

**Carmel Convent Sr. Sec. School**  
**Syllabus for Class XII (2023-24)**

**ENGLISH**

<b>Month</b>	<b>Chapter</b>
<b>April/ May</b>	<b>Flamingo:</b> Chapter 1- The Last Lesson <b>Poem:</b> 1. My Mother at Sixty Six <b>Vistas:</b> Chapter 1- The Third Level Chapter 2- The Tiger King <b>Creative Writing Skills:</b> 1. Notice Writing 2. Invitations and replies(Formal and informal) <b>Reading Comprehension</b>
<b>July</b>	<b>Flamingo:</b> Chapter 2- Lost Spring Chapter 3- Deep Water <b>Vistas:</b> Chapter 2- Journey to the end of the Earth <b>Creative Writing Skills:</b> Invitations and replies (continued) Letter to the editor <b>Reading Comprehension</b> - Factual, Descriptive, literary and case based passages
<b>August</b>	<b>Flamingo:</b> Chapter 4 – The Rattrap Chapter 5- Indigo <b>Poem:</b> Keeping Quiet <b>Vistas:</b> Chapter 4- The Enemy <b>Creative Writing Skills:</b> Invitations (continued) Job Application
<b>September</b>	<b>Flamingo:</b> Chapter 6- Poets and Pancakes <b>Poem:</b> A Thing of Beauty <b>Vistas:</b> Chapter 6-On the Face of it <b>Creative Writing Skills:</b> Report Writing <b>Reading Comprehension</b>
<b>October</b>	<b>Flamingo:</b> Chapter 7- The Interview (Part I and II) <b>Poem:</b> A Roadside Stand <b>Vistas:</b> Chapter 8- Memories of Childhood <ul style="list-style-type: none"> <li>• The Cutting Of My Long Hair</li> <li>• We Too Are Human Beings</li> </ul> <b>Creative Writing skills:</b> Article
<b>November</b>	<b>Flamingo:</b> Chapter 8- Going Places <b>Poem:</b> Aunt Jennifer’s Tigers <b>Reading Comprehension</b>
<b>December</b>	<b>Flamingo and Vistas</b> (Revision)

## हिंदी

माह	पाठ
अप्रैल	1. अभिव्यक्ति और माध्यम 2. भक्तिन 3. आत्म परिचय 4. एक गीत
जून-जुलाई	1. बाज़ार दर्शन 2. पतंग 3. कविता के बहाने 4. बात सीधी थी पर 5. सिल्वर वेडिंग
अगस्त	1. काले मेघा पानी दे 2. कैमरे में बंद अपाहिज 3. कहानी का नाट्य रूपांतरण 4. रेडियो नाटक
सितंबर	1. उषा 2. बादल राग 3. पहलवान की ढोलक 4. फीचि, आलेख लेखन
अक्टूबर	1. कवितावली 2. लक्ष्मण मूर्छा और राम का विलाप 3. जूझ 4. जनसंचार
नवंबर	1. रुबाइयाँ 2. शिरीष के फूल 3. अतीत में दबे पाँव 4. जनसंचार, पत्र लेखन
दिसम्बर	1. छोटा मेरा खेत 2. बगुलों के पंख 3. श्रम विभाजन और जाति प्रथा 4. मेरी कल्पना का आदर्श समाज
जनवरी	पुनरावृत्ति

## APPLIED MATHEMATICS

Month	Chapter
April / May	3 Matrices 4 Determinants 5 Higher Order Derivatives 6 Applications of Derivatives

<b>July</b>	6 Applications of Derivatives(contd.) 7 Integration and its Applications
<b>August</b>	8 Differential Equations and Modeling
<b>September</b>	1 Numbers, Quantification and Numerical Applications 2 Numerical Inequalities 9 Probability Distributions
<b>October</b>	11 Time Based Data 12 Perpetuity, Sinking Funds and EMI
<b>November</b>	13 Returns and Growth 14 Linear Programming
<b>December</b>	10 Inferential Statistics

