  Learn the concept of Limits of various functions such as polynomial, trigonometric, exponential, logarithmic functions.
NOVEMBER2021	REVISION	
DECEMBER 2021	TERM END EXAMS  LINEAR INEQUALITIES	Able to solve linear inequalities algebraically and graphically.
JANUARY2022	PERMUTATION AND COMBINATIONS  Conic Section	Learn the fundamental principle of counting and the application of formula.  Know the sections of the cone and their standard equations and properties of conic section.
FEBRUARY2022	Introduction of 3D Geometry  Derivatives	Learn the concept of three dimension geometry, distance between two points and section formula.  Understand derivative as rate of change of a quantity with respect to the other quantity.

MARCH2022	Probability	Understand the concept of probability of and/or events, exhaustive events, mutually exclusive events etc.
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Name of the Examination	Chapter Name
Periodic Test 2	<ul style="list-style-type: none"> <li>• SETS</li> <li>• RELATION and FUNCTIONS</li> <li>• COMPLEX NUMBERS and QUADRATIC EQUATIONS</li> </ul>
Term end Exam/ Half yearly exam	<ul style="list-style-type: none"> <li>• SETS</li> <li>• RELATION and FUNCTIONS</li> <li>• COMPLEX NUMBERS and</li> <li>• QUADRATIC EQUATIONS</li> <li>• SEQUENCE AND SERIES</li> <li>• STRAIGHT LINES</li> <li>• LIMITS</li> <li>• STATISTICS</li> </ul>
Periodic Test 3	<ul style="list-style-type: none"> <li>• Linear Inequalities</li> <li>• Permutation and combination</li> <li>• Conic Section</li> </ul>
Yearly Exam	<ul style="list-style-type: none"> <li>• Trigonometric functions</li> <li>• Linear Inequalities</li> <li>• Permutation and combination</li> <li>• Conic Section</li> <li>• Introduction to 3-D geometry</li> <li>• Derivatives</li> <li>• Probability</li> </ul>

### **G. APPLIED MATH**

Month Wise Distribution 2021 – 2022

Class 11 Applied Mathematics

<u>MONTHS</u>	<u>NAME OF CHAPTER</u>	<u>LEARNING OUTCOMES</u> <u>Students will be able to :</u>
May 2021	SET  RELATIONS  SEQUENCE AND SERIES	Apply the concept of Venn Diagram to understand the relationship between sets. Perform operations on sets to solve practical problems.  Explain the Definition of relation, example pertaining to relations in the real number system.  Determine general term of series in AP, Calculate sum of n terms of series, find AM of two numbers.
July 2021	SEQUENCE AND SERIES (cont.)  FUNCTION	Determine general term of series in GP, Calculate sum of n terms. find GM of two positive numbers.  Define function. Solve problems based on domain, range and Co – domain. Representation of function graphically
August 2021	NUMBERS AND QUATIFICATION  NUMERICAL APPLICATION	Express binary number into decimal number and vice versa. Relate indices and logarithm / antilogarithm. Solve problems based on indices and logarithm and antilogarithm  Determine/ Calculate/ Solve problems on Average, Clock, Calendar, Time Work and Distance, Mensuration , Seating arrangement.
September 2021	DESCRIPTIVE STATISTICS	Understand, Differentiate, Calculate Range, Quartile deviation, Mean deviation and standard deviation. Calculate coefficient of Skewness and Kurtosis, interpret Percentile and Quartile rank of scores, correlation in a given data set.
October 2021	MATHEMATICAL REASONING  LOGICAL REASONING	Identify mathematically acceptable statement. Express the implication of the compound statement,  Solve logical reasoning involving odd man out, syllogism, blood relation and coding decoding.

November 2021	<p>PERMUTATION AND COMBINATION</p> <p>CALCULUS</p>	<p>Apply the concept of permutation, circular permutation and combination with repetitions to solve problems.</p> <p>Define limit and continuity of a function. Solve problems based on the algebra of limits.</p> <p>Find the derivate of the functions and function of a function.</p>
December 2021	<p>PROBABILITY</p> <p>(i) Event</p> <p>(ii) Conditional Probability</p> <p>(iii) Bayes' Theorem</p> <p>COORDINATE GEOMETRY</p> <p>(i) STRAIGHT LINE</p>	<p>Find sample space, identity between exhaustive events and exclusive events.</p> <p>Solve problems based on conditional probability.</p> <p>Solved problems on Bayes Theorem.</p> <p>Find Slope of line, Calculate angle between two lines. Use various forms of equation of line.</p> <p>Calculate distance between two parallel lines.</p>
January 2022	<p>COORDINATE GEOMETRY(cont.)</p> <p>(ii) CIRCLE</p> <p>(iii) PARABOLA</p> <p>FINANCIAL MATHEMATICS</p> <p>(i) SIMPLE AND COMPOUND INTEREST</p>	<p>Solve problems based on applications of circle.</p> <p>Use Application in parabolic reflector, beam supported by wires at the end of the support, girder of a railways bridge, etc.</p> <p>Interpret and Calculate simple interest and compound interest</p>
February 2022	<p>FINANCIAL MATHEMATICS (Conti.)</p> <p>(ii) ANNUITY</p> <p>(iii) TAXATION</p>	<p>Apply the concept of annuity in real life situations.</p> <p>Explain rules under State Goods and Service Tax (SGST) Central Goods and</p>

	(iv) <b>BILLS</b>	<p>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.</p>
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PT - 1	<ol style="list-style-type: none"> <li>1. Sets,</li> <li>2. Relation</li> <li>3. Sequence and Series</li> </ol>
PT – 2	<ol style="list-style-type: none"> <li>1. Function</li> <li>2. Binary Number</li> <li>3. Indices , Logarithm and Antilogarithm</li> </ol>
Half Yearly	<ol style="list-style-type: none"> <li>1. Number Qualification : Binary Number , Indices, Logarithm and antilogarithm</li> <li>2. Numerical Application : Average, Clock, Calendar, Time and work, Distance, Mensuration, Seating Arrangement</li> <li>3. Algebra : Sets, Relation, Sequence and Series</li> <li>4. Reasoning : Mathematical Reasoning, Logical Reasoning</li> <li>5. Descriptive Statistics</li> <li>6. Function</li> </ol>
PT – 3	<ol style="list-style-type: none"> <li>1. Permutation and Combination</li> <li>2. Probability</li> <li>3. Calculus: Limits, Continuity and Differentiation.</li> </ol>
Annual Exam	<ol style="list-style-type: none"> <li>1. Permutation and Combination</li> <li>2. Calculus: Limits, Continuity and Differentiation.</li> <li>3. Probability</li> </ol>

	<p>4. Financial Mathematics : Interest, Annuities, Tax, Bills</p> <p>5. Coordinate Geometry : Straight Line, Circle , Parabola</p>
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#### INTERNAL ASSESSMENT

<u>Term</u>	<u>Area and Weight age</u>	<u>Assessment Area</u>	<u>Marks Allocated</u>
Term 1	Project	Project work and record	5
		Viva of the project	5
		TOTAL	10

<u>Term</u>	<u>Area and Weight age</u>	<u>Assessment Area</u>	<u>Marks Allocated</u>
Term 2	Practical	Performance of practical and record	5
		Term end test of any one practical and Viva	5
		TOTAL	10