### **MATHEMATICS**

<b>Month</b>	<b>Chapter</b>
<b>April / May</b>	1 Relations and Functions 3 Matrices 2 Inverse Trigonometric Functions
<b>June-July</b>	4 Determinants 5 Continuity and Differentiability
<b>August</b>	6 Applications of Derivatives
<b>September</b>	13 Probability 12 Linear Programming Problem 7 Integration
<b>October</b>	8 Applications of Integrals
<b>November</b>	9 Differential Equations 10 Vector Algebra 11 Three Dimensional Geometry

### **ACCOUNTANCY**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>APRIL</b>	<b>PART-A</b> Unit -2 Accounting for Partnership Firm <ul style="list-style-type: none"> <li>• Fundamentals</li> <li>• Goodwill: Nature and Valuation</li> </ul>
<b>JULY</b>	<b>PART-A</b> Unit -2 Accounting for Partnership Firm <ul style="list-style-type: none"> <li>• Goodwill: Nature and Valuation (contd....)</li> <li>• Change in Profit-sharing ratio among the existing partners</li> <li>• Admission of a Partner</li> </ul>
<b>AUGUST</b>	<b>PART -A</b> Unit-2 Accounting for Partnership Firm <ul style="list-style-type: none"> <li>• Retirement of a Partner</li> <li>• Death of a Partner</li> </ul>

	<b>PART-B</b> Unit- 4 <ul style="list-style-type: none"> <li>Financial Statements of a company</li> <li>Financial Statement Analysis</li> </ul>
<b>SEPTEMBER</b>	<b>PART –B</b> <ul style="list-style-type: none"> <li>Accounting Ratios</li> </ul> <b>PART-A</b> <ul style="list-style-type: none"> <li>Dissolution of a Partnership Firm</li> </ul>
<b>OCTOBER</b>	<b>PART-A</b> Unit-3 Accounting for Companies <ul style="list-style-type: none"> <li>Accounting for Share capital</li> </ul>
<b>NOVEMBER</b>	<b>PART-B</b> Unit-5 <ul style="list-style-type: none"> <li>Cash Flow Statement</li> </ul> <b>PART-A</b> <ul style="list-style-type: none"> <li>Accounting for Debentures</li> </ul>
<b>DECEMBER</b>	Revision

### **ECONOMICS**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>April</b>	<b>Macro-</b> Unit 1 National income
<b>July</b>	<b>Macro-</b> Unit 2 Money & Banking Unit 3 Government budget & economy
<b>August</b>	<b>Macro-</b> Unit 4 Continue Government budget <b>ID-</b> Unit 6 Development experience on the eve of independence
<b>September</b>	<b>ID-</b> Unit 6 Economic reforms Unit 7 current challenges -poverty -Human capital formation -Rural development
<b>October</b>	<b>Macro-</b> Unit 5 Balance of payment Foreign exchange Rate <b>ID-</b> Unit 7 Employment Infrastructure , sustainable development
<b>November</b>	<b>Macro-</b> Unit 3 Determination of income and employment <b>ID-</b> Unit 8 Development experience of India, china, Pak
<b>December</b>	Revision

### **BIOLOGY**

<b>MONTH</b>	<b>CHAPTER</b>
<b>APRIL</b>	UNIT 1 Reproduction
<b>JULY</b>	UNIT 2 Genetics And Evolution

<b>AUGUST</b>	UNIT 3 Biology And Human Welfare
<b>OCTOBER</b>	UNIT 4 Biotechnology And Its Application
<b>NOVEMBER</b>	UNIT 5 Ecology And Environment

### **PHYSICS**

<b>MONTH</b>	<b>CHAPTER</b>
<b>APRIL</b>	<b>I Electrostatics</b> - Ch 1 Electric Charges and Fields Ch 2 Electrostatic Potential and Capacitance
<b>JULY</b>	<b>II Current Electricity</b> - Ch 3 Current Electricity <b>III Magnetic Effect of Current &amp; Magnetism</b> -Ch 4 Moving Charges and Magnetism Ch 5 Magnetism and Matter <b>IV Electromagnetic Induction &amp; Alternating Current</b> - Ch 6 Electromagnetic Induction Ch 7 Alternating Current
<b>AUGUST</b>	<b>V Electromagnetic Waves</b> - Ch 8 Electromagnetic Waves
<b>SEPTEMBER</b>	<b>VI Optics</b> - Ch 9 Ray Optics and Optical Instruments Ch 10 Wave Optics
<b>OCTOBER</b>	<b>VII Dual Nature of Matter</b> - Ch 11 Dual Nature of Radiation and Matter
<b>NOVEMBER</b>	<b>VIII Atoms &amp; Nuclei</b> - Ch 12 Atoms Ch 13 Nuclei
<b>DECEMBER</b>	<b>IX Electronic Devices</b> - Ch 14 Semiconductor Electronics
<b>JANUARY</b>	<b>X Practical Work</b>

### **BUSINESS STUDIES**

<b>MONTH</b>	<b>TOPIC</b>
<b>APRIL</b>	Unit 1- Nature and significance of management Unit 2- Principles of management Unit 3- Business environment (+ project work)
<b>JULY</b>	Revision (CH 1,2 & 3 for PT 1 Exams) Unit 11- MARKETING MANAGEMENT Unit 4- PLANNING
<b>AUGUST</b>	Unit 5- Organising Unit 6- Staffing Unit 7- Directing
<b>SEPTEMBER</b>	Unit 8- Controlling revision ( for pt 2 exams)
<b>OCTOBER</b>	Unit 9- Financial management Unit 10- Financial market (+ project work)
<b>NOVEMBER</b>	Unit 12- Consumer protection

## **CHEMISTRY**

<b>MONTH</b>	<b>CHAPTERS</b>
<b>APRIL</b>	Ch 1 Solutions Ch 2 Electrochemistry
<b>JULY</b>	Ch 3 Chemical Kinetics Ch 4 d and f Block elements
<b>AUGUST</b>	Ch 5 Coordination Compounds
<b>SEPTEMBER</b>	Ch 6 Haloalkanes and Haloarenes Ch 7 Alcohols, phenols and Ethers
<b>OCTOBER</b>	Ch 8 Aldehydes, Ketones and Carboxylic acid Ch 9 Amine
<b>NOVEMBER</b>	Ch 10 Biomolecules

## **POLITICAL SCIENCE**

<b>MONTH</b>	<b>CHAPTER</b>
<b>MARCH</b>	Ch 2 – The End of Bipolarity
<b>APRIL</b>	Ch 4-Contemporary Centres of Power
<b>JULY</b>	Ch 5 -Contemporary South Asia Ch 6 – International Organisations
<b>AUGUST</b>	Ch 7 – Security in the Contemporary World Ch 8 – Environment and Natural Resources
<b>SEPTEMBER</b>	Ch 9- Globalisation Ch 10- Challenges of Nation Building Ch 11 – Era of One Party Dominance
<b>OCTOBER</b>	Ch 12-Politics of Planned Development Ch 13- India’s External Relations Ch 14 – Challenges to and Restoration of the Congress System
<b>NOVEMBER</b>	Ch 14- The Crisis of Democratic Order Ch 15- Regional Aspirations Ch 16- Recent Developments in Indian Politics

## **HISTORY**

<b>MONTH</b>	<b>CHAPTER</b>
<b>APRIL</b>	Ch 1- Bricks, beads and bones Ch 2 – Kings, farmers and towns
<b>JULY</b>	Ch 3 – Kinship, caste and class Ch 4 – Thinkers, beliefs and buildings
<b>AUGUST</b>	Ch 5 – Through the eyes of travellers Ch 6 – Bhakti, sufi traditions
<b>SEPTEMBER</b>	Ch 7- An imperial capital: Vijayanagar
<b>OCTOBER</b>	Ch 8- Peasants, zamindars and the state Ch 10- Colonialism and the countryside
<b>NOVEMBER</b>	Ch 11- Rebels and the raj Ch 13- Mahatma gandhi and the nationalist movement
<b>DECEMBER</b>	Ch 15- Framing the constitution


### **MUSIC**

<b>MONTH</b>	<b>Theory</b>	<b>Practical</b>
<b>APRIL</b>	<ul style="list-style-type: none"> <li>Definition- Alankar, Kan, Meend, Khatka, Murki, Gamak, Grama, Murchna, Alaap, Taan.</li> <li>Taal Notation</li> </ul>	<ul style="list-style-type: none"> <li>Raag Bhairav (Aroh, avroh, pakad, sargam, lakshangeet and chotakhyaal along with taan)</li> <li>Taal (4)</li> </ul>
<b>JULY</b>	<ul style="list-style-type: none"> <li>Classification of Raag</li> <li>Time theory of Raag</li> </ul>	<ul style="list-style-type: none"> <li>Raag Bhairav (Badakhyaal with aalap and taans)</li> <li>Taal (4)</li> </ul>
<b>AUGUST</b>	Detail study of the- <ul style="list-style-type: none"> <li>Sangeet Ratnakar</li> <li>Sangeet Parijat</li> </ul>	<ul style="list-style-type: none"> <li>Raag Bageshri (Aroh, avroh, pakad, sargam, lakshangeet and chotakhyaal along with taan)</li> </ul>
<b>SEPTEMBER</b>	<ul style="list-style-type: none"> <li>Raag Varnan</li> <li>Knowledge of tuning of Tanpura</li> </ul>	<ul style="list-style-type: none"> <li>Raag Bageshri (Badakhyaal with aalap and taans)</li> <li>Devotional Song</li> <li>Taal(4)</li> </ul>
<b>OCTOBER</b>	Contributions of Musicians- <ul style="list-style-type: none"> <li>Ustad Abdul Karim Khan</li> <li>Ustad Faiyaz Khan</li> <li>Ustad Bade Gulam Ali Khan</li> <li>Pt. Krishna Rao Shankar Pandit</li> </ul>	<ul style="list-style-type: none"> <li>Raag Malkauns (Aroh, avroh, pakad, sargam, lakshangeet and chotakhyaal along with taan)</li> <li>Taal(4)</li> </ul>
<b>NOVEMBER</b>	Critical study and writing in notation the composition of the prescribed raga	<ul style="list-style-type: none"> <li>Ability to recognize the Ragas</li> <li>Raag Malkauns (Tarana and Dhamar)</li> </ul>
<b>DECEMBER</b>	Revision	Revision

### **PAINTING**

<b>MONTH</b>	<b>SYLLABUS</b>
<b>APRIL</b>	History of miniature art Revision Rajasthani School of miniature painting
<b>JULY</b>	Pahari School of Miniature Painting Mughal School of Miniature Painting Paintings of Mughal School
<b>AUGUST</b>	Deccan School of Miniature Painting Evolution of Indian National Flag Bengal School of painting

<b>SEPTEMBER</b>	Artist of the Bengal School, Contribution of the artist of Bengal School in National Freedom struggle. Evolution of Modern Trends.
<b>OCTOBER</b>	Modern Trends in Indian Art PAINTING Modern Trends in Indian Art SCULPTURE
<b>NOVEMBER</b>	Modern Trends in Indian Art GRAPHICS
<b>DECEMBER</b>	REVISION

### **PHYSICAL EDUCATION**

<b>MONTH</b>	<b>CHAPTER</b>
<b>APRIL</b>	1. PLANNING IN SPORTS <ul style="list-style-type: none"> <li>• Function of sports management</li> <li>• meaning and concept planning</li> <li>• various committees and their responsibility</li> <li>• tournaments: knock-out, league, league cum knock-out</li> <li>• intramurals and extramurals</li> <li>• specific sports programme</li> </ul>
<b>JULY</b>	2. CHILDREN AND WOMEN IN SPORTS <ul style="list-style-type: none"> <li>• motor development and factor affecting it</li> <li>• Common postural deformities.</li> <li>• Kyphosis, Lordosis, Knock knee, Bow leg, Flat foot</li> <li>• weight training</li> <li>• special consideration</li> <li>• Menarche and menstrual dysfunction</li> </ul> 3. YOGA AS PREVENTIVE MEASURE FOR LIFESTYLE DISEASES <ul style="list-style-type: none"> <li>• asana as preventive measures</li> <li>• obesity, asthma, hypertension, backpain</li> <li>• procedure, benefits and contraindication</li> <li>• types of asana</li> <li>• elements of yoga</li> <li>• types of pranayama</li> </ul>
<b>AUGUST</b>	4. PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY ABLED <ul style="list-style-type: none"> <li>• concept of disability and disorder</li> <li>• types of disability (cognitive, intellectual, physical disability)</li> <li>• types of disorder (ADHD, SPD, ASD, OCD, ODD)</li> <li>• disability etiquettes</li> <li>• strategies to make physical activities</li> </ul>



	5. SPORTS AND NUTRITION <ul style="list-style-type: none"> <li>• balance diet: macro and micro nutrients</li> <li>• components of diet</li> <li>• factor affecting diet</li> <li>• eating disorders</li> <li>• energy requirement</li> </ul>
<b>SEPTEMBER</b>	6. TEST AND MEASUREMENT IN SPORTS <ul style="list-style-type: none"> <li>• Fitness test SAI KHELO INDIA FITNESS TEST</li> <li>• Rikli and Jones test</li> <li>• Computation of basal metabolic rate</li> </ul> 7. KINESIOLOGY, BIOMECHANICS AND SPORTS <ul style="list-style-type: none"> <li>• Meaning and importance of bio mechanics</li> <li>• Newton's law of motion</li> <li>• Equilibrium in sports</li> <li>• Friction and sports</li> <li>• Types of movements</li> </ul>
<b>OCTOBER</b>	8. PHYSIOLOGY AND SPORTS <ul style="list-style-type: none"> <li>• Gender differences</li> <li>• Physiological factor determining components of physical fitness.</li> <li>• Effect of exercise on various systems of the body</li> <li>• Physiological changes due to aging.</li> </ul> 9. PSYCHOLOGY AND SPORTS <ul style="list-style-type: none"> <li>• Understanding stress and coping strategies.</li> <li>• Personality</li> <li>• Motivation</li> <li>• Psychological benefits of exercise</li> </ul>
<b>NOVEMBER</b>	10. TRAINING IN SPORTS <ul style="list-style-type: none"> <li>• Concept of talent identification.</li> <li>• Sports training cycle. Micro, meso, macro</li> <li>• Types and method of developing</li> <li>• Strength, speed, endurance, flexibility, coordinative ability.</li> <li>• Circuit training and high altitude training.</li> </ul>
<b>DECEMBER</b>	REVISION

### **COMPUTER**

<b>MONTH</b>	<b>TOPICS</b>
<b>April/May</b>	<ul style="list-style-type: none"> <li>• Review of Python Basics</li> <li>• Computer Networks</li> <li>• Functions in Python: Introduction to user defined functions</li> </ul>
<b>July</b>	<ul style="list-style-type: none"> <li>• Functions in Python</li> <li>• Types of Parameters</li> <li>• Global and Local Scope</li> </ul>

	<ul style="list-style-type: none"> <li>• Mutability and Immutability using various datatypes in functions</li> <li>• Python's In-built functions</li> </ul>
<b>August</b>	<ul style="list-style-type: none"> <li>• Using Python Libraries: Modules in Python ( string, random, math)</li> <li>• Data File Handling - Text File: opening and closing, reading and manipulating data, appending data.</li> <li>• Binary file: open and close, various operations (read, write, search etc).</li> </ul>
<b>September</b>	<ul style="list-style-type: none"> <li>• File handling: CSV File: Open and close, Read and write operations.</li> <li>• Data Structures : List: creating and manipulating, functions and methods related to list.</li> <li>• Stacks in Python: Push and pop operations in Stack using list.</li> </ul>
<b>October</b>	<ul style="list-style-type: none"> <li>• Database concepts, relational database model.</li> <li>• SQL: data types, SQL commands, SQL functions.</li> <li>• Joins: equi-join and natural join</li> </ul>
<b>November</b>	<ul style="list-style-type: none"> <li>• Interface of python with an SQL database: Connecting SQL with Python,</li> </ul>
<b>December</b>	<ul style="list-style-type: none"> <li>• Revision and practice</li> </ul>

### **KATHAK**

<b>MONTH</b>	<b>TOPICS</b>
<b>APRIL</b>	<b>Theory-</b> Abhinay bheda, (angik, vachik, aharya, satvik). Definition- vandana, tihaary, samad, toda/tukra, paran, chakardar, Gatbhav, Gatnivas. <b>Practical-</b> Practice of tatkar, hastak, vandana, amad, that.
<b>JUNE</b>	<b>Theory-</b> Other classical dance form. <b>Practical-</b> Practice of bol-bandish
<b>JULY</b>	<b>Theory-</b> Sangeet, laya, karan-anghar, vandana, tihaayi, taal, laya, lakdharmi-natyadhrmi <b>Practical-</b> Practice of paran, tukra, toda
<b>AUGUST</b>	<b>Theory-</b> Nine rasa, other classical dance. Bhava, notation of teen taal, Thaptal, Roopaktal, dadaratal. <b>Practical-</b> Kavita, Gatnikas, Gatbhava
<b>SEPTEMBER</b>	<b>Theory-</b> Ganas of kathak dance (Jaipu, Lucknow, Banaras) <b>Practical-</b> Bhavapaksha, ladi, Jhaptal
<b>OCTOBER</b>	<b>Theory-</b> Knowledge of traditional costumes and makeup of kathak dance. <b>Practical-</b> Jhaptal-bol bandish
<b>NOVEMBER</b>	<b>Theory-</b> Some extra topic from theory and revision of all topics. <b>Practical-</b> Revision of practical performance and viva.

## **BHARATNATYAM**

<b>MONTH</b>	<b>TOPICS</b>
<b>JULY</b>	<b>Theory-</b> Acquaintance with life history of the chief exponents and contributors of the past of the dance form. <b>Practical-</b> Revision of all the adavus studied in class XI.
<b>AUGUST</b>	<b>Theory-</b> Acquaintance with the contents of the Abhinaya Darpan <b>Practical-</b> Practice of Alaripu.
<b>SEPTEMBER</b>	<b>Theory-</b> Knowledge of terms used in Bharatanatyam and mudras and viniyogas. <b>Practical-</b> Jatiswaram in Rupaktaal and basic knowledge of the carnatic music format.
<b>OCTOBER</b>	<b>Theory-</b> knowledge of terms used in Bharatanatyam 1. Nritta, Nritya, Natya. 2. Tandav. 3. Lasya, Lokdharmi, Nityadharmi. 4. Sthana, chari, mandala, bhrahmari, utplavana. 5. Abhinaya, Sangeet, Rasa, Taal <b>Practical-</b> knowledge of the saptataal and Tillana in Adi Taalam.
<b>NOVEMBER</b>	<b>Theory-</b> knowledge of the technical terminology of the particular dance. <b>Practical-</b> Hasta viniyoga of 14 Asamyuta and 12 Samyuta Hasta Viniyoga.
<b>DECEMBER</b>	<b>Theory-</b> Acquaintance with the traditional costumes, makeup of the dance style opted. <b>Practical-</b> knowledge of the Pada bhedas, Mandalas, Brahmaris and Utplavana occuring in the terms learnt.